

***Palazzoli***

**General**  
Catalogue



2019/2020

# ***Palazzoli***





CHIAREZZA DELLA FUNZIONE  
SEMPLICITÀ DI PROGETTO  
QUALITÀ DELLA MANIFATTURA

---

CLARITY OF FUNCTION  
PROJECT SIMPLICITY  
QUALITY OF MANUFACTURE



# Experience

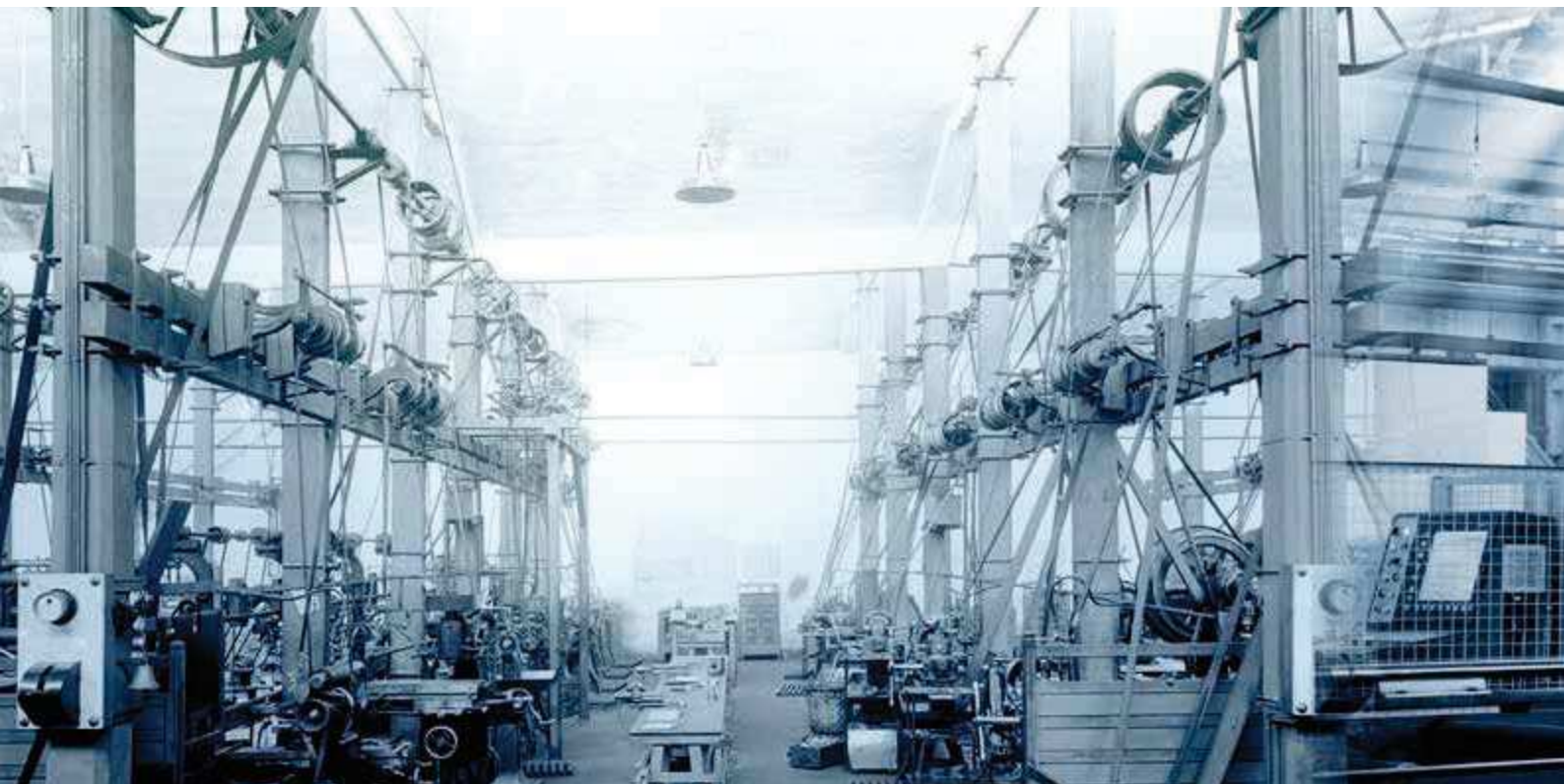
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## Tradition in evolution

Palazzoli was founded in 1904 by Federico Palazzoli, as a company specialising in electrical equipment and industrial plants for power supply.

For more than a century, unparalleled safety standards have remained the top priority of the company. This commitment has made the brand Palazzoli synonymous with reliability in the electrical engineering industry, recognised by many customers and consolidated by the established performance of products, as evidenced by the numerous **awards** obtained:

Red Dot, Design Plus, Construmat, Good design, etc.





# Innovation

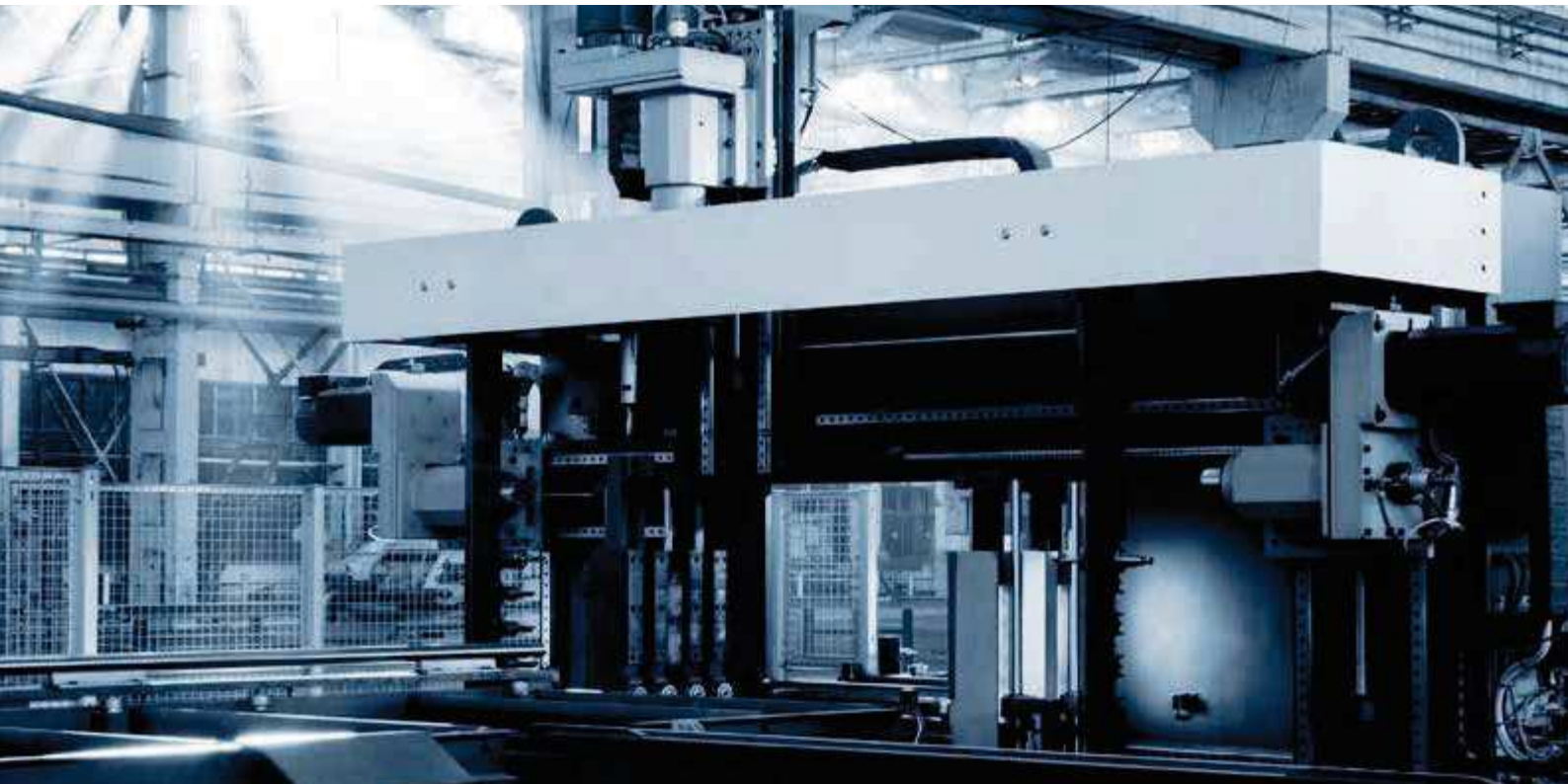
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## Mission & Vision

To provide an innovative model based on product excellence, convenient installation and durability of performance, in order to enable our customers to be authors of state-of-the-art electrical implementations.

To satisfy the fundamental need of man to express himself with his achievements, allowing the distribution of low voltage energy, with the intention of leaving a mark in the world of electrical engineering. To continue to be for our customers the specialist of reference, innovation and vitality, and to assure them **clarity of function, quality of manufacture and simplicity of design**.

To create new products, **also to customer specifications**, for the Installation, Lighting, ATEX and Marine sectors. These are the guidelines of our daily commitment.



# ***Palazzoli***

In the electromechanical sector we have expanded our presence in all the major countries, with over 100 business partners.

From the Brescia plant over 300 employees serve an organisation of 5,000 resellers worldwide.





# **Palazzoli** GROUP

In addition to the historic Palazzoli brand,  
the Group consists of Lewden,  
Stral and Palazzoli Middle East.

In a complete and constantly renewed range of products,  
Designers and Installers find the most advanced as well as durable solutions  
to meet the most demanding requirements.



**Palazzoli**

**Palazzoli**  
GROUP Middle East

**STRAL**  
LIGHTING FOR LIFE



# Website



palazzoli.com



palazzolilux.com



Easy Composer



Discovery



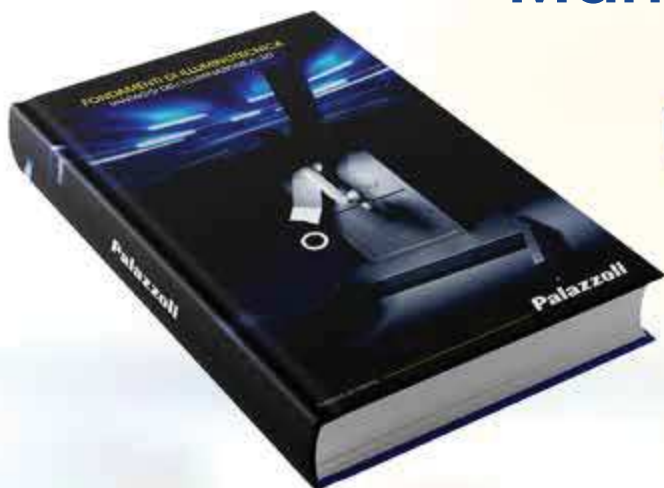
Master Projects



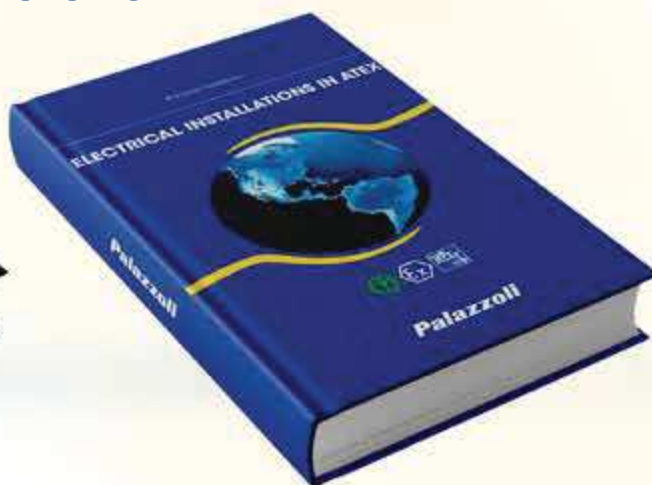
Atex App



# Manuals



Lighting



Atex



Master Projects



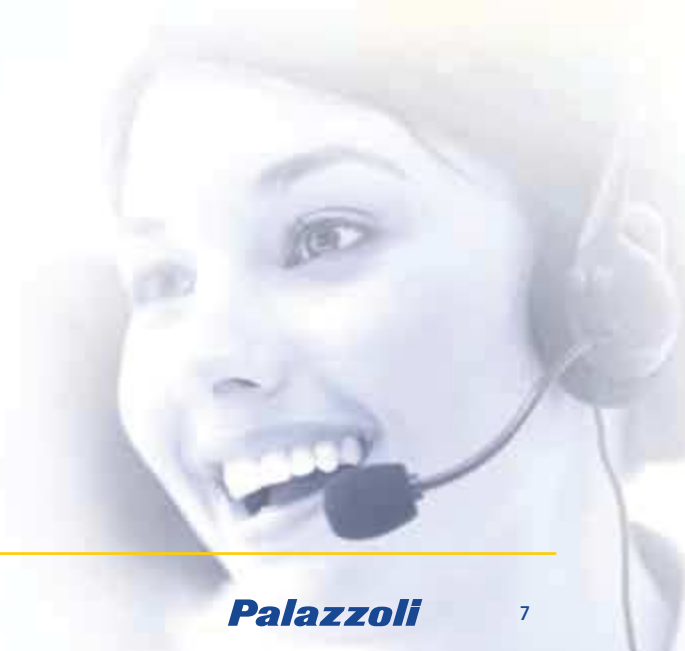
Reference book

**800 700 332**

**Technical assistance**  
**+39 030.20.15.1**



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**+39 331.617.9896**





## INSTALLATION

Service, Industry, Building, Tunnels

### PLUGS AND SOCKETS

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### INTERLOCKED SOCKET-OUTLETS

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### BOARDS AND BOXES

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### PRE-WIRED BOARDS

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### TUNNELS

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## LIGHTING

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Industrial, Service, Sports, Tunnels



## ATEX

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Combustible dust, Conductive dust, Gas, Vapours, Mist



## MARINE AND APPLICATIONS

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Ports, Aboard container ships, Campsites, Urban areas



## SERVICES

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Spare parts, technical data and dimensions pages





Items to be discontinued



Spare parts



Forms



Dimensions



Sequential index









# INSTALLATION

## SECTION







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TUNNELS PAGE 234







# PLUGS AND SOCKETS

For standard applications



**MULTIMAX**  
quick-mounting mobile  
plugs and sockets  
page 20



**MULTIMAX**  
mobile plugs and sockets  
for entertainment  
page 25



**MULTIPLAY**  
multipliers and adaptors  
for temporary installations  
page 26



**SPIN**  
mobile rubber plugs and sockets  
for domestic installations  
page 27



**topTER**  
flush-mounted  
sockets  
page 28



**domoTER**  
modular devices  
for domestic installations  
page 38





## PLUGS AND SOCKETS

For heavy-duty applications



**X-CEE**  
safety performance  
mobile plugs  
page 42



**X-CEE**  
safety performance  
mobile sockets  
page 49



**CEE**  
extra low voltage  
plugs and sockets  
page 54









**ALUMAX**  
connections  
for high amperages  
page 58





# TECHNOPOLYMER PLUGS AND SOCKETS

## FROM 16A TO 125A

				X-CEE series					
									
Rated current (A)	Rated voltage (V)	Poles	h ref.	Straight mobile plugs IP66/IP67/IP68/IP69	Panel-mounted straight plugs IP66/IP67/IP68/IP69	20° angled panel-mounted plugs IP66/IP67/IP68/IP69	65° angled wall-mounted plugs IP66/IP67/IP68/IP69	Straight mobile socket-outlets IP66/IP67/IP68/IP69	Straight panel-mounted sockets IP66/IP67/IP68/IP69
16	110 100-130	2P+⊕	4	<b>760124</b>	<b>762124</b>	<b>763124</b>	<b>766124</b>	<b>770124</b>	<b>772124</b>
		3P+⊕	4	<b>760134</b>				<b>770134</b>	<b>772134</b>
		3P+N+⊕	4	<b>760144</b>				<b>770144</b>	<b>772144</b>
	230 200-250	2P+⊕	6	<b>760126</b>	<b>762126</b>	<b>763126</b>	<b>766126</b>	<b>770126</b>	<b>772126</b>
		3P+⊕	9	<b>760139</b>				<b>770139</b>	<b>772139</b>
		3P+N+⊕	9	<b>760149</b>				<b>770149</b>	<b>772149</b>
	400 380-415	2P+⊕	9	<b>760129</b>				<b>770129</b>	<b>772129</b>
		3P+⊕	6	<b>760136</b>	<b>762136</b>	<b>763136</b>	<b>766136</b>	<b>770136</b>	<b>772136</b>
		3P+N+⊕	6	<b>760146</b>	<b>762146</b>	<b>763146</b>	<b>766146</b>	<b>770146</b>	<b>772146</b>
	500 480-500	3P+⊕	7	<b>760137</b>				<b>770137</b>	<b>772137</b>
		3P+N+⊕	7	<b>760147</b>				<b>770147</b>	<b>772147</b>
	32	110 100-130	2P+⊕	4	<b>760224</b>	<b>762224</b>	<b>763224</b>	<b>766224</b>	<b>770224</b>
3P+⊕			4	<b>760234</b>				<b>770234</b>	<b>772234</b>
3P+N+⊕			4	<b>760244</b>				<b>770244</b>	<b>772244</b>
230 200-250		2P+⊕	6	<b>760226</b>	<b>762226</b>	<b>763226</b>	<b>766226</b>	<b>770226</b>	<b>772226</b>
		3P+⊕	9	<b>760239</b>				<b>770239</b>	<b>772239</b>
		3P+N+⊕	9	<b>760249</b>				<b>770249</b>	<b>772249</b>
400 380-415		2P+⊕	9	<b>760229</b>				<b>770229</b>	<b>772229</b>
		3P+⊕	6	<b>760236</b>	<b>762236</b>	<b>763236</b>	<b>766236</b>	<b>770236</b>	<b>772236</b>
		3P+N+⊕	6	<b>760246</b>	<b>762246</b>	<b>763246</b>	<b>766246</b>	<b>770246</b>	<b>772246</b>
500 480-500		3P+⊕	7	<b>760237</b>				<b>770237</b>	<b>772237</b>
		3P+N+⊕	7	<b>760247</b>				<b>770247</b>	<b>772247</b>
380-440		3P+⊕	3	<b>760233</b>				<b>770233</b>	<b>772233</b>
63	110 100-130	2P+⊕	4	<b>760324</b>				<b>770324</b>	<b>772324</b>
		3P+⊕	4	<b>760334</b>				<b>770334</b>	<b>772334</b>
		3P+N+⊕	4	<b>760344</b>				<b>770344</b>	<b>772344</b>
	230 200-250	2P+⊕	6	<b>760326</b>	<b>762326</b>	<b>763326</b>	<b>766326</b>	<b>770326</b>	<b>772326</b>
		3P+⊕	9	<b>760339</b>				<b>770339</b>	<b>772339</b>
		3P+N+⊕	9	<b>760349</b>				<b>770349</b>	<b>772349</b>
	400 380-415	2P+⊕	9	<b>760329</b>				<b>770329</b>	<b>772329</b>
		3P+⊕	6	<b>760336</b>	<b>762336</b>	<b>763336</b>	<b>766336</b>	<b>770336</b>	<b>772336</b>
		3P+N+⊕	6	<b>760346</b>	<b>762346</b>	<b>763346</b>	<b>766346</b>	<b>770346</b>	<b>772346</b>
	500 480-500	3P+⊕	7	<b>760337</b>				<b>770337</b>	<b>772337</b>
		3P+N+⊕	7	<b>760347</b>				<b>770347</b>	<b>772347</b>
	125	110 100-130	2P+⊕	4	<b>760424</b>				<b>770424</b>
3P+⊕			4	<b>760434</b>				<b>770434</b>	<b>772434</b>
3P+N+⊕			4	<b>760444</b>				<b>770444</b>	<b>772444</b>
230 200-250		2P+⊕	6	<b>760426</b>				<b>770426</b>	<b>772426</b>
		3P+⊕	9	<b>760439</b>				<b>770439</b>	<b>772439</b>
		3P+N+⊕	9	<b>760449</b>				<b>770449</b>	<b>772449</b>
400 380-415		2P+⊕	9	<b>760429</b>				<b>770429</b>	<b>772429</b>
		3P+⊕	6	<b>760436</b>	<b>762436</b>	<b>763436</b>	<b>766436</b>	<b>770436</b>	<b>772436</b>
		3P+N+⊕	6	<b>760446</b>	<b>762446</b>	<b>763446</b>	<b>766446</b>	<b>770446</b>	<b>772446</b>
500 480-500		3P+⊕	7	<b>760437</b>				<b>770437</b>	<b>772437</b>
		3P+N+⊕	7	<b>760447</b>				<b>770447</b>	<b>772447</b>



X-CEE series		X-CEE series - Compositions					
 page 50							
h	20° angled panel-mounted sockets IP66/IP67/IP68/IP69	65° angled wall-mounted sockets IP66/IP67/IP68/IP69	Inlets IP66/IP67 IP68/IP69	Sockets IP66/IP67 IP68/IP69	Straight panel-mounted flanges IP66/IP67/IP68/IP69	20° angled panel-mounted flanges IP66/IP67/IP68/IP69	65° angled wall-mounted boxes IP66/IP67/IP68/IP69
4	773124	776124	769124	779124	419021	419031	532131
4	773134	776134	769134	779134	419022	419032	532131
4	773144	776144	769144	779144	419023	419033	532131
6	773126	776126	769126	779126	419021	419031	532131
9	773139	776139	769139	779139	419022	419032	532131
9	773149	776149	769149	779149	419023	419033	532131
9	773129	776129	769129	779129	419021	419031	532131
6	773136	776136	769136	779136	419022	419032	532131
6	773146	776146	769146	779146	419023	419033	532131
7	773137	776137	769137	779137	419022	419032	532131
7	773147	776147	769147	779147	419023	419033	532131
4	773224	776224	769224	779224	419023	419033	532131
4	773234	776234	769234	779234	419023	419033	532131
4	773244	776244	769244	779244	419024	419034	532132
6	773226	776226	769226	779226	419023	419033	532131
9	773239	776239	769239	779239	419023	419033	532131
9	773249	776249	769249	779249	419024	419034	532132
9	773229	776229	769229	779229	419023	419033	532131
6	773236	776236	769236	779236	419023	419033	532131
6	773246	776246	769246	779246	419024	419034	532132
7	773237	776237	769237	779237	419023	419033	532131
7	773247	776247	769247	779247	419024	419034	532132
3	773233	776233	769233	779233	419023	419033	532131
4	773324	776324	769324	779324	419025	419035	532132
4	773334	776334	769334	779334	419025	419035	532132
4	773344	776344	769344	779344	419025	419035	532132
6	773326	776326	769326	779326	419025	419035	532132
9	773339	776339	769339	779339	419025	419035	532132
9	773349	776349	769349	779349	419025	419035	532132
9	773329	776329	769329	779329	419025	419035	532132
6	773336	776336	769336	779336	419025	419035	532132
6	773346	776346	769346	779346	419025	419035	532132
7	773337	776337	769337	779337	419025	419035	532132
7	773347	776347	769347	779347	419025	419035	532132
4			769424	779424	419026	419036	532133
4	773434	776434	769434	779434	419026	419036	532133
4	773444	776444	769444	779444	419026	419036	532133
6			769426	779426	419026	419036	532133
9	773439	776439	769439	779439	419026	419036	532133
9	773449	776449	769449	779449	419026	419036	532133
9			769429	779429	419026	419036	532133
6	773436	776436	769436	779436	419026	419036	532133
6	773446	776446	769446	779446	419026	419036	532133
7	773437	776437	769437	779437	419026	419036	532133
7	773447	776447	769447	779447	419026	419036	532133



**Plug and socket inserts can be installed:**







- on straight or angled panel-mounted flanges
- in boxes by using straight or angled flanges to achieve 65° or 85° angled devices and reduce overall dimensions











# THERMOPLASTIC PLUGS AND SOCKETS





## FROM 16A TO 63A



				MULTIMAX series					
									
Rated current (A)	Rated voltage (V)	Poles	h ref.	page 22 Straight mobile plugs IP44	page 23 Straight mobile plugs IP67	page 24 Straight mobile socket-outlets IP44	page 25 Straight mobile socket-outlets IP67	page 25 Straight mobile plugs IP44	page 25 Straight mobile socket-outlets IP44
16	110 100-130	2P+⊕	4	<b>700124</b>	<b>710124</b>	<b>720124</b>	<b>730124</b>	<b>705124</b>	<b>725124</b>
		3P+⊕	4	<b>700134</b>		<b>720134</b>			
		3P+N+⊕	4	<b>700144</b>		<b>720144</b>			
	230 200-250	2P+⊕	6	<b>700126</b>	<b>710126</b>	<b>720126</b>	<b>730126</b>	<b>705126</b>	<b>725126</b>
		3P+⊕	9	<b>700139</b>		<b>720139</b>			
		3P+N+⊕	9	<b>700149</b>		<b>720149</b>			
	400 380-415	2P+⊕	9	<b>700129</b>		<b>720129</b>			
		3P+⊕	6	<b>700136</b>	<b>710136</b>	<b>720136</b>	<b>730136</b>	<b>705136</b>	<b>725136</b>
		3P+N+⊕	6	<b>700146</b>	<b>710146</b>	<b>720146</b>	<b>730146</b>	<b>705146</b>	<b>725146</b>
32	110 100-130	2P+⊕	4	<b>700224</b>	<b>710224</b>	<b>720224</b>	<b>730224</b>		
		3P+⊕	4	<b>700234</b>		<b>720234</b>			
		3P+N+⊕	4	<b>700244</b>		<b>720244</b>			
	230 200-250	2P+⊕	6	<b>700226</b>	<b>710226</b>	<b>720226</b>	<b>730226</b>	<b>705226</b>	<b>725226</b>
		3P+⊕	9	<b>700239</b>		<b>720239</b>			
		3P+N+⊕	9	<b>700249</b>		<b>720249</b>			
	400 380-415	2P+⊕	9	<b>700229</b>		<b>720229</b>			
		3P+⊕	6	<b>700236</b>	<b>710236</b>	<b>720236</b>	<b>730236</b>	<b>705236</b>	<b>725236</b>
		3P+N+⊕	6	<b>700246</b>	<b>710246</b>	<b>720246</b>	<b>730246</b>	<b>705246</b>	<b>725246</b>
63	230	2P+⊕	6		<b>710326</b>		<b>730326</b>		
		3P+⊕	6		<b>710336</b>		<b>730336</b>		
	400	3P+N+⊕	6		<b>710346</b>		<b>730346</b>		

				topTER series					
									
Rated current (A)	Rated voltage (V)	Poles	h ref.	page 32 Angled socket-outlets IP44	page 32 Angled socket-outlets IP66/IP67	page 37 15° angled wall-mounted socket-outlets IP44	page 37 15° angled wall-mounted socket-outlets IP66/IP67	page 37 90° angled wall-mounted socket-outlets IP44	page 37 90° angled wall-mounted socket-outlets IP67
16	110 100-130	2P+⊕	4	<b>488124</b>	<b>489124</b>	<b>438124</b>	<b>439124</b>	<b>508124</b>	<b>509124</b>
		3P+⊕	4	<b>488134</b>	<b>489134</b>				
		3P+N+⊕	4	<b>488144</b>	<b>489144</b>				
	230 200-250	2P+⊕	6	<b>488126</b>	<b>489126</b>	<b>438126</b>	<b>439126</b>	<b>508126</b>	<b>509126</b>
		3P+⊕	9	<b>488139</b>	<b>489139</b>				
		3P+N+⊕	9	<b>488149</b>	<b>489149</b>				
	400 380-415	2P+⊕	9	<b>488129</b>	<b>489129</b>				
		3P+⊕	6	<b>488136</b>	<b>489136</b>	<b>438136</b>	<b>439136</b>	<b>508136</b>	<b>509136</b>
		3P+N+⊕	6	<b>488146</b>	<b>489146</b>	<b>438146</b>	<b>439146</b>	<b>508146</b>	<b>509146</b>
32	110 100-130	2P+⊕	4	<b>488224</b>	<b>489224</b>	<b>438224</b>	<b>439224</b>	<b>508224</b>	<b>509224</b>
		3P+⊕	4	<b>488234</b>	<b>489234</b>				
		3P+N+⊕	4	<b>488244</b>	<b>489244</b>				
	230 200-250	2P+⊕	6	<b>488226</b>	<b>489226</b>	<b>438226</b>	<b>439226</b>	<b>508226</b>	<b>509226</b>
		3P+⊕	9	<b>488239</b>	<b>489239</b>				
		3P+N+⊕	9	<b>488249</b>	<b>489249</b>				
	400 380-415	2P+⊕	9	<b>488229</b>	<b>489229</b>				
		3P+⊕	6	<b>488236</b>	<b>489236</b>	<b>438236</b>	<b>439236</b>	<b>508236</b>	<b>509236</b>
		3P+N+⊕	6	<b>488246</b>	<b>489246</b>	<b>438246</b>	<b>439246</b>	<b>508246</b>	<b>509246</b>
63	400	3P+⊕	3		<b>489233</b>		<b>439233</b>		<b>509233</b>
		2P+⊕	6		<b>489326</b>				<b>509326</b>
380/440	400	3P+⊕	6		<b>489336</b>				<b>509336</b>
		3P+N+⊕	6		<b>489346</b>				<b>509346</b>







Rated current (A)	Rated voltage (V)	Poles	h ref.	CEE series									
				Straight mobile plugs IP44	Straight mobile plugs IP67	90° angled wall-mounted plugs IP44	Straight mobile socket-outlets IP44	Straight mobile socket-outlets IP67	Straight fixed socket-outlets IP44	Angled socket-outlets IP44	Straight fixed socket-outlets IP67	90° angled wall-mounted socket-outlets IP44	
16	20-25	2P	-	 page 54	 page 54	 page 55	 page 56	 page 56	 page 57	 page 57	 page 57	 page 56	
		3P	-	477002	477003	476002	473002	473003	471032	471062	471003	471002	
	40-50	2P	12	477102	477103	476102	473102	473103	471132	471162	471103	471102	
		3P	12	477112	477113	476112	473112	473113	471142	471172	471113	471112	
	20-25 40-50	2P	4	477012	477013	476042	473012	473013	471051	471111	471013	471011	
		3P	4	477122	477123	476142	473122	473123	471022	471122	471123	471151	
			2P	10	477602	477603	476602	473602	473603	471632	471662	471603	471602
	32	20-25	2P	-	477005	477006	476005	473005	473006	471035	471065	471007	471005
3P			-	477065	477066	476015	473065	473066	471045	471075	471067	471015	
40-50		2P	12	477105	477106	476105	473105	473106	471135	471165	471107	471105	
		3P	12	477115	477116	476115	473115	473116	471145	471175	471117	471115	
20-25 40-50		2P	4	477015	477016	476045	473015	473016	471108	471058	471017	471018	
		3P	4	477175	477176	476145	473125	473126	471118	471059	471177	471019	
			2P	10	477605	477606	476605	473605	473606	471635	471665	471607	471605

Rated current (A)	Rated voltage (V)	Poles	h ref.	High currents			
				Straight mobile plugs IP67	Straight mobile socket-outlets IP67	Angled socket-outlets IP67	Straight fixed socket-outlets IP67
63	48	2P	1	 page 55	 page 56	 page 57	 page 57
		3P	1	477951	473951	473961	473971
125	48	3P	1	477955	473955	473965	473975

Rated current (A)	Rated voltage (V)	Poles	h ref.	Twin cable	
				Straight mobile plugs IP67	Straight mobile socket-outlets IP67
32	48	2P	12	 page 55	 page 56
63	48	2P	1	477901	473901

## ALUMINIUM PLUGS AND SOCKETS

FROM 250A TO 400A

Rated current (A)	Poles	No. of pilot contacts	ALUMAX Series			
			Straight mobile plugs IP67	Straight mobile socket-outlets IP67	Straight inlets IP67	Straight fixed socket-outlets IP67
250	3P+≐	2	 page 59	 page 59	 page 59	 page 59
	3P+N+≐		750530	760530	751530	761530
320	3P+N+≐	2	750550	760550	751550	761550
400	3P+N+≐		750650	760650	751650	761650
			750750	760750	751750	761750

# MULTIMAX



**DESIGN PLUS**  
Design Plus Award  
Frankfurt



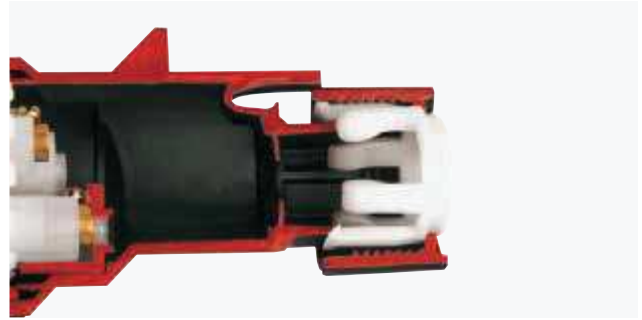


## MULTIMAX

3 international patents  
3 times faster connection



A simple click to fix the body to the grip.  
This international Palazzoli patent completes the connection in the easiest and safest way.



The tear-proof cable clamping is achieved with special hooks with a particular reverse grip system which counteracts the tensile force with an equal and opposite reaction.



The Multimax plug grip integrates an automatic cable gland locking system that protects against accidental loosening of the cable.  
The cable gland can be easily unlocked by lifting the locking arm.



The black colour series has been specially designed for the entertainment, film and HI-FI industries. Here, too, you will find all the advantages of Multimax.

Suitable for standard applications. The black versions are suitable for TV and film settings, photographic studios and theatres.



Thanks to their wiring speed and simplicity, they are particularly suitable for operations in series. Also in the IP44 version they are equipped with a quick closing cable clamp and a captive gasket that makes them safer than conventional sockets in the same category.

Compliance with standards	<b>IEC/EN 60309-1 IEC/EN 60309-2</b>
Grip material	<b>Thermoplastic</b>
Protection rating (IP according to IEC/EN 60529)	<b>IP44 - IP67</b>
Grip colour	<b>RAL7042 (standard) RAL7021 (black)</b>
Contacts material	<b>Brass (IP44) Nickel-plated brass (IP67)</b>
Resistance to abnormal heat and fire ("Glow Wire" according to IEC/EN 60695-2-10)	<b>850°C</b>
Flammability rating (according to UL94)	<b>V2</b>
Impact resistance (IK rating according to IEC/EN 62262)	<b>IK08</b>
Rated current	<b>16A - 32A - 63A</b>
Operating voltage	<b>50V - 690V</b>
Operating frequency	<b>0-500Hz</b>
Insulation voltage	<b>690V</b>
Pilot contact	<b>63A plugs and socket-outlets</b>
Storage temperature	<b>-30°C - +70°C</b>
Operating temperature	<b>-25°C - +50°C</b>



**Cable features:**

Rated current (A)	Poles	Entry cable diameter (mm)	Entry cable sections (mm <sup>2</sup> )
16	2P+⊕	8 - 13	1 - 6
	3P+⊕	8.5 - 14	
	3P+N+⊕	10 - 15.5	
32	2P+⊕	11 - 17.5	2.5 - 10
	3P+⊕	12 - 19.5	
	3P+N+⊕	14 - 21.5	
63	2P+⊕	16 - 26	4 - 25
	3P+⊕	18.5 - 29	
	3P+N+⊕	20 - 31.5	



**Straight mobile plugs**  
quick-mounting  
50-60Hz **IP44**

Rated current (A)	Rated voltage	Voltage colour	Poles	h ref.	Palazzoli code	Pack Qty
16	110V	●	2P+⊕	4	<b>700124</b>	10
	110V	●	3P+⊕	4	<b>700134</b>	5
	110V	●	3P+N+⊕	4	<b>700144</b>	5
	230V	●	2P+⊕	6	<b>700126</b>	40
	230V	●	3P+⊕	9	<b>700139</b>	5
	230V	●	3P+N+⊕	9	<b>700149</b>	5
	400V	●	2P+⊕	9	<b>700129</b>	5
	400V	●	3P+⊕	6	<b>700136</b>	30
	400V	●	3P+N+⊕	6	<b>700146</b>	20
	32	110V	●	2P+⊕	4	<b>700224</b>
110V		●	3P+⊕	4	<b>700234</b>	5
110V		●	3P+N+⊕	4	<b>700244</b>	5
230V		●	2P+⊕	6	<b>700226</b>	5
230V		●	3P+⊕	9	<b>700239</b>	5
230V		●	3P+N+⊕	9	<b>700249</b>	5
400V		●	2P+⊕	9	<b>700229</b>	5
400V		●	3P+⊕	6	<b>700236</b>	20
400V		●	3P+N+⊕	6	<b>700246</b>	20

**Features:** all products are packed separately.



**Straight mobile plugs**  
quick-mounting  
for **special applications**  
**IP44**

Rated current (A)	Frequency	Rated voltage	Voltage colour	Poles	h ref.	Palazzoli code	Pack Qty
16	50-60Hz	500V	●	2P+⊕	7	<b>700127</b>	5
	50-60Hz	500V	●	3P+⊕	7	<b>700137</b>	5
	50-60Hz	500V	●	3P+N+⊕	7	<b>700147</b>	5
	50-60Hz	600-690V	●	3P+⊕	5	<b>700135</b>	5
	50-60Hz	600-690V	●	3P+N+⊕	5	<b>700145</b>	5
	50-60Hz	>50V *	●	2P+⊕	12	<b>701122</b>	5
	50-60Hz	>50V *	●	3P+⊕	12	<b>701132</b>	5
	100-300Hz	>50V	●	2P+⊕	10	<b>700120</b>	5
	100-300Hz	>50V	●	3P+⊕	10	<b>700130</b>	5
	100-300Hz	>50V	●	3P+N+⊕	10	<b>700140</b>	5
	>300-500Hz	>50V	●	2P+⊕	2	<b>700122</b>	5
	>300-500Hz	>50V	●	3P+⊕	2	<b>700132</b>	5
	>300-500Hz	>50V	●	3P+N+⊕	2	<b>700142</b>	5
	60Hz	440-460V	●	3P+⊕	11	<b>700131</b>	5
	60Hz	440-460V	●	3P+N+⊕	11	<b>700141</b>	5
	DC	>50-250V	●	2P+⊕	3	<b>700123</b>	5
DC	>250V	●	2P+⊕	8	<b>700128</b>	5	
32	50-60Hz	500V	●	2P+⊕	7	<b>700227</b>	5
	50-60Hz	500V	●	3P+⊕	7	<b>700237</b>	5
	50-60Hz	500V	●	3P+N+⊕	7	<b>700247</b>	5
	50-60Hz	600-690V	●	3P+⊕	5	<b>700235</b>	5
	50-60Hz	600-690V	●	3P+N+⊕	5	<b>700245</b>	5
	50-60Hz	>50V *	●	2P+⊕	12	<b>701222</b>	5
	50-60Hz	>50V *	●	3P+⊕	12	<b>701232</b>	5
	100-300Hz	>50V	●	2P+⊕	10	<b>700220</b>	5
	100-300Hz	>50V	●	3P+⊕	10	<b>700230</b>	5
	100-300Hz	>50V	●	3P+N+⊕	10	<b>700240</b>	5
	>300-500Hz	>50V	●	2P+⊕	2	<b>700222</b>	5
	>300-500Hz	>50V	●	3P+⊕	2	<b>700232</b>	5
	>300-500Hz	>50V	●	3P+N+⊕	2	<b>700242</b>	5
	60Hz	440-460V	●	3P+⊕	11	<b>700231</b>	5
	60Hz	440-460V	●	3P+N+⊕	11	<b>700241</b>	5
	DC	>50-250V	●	2P+⊕	3	<b>700223</b>	5
50/60Hz	380/440V	●	3P+⊕	3	<b>700233</b>	5	
50/60Hz	380-440V	●	3P+N+⊕	3	<b>700243</b>	5	
DC	>250V	●	2P+⊕	8	<b>700228</b>	5	

\* For isolation transformer.

Features: all products are packed separately.



**Straight mobile plugs**  
quick-mounting  
**50-60Hz IP67**

Rated current (A)	Rated voltage	Voltage colour	Poles	h ref.	Palazzoli code	Pack Qty
16	110V	●	2P+⊕	4	<b>710124</b>	10
	230V	●	2P+⊕	6	<b>710126</b>	30
	400V	●	3P+⊕	6	<b>710136</b>	20
	400V	●	3P+N+⊕	6	<b>710146</b>	15
32	110V	●	2P+⊕	4	<b>710224</b>	6
	230V	●	2P+⊕	6	<b>710226</b>	6
	400V	●	3P+⊕	6	<b>710236</b>	15
	400V	●	3P+N+⊕	6	<b>710246</b>	10

Features: all products are packed separately.



**Straight mobile plugs**  
quick-mounting  
**50-60Hz IP67**

Rated current (A)	Rated voltage	Voltage colour	Poles	h ref.	Palazzoli code	Pack Qty
63	230V	●	2P+⊕	6	<b>710326</b>	2
	400V	●	3P+⊕	6	<b>710336</b>	5
	400V	●	3P+N+⊕	6	<b>710346</b>	5

Features: all products are packed separately.



**Straight mobile plugs**  
quick-mounting  
with **phase inverter**  
**50-60Hz IP67**

Rated current (A)	Rated voltage	Voltage colour	Poles	h ref.	Palazzoli code	Pack Qty
16	400V	●	3P+⊕	6	<b>710156</b>	1
	400V	●	3P+N+⊕	6	<b>710166</b>	1
32	400V	●	3P+⊕	6	<b>710256</b>	1
	400V	●	3P+N+⊕	6	<b>710266</b>	1

Features: all products are packed separately.





**Straight mobile socket-outlets**  
quick-mounting  
50-60Hz IP44

Rated current (A)	Rated voltage	Voltage colour	Poles	h ref.	Palazzoli code	Pack Qty
16	110V	●	2P+⊕	4	<b>720124</b>	5
	110V	●	3P+⊕	4	<b>720134</b>	5
	110V	●	3P+N+⊕	4	<b>720144</b>	5
	230V	●	2P+⊕	6	<b>720126</b>	30
	230V	●	3P+⊕	9	<b>720139</b>	5
	230V	●	3P+N+⊕	9	<b>720149</b>	5
	400V	●	2P+⊕	9	<b>720129</b>	5
	400V	●	3P+⊕	6	<b>720136</b>	20
	400V	●	3P+N+⊕	6	<b>720146</b>	20
	32	110V	●	2P+⊕	4	<b>720224</b>
110V		●	3P+⊕	4	<b>720234</b>	5
110V		●	3P+N+⊕	4	<b>720244</b>	5
230V		●	2P+⊕	6	<b>720226</b>	5
230V		●	3P+⊕	9	<b>720239</b>	5
230V		●	3P+N+⊕	9	<b>720249</b>	5
400V		●	2P+⊕	9	<b>720229</b>	5
400V		●	3P+⊕	6	<b>720236</b>	15
400V		●	3P+N+⊕	6	<b>720246</b>	15

Features: all products are packed separately.



**Straight mobile socket-outlets**  
quick-mounting  
for special applications  
IP44

Rated current (A)	Frequency	Rated voltage	Voltage colour	Poles	h ref.	Palazzoli code	Pack Qty
16	50-60Hz	500V	●	2P+⊕	7	<b>720127</b>	5
	50-60Hz	500V	●	3P+⊕	7	<b>720137</b>	5
	50-60Hz	500V	●	3P+N+⊕	7	<b>720147</b>	5
	50-60Hz	600-690V	●	3P+⊕	5	<b>720135</b>	5
	50-60Hz	600-690V	●	3P+N+⊕	5	<b>720145</b>	5
	50-60Hz	>50V *	●	2P+⊕	12	<b>721122</b>	5
	50-60Hz	>50V *	●	3P+⊕	12	<b>721132</b>	5
	100-300Hz	>50V	●	2P+⊕	10	<b>720120</b>	5
	100-300Hz	>50V	●	3P+⊕	10	<b>720130</b>	5
	100-300Hz	>50V	●	3P+N+⊕	10	<b>720140</b>	5
32	>300-500Hz	>50V	●	2P+⊕	2	<b>720122</b>	5
	>300-500Hz	>50V	●	3P+⊕	2	<b>720132</b>	5
	>300-500Hz	>50V	●	3P+N+⊕	2	<b>720142</b>	5
	60Hz	440-460V	●	3P+⊕	11	<b>720131</b>	5
	60Hz	440-460V	●	3P+N+⊕	11	<b>720141</b>	5
	DC	>50-250V	●	2P+⊕	3	<b>720123</b>	5
	DC	>250V	●	2P+⊕	8	<b>720128</b>	5
	50-60Hz	500V	●	2P+⊕	7	<b>720227</b>	5
	50-60Hz	500V	●	3P+⊕	7	<b>720237</b>	5
	50-60Hz	500V	●	3P+N+⊕	7	<b>720247</b>	5
32	50-60Hz	600-690V	●	3P+⊕	5	<b>720235</b>	5
	50-60Hz	600-690V	●	3P+N+⊕	5	<b>720245</b>	5
	50-60Hz	>50V *	●	2P+⊕	12	<b>721222</b>	5
	50-60Hz	>50V *	●	3P+⊕	12	<b>721232</b>	5
	100-300Hz	>50V	●	2P+⊕	10	<b>720220</b>	5
	100-300Hz	>50V	●	3P+⊕	10	<b>720230</b>	5
	100-300Hz	>50V	●	3P+N+⊕	10	<b>720240</b>	5
	>300-500Hz	>50V	●	2P+⊕	2	<b>720222</b>	5
	>300-500Hz	>50V	●	3P+⊕	2	<b>720232</b>	5
	>300-500Hz	>50V	●	3P+N+⊕	2	<b>720242</b>	5
32	60Hz	440-460V	●	3P+⊕	11	<b>720231</b>	5
	60Hz	440-460V	●	3P+N+⊕	11	<b>720241</b>	5
	DC	>50-250V	●	2P+⊕	3	<b>720223</b>	5
	50/60Hz	380/440V	●	3P+⊕	3	<b>720233</b>	5
	50/60Hz	380/440V	●	3P+N+⊕	3	<b>720243</b>	5
	DC	>250V	●	2P+⊕	8	<b>720228</b>	5

\* For isolation transformer.

Features: all products are packed separately.



**Straight mobile socket-outlets**  
quick-mounting  
50-60Hz **IP67**

Rated current (A)	Rated voltage	Voltage colour	Poles	h ref.	Palazzoli code	Pack Qty
16	110V	Yellow	2P+⊕	4	<b>730124</b>	10
	230V	Blue	2P+⊕	6	<b>730126</b>	20
	400V	Red	3P+⊕	6	<b>730136</b>	15
	400V	Red	3P+N+⊕	6	<b>730146</b>	15
32	110V	Yellow	2P+⊕	4	<b>730224</b>	6
	230V	Blue	2P+⊕	6	<b>730226</b>	6
	400V	Red	3P+⊕	6	<b>730236</b>	10
	400V	Red	3P+N+⊕	6	<b>730246</b>	10

**Features:** all products are packed separately.



**Straight mobile socket-outlets**  
quick-mounting  
50-60Hz **IP67**

Rated current (A)	Rated voltage	Voltage colour	Poles	h ref.	Palazzoli code	Pack Qty
63	230V	Blue	2P+⊕	6	<b>730326</b>	2
	400V	Red	3P+⊕	6	<b>730336</b>	5
	400V	Red	3P+N+⊕	6	<b>730346</b>	5

**Features:** all products are packed separately.



**Straight mobile plugs**  
quick-mounting  
**black colour**  
50-60Hz **IP44**

Rated current (A)	Rated voltage	Voltage colour	Poles	h r ef.	Palazzoli code	Pack Qty
16	110V	Yellow	2P+⊕	4	<b>705124</b>	10
	230V	Blue	2P+⊕	6	<b>705126</b>	10
	400V	Red	3P+⊕	6	<b>705136</b>	10
	400V	Red	3P+N+⊕	6	<b>705146</b>	10
32	230V	Blue	2P+⊕	6	<b>705226</b>	5
	400V	Red	3P+⊕	6	<b>705236</b>	5
	400V	Red	3P+N+⊕	6	<b>705246</b>	5

**Features:** all products are packed separately.



**Straight mobile socket-outlets**  
quick-mounting  
**black colour**  
50-60Hz **IP44**

Rated current (A)	Rated voltage	Voltage colour	Poles	h ref.	Palazzoli code	Pack Qty
16	110V	Yellow	2P+⊕	4	<b>725124</b>	10
	230V	Blue	2P+⊕	6	<b>725126</b>	10
	400V	Red	3P+⊕	6	<b>725136</b>	10
	400V	Red	3P+N+⊕	6	<b>725146</b>	10
32	230V	Blue	2P+⊕	6	<b>725226</b>	5
	400V	Red	3P+⊕	6	<b>725236</b>	5
	400V	Red	3P+N+⊕	6	<b>725246</b>	5

**Features:** all products are packed separately.



# MULTIPLAY series

Multipliers and adaptors for temporary installations

Thermoplastic  
standard applications

Compliance with standards	<b>IEC/EN 60309-1 IEC/EN 60309-2</b>
Grip material	<b>Thermoplastic</b>
Protection rating (IP according to IEC/EN 60529)	<b>IP67 (multipliers) IP20 (adaptors)</b>
Grip colour	<b>RAL7042</b>
Contacts material	<b>Nickel-plated brass</b>
Resistance to abnormal heat and fire ("Glow wire" according to IEC/EN 60695-2-10)	<b>850°C</b>
Flammability rating (according to UL94)	<b>V2</b>
Impact resistance (IK rating according to IEC/EN 62262)	<b>IK08</b>
Rated current	<b>16A - 32A</b>
Operating voltage	<b>230V-400V</b>
Operating frequency	<b>50-60Hz</b>
Insulation voltage	<b>690V</b>
Storage temperature	<b>-30°C - +70°C</b>
Operating temperature	<b>-25°C - +50°C</b>



**2-outlet mobile multipliers**  
with 16A industrial plug  
50-60Hz **IP67**

Rated current (A)	Rated voltage	Voltage colour	Poles	h ref.	Palazzoli code	Pack Qty
16	230V	■	2P+⊕	6	<b>752126</b>	1
	400V	■	3P+⊕	6	<b>752136</b>	1
	400V	■	3P+N+⊕	6	<b>752146</b>	1



**3-outlet mobile multipliers**  
with 16A/32A industrial plug  
50-60Hz **IP67**

Rated current (A)	Rated voltage	Voltage colour	Poles	h ref.	Palazzoli code	Pack Qty
16	230V	■	2P+⊕	6	<b>753126</b>	1
	400V	■	3P+⊕	6	<b>753136</b>	1
	400V	■	3P+N+⊕	6	<b>753146</b>	1
32	400V	■	3P+⊕	6	<b>753236</b>	1



**System adaptors**  
with 16A industrial plug  
and domestic sockets  
50-60Hz **IP20**

Rated current (A)	Rated voltage	Poles	h ref.	Domestic socket side	Palazzoli code	Pack Qty
16	230V	2P+⊕	6	2 sockets 2P+⊕ 10/16A bivalent P17/11	<b>740002</b>	10
16	230V	2P+⊕	6	1 socket 2P+⊕ 10/16A bivalent P17/11 + Schuko P30	<b>740001</b>	10
13	250V	2P+⊕	6	standard BS1363-1995	<b>740003</b>	10



**System adaptors**  
with S17 domestic plug  
and 16A industrial socket-outlet  
50-60Hz **IP20**

Rated current (A)	Rated voltage	Poles	h ref.	Domestic plug side	Palazzoli code	Pack Qty
16	230V	2P+⊕	6	2P+⊕ 16A S17	<b>740101</b>	10





Compliance with standards	<b>IEC 23-50</b>
Material	<b>Shockproof rubber Technopolymer</b>
Protection rating (IP according to IEC/EN 60529)	<b>IP20 - IP44</b>
Colour	<b>RAL5015</b>
Resistance to abnormal heat and fire ("Glow Wire" according to IEC/EN 60695-2-10)	<b>850°C (insert)</b>
Flammability rating (according to UL94)	<b>V2</b>
Impact resistance (IK rating according to IEC/EN 62262)	<b>IK10 (Rubber) IK08 (Technopolymer)</b>
Rated current	<b>16A</b>
Operating voltage	<b>250V</b>
Operating frequency	<b>50-60Hz</b>
Insulation voltage	<b>500V</b>
Storage temperature	<b>-30°C - +70°C</b>
Operating temperature	<b>-25°C - +50°C</b>



Straight mobile domestic plug in shockproof rubber IP44

Rated current (A)	Rated voltage	Poles	Type	Palazzoli code	Pack Qty
16	250V	2P+≐	S30	<b>437012</b>	10

Features: cable entry hole Ø 11.5 mm. IP44 with plug inserted.



90° angled mobile domestic plug in shockproof rubber IP44

Rated current (A)	Rated voltage	Poles	Type	Palazzoli code	Pack Qty
16	250V	2P+≐	S30	<b>437022</b>	10

Features: cable entry hole Ø 11.5 mm. IP44 with plug inserted.



Straight mobile domestic socket in shockproof rubber for the German market IP44

Rated current (A)	Rated voltage	Poles	Type	Palazzoli code	Pack Qty
16	250V	2P+≐	S30	<b>433052</b>	10

Features: cable entry hole Ø 11.5 mm. IP44 with plug inserted. Only suitable for markets with German standard.



Straight mobile domestic plug in thermoplastic material IP20

Rated current (A)	Rated voltage	Poles	Type	Palazzoli code	Pack Qty
16	250V	2P+≐	S30	<b>437152</b>	10

Features: cable entry hole Ø 11.5 mm. IP44 with sleeve code 590021.

Technical accessories:



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# topTER





## topTER

Simple to select and easy to install



The flange is reinforced with ribs on the back. This enables the product to be more resistant to mechanical stress and allows for increased gasket adherence. The IP rating is guaranteed over time.

For industrial automation applications, or in any situation where additional electrical protection is required, the sockets can be equipped with an auxiliary signalling contact, activated by plug insertion and removal.

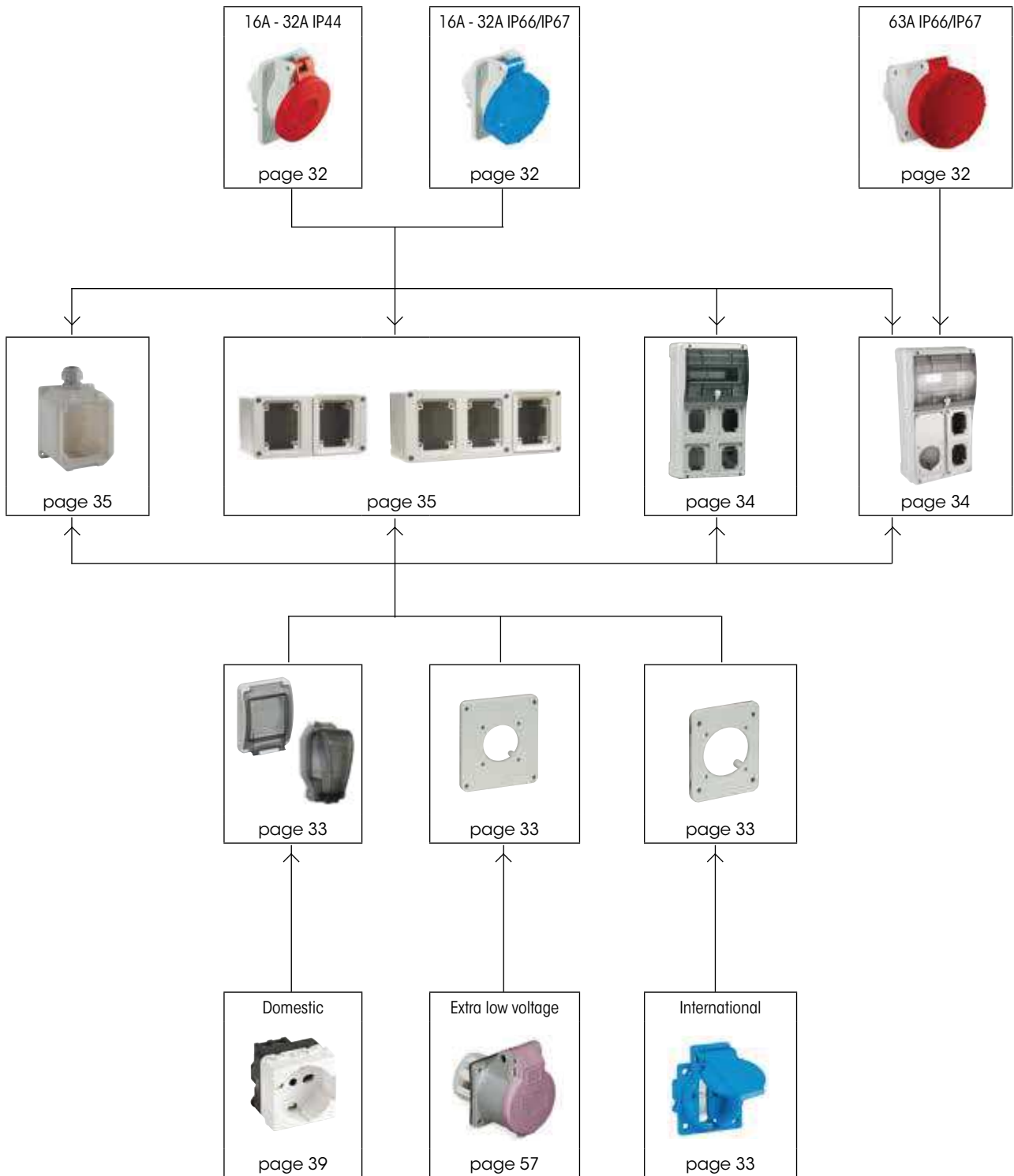


The topTER system offers the possibility to complete the system with a series of domoTER domestic sockets that can be installed with watertight covers, even when the plug is connected.

The broad range of boxes and boards available provides the ideal solution for any requirement.

Suitable for use in gyms, hypermarkets, hotels, schools, offices, hospitals, kitchens, trade fairs, motorway restaurants, production departments.





The Easy Composer software which enables to easily create customised distribution boards is available on the [www.palazzoli.com](http://www.palazzoli.com) website.



The low voltage industrial socket-outlets of the topTER series are a range of technopolymer wall or flush-mounted products for standard applications, from 16A to 63A, conforming to IEC/EN 60309-1 and IEC/EN 60309-2 standards, available in the IP44 and IP66/IP67 versions.

The flange is provided with reinforcing ribs and in the IP66/IP67 version the gasket is made up of non-ageing elastomer with a restraint system.

The plug inserted signal auxiliary contact makes it ideal for use in industrial automation applications with auxiliary control circuits.

The range is completed by wall-mounting applications in boxes of up to 3 sockets, modular distribution boards of up to 4 sockets and a series of 15° and 90° angled sockets that can be wall-mounted.

**Cable features:**

Rated current (A)	Poles	Wall-mounted socket entry thread	Wall-mounted socket entry cable diameter (mm)	Entry cable sections (mm <sup>2</sup> )
16	2P+⊕	M25	14-18	1 - 2.5
	3P+⊕			
	3P+N+⊕			
32	2P+⊕	M25	14-18	2.5 - 6
	3P+⊕			
	3P+N+⊕			
63	2P+⊕	M40	24-28	4 - 25
	3P+⊕			
	3P+N+⊕			

Compliance with standards	<b>IEC/EN 60309-1 IEC/EN 60309-2</b>
Material	<b>Thermoplastic</b>
Protection rating (IP according to IEC/EN 60529)	<b>IP44 - IP66/IP67</b>
Colour	<b>RAL7035</b>
Contacts material	<b>Nickel-plated brass</b>
Resistance to abnormal heat and fire ("Glow Wire" according to IEC/EN 60695-2-10)	<b>850°C (sockets) 650°C (boxes and boards)</b>
Flammability rating (according to UL94)	<b>V2 (sockets) HB (boxes and boards)</b>
Impact resistance (IK grade according to IEC/EN 62262)	<b>IK08</b>
Rated current	<b>16A - 32A - 63A</b>
Operating Voltage	<b>110V-440V</b>
Operating frequency	<b>50-60Hz</b>
Insulation voltage	<b>690V</b>
Pilot Contact	<b>63A socket-outlets</b>
Storage temperature	<b>-30°C - +70°C</b>
Operating temperature	<b>-25°C - +50°C</b>



**Resistance to chemical agents**

WATER	SALINE SOLUTION	ACIDS		BASES		SOLVENTS			
		CONCENTRATED	DILUTED	CONCENTRATED	DILUTED	ALCOHOL	ACETONE	PERCHLORO-ETHYLENE	BENZENE
↑	→	↓	→	↑	↑	→	↑	↑	↑
OILS		FATS		AMMONIA	OXIDISERS	INORGANIC SALTS	GASOLINE	DETERGENTS	U.V. RAYS
MINERAL	VEGETABLE	ANIMAL	SYNTHETIC						
↑	↑	↑	↑	↑	↓	↑	↑	↑	↑

**Legend:** ↑ high resistance    → partial resistance    ↓ low resistance

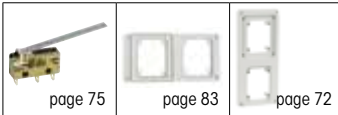


**15° angled  
flush-mounted** socket-outlets  
50-60Hz IP44

Rated current (A)	Rated voltage	Flange dimensions (mm)	Voltage colour	Poles	h ref.	Palazzoli code	Pack Qty	
16	110V	65 x 83	Yellow	2P+⊕	4	<b>488124</b>	1	
	110V	65 x 83	Yellow	3P+⊕	4	<b>488134</b>	1	
	110V	88 x 100	Yellow	3P+N+⊕	4	<b>488144</b>	1	
	230V	65 x 83	Blue	2P+⊕	6	<b>488126</b>	10	
	230V	65 x 83	Blue	3P+⊕	9	<b>488139</b>	1	
	230V	88 x 100	Blue	3P+N+⊕	9	<b>488149</b>	1	
	400V	65 x 83	Red	2P+⊕	9	<b>488129</b>	1	
	400V	65 x 83	Red	3P+⊕	6	<b>488136</b>	10	
	400V	88 x 100	Red	3P+N+⊕	6	<b>488146</b>	10	
	32	110V	88 x 100	Yellow	2P+⊕	4	<b>488224</b>	1
		110V	88 x 100	Yellow	3P+⊕	4	<b>488234</b>	1
		110V	88 x 100	Yellow	3P+N+⊕	4	<b>488244</b>	1
230V		88 x 100	Blue	2P+⊕	6	<b>488226</b>	5	
230V		88 x 100	Blue	3P+⊕	9	<b>488239</b>	1	
230V		88 x 100	Blue	3P+N+⊕	9	<b>488249</b>	1	
400V		88 x 100	Red	2P+⊕	9	<b>488229</b>	1	
400V		88 x 100	Red	3P+⊕	6	<b>488236</b>	5	
400V		88 x 100	Red	3P+N+⊕	6	<b>488246</b>	5	

**Features:** 1 auxiliary contact for plug inserted signal can be fitted; flanges reinforced with ribs.

**Technical accessories:**

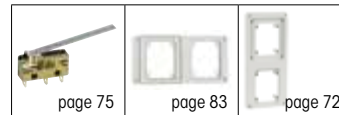


**15° angled  
flush-mounted** socket-outlets  
50-60Hz IP66/IP67

Rated current (A)	Rated voltage	Flange dimensions (mm)	Voltage colour	Poles	h ref.	Palazzoli code	Pack Qty	
16	110V	65 x 83	Yellow	2P+⊕	4	<b>489124</b>	1	
	110V	65 x 83	Yellow	3P+⊕	4	<b>489134</b>	1	
	110V	88 x 100	Yellow	3P+N+⊕	4	<b>489144</b>	1	
	230V	65 x 83	Blue	2P+⊕	6	<b>489126</b>	10	
	230V	65 x 83	Blue	3P+⊕	9	<b>489139</b>	1	
	230V	88 x 100	Blue	3P+N+⊕	9	<b>489149</b>	1	
	400V	65 x 83	Red	2P+⊕	9	<b>489129</b>	1	
	400V	65 x 83	Red	3P+⊕	6	<b>489136</b>	10	
	400V	88 x 100	Red	3P+N+⊕	6	<b>489146</b>	10	
	32	110V	88 x 100	Yellow	2P+⊕	4	<b>489224</b>	1
		110V	88 x 100	Yellow	3P+⊕	4	<b>489234</b>	1
		110V	88 x 100	Yellow	3P+N+⊕	4	<b>489244</b>	1
230V		88 x 100	Blue	2P+⊕	6	<b>489226</b>	5	
230V		88 x 100	Blue	3P+⊕	9	<b>489239</b>	1	
230V		88 x 100	Blue	3P+N+⊕	9	<b>489249</b>	1	
400V		88 x 100	Red	2P+⊕	9	<b>489229</b>	1	
400V		88 x 100	Red	3P+⊕	6	<b>489236</b>	5	
400V		88 x 100	Red	3P+N+⊕	6	<b>489246</b>	5	
380/440V		88 x 100	Red	3P+⊕	3	<b>489233</b>	1	

**Features:** 1 auxiliary contact for plug inserted signal can be fitted; flanges reinforced with ribs.

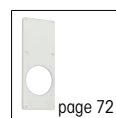
**Technical accessories:**



**15° angled  
flush-mounted** socket-outlets  
50-60Hz IP66/IP67

Rated current (A)	Rated voltage	Flange dimensions (mm)	Voltage colour	Poles	h ref.	Palazzoli code	Pack Qty
63	230V	100x100	Blue	2P+⊕	6	<b>489326</b>	2
	400V	100x100	Red	3P+⊕	6	<b>489336</b>	2
	400V	100x100	Red	3P+N+⊕	6	<b>489346</b>	2

**Technical accessories:**







**Flange** for mounting a **fixed flush-mounted socket** on a distribution board **extra low voltage IP66/IP67**

Flange dimensions (mm)	Mountable sockets	Fixing holes spacing (mm)	Palazzoli code	Pack Qty
88x100	extra low voltage CEE	41x41	<b>579849</b>	1

**Equipment included:** bag with 4 stainless steel screws for fixing the socket.

**Technical accessories:**



**Flange** for mounting one **50x50 international domestic socket** in a distribution board **IP54**

Flange dimensions (mm)	Mountable sockets	Fixing holes spacing (mm)	Palazzoli code	Pack Qty
65x83	panel-mounted with flange 50x50	38x38	<b>579848</b>	1

**Equipment included:** bag with 4 stainless steel screws for fixing the socket.



Flush-mounted **international domestic sockets** dimensions 50x50 **IP54**

Rated current (A)	Rated voltage (V)	Standard	Flange dimensions (mm)	Nation	Palazzoli code	Pack Qty
16	250	DIN49440	50x50	Germany	<b>579845</b>	10
16	250	DIN49440	50x50	Ita/Pol/Hun	<b>579830</b>	10
13	250	BS1363	50x50	United Kingdom	<b>579831</b>	10
16	250	CEE 7/V	50x50	Bel/Fra/Czech Rep.	<b>579832</b>	10

**Features:** code 579830 with protected receptacles.

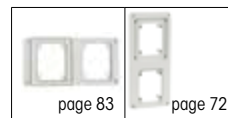


**Schuko bivalent domestic socket P17/P30** with cap for mounting on a distribution board **IP66**

Description	Flange dimensions (mm)	Pitch	Type	Palazzoli code	Pack Qty
flange with domestic socket 2P+⊕ 10/16A 230V	65 x 83	19	P17/P30	<b>579840</b>	5

**Notes:** code 579840 is obtained from code 579847 + code 630052.

**Technical accessories:**



**Universal cap** for mounting **domoTER** domestic sockets in a distribution board **IP66**

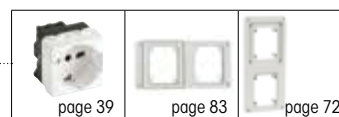
Flange dimensions (mm)	No. of installable modules	Palazzoli code	Pack Qty
65 x 83	2	<b>579847</b>	10



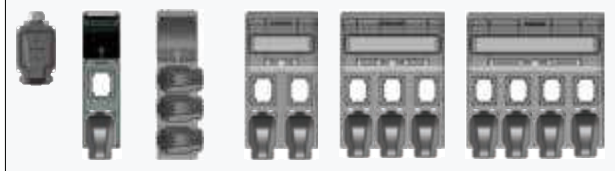
**Watertight cap** for **plugged-in plug** for mounting **domoTER** sockets in a distribution board **IP66**

Flange dimensions (mm)	No. of installable modules	Palazzoli code	Pack Qty
65 x 83	2	<b>579860</b>	1

**Technical accessories:**



Recommended use of cap 579860 with topTER distribution boards





**Distribution boards with transparent window for the installation of topTER devices IP66**

	Shape	Installable sockets	Max no. with flange 65x83	Max no. with flange 88x100	Power dissipation (W)	Palazzoli code	Pack Qty
5 modules		2	2	2	22	<b>579822</b>	1
5 modules		3	3	1	22	<b>579823</b>	1
10 modules		4	4	4	40	<b>579824</b>	1
16 modules		6	6	6	56	<b>579826</b>	1
22 modules		8	8	8	70	<b>579828</b>	1

**Equipment included:** DIN rail kit with adjustable supports. Cable clips. Screw cover caps for double insulation. Module cover layouts. Stainless steel screws for mounting the sockets. Finishing frames for compact sockets. Hinge kit for door opening.  
No. 1 closing flange, code 579824  
No. 2 closing flanges, code 579826  
No. 2 closing flanges, code 579828  
**Features:** padlockable modular door. Suitable for horizontal and vertical assembly. Suitable for temporary mounting.  
**Notes:** 16A 3P+N+PE to 32A 3P+N+PE sockets can be mounted only in the lower compartment of the distribution board.

**Technical accessories:**



**Distribution boards with transparent window for the installation of topTER devices and one 63A socket IP66**

	Shape	Installable sockets	Max no. with flange 65x83	Max no. with flange 88x100	Max no. with flange 100x100	Power dissipation (W)	Palazzoli code	Pack Qty
10 modules		3	2	1	1	40	<b>579863</b>	1
16 modules		5	4	2	1	56	<b>579865</b>	1

**Equipment included:** DIN rail kit with adjustable supports, cable holders, screw cover caps for double insulation, module covers, hinge kit for door opening. Stainless steel screws for mounting the sockets. Finishing frames for compact sockets. No. 1 closing flange, code 579865  
**Features:** padlockable modular door. Suitable for horizontal and vertical assembly. Suitable to temporary mounting.  
**Notes:** 16A 3P+N+PE to 32A 3P+N+PE sockets can be mounted only in the lower compartment of the distribution board. Other combinations on page 142.

**Technical accessories:**



**DIN rail kit for topTER distribution boards**

No. of DIN modules	For distribution boards, code	Palazzoli code	Pack Qty
10	579742 - 579824	<b>579852</b>	1
16	579743 - 579826	<b>579853</b>	1
22	579744 - 579828	<b>579854</b>	1

**Equipment included:** adjustable supports, 2 cable holders and fixing screws.  
**Features:** allows DIN modules to be mounted behind the socket holding compartments.



**Back boxes**  
for wall-mounting  
of topTER devices  
**IP66/IP67**

Entry type	Dimensions (mm)	For flange with dimensions	Palazzoli code	Pack Qty
M25	84 x 100	65 x 83	<b>579750</b>	1
M25	106 x 128	88 x 100	<b>579751</b>	1

**Equipment included:** cable gland. Stainless steel screws for mounting the sockets. Finishing frames for compact sockets.



**Back boxes**  
for wall-mounting  
of 2 topTER devices  
**IP55**

Dimensions (mm)	Total installable devices	Max no. with flange 65x83	Max no. with flange 88x100	Palazzoli code	Pack Qty
103x206	2	2	1	<b>579702</b>	1

**Equipment included:** stainless steel screws for mounting the sockets. Finishing frames for compact sockets.



**Back boxes**  
for wall-mounting  
of 3 topTER devices  
**IP55**

Dimensions (mm)	Total installable devices	Max no. with flange 65x83	Max no. with flange 88x100	Palazzoli code	Pack Qty
116x291	3	3	1	<b>579703</b>	1

**Equipment included:** stainless steel screws for mounting the sockets. Finishing frames for compact sockets.

**Technical accessories:**



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**Closing flange**  
for topTER distribution boards  
**IP66/IP67**

Flange dimensions (mm)	Palazzoli code	Pack Qty
65x83	<b>579843</b>	1
88x100	<b>579842</b>	1

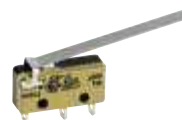
**Uses:** allows closing off the seats of unused sockets.



**Equipotential bars**  
for earth connection

No. of holes	Connection Type	Palazzoli code	Pack Qty
4	M5 screws for wire ends up to 25mm <sup>2</sup>	<b>579013</b>	1
10		<b>579014</b>	1

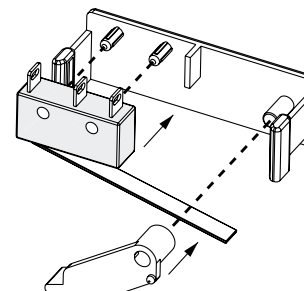
**Equipment included:** connection screws and fixing brackets.



**Auxiliary contact NO+NC**  
for plug inserted signal

For sockets	Palazzoli code	Pack Qty
topTER fixed and interlocked socket-outlets	<b>579850</b>	1

**Equipment included:** adaptor for mounting on fixed sockets.







**Module covers**

No. of DIN modules	For distribution boards	Palazzoli code	Pack Qty
2	topTER, PRIMA, ULYSSE, TAIS and TAIS CUBE	<b>579904</b>	20

**Uses:** allows unused modules, to be covered to achieve the IP40 protection rating.



**Coupling fitting**  
with Pg threading  
for topTER distribution boards  
**IP66**

Pg	Mounting hole (mm)	For cable Ø (mm)	Palazzoli code	Pack Qty
21	29	21	<b>580250</b>	1



**Transportation handles**

For distribution boards	Palazzoli code	Pack Qty
all distribution boards	<b>579011</b>	1



**Pair of stainless steel plates**  
for wall-mounting of topTER  
and PRIMA distribution boards

For distribution boards	Palazzoli code	Pack Qty
topTER and PRIMA	<b>579012</b>	10



**Universal support**  
for topTER, PRIMA  
and Energy Go  
distribution boards

For distribution boards	Palazzoli code	Pack Qty
width 239 mm and above	<b>570010</b>	1

**COMPACT PANEL-MOUNTED SOCKETS**



**15° angled fixed socket-outlets**  
for flush-mounting  
with mini-flange  
50-60Hz **IP44**

Rated current (A)	Rated voltage	Flange dimensions (mm)	Voltage colour	Poles	h ref.	Palazzoli code	Pack Qty
16	110V	60 x 60	Yellow	2P+⊕	4	<b>488114</b>	10
	230V	60 x 60	Blue	2P+⊕	6	<b>488116</b>	10



**15° angled**  
wall-mounted **socket-outlets**  
50-60Hz **IP44**

Rated current (A)	Rated voltage	Voltage colour	Poles	h ref.	Palazzoli code	Pack Qty
16 M25 entry	110V	Yellow	2P+⊕	4	<b>438124</b>	1
	230V	Blue	2P+⊕	6	<b>438126</b>	1
	400V	Red	3P+⊕	6	<b>438136</b>	1
	400V	Red	3P+N+⊕	6	<b>438146</b>	1
32 M25 entry	110V	Yellow	2P+⊕	4	<b>438224</b>	1
	230V	Blue	2P+⊕	6	<b>438226</b>	1
	400V	Red	3P+⊕	6	<b>438236</b>	1
	400V	Red	3P+N+⊕	6	<b>438246</b>	1

**Equipment included:** stepped gland.



**90° angled**  
wall-mounted  
**fixed socket-outlets**  
50-60Hz **IP44**

Rated current (A)	Rated voltage	Voltage colour	Poles	h ref.	Palazzoli code	Pack Qty
16 M25 entry	110V	Yellow	2P+⊕	4	<b>508124</b>	1
	230V	Blue	2P+⊕	6	<b>508126</b>	1
	400V	Red	3P+⊕	6	<b>508136</b>	1
	400V	Red	3P+N+⊕	6	<b>508146</b>	1
32 M25 entry	110V	Yellow	2P+⊕	4	<b>508224</b>	1
	230V	Blue	2P+⊕	6	<b>508226</b>	1
	400V	Red	3P+⊕	6	<b>508236</b>	1
	400V	Red	3P+N+⊕	6	<b>508246</b>	1

**Equipment included:** stepped gland.

**Features:** codes 508124 and 508126 with M20 entry.

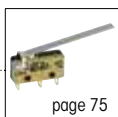


**15° angled**  
wall-mounted **socket-outlets**  
50-60Hz **IP66/IP67**

Rated current (A)	Rated voltage	Voltage colour	Poles	h ref.	Palazzoli code	Pack Qty
16 M25 entry	110V	Yellow	2P+⊕	4	<b>439124</b>	1
	230V	Blue	2P+⊕	6	<b>439126</b>	1
	400V	Red	3P+⊕	6	<b>439136</b>	1
	400V	Red	3P+N+⊕	6	<b>439146</b>	1
32 M25 entry	110V	Yellow	2P+⊕	4	<b>439224</b>	1
	230V	Blue	2P+⊕	6	<b>439226</b>	1
	400V	Red	3P+⊕	6	<b>439236</b>	1
	400V	Red	3P+N+⊕	6	<b>439246</b>	1
	380/440V	Red	3P+⊕	3	<b>439233</b>	1

**Equipment included:** cable gland.

**Technical accessories:**



**90° angled**  
wall-mounted  
**fixed socket-outlets**  
50-60Hz **IP67**

Rated current (A)	Rated voltage	Voltage colour	Poles	h ref.	Palazzoli code	Pack Qty
16 M25 entry	110V	Yellow	2P+⊕	4	<b>509124</b>	1
	230V	Blue	2P+⊕	6	<b>509126</b>	1
	400V	Red	3P+⊕	6	<b>509136</b>	1
	400V	Red	3P+N+⊕	6	<b>509146</b>	1
32 M25 entry	110V	Yellow	2P+⊕	4	<b>509224</b>	1
	230V	Blue	2P+⊕	6	<b>509226</b>	1
	400V	Red	3P+⊕	6	<b>509236</b>	1
	400V	Red	3P+N+⊕	6	<b>509246</b>	1
	380/440V	Red	3P+⊕	3	<b>509233</b>	1
63 M40 entry	230V	Blue	2P+⊕	6	<b>509326</b>	1
	400V	Red	3P+⊕	6	<b>509336</b>	1
	400V	Red	3P+N+⊕	6	<b>509346</b>	1

**Equipment included:** cable gland.

**Features:** 63A socket-outlets are equipped with a double additional entry from the bottom, type M32.

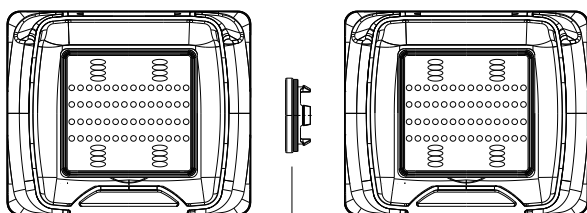


The small domoTER units are a complete range of control devices, sockets and signalling devices. The range consists of devices designed for insertion in protected and watertight boxes with one to three seats. Using suitable technical accessories, domoTER can be mounted on DIN rails and in distribution boards of the topTER series.

Compliance with standards	<b>IEC EN 60669-1</b> <b>IEC 23-50</b>
Material	<b>Thermoplastic</b>
Protection rating (IP according to IEC/EN 60529)	<b>IP40 - IP55 (boxes)</b> <b>IP66 plugged-in (caps)</b>
Colour	<b>RAL7035</b>
Resistance to abnormal heat and fire ("Glow wire" according to IEC/EN 60695-2-10)	<b>850°C (insert)</b> <b>650°C (enclosure)</b>
Flammability rating (according to UL94)	<b>V2 (insert)</b> <b>HB (enclosure)</b>
Impact resistance (IK rating according to IEC/EN 62262)	<b>IK08</b>
Insulation class	<b>II □</b>
Storage temperature	<b>-30°C - +70°C</b>
Operating temperature	<b>-15°C - +50°C</b>



**USE OF ACCESSORIES**



Quick coupling  
code 658529



**Wall-mounted boxes**  
for domoTER devices  
**IP40**

Dimensions (mm)	No. of installable modules	Palazzoli code	Pack Qty
76x82x58	1	<b>630001</b>	36
98x82x58	2	<b>630002</b>	36
120x82x58	3	<b>630003</b>	24



**Wall-mounted boxes**  
for domoTER devices  
**IP55**

Dimensions (mm)	No. of installable modules	Palazzoli code	Pack Qty
76x82x58	1	<b>630011</b>	30
98x82x58	2	<b>630012</b>	30
120x82x58	3	<b>630013</b>	24

**Technical accessories:**



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**Universal cap**  
for mounting **domoTER**  
domestic sockets  
**IP66**

Flange dimensions (mm)	No. of installable modules	Palazzoli code	Pack Qty
65 x 83	2	<b>579847</b>	10



**Watertight cap**  
for **plugged-in**  
use of mounting  
domoTER sockets  
**IP66**

Flange dimensions (mm)	No. of installable modules	Palazzoli code	Pack Qty
65 x 83	2	<b>579860</b>	1

**Technical accessories:**



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**Support**  
for installing domoTER devices  
on DIN rail

Width (mm)	No. of installable modules	Colour	Palazzoli code	Pack Qty
27 (1.5 DIN modules)	1	Grey RAL 7035	<b>630021</b>	20
52 (3 DIN modules)	2		<b>630022</b>	8



**Domestic socket**  
Italian standard  
bivalent P11/P17

Rated current (A)	Rated voltage	No. of poles	Type	No. of modules	Palazzoli code	Pack Qty
10/16	250V	2P+⊕	P11/P17	1	<b>630050</b>	20

**Features:** shuttered receptacles.



**Domestic socket**  
British standard

Rated current (A)	Rated voltage	No. of poles	No. of modules	Palazzoli code	Pack Qty
13	250V	2P+⊕	2	<b>630056</b>	8



**Schuko domestic socket**  
Italian/German standard  
bivalent P17/P30

Rated current (A)	Rated voltage	No. of poles	Type	No. of modules	Palazzoli code	Pack Qty
10/16	250V	2P+⊕	P17/P30	2	<b>630052</b>	8

**Features:** shuttered receptacles.



**Domestic socket**  
French standard

Rated current (A)	Rated voltage	No. of poles	No. of modules	Palazzoli code	Pack Qty
16	250V	2P+⊕	2	<b>630055</b>	8



**Schuko domestic socket**  
Italian/German standard  
P30

Rated current (A)	Rated voltage	No. of poles	Type	No. of modules	Palazzoli code	Pack Qty
16	250V	2P+⊕	P30	2	<b>630051</b>	8

**Features:** shuttered receptacles.



**Red Schuko domestic socket**  
Italian/German standard  
**P30**

Rated current (A)	Rated voltage	No. of poles	Type	No. of modules	Palazzoli code	Pack Qty
16	250V	2P+⊕	P30	2	<b>630053</b>	8

**Features:** shuttered receptacles.



**Red Schuko domestic socket**  
Italian/German standard bivalent  
**P17/P30**

Rated current (A)	Rated voltage	No. of poles	Type	No. of modules	Palazzoli code	Pack Qty
10/16	250V	2P+⊕	P17/P30	2	<b>630054</b>	8

**Features:** shuttered receptacles.



**Multifunction device**  
1P or 2P switch  
1P two-way switch  
NO/NC button  
16A 250V

Function (mm)	No. of modules	Palazzoli code	Pack Qty
1P or 2P switch, NO 1P button or 1P two-way switch, 1P NC button	1	<b>630030</b>	20

**Complementary products:** warning lamp code 630091.

**Features:** the code 630030 is realised in the "NO button" configuration.

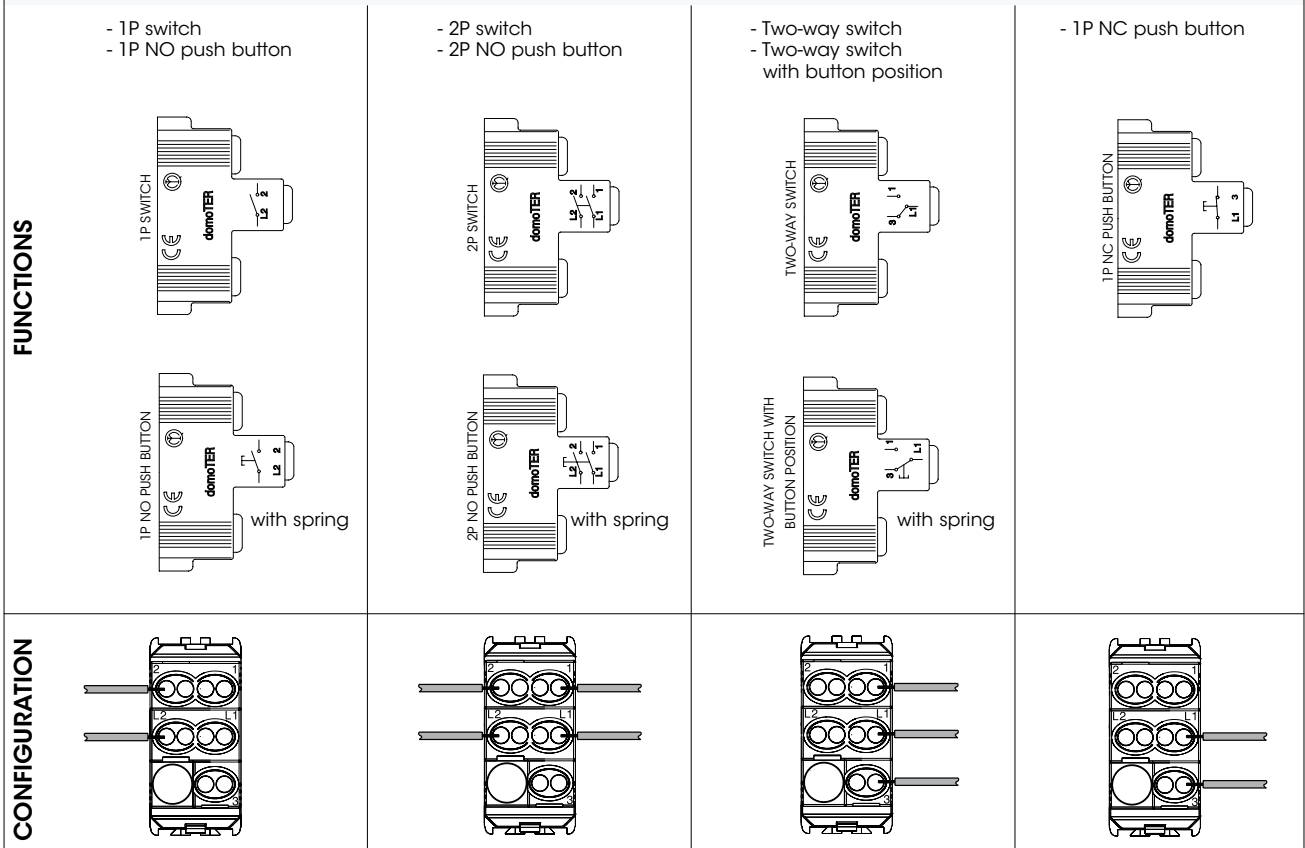
To obtain the switch and two-way switch schemes, remove the spring located underneath the key with a screwdriver and perform the wiring according to the schemes here below.



**Intermediate switch**  
16A 250V

No. of poles	No. of modules	Palazzoli code	Pack Qty
1	1	<b>630031</b>	20

**DIAGRAM FOR MULTIFUNCTION DEVICE USE**





### TV sockets

Standard	No. of modules	Palazzoli code	Pack Qty
TV 9.5 mm final	1	<b>630070</b>	20
TV 9.5 mm through/final	1	<b>630071</b>	20



### Rj data sockets

Description	No. of modules	Palazzoli code	Pack Qty
RJ12 6/6 contacts	1	<b>630080</b>	20
RJ45 category 5E	1	<b>630081</b>	20
RJ45 category 6	1	<b>630082</b>	20



### USB socket

Description	No. of modules	Palazzoli code	Pack Qty
USB 5V 1A power supply	1	<b>630085</b>	4



### Fuse holder 5x20 mm 10A max

Fuse type	No. of modules	Rated current max (A)	Palazzoli code	Pack Qty
5x20mm	1	10A	<b>630035</b>	20



### MCB 1P+N C16A Pdl 3kA

Rated current (A)	No. of modules	Palazzoli code	Pack Qty
16	1	<b>630036</b>	20



### Signalling lamps 230V - 50/60Hz

Diffuser colour	No. of modules	Palazzoli code	Pack Qty
white	1	<b>630040</b>	20
red	1	<b>630041</b>	20
green	1	<b>630042</b>	20



### Closing cap

Description	No. of modules	Palazzoli code	Pack Qty
closing cap	1	<b>630090</b>	100



### 230V warning lamp with 100mm cable

No. of modules	Palazzoli code	Pack Qty
1	<b>630091</b>	200

**Features:** it can be inserted in the multifunction device code 630030 and can be used as a spare part in the domoTER signalling lamps.



### Quick coupling for domoTER boxes

Inner diameter (mm)	Fixing	Palazzoli code	Pack Qty
20	snap	<b>658529</b>	1

**Equipment included:** with gasket.

**Uses:** allows to realise multiple box compositions.



# X-CEE





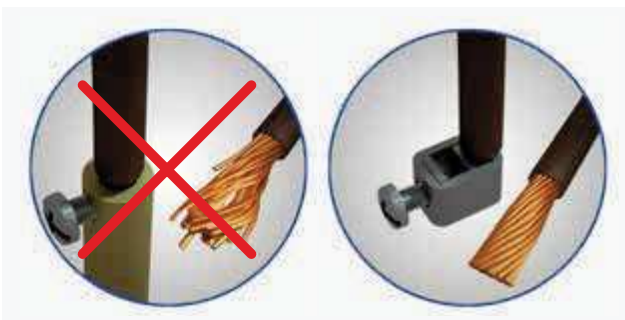
## X-CEE

The high thickness of the enclosure and the quality of the technopolymer guarantee safe use in the harshest environments



Simplicity is found in the smart cable gland that makes the X-CEE suitable for all types of cables, with a versatility that is unique on the market. It is easily clampable, thanks to the ability to tighten the cable with a screwdriver. The slot of the cable gland can also be used as a hook for suspension.

The comfort grip provides a comfortable and secure grip even with gloves. An anti-slip coating on the safety ring facilitates the operation of the switch even in the presence of oil. The smooth shape of the handle prevents liquids from stagnating.



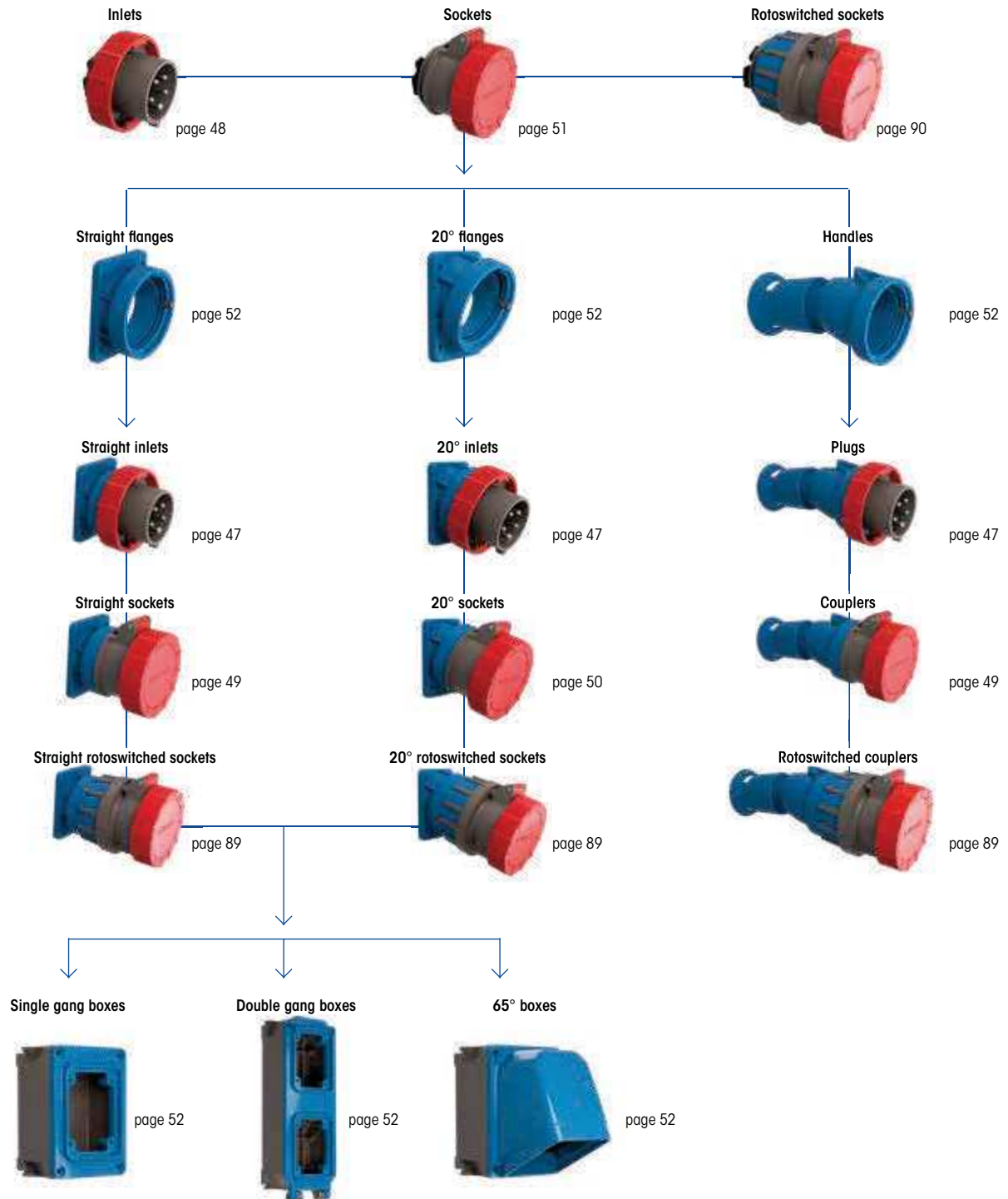
Indirect clamping HD terminals are standard throughout the range. They guarantee the integrity of the cables for an even passage of current and prevent overheating and cable breakage.

The X-CEE series is perfectly compatible with the TAIS series. This feature significantly facilitates the integration of Palazzoli's installations with convenience.

Suitable for field plants, building sites, major events, markets, amusement areas, cultural events, exhibition centres, public places, quarries, mines, agricultural and food industry, marinas, commercial ports and shipyards, in external embedded boxes, distribution boards, mobile distribution boards, automation boards.



## Up to **2,436** customised solutions can be realised



### Examples of combinations

Straight wall-mounted inlet



Angled wall-mounted socket



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Straight rotoswitched socket



65° rotoswitched socket



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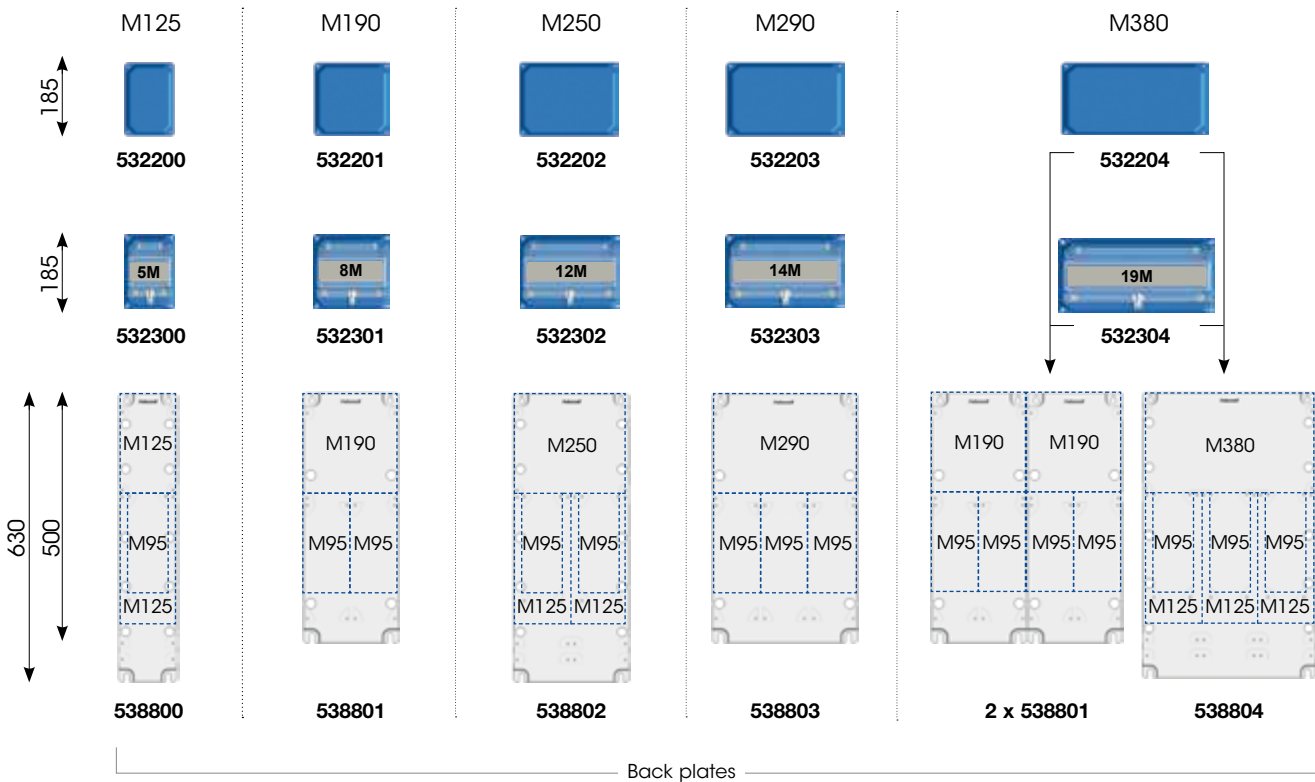
Two straight wall-mounted sockets







Rated current (A)	Rated voltage	Poles	Wall-mounted single gang boxes		Wall-mounted double gang boxes		65° wall-mounted boxes		TAIS switched interlocked sockets			
			M95	M125	M95	M125	M95	M125	M95 direct	M125 direct	M95 fuse-holder	M125 fuse-holder
16	230V	2P+⊕	532101		532121		532131		470126		472620	
	400V	3P+⊕							470136		472730	
		3P+N+⊕							470146		472830	
32	230V	2P+⊕							469226		468226	
	400V	3P+⊕							469236		468236	
		3P+N+⊕									470246	
63	400V	3P+⊕	532102		532122		532132		470336		472732	
		3P+N+⊕							470346		472832	



Examples of combinations





Safety performance industrial plugs and sockets according to IEC/EN 60309-1 and IEC/EN 60309-2. The quality of the materials, the terminals with cage clamps throughout the range, the broad entry cable clamping, the total protection rating, the resistance to impacts and crushing make this range suitable for use in the harshest environments. The range offers maximum ease of use, with details such as easy cable coupling, the possibility of use in suspension, the absence of screws to fix the grips and ergonomic shapes. The versions that are not directly available with a catalogue code can be realised by simply combining the plug insert with the grip or flange to obtain the desired configuration.

**Protection ratings:**

IP6X	<b>protected against access to hazardous parts and fully protected against dust</b>
IPX6	<b>protected against powerful water jets</b>
IPX7	<b>protected against the effects of temporary immersion (1 m - 30 min)</b>
IPX8	<b>protected against the effects of continuous immersion (1 m - 60 min)</b>
IPX9	<b>protected against high temperature and high pressure jets</b>

**Cable features:**

Rated current (A)	Poles	Entry cable diameter (mm)	Cable cross-section range (mm <sup>2</sup> )
16	2P+≐	6.3 - 18	1 - 10
	3P+≐		
	3P+N+≐	9 - 23	
32	2P+≐	9 - 23	1 - 10
	3P+≐	13 - 27	
	3P+N+≐		
63	2P+≐	14 - 36	6 - 25
	3P+≐		
	3P+N+≐		
125	2P+≐	16 - 50	16 - 70
	3P+≐		
	3P+N+≐		

Compliance with standards	<b>IEC/EN 60309-1 IEC/EN 60309-2</b>
Casing material	<b>Reinforced technopolymer</b>
Protection rating (IP according to IEC/EN 60529)	<b>IP66/IP67/IP68/IP69</b>
Colour	<b>Grey RAL 7046 Blue RAL 5015</b>
Material of pins and receptacles	<b>Solid nickel-plated brass</b>
Resistance to abnormal heat and fire ("Glow wire" according to IEC/EN 60695-2-10)	<b>960°C (wire terminal block) 850°C (casings)</b>
Flammability rating (according to UL94)	<b>V0 (wire terminal block) V2 (casings)</b>
Impact resistance (IK grade according to IEC/EN 62262)	<b>IK10</b>
Resistance to crushing	<b>&gt; 500Kg</b>
Rated current	<b>16A - 32A - 63A - 125A</b>
Operating Voltage	<b>50V - 690V (1000V on request)</b>
Operating frequency	<b>50Hz - 500Hz and CC</b>
Insulation voltage	<b>690V</b>
Pilot Contact	<b>63A and 125A plugs and socket-outlets</b>
Storage temperature	<b>-50°C - +90°C</b>
Operating temperature	<b>-40°C - +60°C</b>



**Resistance to chemical agents**

WATER	SALINE SOLUTION	ACIDS		BASES		SOLVENTS			
		CONCENTRATED	DILUTED	CONCENTRATED	DILUTED	ALCOHOL	ACETONE	PERCHLORO-ETHYLENE	BENZENE
↑	↑	→	→	↑	↑	↑	↑	↑	↓
OILS		FATS		AMMONIA	OXIDISERS	INORGANIC SALTS	GASOLINE	DETERGENTS	U.V. RAYS
MINERAL	VEGETABLE	ANIMAL	SYNTHETIC						
↑	↑	↑	↑	↑	→	↑	↑	↑	↑

Legend: ↑ high resistance    → partial resistance    ↓ low resistance



**Plugs**  
50-60Hz  
**IP66/IP67/IP68/IP69**

Rated current (A)	Rated voltage	Voltage colour	Poles	h ref.	Palazzoli code	Pack Qty
16	110V	Yellow	2P+⊕	4	<b>760124</b>	1
	110V	Yellow	3P+⊕	4	<b>760134</b>	1
	110V	Yellow	3P+N+⊕	4	<b>760144</b>	1
	230V	Blue	2P+⊕	6	<b>760126</b>	10
	230V	Blue	3P+⊕	9	<b>760139</b>	1
	230V	Blue	3P+N+⊕	9	<b>760149</b>	1
	400V	Red	2P+⊕	9	<b>760129</b>	1
	400V	Red	3P+⊕	6	<b>760136</b>	10
	400V	Red	3P+N+⊕	6	<b>760146</b>	10
	500V	Black	3P+⊕	7	<b>760137</b>	1
32	500V	Black	3P+N+⊕	7	<b>760147</b>	1
	110V	Yellow	2P+⊕	4	<b>760224</b>	1
	110V	Yellow	3P+⊕	4	<b>760234</b>	1
	110V	Yellow	3P+N+⊕	4	<b>760244</b>	1
	230V	Blue	2P+⊕	6	<b>760226</b>	1
	230V	Blue	3P+⊕	9	<b>760239</b>	1
	230V	Blue	3P+N+⊕	9	<b>760249</b>	1
	400V	Red	2P+⊕	9	<b>760229</b>	1
	400V	Red	3P+⊕	6	<b>760236</b>	5
	400V	Red	3P+N+⊕	6	<b>760246</b>	5
63	500V	Black	3P+⊕	7	<b>760237</b>	1
	500V	Black	3P+N+⊕	7	<b>760247</b>	1
	380-440V	Red	3P+⊕	3	<b>760233</b>	1
	110V	Yellow	2P+⊕	4	<b>760324</b>	1
	110V	Yellow	3P+⊕	4	<b>760334</b>	1
	110V	Yellow	3P+N+⊕	4	<b>760344</b>	1
	230V	Blue	2P+⊕	6	<b>760326</b>	1
	230V	Blue	3P+⊕	9	<b>760339</b>	1
	230V	Blue	3P+N+⊕	9	<b>760349</b>	1
	400V	Red	2P+⊕	9	<b>760329</b>	1
125	400V	Red	3P+⊕	6	<b>760336</b>	1
	400V	Red	3P+N+⊕	6	<b>760346</b>	1
	500V	Black	3P+⊕	7	<b>760337</b>	1
	500V	Black	3P+N+⊕	7	<b>760347</b>	1
	110V	Yellow	3P+⊕	4	<b>760434</b>	1
	110V	Yellow	3P+N+⊕	4	<b>760444</b>	1
	230V	Blue	3P+⊕	9	<b>760439</b>	1
	230V	Blue	3P+N+⊕	9	<b>760449</b>	1
	400V	Red	3P+⊕	6	<b>760436</b>	1
	400V	Red	3P+N+⊕	6	<b>760446</b>	1
500V	Black	3P+⊕	7	<b>760437</b>	1	
500V	Black	3P+N+⊕	7	<b>760447</b>	1	

**Features:** the plugs are designed to allow for padlocking, either in a stand-alone fashion or connected to sockets. The padlock must have a min. shackle width of 10.5 mm, a height of 32 mm and a max. wire Ø of 3.5 mm.



**Caps for IEC EN 60309-2 industrial plugs**  
**IP67**

Rated current (A)	Poles	Palazzoli code	Pack Qty
16A	2P+ ⊕	<b>476903</b>	1
	3P+ ⊕	<b>476913</b>	1
	3P+N+ ⊕	<b>476923</b>	10
32A	2P+ ⊕ / 3P+ ⊕	<b>476905</b>	10
	3P+N+ ⊕	<b>476925</b>	10
63A	2P+ ⊕ / 3P+ ⊕ / 3P+N+ ⊕	<b>476907</b>	1
125A	2P+ ⊕ / 3P+ ⊕ / 3P+N+ ⊕	<b>476909</b>	1

**Features:** ensures the IP67 protection rating when the plug is not in use.



**Straight panel-mounted inlets**  
50-60Hz  
**IP66/IP67/IP68/IP69**

Rated current (A)	Rated voltage	Flange dimensions (mm)	Voltage colour	Poles	h ref.	Palazzoli code	Pack Qty
16	110V	65x83	Yellow	2P+⊕	4	<b>762124</b>	1
	230V	65x83	Blue	2P+⊕	6	<b>762126</b>	1
	400V	65x83	Red	3P+⊕	6	<b>762136</b>	1
	400V	65x83	Red	3P+N+⊕	6	<b>762146</b>	1
32	110V	65x83	Yellow	2P+⊕	4	<b>762224</b>	1
	230V	65x83	Blue	2P+⊕	6	<b>762226</b>	1
	400V	65x83	Red	3P+⊕	6	<b>762236</b>	1
63	400V	100x108	Red	3P+N+⊕	6	<b>762246</b>	1
	400V	100x108	Red	3P+⊕	6	<b>762336</b>	1
	400V	100x108	Red	3P+N+⊕	6	<b>762346</b>	1
125	400V	114x114	Red	3P+⊕	6	<b>762436</b>	1
	400V	114x114	Red	3P+N+⊕	6	<b>762446</b>	1



**20° angled panel-mounted inlets**  
50-60Hz  
**IP66/IP67/IP68/IP69**

Rated current (A)	Rated voltage	Flange dimensions	Voltage colour	Poles	h ref.	Palazzoli code	Pack Qty
16	110V	65x83	Yellow	2P+⊕	4	<b>763124</b>	1
	230V	65x83	Blue	2P+⊕	6	<b>763126</b>	1
	400V	65x83	Red	3P+⊕	6	<b>763136</b>	1
	400V	65x83	Red	3P+N+⊕	6	<b>763146</b>	1
32	110V	65x83	Yellow	2P+⊕	4	<b>763224</b>	1
	230V	65x83	Blue	2P+⊕	6	<b>763226</b>	1
	400V	65x83	Red	3P+⊕	6	<b>763236</b>	1
63	400V	100x108	Red	3P+N+⊕	6	<b>763246</b>	1
	400V	100x108	Red	3P+⊕	6	<b>763336</b>	1
	400V	100x108	Red	3P+N+⊕	6	<b>763346</b>	1
125	400V	114x114	Red	3P+⊕	6	<b>763436</b>	1
	400V	114x114	Red	3P+N+⊕	6	<b>763446</b>	1



**65° angled wall-mounted inlets**  
50-60Hz  
**IP66/IP67/IP68/IP69**

Rated current (A)	Rated voltage	Voltage colour	Poles	h ref.	Palazzoli code	Pack Qty
16	110V	Yellow	2P+⊕	4	<b>766124</b>	1
	230V	Blue	2P+⊕	6	<b>766126</b>	1
	400V	Red	3P+⊕	6	<b>766136</b>	1
	400V	Red	3P+N+⊕	6	<b>766146</b>	1
32	110V	Yellow	2P+⊕	4	<b>766224</b>	1
	230V	Blue	2P+⊕	6	<b>766226</b>	1
	400V	Red	3P+⊕	6	<b>766236</b>	1
63	400V	Red	3P+N+⊕	6	<b>766246</b>	1
	400V	Red	3P+⊕	6	<b>766336</b>	1
	400V	Red	3P+N+⊕	6	<b>766346</b>	1
125	400V	Red	3P+⊕	6	<b>766436</b>	1
	400V	Red	3P+N+⊕	6	<b>766446</b>	1

**Common features:** the plugs are designed to allow for padlocking, either in a stand-alone fashion or connected to sockets. The padlock must have a min. shackle width of 10.5 mm, a height of 32 mm and a max. wire Ø of 3.5 mm.



Inlets  
IP66/IP67/IP68/IP69

Rated current (A)	Frequency	Rated voltage	Voltage colour	Poles	h ref.	Palazzoli code	Pack Qty
16	50-60Hz	110V	●	2P+⊕	4	<b>769124</b>	1
	50-60Hz	110V	●	3P+⊕	4	<b>769134</b>	1
	50-60Hz	110V	●	3P+N+⊕	4	<b>769144</b>	1
	50-60Hz	220V	●	2P+⊕	6	<b>769126</b>	1
	50-60Hz	220V	●	3P+⊕	9	<b>769139</b>	1
	50-60Hz	220V	●	3P+N+⊕	9	<b>769149</b>	1
	50-60Hz	400V	●	2P+⊕	9	<b>769129</b>	1
	50-60Hz	400V	●	3P+⊕	6	<b>769136</b>	1
	50-60Hz	400V	●	3P+N+⊕	6	<b>769146</b>	1
	50-60Hz	500V	●	2P+⊕	7	<b>769127</b>	1
	50-60Hz	500V	●	3P+⊕	7	<b>769137</b>	1
	50-60Hz	500V	●	3P+N+⊕	7	<b>769147</b>	1
	50-60Hz	690V	●	3P+⊕	5	<b>769135</b>	1
	50-60Hz	690V	●	3P+N+⊕	5	<b>769145</b>	1
	DC	>250V	●	2P+⊕	8	<b>769121</b>	1
	100-300Hz	>50V	●	2P+⊕	10	<b>769120</b>	1
	100-300Hz	>50V	●	3P+⊕	10	<b>769130</b>	1
	100-300Hz	>50V	●	3P+N+⊕	10	<b>769140</b>	1
	60Hz	440-460V	●	3P+⊕	11	<b>769131</b>	1
	60Hz	440-460V	●	3P+N+⊕	11	<b>769141</b>	1
	50-60Hz	>50V	●	2P+⊕	12	<b>769128</b>	1
	50-60Hz	>50V	●	3P+⊕	12	<b>769138</b>	1
	300-500Hz	>50V	●	2P+⊕	2	<b>769122</b>	1
	300-500Hz	>50V	●	3P+⊕	2	<b>769132</b>	1
	300-500Hz	>50V	●	3P+N+⊕	2	<b>769142</b>	1
	DC	>50-250V	●	2P+⊕	3	<b>769123</b>	1
	50-60Hz	380-440V	●	3P+⊕	3	<b>769133</b>	1
	50-60Hz	380-440V	●	3P+N+⊕	3	<b>769143</b>	1
	50-60Hz	110V	●	2P+⊕	4	<b>769224</b>	1
	50-60Hz	110V	●	3P+⊕	4	<b>769234</b>	1
	50-60Hz	110V	●	3P+N+⊕	4	<b>769244</b>	1
	50-60Hz	220V	●	2P+⊕	6	<b>769226</b>	1
50-60Hz	220V	●	3P+⊕	9	<b>769239</b>	1	
50-60Hz	220V	●	3P+N+⊕	9	<b>769249</b>	1	
50-60Hz	400V	●	2P+⊕	9	<b>769229</b>	1	
50-60Hz	400V	●	3P+⊕	6	<b>769236</b>	1	
50-60Hz	400V	●	3P+N+⊕	6	<b>769246</b>	1	
50-60Hz	500V	●	2P+⊕	7	<b>769227</b>	1	
50-60Hz	500V	●	3P+⊕	7	<b>769237</b>	1	
50-60Hz	500V	●	3P+N+⊕	7	<b>769247</b>	1	
50-60Hz	690V	●	3P+⊕	5	<b>769235</b>	1	
50-60Hz	690V	●	3P+N+⊕	5	<b>769245</b>	1	
DC	>250V	●	2P+⊕	8	<b>769221</b>	1	
100-300Hz	>50V	●	2P+⊕	10	<b>769220</b>	1	
100-300Hz	>50V	●	3P+⊕	10	<b>769230</b>	1	
100-300Hz	>50V	●	3P+N+⊕	10	<b>769240</b>	1	
60Hz	440-460V	●	3P+⊕	11	<b>769231</b>	1	
60Hz	440-460V	●	3P+N+⊕	11	<b>769241</b>	1	
50-60Hz	>50V	●	2P+⊕	12	<b>769228</b>	1	
50-60Hz	>50V	●	3P+⊕	12	<b>769238</b>	1	
300-500Hz	>50V	●	2P+⊕	2	<b>769222</b>	1	
300-500Hz	>50V	●	3P+⊕	2	<b>769232</b>	1	
300-500Hz	>50V	●	3P+N+⊕	2	<b>769242</b>	1	
DC	>50-250V	●	2P+⊕	3	<b>769223</b>	1	
50-60Hz	380-440V	●	3P+⊕	3	<b>769233</b>	1	
50-60Hz	380-440V	●	3P+N+⊕	3	<b>769243</b>	1	

Rated current (A)	Frequency	Rated voltage	Voltage colour	Poles	h ref.	Palazzoli code	Pack Qty
63	50-60Hz	110V	●	2P+⊕	4	<b>769324</b>	1
	50-60Hz	110V	●	3P+⊕	4	<b>769334</b>	1
	50-60Hz	110V	●	3P+N+⊕	4	<b>769344</b>	1
	50-60Hz	220V	●	2P+⊕	6	<b>769326</b>	1
	50-60Hz	220V	●	3P+⊕	9	<b>769339</b>	1
	50-60Hz	220V	●	3P+N+⊕	9	<b>769349</b>	1
	50-60Hz	400V	●	2P+⊕	9	<b>769329</b>	1
	50-60Hz	400V	●	3P+⊕	6	<b>769336</b>	1
	50-60Hz	400V	●	3P+N+⊕	6	<b>769346</b>	1
	50-60Hz	500V	●	2P+⊕	7	<b>769327</b>	1
	50-60Hz	500V	●	3P+⊕	7	<b>769337</b>	1
	50-60Hz	500V	●	3P+N+⊕	7	<b>769347</b>	1
	50-60Hz	690V	●	3P+⊕	5	<b>769335</b>	1
	50-60Hz	690V	●	3P+N+⊕	5	<b>769345</b>	1
	DC	>250V	●	2P+⊕	8	<b>769321</b>	1
	100-300Hz	>50V	●	2P+⊕	10	<b>769320</b>	1
	100-300Hz	>50V	●	3P+⊕	10	<b>769330</b>	1
	100-300Hz	>50V	●	3P+N+⊕	10	<b>769340</b>	1
	60Hz	440-460V	●	3P+⊕	11	<b>769331</b>	1
	60Hz	440-460V	●	3P+N+⊕	11	<b>769341</b>	1
	50-60Hz	>50V	●	2P+⊕	12	<b>769328</b>	1
	50-60Hz	>50V	●	3P+⊕	12	<b>769338</b>	1
	300-500Hz	>50V	●	2P+⊕	2	<b>769322</b>	1
	300-500Hz	>50V	●	3P+⊕	2	<b>769332</b>	1
	300-500Hz	>50V	●	3P+N+⊕	2	<b>769342</b>	1
	DC	>50-250V	●	2P+⊕	3	<b>769323</b>	1
	50-60Hz	380-440V	●	3P+⊕	3	<b>769333</b>	1
	50-60Hz	380-440V	●	3P+N+⊕	3	<b>769343</b>	1
	50-60Hz	110V	●	2P+⊕	4	<b>769424</b>	1
	50-60Hz	110V	●	3P+⊕	4	<b>769434</b>	1
	50-60Hz	110V	●	3P+N+⊕	4	<b>769444</b>	1
	50-60Hz	220V	●	2P+⊕	6	<b>769426</b>	1
50-60Hz	220V	●	3P+⊕	9	<b>769439</b>	1	
50-60Hz	220V	●	3P+N+⊕	9	<b>769449</b>	1	
50-60Hz	400V	●	2P+⊕	9	<b>769429</b>	1	
50-60Hz	400V	●	3P+⊕	6	<b>769436</b>	1	
50-60Hz	400V	●	3P+N+⊕	6	<b>769446</b>	1	
50-60Hz	500V	●	2P+⊕	7	<b>769427</b>	1	
50-60Hz	500V	●	3P+⊕	7	<b>769437</b>	1	
50-60Hz	500V	●	3P+N+⊕	7	<b>769447</b>	1	
50-60Hz	690V	●	3P+⊕	5	<b>769435</b>	1	
50-60Hz	690V	●	3P+N+⊕	5	<b>769445</b>	1	
DC	>250V	●	2P+⊕	8	<b>769421</b>	1	
100-300Hz	>50V	●	2P+⊕	10	<b>769420</b>	1	
100-300Hz	>50V	●	3P+⊕	10	<b>769430</b>	1	
100-300Hz	>50V	●	3P+N+⊕	10	<b>769440</b>	1	
60Hz	440-460V	●	3P+⊕	11	<b>769431</b>	1	
60Hz	440-460V	●	3P+N+⊕	11	<b>769441</b>	1	
50-60Hz	>50V	●	2P+⊕	12	<b>769428</b>	1	
50-60Hz	>50V	●	3P+⊕	12	<b>769438</b>	1	
300-500Hz	>50V	●	2P+⊕	2	<b>769422</b>	1	
300-500Hz	>50V	●	3P+⊕	2	<b>769432</b>	1	
300-500Hz	>50V	●	3P+N+⊕	2	<b>769442</b>	1	
DC	>50-250V	●	2P+⊕	3	<b>769423</b>	1	
50-60Hz	380-440V	●	3P+⊕	3	<b>769433</b>	1	
50-60Hz	380-440V	●	3P+N+⊕	3	<b>769443</b>	1	

Features: the plugs are designed to allow for padlocking, either in a stand-alone fashion or connected to sockets. The padlock must have a min. shackle width of 10.5 mm, a height of 32 mm and a max. wire Ø of 3.5 mm.





**Couplers**  
50/60Hz  
IP66/IP67/IP68/IP69

Rated current (A)	Rated voltage	Voltage colour	Poles	h ref.	Palazzoli code	Pack Qty
16	110V	●	2P+⊕	4	<b>770124</b>	1
	110V	●	3P+⊕	4	<b>770134</b>	1
	110V	●	3P+N+⊕	4	<b>770144</b>	1
	230V	●	2P+⊕	6	<b>770126</b>	10
	230V	●	3P+⊕	9	<b>770139</b>	1
	230V	●	3P+N+⊕	9	<b>770149</b>	1
	400V	●	2P+⊕	9	<b>770129</b>	1
	400V	●	3P+⊕	6	<b>770136</b>	10
	400V	●	3P+N+⊕	6	<b>770146</b>	10
	500V	●	3P+⊕	7	<b>770137</b>	1
500V	●	3P+N+⊕	7	<b>770147</b>	1	
32	110V	●	2P+⊕	4	<b>770224</b>	1
	110V	●	3P+⊕	4	<b>770234</b>	1
	110V	●	3P+N+⊕	4	<b>770244</b>	1
	230V	●	2P+⊕	6	<b>770226</b>	1
	230V	●	3P+⊕	9	<b>770239</b>	1
	230V	●	3P+N+⊕	9	<b>770249</b>	1
	400V	●	2P+⊕	9	<b>770229</b>	1
	400V	●	3P+⊕	6	<b>770236</b>	5
	400V	●	3P+N+⊕	6	<b>770246</b>	5
	500V	●	3P+⊕	7	<b>770237</b>	1
500V	●	3P+N+⊕	7	<b>770247</b>	1	
380-440V	●	3P+⊕	3	<b>770233</b>	1	
63	110V	●	2P+⊕	4	<b>770324</b>	1
	110V	●	3P+⊕	4	<b>770334</b>	1
	110V	●	3P+N+⊕	4	<b>770344</b>	1
	230V	●	2P+⊕	6	<b>770326</b>	1
	230V	●	3P+⊕	9	<b>770339</b>	1
	230V	●	3P+N+⊕	9	<b>770349</b>	1
	400V	●	2P+⊕	9	<b>770329</b>	1
	400V	●	3P+⊕	6	<b>770336</b>	1
	400V	●	3P+N+⊕	6	<b>770346</b>	1
	500V	●	3P+⊕	7	<b>770337</b>	1
500V	●	3P+N+⊕	7	<b>770347</b>	1	
125	110V	●	3P+⊕	4	<b>770434</b>	1
	110V	●	3P+N+⊕	4	<b>770444</b>	1
	230V	●	3P+⊕	9	<b>770439</b>	1
	230V	●	3P+N+⊕	9	<b>770449</b>	1
	400V	●	3P+⊕	6	<b>770436</b>	1
	400V	●	3P+N+⊕	6	<b>770446</b>	1
	500V	●	3P+⊕	7	<b>770437</b>	1
500V	●	3P+N+⊕	7	<b>770447</b>	1	

**Features:** the sockets are designed to allow for padlocking, either in a stand-alone fashion or connected to plugs. The padlock must have a min. shackle width of 10.5 mm, a height of 32 mm and a max. wire Ø of 3.5 mm.



Couplers are also available in an interlocked version on page 89



**Straight panel-mounted sockets**  
50/60Hz  
IP66/IP67/IP68/IP69

Rated current (A)	Rated voltage	Flange dimensions (mm)	Voltage colour	Poles	h ref.	Palazzoli code	Pack Qty
16	110V	65x83	●	2P+⊕	4	<b>772124</b>	1
	110V	65x83	●	3P+⊕	4	<b>772134</b>	1
	110V	65x83	●	3P+N+⊕	4	<b>772144</b>	1
	230V	65x83	●	2P+⊕	6	<b>772126</b>	10
	230V	65x83	●	3P+⊕	9	<b>772139</b>	1
	230V	65x83	●	3P+N+⊕	9	<b>772149</b>	1
	400V	65x83	●	2P+⊕	9	<b>772129</b>	1
	400V	65x83	●	3P+⊕	6	<b>772136</b>	1
	400V	65x83	●	3P+N+⊕	6	<b>772146</b>	1
	500V	65x83	●	3P+⊕	7	<b>772137</b>	1
500V	65x83	●	3P+N+⊕	7	<b>772147</b>	1	
32	110V	65x83	●	2P+⊕	4	<b>772224</b>	1
	110V	65x83	●	3P+⊕	4	<b>772234</b>	1
	110V	100x108	●	3P+N+⊕	4	<b>772244</b>	1
	230V	65x83	●	2P+⊕	6	<b>772226</b>	1
	230V	65x83	●	3P+⊕	9	<b>772239</b>	1
	230V	100x108	●	3P+N+⊕	9	<b>772249</b>	1
	400V	65x83	●	2P+⊕	9	<b>772229</b>	1
	400V	65x83	●	3P+⊕	6	<b>772236</b>	1
	400V	100x108	●	3P+N+⊕	6	<b>772246</b>	1
	500V	65x83	●	3P+⊕	7	<b>772237</b>	1
500V	100x108	●	3P+N+⊕	7	<b>772247</b>	1	
380-440V	65x83	●	3P+⊕	3	<b>772233</b>	1	
63	110V	100x108	●	2P+⊕	4	<b>772324</b>	1
	110V	100x108	●	3P+⊕	4	<b>772334</b>	1
	110V	100x108	●	3P+N+⊕	4	<b>772344</b>	1
	230V	100x108	●	2P+⊕	6	<b>772326</b>	1
	230V	100x108	●	3P+⊕	9	<b>772339</b>	1
	230V	100x108	●	3P+N+⊕	9	<b>772349</b>	1
	400V	100x108	●	2P+⊕	9	<b>772329</b>	1
	400V	100x108	●	3P+⊕	6	<b>772336</b>	1
	400V	100x108	●	3P+N+⊕	6	<b>772346</b>	1
	500V	100x108	●	3P+⊕	7	<b>772337</b>	1
500V	100x108	●	3P+N+⊕	7	<b>772347</b>	1	
125	110V	114x114	●	3P+⊕	4	<b>772434</b>	1
	110V	114x114	●	3P+N+⊕	4	<b>772444</b>	1
	230V	114x114	●	3P+⊕	9	<b>772439</b>	1
	230V	114x114	●	3P+N+⊕	9	<b>772449</b>	1
	400V	114x114	●	3P+⊕	6	<b>772436</b>	1
	400V	114x114	●	3P+N+⊕	6	<b>772446</b>	1
	500V	114x114	●	3P+⊕	7	<b>772437</b>	1
500V	114x114	●	3P+N+⊕	7	<b>772447</b>	1	

**Features:** the sockets are designed to allow for padlocking, either in a stand-alone fashion or connected to plugs. The padlock must have a min. shackle width of 10.5 mm, a height of 32 mm and a max. wire Ø of 3.5 mm.



Straight panel-mounted sockets are also available in an interlocked version on page 89



**20° angled  
panel-mounted sockets**  
50/60Hz  
IP66/IP67/IP68/IP69

Rated current (A)	Rated voltage	Flange dimensions (mm)	Voltage colour	Poles	h ref.	Palazzoli code	Pack Qty
16	110V	65x83	Yellow	2P+⊕	4	<b>773124</b>	1
	110V	65x83	Yellow	3P+⊕	4	<b>773134</b>	1
	110V	65x83	Yellow	3P+N+⊕	4	<b>773144</b>	1
	230V	65x83	Blue	2P+⊕	6	<b>773126</b>	10
	230V	65x83	Blue	3P+⊕	9	<b>773139</b>	1
	230V	65x83	Blue	3P+N+⊕	9	<b>773149</b>	1
	400V	65x83	Red	2P+⊕	9	<b>773129</b>	1
	400V	65x83	Red	3P+⊕	6	<b>773136</b>	1
	400V	65x83	Red	3P+N+⊕	6	<b>773146</b>	1
	500V	65x83	Black	3P+⊕	7	<b>773137</b>	1
500V	65x83	Black	3P+N+⊕	7	<b>773147</b>	1	
32	110V	65x83	Yellow	2P+⊕	4	<b>773224</b>	1
	110V	65x83	Yellow	3P+⊕	4	<b>773234</b>	1
	110V	100x108	Yellow	3P+N+⊕	4	<b>773244</b>	1
	230V	65x83	Blue	2P+⊕	6	<b>773226</b>	1
	230V	65x83	Blue	3P+⊕	9	<b>773239</b>	1
	230V	100x108	Blue	3P+N+⊕	9	<b>773249</b>	1
	400V	65x83	Red	2P+⊕	9	<b>773229</b>	1
	400V	65x83	Red	3P+⊕	6	<b>773236</b>	1
	400V	100x108	Red	3P+N+⊕	6	<b>773246</b>	1
	500V	65x83	Black	3P+⊕	7	<b>773237</b>	1
500V	100x108	Black	3P+N+⊕	7	<b>773247</b>	1	
380-440V	65x83	Red	3P+⊕	3	<b>773233</b>	1	
63	110V	100x108	Yellow	2P+⊕	4	<b>773324</b>	1
	110V	100x108	Yellow	3P+⊕	4	<b>773334</b>	1
	110V	100x108	Yellow	3P+N+⊕	4	<b>773344</b>	1
	230V	100x108	Blue	2P+⊕	6	<b>773326</b>	1
	230V	100x108	Blue	3P+⊕	9	<b>773339</b>	1
	230V	100x108	Blue	3P+N+⊕	9	<b>773349</b>	1
	400V	100x108	Red	2P+⊕	9	<b>773329</b>	1
	400V	100x108	Red	3P+⊕	6	<b>773336</b>	1
	400V	100x108	Red	3P+N+⊕	6	<b>773346</b>	1
	500V	100x108	Black	3P+⊕	7	<b>773337</b>	1
500V	100x108	Black	3P+N+⊕	7	<b>773347</b>	1	
125	110V	114x114	Yellow	3P+⊕	4	<b>773434</b>	1
	110V	114x114	Yellow	3P+N+⊕	4	<b>773444</b>	1
	230V	114x114	Blue	3P+⊕	9	<b>773439</b>	1
	230V	114x114	Blue	3P+N+⊕	9	<b>773449</b>	1
	400V	114x114	Red	3P+⊕	6	<b>773436</b>	1
	400V	114x114	Red	3P+N+⊕	6	<b>773446</b>	1
	500V	114x114	Black	3P+⊕	7	<b>773437</b>	1
	500V	114x114	Black	3P+N+⊕	7	<b>773447</b>	1

**Features:** the sockets are designed to allow for padlocking, either in a stand-alone fashion or connected to plugs. The padlock must have a min. shackle width of 10.5 mm, a height of 32 mm and a max. wire Ø of 3.5 mm.



The 20° angled sockets are also available in an interlocked version on page 89



**65° angled  
wall-mounted sockets**  
50/60Hz  
IP66/IP67/IP68/IP69

Rated current (A)	Rated voltage	Voltage colour	Poles	h ref.	Palazzoli code	Pack Qty
16	110V	Yellow	2P+⊕	4	<b>776124</b>	1
	110V	Yellow	3P+⊕	4	<b>776134</b>	1
	110V	Yellow	3P+N+⊕	4	<b>776144</b>	1
	230V	Blue	2P+⊕	6	<b>776126</b>	1
	230V	Blue	3P+⊕	9	<b>776139</b>	1
	230V	Blue	3P+N+⊕	9	<b>776149</b>	1
	400V	Red	2P+⊕	9	<b>776129</b>	1
	400V	Red	3P+⊕	6	<b>776136</b>	1
	400V	Red	3P+N+⊕	6	<b>776146</b>	1
	500V	Black	3P+⊕	7	<b>776137</b>	1
500V	Black	3P+N+⊕	7	<b>776147</b>	1	
32	110V	Yellow	2P+⊕	4	<b>776224</b>	1
	110V	Yellow	3P+⊕	4	<b>776234</b>	1
	110V	Yellow	3P+N+⊕	4	<b>776244</b>	1
	230V	Blue	2P+⊕	6	<b>776226</b>	1
	230V	Blue	3P+⊕	9	<b>776239</b>	1
	230V	Blue	3P+N+⊕	9	<b>776249</b>	1
	400V	Red	2P+⊕	9	<b>776229</b>	1
	400V	Red	3P+⊕	6	<b>776236</b>	1
	400V	Red	3P+N+⊕	6	<b>776246</b>	1
	500V	Black	3P+⊕	7	<b>776237</b>	1
500V	Black	3P+N+⊕	7	<b>776247</b>	1	
380-440V	Red	3P+⊕	3	<b>776233</b>	1	
63	110V	Yellow	2P+⊕	4	<b>776324</b>	1
	110V	Yellow	3P+⊕	4	<b>776334</b>	1
	110V	Yellow	3P+N+⊕	4	<b>776344</b>	1
	230V	Blue	2P+⊕	6	<b>776326</b>	1
	230V	Blue	3P+⊕	9	<b>776339</b>	1
	230V	Blue	3P+N+⊕	9	<b>776349</b>	1
	400V	Red	2P+⊕	9	<b>776329</b>	1
	400V	Red	3P+⊕	6	<b>776336</b>	1
	400V	Red	3P+N+⊕	6	<b>776346</b>	1
	500V	Black	3P+⊕	7	<b>776337</b>	1
500V	Black	3P+N+⊕	7	<b>776347</b>	1	
125	110V	Yellow	3P+⊕	4	<b>776434</b>	1
	110V	Yellow	3P+N+⊕	4	<b>776444</b>	1
	230V	Blue	3P+⊕	9	<b>776439</b>	1
	230V	Blue	3P+N+⊕	9	<b>776449</b>	1
	400V	Red	3P+⊕	6	<b>776436</b>	1
	400V	Red	3P+N+⊕	6	<b>776446</b>	1
	500V	Black	3P+⊕	7	<b>776437</b>	1
	500V	Black	3P+N+⊕	7	<b>776447</b>	1

**Features:** the sockets are designed to allow for padlocking, either in a stand-alone fashion or connected to plugs. The padlock must have a min. shackle width of 10.5 mm, a height of 32 mm and a max. wire Ø of 3.5 mm.



The wall-mounted 65° angled sockets are also available in an interlocked version on page 89



Sockets  
IP66/IP67/IP68/IP69

Rated current (A)	Frequency	Rated voltage	Voltage colour	Poles	h ref.	Palazzoli code	Pack Qty
16	50-60Hz	110V	●	2P+⊕	4	<b>779124</b>	1
	50-60Hz	110V	●	3P+⊕	4	<b>779134</b>	1
	50-60Hz	110V	●	3P+N+⊕	4	<b>779144</b>	1
	50-60Hz	220V	●	2P+⊕	6	<b>779126</b>	1
	50-60Hz	220V	●	3P+⊕	9	<b>779139</b>	1
	50-60Hz	220V	●	3P+N+⊕	9	<b>779149</b>	1
	50-60Hz	400V	●	2P+⊕	9	<b>779129</b>	1
	50-60Hz	400V	●	3P+⊕	6	<b>779136</b>	1
	50-60Hz	400V	●	3P+N+⊕	6	<b>779146</b>	1
	50-60Hz	500V	●	2P+⊕	7	<b>779127</b>	1
	50-60Hz	500V	●	3P+⊕	7	<b>779137</b>	1
	50-60Hz	500V	●	3P+N+⊕	7	<b>779147</b>	1
	50-60Hz	690V	●	3P+⊕	5	<b>779135</b>	1
	50-60Hz	690V	●	3P+N+⊕	5	<b>779145</b>	1
	DC	>250V	●	2P+⊕	8	<b>779121</b>	1
	100-300Hz	>50V	●	2P+⊕	10	<b>779120</b>	1
	100-300Hz	>50V	●	3P+⊕	10	<b>779130</b>	1
	100-300Hz	>50V	●	3P+N+⊕	10	<b>779140</b>	1
	60Hz	440-460V	●	3P+⊕	11	<b>779131</b>	1
	60Hz	440-460V	●	3P+N+⊕	11	<b>779141</b>	1
	50-60Hz	>50V	●	2P+⊕	12	<b>779128</b>	1
	50-60Hz	>50V	●	3P+⊕	12	<b>779138</b>	1
	300-500Hz	>50V	●	2P+⊕	2	<b>779122</b>	1
	300-500Hz	>50V	●	3P+⊕	2	<b>779132</b>	1
	300-500Hz	>50V	●	3P+N+⊕	2	<b>779142</b>	1
	DC	>50-250V	●	2P+⊕	3	<b>779123</b>	1
	50-60Hz	380-440V	●	3P+⊕	3	<b>779133</b>	1
	50-60Hz	380-440V	●	3P+N+⊕	3	<b>779143</b>	1
	50-60Hz	110V	●	2P+⊕	4	<b>779224</b>	1
	50-60Hz	110V	●	3P+⊕	4	<b>779234</b>	1
	50-60Hz	110V	●	3P+N+⊕	4	<b>779244</b>	1
	50-60Hz	220V	●	2P+⊕	6	<b>779226</b>	1
50-60Hz	220V	●	3P+⊕	9	<b>779239</b>	1	
50-60Hz	220V	●	3P+N+⊕	9	<b>779249</b>	1	
50-60Hz	400V	●	2P+⊕	9	<b>779229</b>	1	
50-60Hz	400V	●	3P+⊕	6	<b>779236</b>	1	
50-60Hz	400V	●	3P+N+⊕	6	<b>779246</b>	1	
50-60Hz	500V	●	2P+⊕	7	<b>779227</b>	1	
50-60Hz	500V	●	3P+⊕	7	<b>779237</b>	1	
50-60Hz	500V	●	3P+N+⊕	7	<b>779247</b>	1	
50-60Hz	690V	●	3P+⊕	5	<b>779235</b>	1	
50-60Hz	690V	●	3P+N+⊕	5	<b>779245</b>	1	
DC	>250V	●	2P+⊕	8	<b>779221</b>	1	
100-300Hz	>50V	●	2P+⊕	10	<b>779220</b>	1	
100-300Hz	>50V	●	3P+⊕	10	<b>779230</b>	1	
100-300Hz	>50V	●	3P+N+⊕	10	<b>779240</b>	1	
60Hz	440-460V	●	3P+⊕	11	<b>779231</b>	1	
60Hz	440-460V	●	3P+N+⊕	11	<b>779241</b>	1	
50-60Hz	>50V	●	2P+⊕	12	<b>779228</b>	1	
50-60Hz	>50V	●	3P+⊕	12	<b>779238</b>	1	
300-500Hz	>50V	●	2P+⊕	2	<b>779222</b>	1	
300-500Hz	>50V	●	3P+⊕	2	<b>779232</b>	1	
300-500Hz	>50V	●	3P+N+⊕	2	<b>779242</b>	1	
DC	>50-250V	●	2P+⊕	3	<b>779223</b>	1	
50-60Hz	380-440V	●	3P+⊕	3	<b>779233</b>	1	
50-60Hz	380-440V	●	3P+N+⊕	3	<b>779243</b>	1	

Rated current (A)	Frequency	Rated voltage	Voltage colour	Poles	h ref.	Palazzoli code	Pack Qty
63	50-60Hz	110V	●	2P+⊕	4	<b>779324</b>	1
	50-60Hz	110V	●	3P+⊕	4	<b>779334</b>	1
	50-60Hz	110V	●	3P+N+⊕	4	<b>779344</b>	1
	50-60Hz	220V	●	2P+⊕	6	<b>779326</b>	1
	50-60Hz	220V	●	3P+⊕	9	<b>779339</b>	1
	50-60Hz	220V	●	3P+N+⊕	9	<b>779349</b>	1
	50-60Hz	400V	●	2P+⊕	9	<b>779329</b>	1
	50-60Hz	400V	●	3P+⊕	6	<b>779336</b>	1
	50-60Hz	400V	●	3P+N+⊕	6	<b>779346</b>	1
	50-60Hz	500V	●	2P+⊕	7	<b>779327</b>	1
	50-60Hz	500V	●	3P+⊕	7	<b>779337</b>	1
	50-60Hz	500V	●	3P+N+⊕	7	<b>779347</b>	1
	50-60Hz	690V	●	3P+⊕	5	<b>779335</b>	1
	50-60Hz	690V	●	3P+N+⊕	5	<b>779345</b>	1
	DC	>250V	●	2P+⊕	8	<b>779321</b>	1
	100-300Hz	>50V	●	2P+⊕	10	<b>779320</b>	1
	100-300Hz	>50V	●	3P+⊕	10	<b>779330</b>	1
	100-300Hz	>50V	●	3P+N+⊕	10	<b>779340</b>	1
	60Hz	440-460V	●	3P+⊕	11	<b>779331</b>	1
	60Hz	440-460V	●	3P+N+⊕	11	<b>779341</b>	1
	50-60Hz	>50V	●	2P+⊕	12	<b>779328</b>	1
	50-60Hz	>50V	●	3P+⊕	12	<b>779338</b>	1
	300-500Hz	>50V	●	2P+⊕	2	<b>779322</b>	1
	300-500Hz	>50V	●	3P+⊕	2	<b>779332</b>	1
	300-500Hz	>50V	●	3P+N+⊕	2	<b>779342</b>	1
	DC	>50-250V	●	2P+⊕	3	<b>779323</b>	1
	50-60Hz	380-440V	●	3P+⊕	3	<b>779333</b>	1
	50-60Hz	380-440V	●	3P+N+⊕	3	<b>779343</b>	1
	50-60Hz	110V	●	2P+⊕	4	<b>779424</b>	1
	50-60Hz	110V	●	3P+⊕	4	<b>779434</b>	1
	50-60Hz	110V	●	3P+N+⊕	4	<b>779444</b>	1
	50-60Hz	220V	●	2P+⊕	6	<b>779426</b>	1
50-60Hz	220V	●	3P+⊕	9	<b>779439</b>	1	
50-60Hz	220V	●	3P+N+⊕	9	<b>779449</b>	1	
50-60Hz	400V	●	2P+⊕	9	<b>779429</b>	1	
50-60Hz	400V	●	3P+⊕	6	<b>779436</b>	1	
50-60Hz	400V	●	3P+N+⊕	6	<b>779446</b>	1	
50-60Hz	500V	●	2P+⊕	7	<b>779427</b>	1	
50-60Hz	500V	●	3P+⊕	7	<b>779437</b>	1	
50-60Hz	500V	●	3P+N+⊕	7	<b>779447</b>	1	
50-60Hz	690V	●	3P+⊕	5	<b>779435</b>	1	
50-60Hz	690V	●	3P+N+⊕	5	<b>779445</b>	1	
DC	>250V	●	2P+⊕	8	<b>779421</b>	1	
100-300Hz	>50V	●	2P+⊕	10	<b>779420</b>	1	
100-300Hz	>50V	●	3P+⊕	10	<b>779430</b>	1	
100-300Hz	>50V	●	3P+N+⊕	10	<b>779440</b>	1	
60Hz	440-460V	●	3P+⊕	11	<b>779431</b>	1	
60Hz	440-460V	●	3P+N+⊕	11	<b>779441</b>	1	
50-60Hz	>50V	●	2P+⊕	12	<b>779428</b>	1	
50-60Hz	>50V	●	3P+⊕	12	<b>779438</b>	1	
300-500Hz	>50V	●	2P+⊕	2	<b>779422</b>	1	
300-500Hz	>50V	●	3P+⊕	2	<b>779432</b>	1	
300-500Hz	>50V	●	3P+N+⊕	2	<b>779442</b>	1	
DC	>50-250V	●	2P+⊕	3	<b>779423</b>	1	
50-60Hz	380-440V	●	3P+⊕	3	<b>779433</b>	1	
50-60Hz	380-440V	●	3P+N+⊕	3	<b>779443</b>	1	

Features: the sockets are designed to allow for padlocking, either in a stand-alone fashion or connected to plugs. The padlock must have a min. shackle width of 10.5 mm, a height of 32 mm and a max. wire Ø of 3.5 mm.



**Handles**  
IP66/IP67/IP68/IP69

Rated current (A)	Poles	Entry cable diameter (mm)	Palazzoli code	Pack Qty
16	2P+⚡	6.3 - 18	<b>419001</b>	5
	3P+⚡	6.3 - 18	<b>419002</b>	5
	3P+N+⚡	9 - 23	<b>419003</b>	5
32	2P+⚡ / 3P+⚡	9 - 23	<b>419004</b>	5
	3P+N+⚡	13 - 27	<b>419004</b>	5
63	2P+⚡ / 3P+⚡ / 3P+N+⚡	14 - 36	<b>419005</b>	5
125	2P+⚡ / 3P+⚡ / 3P+N+⚡	16 - 50	<b>419006</b>	5



**Straight panel-mounted flanges**  
IP66/IP67/IP68/IP69

Rated current (A)	Poles	Flange dimensions (mm)	Palazzoli code	Pack Qty
16	2P+⚡	65x83	<b>419021</b>	5
	3P+⚡	65x83	<b>419022</b>	5
	3P+N+⚡	65x83	<b>419023</b>	5
32	2P+⚡ / 3P+⚡	65x83	<b>419023</b>	5
	3P+N+⚡	100x108	<b>419024</b>	5
63	2P+⚡ / 3P+⚡ / 3P+N+⚡	100 x 108	<b>419025</b>	5
125	2P+⚡ / 3P+⚡ / 3P+N+⚡	114x114	<b>419026</b>	5



**20° angled panel-mounted flanges**  
IP66/IP67/IP68/IP69

Rated current (A)	Poles	Flange dimensions (mm)	Palazzoli code	Pack Qty
16	2P+⚡	65x83	<b>419031</b>	5
	3P+⚡	65x83	<b>419032</b>	5
	3P+N+⚡	65x83	<b>419033</b>	5
32	2P+⚡ / 3P+⚡	65x83	<b>419033</b>	5
	3P+N+⚡	100x108	<b>419034</b>	5
63	2P+⚡ / 3P+⚡ / 3P+N+⚡	100x108	<b>419035</b>	5
125	2P+⚡ / 3P+⚡ / 3P+N+⚡	114x114	<b>419036</b>	5



**65° angled wall-mounted boxes**  
modular with TAIS system  
IP66/IP67/IP68/IP69

For flange with dimensions (mm)	Box dimensions (mm)	Palazzoli code	Pack Qty
65x83	92x125	<b>532131</b>	1
100x108	125x185	<b>532132</b>	1
114x114	-	<b>532133</b>	1



**Wall-mounted single gang boxes**  
modular with TAIS system  
IP66/IP67/IP68/IP69

For flange with dimensions (mm)	Box dimensions (mm)	Palazzoli code	Pack Qty
65x83	92x125	<b>532101</b>	1
100x108	125x185	<b>532102</b>	1
114x114	-	<b>532103</b>	1



**Wall-mounted double gang boxes**  
modular with TAIS system  
IP66/IP67/IP68/IP69

For flange with dimensions (mm)	Box dimensions (mm)	Palazzoli code	Pack Qty
2x(65x83)	92x255	<b>532121</b>	1
2x(100x108)	125x352	<b>532122</b>	1



**Blind flanges**  
for wall-mounted boxes  
IP66/IP67/IP68/IP69

Flange dimensions (mm)	Palazzoli code	Pack Qty
65x83	<b>532843</b>	1
100x108	<b>532842</b>	1





X-CEE is the only interlocked mobile socket in the market

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SAFETY RING



OFF



ON





Compliance with standards	<b>IEC/EN 60309-1 IEC/EN 60309-2</b>
Material	<b>Thermoplastic material with increased thickness</b>
Protection rating (IP according to IEC/EN 60529)	<b>IP44 - IP67</b>
Grip colour	<b>RAL7042</b>
Resistance to abnormal heat and fire ("Glow Wire" according to IEC/EN 60695-2-10)	<b>850°C (grip) 850°C (16A/32A insert) 960°C (63A/125A insert)</b>
Flammability rating (according to UL94)	<b>V2 (grip) V2 (16A/32A insert) V0 (63A/125A insert)</b>
Impact resistance (IK rating according to IEC/EN 62262)	<b>IK08</b>
Rated current	<b>16A - 32A - 63A - 125A</b>
Operating Voltage	<b>24V - 50V</b>
Operating frequency	<b>0-200Hz</b>
Insulation voltage	<b>690V</b>
Storage temperature	<b>-30°C - +70°C</b>
Operating temperature	<b>-25°C - +50°C</b>



**Cable features:**

Rated current (A)	Poles	Entry cable diameter (mm)	Entry cable sections (mm <sup>2</sup> )
16	2P	10.5 - 21.5	1 - 2.5
	3P		
32	2P		
	3P		
63	2P	16 - 31.5	2 - 4
	3P		
125	3P	24.5 - 45	10 - 14



**Straight mobile plugs**  
extra low voltage  
**IP44**

Rated current (A)	Frequency	Rated voltage	Voltage colour	Poles	h ref.	Palazzoli code	Pack Qty
16	50-60Hz	24V	●	2P	-	<b>477002</b>	10
	50-60Hz	24V	●	3P	-	<b>477062</b>	1
	50-60Hz	42V	○	2P	12	<b>477102</b>	1
	50-60Hz	42V	○	3P	12	<b>477112</b>	1
	100-200Hz	24-42V	●	2P	4	<b>477012</b>	1
	100-200Hz	24-42V	●	3P	4	<b>477122</b>	1
	DC	24-42V	○	2P	10	<b>477602</b>	1
	50-60Hz	24V	●	2P	-	<b>477005</b>	1
	50-60Hz	24V	●	3P	-	<b>477065</b>	1
	50-60Hz	42V	○	2P	12	<b>477105</b>	1
32	50-60Hz	42V	○	3P	12	<b>477115</b>	1
	100-200Hz	24-42V	●	2P	4	<b>477015</b>	1
	100-200Hz	24-42V	●	3P	4	<b>477175</b>	1
	DC	24-42V	○	2P	10	<b>477605</b>	1



**Straight mobile plugs**  
extra low voltage  
**IP67**

Rated current (A)	Frequency	Rated voltage	Voltage colour	Poles	h ref.	Palazzoli code	Pack Qty
16	50-60Hz	24V	●	2P	-	<b>477003</b>	1
	50-60Hz	24V	●	3P	-	<b>477063</b>	1
	50-60Hz	42V	○	2P	12	<b>477103</b>	1
	50-60Hz	42V	○	3P	12	<b>477113</b>	1
	100-200Hz	24-42V	●	2P	4	<b>477013</b>	1
	100-200Hz	24-42V	●	3P	4	<b>477123</b>	1
	DC	24-42V	○	2P	10	<b>477603</b>	1
	50-60Hz	24V	●	2P	-	<b>477006</b>	1
	50-60Hz	24V	●	3P	-	<b>477066</b>	1
	50-60Hz	42V	○	2P	12	<b>477106</b>	1
32	50-60Hz	42V	○	3P	12	<b>477116</b>	1
	100-200Hz	24-42V	●	2P	4	<b>477016</b>	1
	100-200Hz	24-42V	●	3P	4	<b>477176</b>	1
	DC	24-42V	○	2P	10	<b>477606</b>	1



**Straight mobile plugs for high currents**  
extra low voltage  
50-60Hz IP67

Rated current (A)	Rated voltage	Voltage colour	Poles	h ref.	Palazzoli code	Pack Qty
63	48V	■	2P	1	<b>477951</b>	1
	48V	■	3P	1	<b>477952</b>	1
125	48V	■	3P	1	<b>477955</b>	1



**Straight mobile plugs for twin cable**  
extra low voltage  
50-60Hz IP67

Rated current (A)	Rated voltage	Voltage colour	Poles	h ref.	Palazzoli code	Pack Qty
32	48V	○	2P	12	<b>477107</b>	1
63	48V	■	2P	1	<b>477901</b>	1

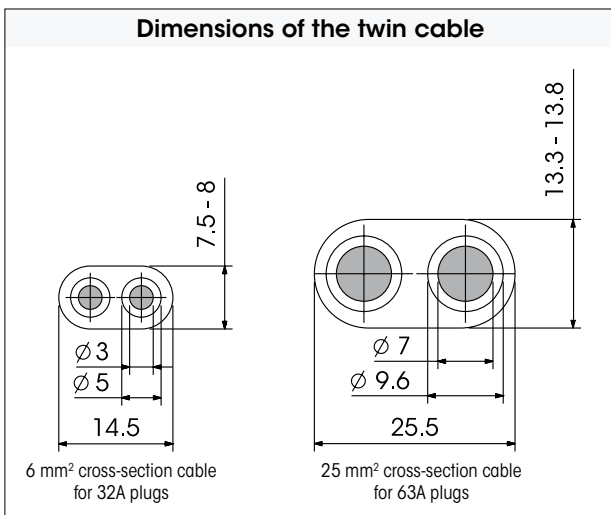


**90° angled wall-mounted fixed plugs**  
extra low voltage  
IP44

Rated current (A)	Frequency	Rated voltage	Voltage colour	Poles	h ref.	Palazzoli code	Pack Qty
16	50-60Hz	24V	■	2P	-	<b>476002</b>	1
	50-60Hz	24V	■	3P	-	<b>476012</b>	1
	50-60Hz	42V	○	2P	12	<b>476102</b>	1
	50-60Hz	42V	○	3P	12	<b>476112</b>	1
	100-200Hz	24-42V	■	2P	4	<b>476042</b>	1
	100-200Hz	24-42V	■	3P	4	<b>476142</b>	1
	DC	24-42V	○	2P	10	<b>476602</b>	1
	50-60Hz	24V	■	2P	-	<b>476005</b>	1
	50-60Hz	24V	■	3P	-	<b>476015</b>	1
	50-60Hz	42V	○	2P	12	<b>476105</b>	1
32	50-60Hz	42V	○	3P	12	<b>476115</b>	1
	100-200Hz	24-42V	■	2P	4	<b>476045</b>	1
	100-200Hz	24-42V	■	3P	4	<b>476145</b>	1
	DC	24-42V	○	2P	10	<b>476605</b>	1

Equipment included : cable gland Pg21.

**Dimensions of the twin cable**





**Straight mobile socket-outlets**  
extra low voltage  
**IP44**

Rated current (A)	Frequency	Rated voltage	Voltage colour	Poles	h ref.	Palazzoli code	Pack Qty
16	50-60Hz	24V	●	2P	-	<b>473002</b>	1
	50-60Hz	24V	●	3P	-	<b>473062</b>	1
	50-60Hz	42V	○	2P	12	<b>473102</b>	1
	50-60Hz	42V	○	3P	12	<b>473112</b>	1
	100-200Hz	24-42V	●	2P	4	<b>473012</b>	1
	100-200Hz	24-42V	●	3P	4	<b>473122</b>	1
	DC	24-42V	○	2P	10	<b>473602</b>	1
32	50-60Hz	24V	●	2P	-	<b>473005</b>	1
	50-60Hz	24V	●	3P	-	<b>473065</b>	1
	50-60Hz	42V	○	2P	12	<b>473105</b>	1
	50-60Hz	42V	○	3P	12	<b>473115</b>	1
	100-200Hz	24-42V	●	2P	4	<b>473015</b>	1
	100-200Hz	24-42V	●	3P	4	<b>473125</b>	1
	DC	24-42V	○	2P	10	<b>473605</b>	1



**Straight mobile socket-outlets**  
extra low voltage  
**IP67**

Rated current (A)	Frequency	Rated voltage	Voltage colour	Poles	h ref.	Palazzoli code	Pack Qty
16	50-60Hz	24V	●	2P	-	<b>473003</b>	1
	50-60Hz	24V	●	3P	-	<b>473063</b>	1
	50-60Hz	42V	○	2P	12	<b>473103</b>	1
	50-60Hz	42V	○	3P	12	<b>473113</b>	1
	100-200Hz	24-42V	●	2P	4	<b>473013</b>	1
	100-200Hz	24-42V	●	3P	4	<b>473123</b>	1
	DC	24-42V	○	2P	10	<b>473603</b>	1
32	50-60Hz	24V	●	2P	-	<b>473006</b>	1
	50-60Hz	24V	●	3P	-	<b>473066</b>	1
	50-60Hz	42V	○	2P	12	<b>473106</b>	1
	50-60Hz	42V	○	3P	12	<b>473116</b>	1
	100-200Hz	24-42V	●	2P	4	<b>473016</b>	1
	100-200Hz	24-42V	●	3P	4	<b>473126</b>	1
	DC	24-42V	○	2P	10	<b>473606</b>	1



**Straight mobile socket-outlets**  
for **high currents**  
extra low voltage  
50-60Hz **IP67**

Rated current (A)	Rated voltage	Voltage colour	Poles	h ref.	Palazzoli code	Pack Qty
63	48V	●	2P	1	<b>473951</b>	1
	48V	●	3P	1	<b>473952</b>	1
125	48V	●	3P	1	<b>473955</b>	1



**Straight mobile socket-outlets**  
for **twin cable**  
extra low voltage  
50-60Hz **IP67**

Rated current (A)	Rated voltage	Voltage colour	Poles	h ref.	Palazzoli code	Pack Qty
32	48V	●	2P	12	<b>473107</b>	1
63	48V	●	2P	1	<b>473901</b>	1



**90° angled**  
**wall-mounted socket-outlets**  
extra low voltage  
**IP44**

Rated current (A)	Frequency	Rated voltage	Voltage colour	Poles	h ref.	Palazzoli code	Pack Qty
16	50-60Hz	24V	●	2P	-	<b>471002</b>	1
	50-60Hz	24V	●	3P	-	<b>471012</b>	1
	50-60Hz	42V	○	2P	12	<b>471102</b>	1
	50-60Hz	42V	○	3P	12	<b>471112</b>	1
	100-200Hz	24-42V	●	2P	4	<b>471011</b>	1
	100-200Hz	24-42V	●	3P	4	<b>471151</b>	1
	DC	24-42V	○	2P	10	<b>471602</b>	1
32	50-60Hz	24V	●	2P	-	<b>471005</b>	1
	50-60Hz	24V	●	3P	-	<b>471015</b>	1
	50-60Hz	42V	○	2P	12	<b>471105</b>	1
	50-60Hz	42V	○	3P	12	<b>471115</b>	1
	100-200Hz	24-42V	●	2P	4	<b>471018</b>	1
	100-200Hz	24-42V	●	3P	4	<b>471019</b>	1
	DC	24-42V	○	2P	10	<b>471605</b>	1

Equipment included: cable gland Pg21.





**Straight flush-mounted socket-outlets**  
extra low voltage  
**IP44**

Rated current (A)	Frequency	Rated voltage	Voltage colour	Poles	h ref.	Palazzoli code	Pack Qty
16	50-60Hz	24V	●	2P	-	<b>471032</b>	1
	50-60Hz	24V	●	3P	-	<b>471042</b>	1
	50-60Hz	42V	○	2P	12	<b>471132</b>	1
	50-60Hz	42V	○	3P	12	<b>471142</b>	1
	100-200Hz	24-42V	●	2P	4	<b>471051</b>	1
	100-200Hz	24-42V	●	3P	4	<b>471022</b>	1
32	DC	24-42V	○	2P	10	<b>471632</b>	1
	50-60Hz	24V	●	2P	-	<b>471035</b>	1
	50-60Hz	24V	●	3P	-	<b>471045</b>	1
	50-60Hz	42V	○	2P	12	<b>471135</b>	1
	50-60Hz	42V	○	3P	12	<b>471145</b>	1
	100-200Hz	24-42V	●	2P	4	<b>471108</b>	1
	100-200Hz	24-42V	●	3P	4	<b>471118</b>	1
	DC	24-42V	○	2P	10	<b>471635</b>	1



**Straight flush-mounted socket-outlets**  
extra low voltage  
**IP67**

Rated current (A)	Frequency	Rated voltage	Voltage colour	Poles	h ref.	Palazzoli code	Pack Qty
16	50-60Hz	24V	●	2P	-	<b>471003</b>	1
	50-60Hz	24V	●	3P	-	<b>471063</b>	1
	50-60Hz	42V	○	2P	12	<b>471103</b>	1
	50-60Hz	42V	○	3P	12	<b>471113</b>	1
	100-200Hz	24-42V	●	2P	4	<b>471013</b>	1
	100-200Hz	24-42V	●	3P	4	<b>471123</b>	1
32	DC	24-42V	○	2P	10	<b>471603</b>	1
	50-60Hz	24V	●	2P	-	<b>471007</b>	1
	50-60Hz	24V	●	3P	-	<b>471067</b>	1
	50-60Hz	42V	○	2P	12	<b>471107</b>	1
	50-60Hz	42V	○	3P	12	<b>471117</b>	1
	100-200Hz	24-42V	●	2P	4	<b>471017</b>	1
	100-200Hz	24-42V	●	3P	4	<b>471177</b>	1
	DC	24-42V	○	2P	10	<b>471607</b>	1



**Straight flush-mounted socket-outlets**  
for **high currents**  
extra low voltage  
50-60Hz **IP67**

Rated current (A)	Rated voltage	Voltage colour	Poles	h ref.	Palazzoli code	Pack Qty
63	48V	●	2P	1	<b>473971</b>	1
	48V	●	3P	1	<b>473972</b>	1
125	48V	●	3P	1	<b>473975</b>	1



**20° angled flush-mounted socket-outlets**  
extra low voltage  
**IP44**

Rated current (A)	Frequency	Rated voltage	Voltage colour	Poles	h ref.	Palazzoli code	Pack Qty
16	50-60Hz	24V	●	2P	-	<b>471062</b>	1
	50-60Hz	24V	●	3P	-	<b>471072</b>	1
	50-60Hz	42V	○	2P	12	<b>471162</b>	1
	50-60Hz	42V	○	3P	12	<b>471172</b>	1
	100-200Hz	24-42V	●	2P	4	<b>471111</b>	1
	100-200Hz	24-42V	●	3P	4	<b>471122</b>	1
32	DC	24-42V	○	2P	10	<b>471662</b>	1
	50-60Hz	24V	●	2P	-	<b>471065</b>	1
	50-60Hz	24V	●	3P	-	<b>471075</b>	1
	50-60Hz	42V	○	2P	12	<b>471165</b>	1
	50-60Hz	42V	○	3P	12	<b>471175</b>	1
	100-200Hz	24-42V	●	2P	4	<b>471058</b>	1
	100-200Hz	24-42V	●	3P	4	<b>471059</b>	1
	DC	24-42V	○	2P	10	<b>471665</b>	1



**15° angled flush-mounted socket-outlets**  
for **high currents**  
extra low voltage  
50-60Hz **IP67**

Rated current (A)	Rated voltage	Voltage colour	Poles	h ref.	Palazzoli code	Pack Qty
63	48V	●	2P	1	<b>473961</b>	1
	48V	●	3P	1	<b>473962</b>	1
125	48V	●	3P	1	<b>473965</b>	1

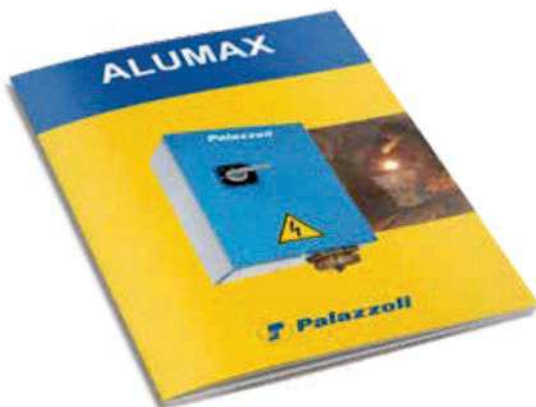


Mobile and flush-mounted sockets and plugs in aluminium alloy for heavy-duty applications, from 250A to 400A with IP67 protection rating, usable with voltage up to 1000V. The aluminium alloy body is reworked with a passivation treatment to improve the resistance to chemical agents. The coupling system of receptacles and plugs makes use of the Easy Contact technology for maximum contact performance over time and ensures easier connection and disconnection operations. Each connection is provided with a double pilot contact.

Compliance with standards	<b>IEC/EN 60309-1</b>
Material	<b>Aluminium alloy</b>
Surface treatment	<b>Anti-corrosion passivation</b>
Protection rating (IP according to IEC/EN 60529)	<b>IP67</b>
Colour	<b>Natural</b>
Impact resistance (IK grade according to IEC/EN 62262)	<b>IK10</b>
Rated current	<b>250A - 400A</b>
Operating voltage	<b>Up to 1000V</b>
Operating frequency	<b>50-60Hz</b>
Insulation voltage	<b>3.3 KV</b>
Diameter of cable entry for mobile connections	<b>62mm (250A) 80mm (320A-400A)</b>
Clamping range for receptacles and pins	<b>250A: 50mm<sup>2</sup> - 70mm<sup>2</sup> 320A: 120mm<sup>2</sup> 400A: 150mm<sup>2</sup></b>
Pilot contacts	<b>2</b>
Pilot contacts clamping section	<b>2.5mm<sup>2</sup></b>
Operating temperature	<b>-30°C - +60°C</b>

**ALUMAX BROCHURE**

The Alamax brochure can be viewed and downloaded from [www.palazzoli.com](http://www.palazzoli.com)



**Resistance to chemical agents**

WATER	SALINE SOLUTION	ACIDS		BASES		SOLVENTS			
		CONCENTRATED	DILUTED	CONCENTRATED	DILUTED	ALCOHOL	ACETONE	PERCHLORO-ETHYLENE	BENZENE
↑	↑	↓	→	→	↑	↑	↑	↑	↑
OILS		FATS		AMMONIA	OXIDISERS	INORGANIC SALTS	GASOLINE	DETERGENTS	U.V. RAYS
MINERAL	VEGETABLE	ANIMAL	SYNTHETIC						
↑	↑	↑	↑	↑	→	↑	↑	↑	↑

Legend: ↑ high resistance    → partial resistance    ↓ low resistance



**Straight mobile plugs**  
in aluminium alloy  
for **high amperages**  
50-60Hz **IP67**



Rated current (A)	Poles	No. of pilot contacts (mm <sup>2</sup> )	Palazzoli code	Pack Qty
250	3P+⊕	2x10	<b>750530</b>	1
	3P+N+⊕	2x6	<b>750550</b>	1
320	3P+N+⊕	2x6	<b>750650</b>	1
400	3P+N+⊕	2x6	<b>750750</b>	1

**Note:** up to 660A available on request.

**Technical accessories:**



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**Straight flush-mounted inlets**  
in aluminium alloy  
for **high amperages**  
50-60Hz **IP67**



Rated current (A)	Poles	No. of pilot contacts (mm <sup>2</sup> )	Palazzoli code	Pack Qty
250	3P+⊕	2x10	<b>751530</b>	1
	3P+N+⊕	2x6	<b>751550</b>	1
320	3P+N+⊕	2x6	<b>751650</b>	1
400	3P+N+⊕	2x6	<b>751750</b>	1

**Note:** up to 660A available on request.

**Straight mobile socket-outlets**  
in aluminium alloy  
for **high amperages**  
50-60Hz **IP67**



Rated current (A)	Poles	No. of pilot contacts (mm <sup>2</sup> )	Palazzoli code	Pack Qty
250	3P+⊕	2x10	<b>760530</b>	1
	3P+N+⊕	2x6	<b>760550</b>	1
320	3P+N+⊕	2x6	<b>760650</b>	1
400	3P+N+⊕	2x6	<b>760750</b>	1

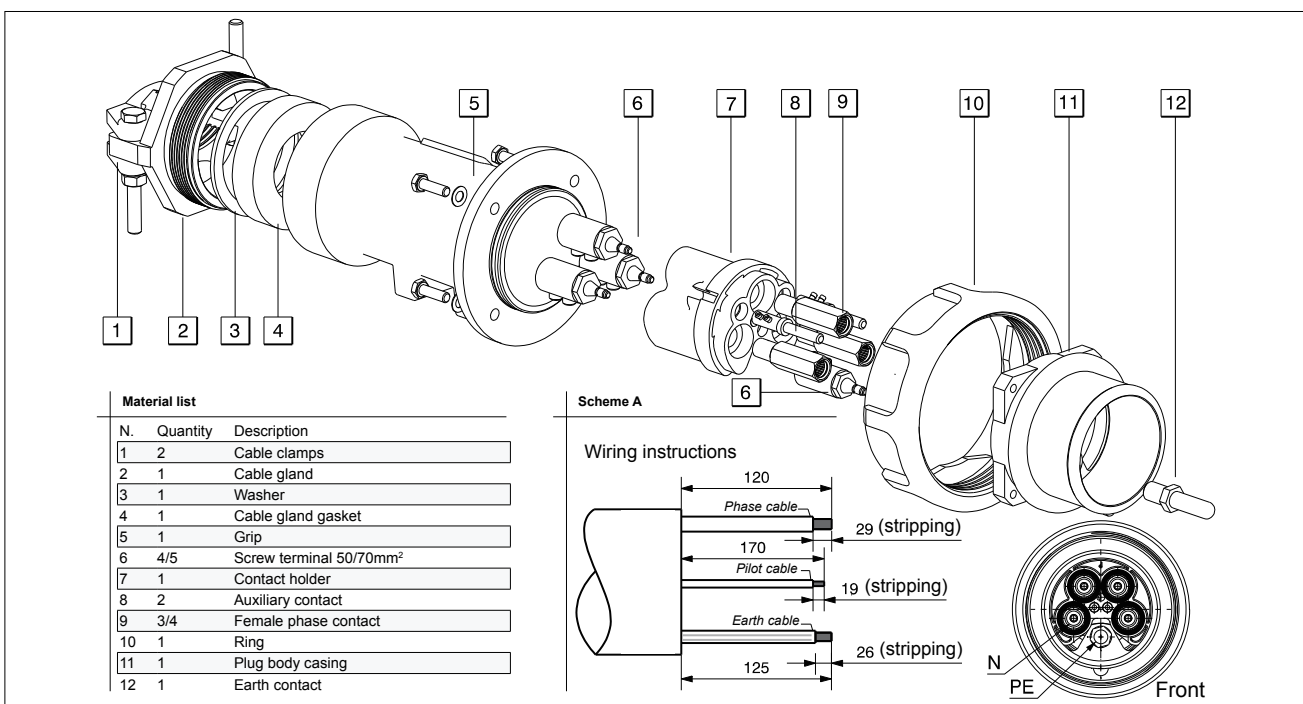
**Note:** up to 660A available on request.

**Straight flush-mounted socket-outlets**  
in aluminium alloy  
for **high amperages**  
50-60Hz **IP67**



Rated current (A)	Poles	No. of pilot contacts (mm <sup>2</sup> )	Palazzoli code	Pack Qty
250	3P+⊕	2x10	<b>761530</b>	1
	3P+N+⊕	2x6	<b>761550</b>	1
320	3P+N+⊕	2x6	<b>761650</b>	1
400	3P+N+⊕	2x6	<b>761750</b>	1

**Note:** up to 660A available on request.







# INTERLOCKED SOCKET-OUTLETS AND ROTOSWITCHES

For standard and heavy-duty applications



## topTER

interlocked socket-outlets  
for distribution boards

page 66



## PRIMA

compact horizontal  
interlocked socket-outlets

page 78



## X-CEE

mobile sockets  
with rotoswitch

page 86



## X-CEE

sockets for panel-mounting and  
wall-mounting with rotoswitch

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# INTERLOCKED SOCKET-OUTLETS

For heavy-duty applications



## TAIS

interlocked socket-outlets  
with increased safety  
in thermosetting GRP

page 92



## ULYSSE

pre-wired quick-mounting  
interlocked socket-outlets  
in thermosetting GRP

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## ALUPRES

high-resistance aluminium  
interlocked socket-outlets

page 114



## ALUMAX

sockets with electric interlock  
for high amperages

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# INTERLOCKED SOCKET-OUTLETS IN THERMOPLASTIC MATERIAL

## FROM 16A TO 125A

Rated current (A)	Rated voltage (V)	Poles	h ref.	topTER series				PRIMA series			
				Direct supply IP44	With fuses IP44	Direct supply IP66/IP67	With fuses IP66/IP67	Direct supply IP44	With fuses IP44	Direct supply IP55	With fuses IP55
16	110 100-130	2P+⊕	4	<b>492124</b>	<b>190124</b>	<b>491124</b>	<b>490124</b>	<b>493124</b>	<b>494124</b>	<b>495124</b>	<b>496124</b>
		3P+⊕	4			<b>491134</b>	<b>490134</b>			<b>495134</b>	<b>496134</b>
		3P+N+⊕	4			<b>491144</b>	<b>490144</b>			<b>495144</b>	<b>496144</b>
	230 200-250	2P+⊕	6	<b>492126</b>	<b>190126</b>	<b>491126</b>	<b>490126</b>	<b>493126</b>	<b>494126</b>	<b>495126</b>	<b>496126</b>
		3P+⊕	9			<b>491139</b>	<b>490139</b>			<b>495139</b>	<b>496139</b>
		3P+N+⊕	9			<b>491149</b>	<b>490149</b>			<b>495149</b>	<b>496149</b>
	400 380-415	2P+⊕	9			<b>491129</b>	<b>490129</b>			<b>495129</b>	<b>496129</b>
		3P+⊕	6	<b>492136</b>	<b>190136</b>	<b>491136</b>	<b>490136</b>	<b>493136</b>	<b>494136</b>	<b>495136</b>	<b>496136</b>
		3P+N+⊕	6	<b>492146</b>	<b>190146</b>	<b>491146</b>	<b>490146</b>	<b>493146</b>	<b>494146</b>	<b>495146</b>	<b>496146</b>
	500 480-500	3P+⊕	7								
		3P+N+⊕	7								
	32	110 100-130	2P+⊕	4			<b>491224</b>	<b>490224</b>			<b>495224</b>
3P+⊕			4			<b>491234</b>	<b>490234</b>			<b>495234</b>	<b>496234</b>
3P+N+⊕			4			<b>491244</b>	<b>490244</b>			<b>495244</b>	<b>496244</b>
230 200-250		2P+⊕	6	<b>492226</b>	<b>190226</b>	<b>491226</b>	<b>490226</b>	<b>493226</b>	<b>494226</b>	<b>495226</b>	<b>496226</b>
		3P+⊕	9			<b>491239</b>	<b>490239</b>			<b>495239</b>	<b>496239</b>
		3P+N+⊕	9			<b>491249</b>	<b>490249</b>			<b>495249</b>	<b>496249</b>
400 380-415		2P+⊕	9			<b>491229</b>	<b>490229</b>			<b>495229</b>	<b>496229</b>
		3P+⊕	6	<b>492236</b>	<b>190236</b>	<b>491236</b>	<b>490236</b>	<b>493236</b>	<b>494236</b>	<b>495236</b>	<b>496236</b>
		3P+N+⊕	6	<b>492246</b>	<b>190246</b>	<b>491246</b>	<b>490246</b>	<b>493246</b>	<b>494246</b>	<b>495246</b>	<b>496246</b>
500 480-500		3P+⊕	7								
		3P+N+⊕	7								
380-440		3P+⊕	3			<b>491233</b>	<b>490233</b>			<b>495233</b>	<b>496233</b>
63	110 100-130	2P+⊕	4			<b>481324</b>	<b>480324</b>				
		3P+⊕	4			<b>481334</b>	<b>480334</b>				
		3P+N+⊕	4			<b>481344</b>	<b>480344</b>				
	230 200-250	2P+⊕	6			<b>481326</b>	<b>480326</b>				
		3P+⊕	9			<b>481339</b>	<b>480339</b>				
		3P+N+⊕	9			<b>481349</b>	<b>480349</b>				
	400 380-415	2P+⊕	9			<b>481329</b>	<b>480329</b>				
		3P+⊕	6			<b>481336</b>	<b>480336</b>				
		3P+N+⊕	6			<b>481346</b>	<b>480346</b>				
	500 480-500	3P+⊕	7								
		3P+N+⊕	7								
	125	400 380-415	3P+⊕	6							
3P+N+⊕			6								
500 480-500		3P+⊕	7								
		3P+N+⊕	7								

### EXTRA LOW VOLTAGE









Rated current (A)	Rated voltage (V)	Poles	h ref.	topTER series		PRIMA series	
				Self-protected with transformer 150VA IP66/IP67	Self-protected with transformer 150VA IP55		
16	230/24	2P	-	<b>490024</b>	<b>496024</b>		





# INTERLOCKED SOCKET-OUTLETS IN TECHNOPOLYMER

## FROM 16A TO 125A

				X-CEE series				X-CEE series - Compositions			
Rated current (A)	Rated voltage (V)	Poles	h ref.								
				Rotoswitched couplers IP66/IP67/IP69	Straight panel-mounted rotoswitched IP66/IP67/IP69	20° angled panel-mounted rotoswitched IP66/IP67/IP69	65° angled wall-mounted rotoswitched IP66/IP67/IP69	Rotoswitched sockets IP66/IP67/IP69	Straight panel-mounted flanges IP66/IP67/IP68/IP69	20° angled panel-mounted flanges IP66/IP67/IP68/IP69	65° angled wall-mounted boxes IP66/IP67/IP68/IP69
16	110 100-130	2P+⊕	4	<b>410124</b>				<b>419124</b>	<b>419021</b>	<b>419031</b>	<b>532131</b>
		3P+⊕	4	<b>410134</b>				<b>419134</b>	<b>419022</b>	<b>419032</b>	<b>532131</b>
		3P+N+⊕	4	<b>410144</b>				<b>419144</b>	<b>419023</b>	<b>419033</b>	<b>532131</b>
	230 200-250	2P+⊕	6	<b>410126</b>	<b>412126</b>	<b>413126</b>	<b>416126</b>	<b>419126</b>	<b>419021</b>	<b>419031</b>	<b>532131</b>
		3P+⊕	9	<b>410139</b>				<b>419139</b>	<b>419022</b>	<b>419032</b>	<b>532131</b>
		3P+N+⊕	9	<b>410149</b>				<b>419149</b>	<b>419023</b>	<b>419033</b>	<b>532131</b>
	400 380-415	2P+⊕	9	<b>410129</b>				<b>419129</b>	<b>419021</b>	<b>419031</b>	<b>532131</b>
		3P+⊕	6	<b>410136</b>	<b>412136</b>	<b>413136</b>	<b>416136</b>	<b>419136</b>	<b>419022</b>	<b>419032</b>	<b>532131</b>
		3P+N+⊕	6	<b>410146</b>	<b>412146</b>	<b>413146</b>	<b>416146</b>	<b>419146</b>	<b>419023</b>	<b>419033</b>	<b>532131</b>
	500 480-500	3P+⊕	7	<b>410137</b>				<b>419137</b>	<b>419022</b>	<b>419032</b>	<b>532131</b>
		3P+N+⊕	7	<b>410147</b>				<b>419147</b>	<b>419023</b>	<b>419033</b>	<b>532131</b>
	32	110 100-130	2P+⊕	4	<b>410224</b>	<b>412224</b>	<b>413224</b>	<b>416224</b>	<b>419224</b>	<b>419023</b>	<b>419033</b>
3P+⊕			4	<b>410234</b>				<b>419234</b>	<b>419023</b>	<b>419033</b>	<b>532131</b>
3P+N+⊕			4	<b>410244</b>				<b>419244</b>	<b>419024</b>	<b>419034</b>	<b>532132</b>
230 200-250		2P+⊕	6	<b>410226</b>	<b>412226</b>	<b>413226</b>	<b>416226</b>	<b>419226</b>	<b>419023</b>	<b>419033</b>	<b>532131</b>
		3P+⊕	9	<b>410239</b>				<b>419239</b>	<b>419023</b>	<b>419033</b>	<b>532131</b>
		3P+N+⊕	9	<b>410249</b>				<b>419249</b>	<b>419024</b>	<b>419034</b>	<b>532132</b>
400 380-415		2P+⊕	9	<b>410229</b>				<b>419229</b>	<b>419023</b>	<b>419033</b>	<b>532131</b>
		3P+⊕	6	<b>410236</b>	<b>412236</b>	<b>413236</b>	<b>416236</b>	<b>419236</b>	<b>419023</b>	<b>419033</b>	<b>532131</b>
		3P+N+⊕	6	<b>410246</b>	<b>412246</b>	<b>413246</b>	<b>416246</b>	<b>419246</b>	<b>419024</b>	<b>419034</b>	<b>532132</b>
500 480-500		3P+⊕	7	<b>410237</b>				<b>419237</b>	<b>419023</b>	<b>419033</b>	<b>532131</b>
		3P+N+⊕	7	<b>410247</b>				<b>419247</b>	<b>419024</b>	<b>419034</b>	<b>532132</b>
380-440		3P+⊕	3	<b>410233</b>	<b>412233</b>			<b>419233</b>	<b>419023</b>	<b>419033</b>	<b>532131</b>
63	110 100-130	2P+⊕	4	<b>410324</b>				<b>419324</b>	<b>419025</b>	<b>419035</b>	<b>532132</b>
		3P+⊕	4	<b>410334</b>				<b>419334</b>	<b>419025</b>	<b>419035</b>	<b>532132</b>
		3P+N+⊕	4	<b>410344</b>				<b>419344</b>	<b>419025</b>	<b>419035</b>	<b>532132</b>
	230 200-250	2P+⊕	6	<b>410326</b>	<b>412326</b>	<b>413326</b>	<b>416326</b>	<b>419326</b>	<b>419025</b>	<b>419035</b>	<b>532132</b>
		3P+⊕	9	<b>410339</b>				<b>419339</b>	<b>419025</b>	<b>419035</b>	<b>532132</b>
		3P+N+⊕	9	<b>410349</b>				<b>419349</b>	<b>419025</b>	<b>419035</b>	<b>532132</b>
	400 380-415	2P+⊕	9	<b>410329</b>				<b>419329</b>	<b>419025</b>	<b>419035</b>	<b>532132</b>
		3P+⊕	6	<b>410336</b>	<b>412336</b>	<b>413336</b>	<b>416336</b>	<b>419336</b>	<b>419025</b>	<b>419035</b>	<b>532132</b>
		3P+N+⊕	6	<b>410346</b>	<b>412346</b>	<b>413346</b>	<b>416346</b>	<b>419346</b>	<b>419025</b>	<b>419035</b>	<b>532132</b>
	500 480-500	3P+⊕	7	<b>410337</b>				<b>419337</b>	<b>419025</b>	<b>419035</b>	<b>532132</b>
		3P+N+⊕	7	<b>410347</b>				<b>419347</b>	<b>419025</b>	<b>419035</b>	<b>532132</b>
	125	400 380-415	3P+⊕	6	<b>410436</b>	<b>412436</b>	<b>413436</b>	<b>416436</b>	<b>419436</b>	<b>419026</b>	<b>419036</b>
3P+N+⊕			6	<b>410446</b>	<b>412446</b>	<b>413446</b>	<b>416446</b>	<b>419446</b>	<b>419026</b>	<b>419036</b>	<b>532133</b>
500 480-500		3P+⊕	7	<b>410437</b>				<b>419437</b>	<b>419026</b>	<b>419036</b>	<b>532133</b>
		3P+N+⊕	7	<b>410447</b>				<b>419447</b>	<b>419026</b>	<b>419036</b>	<b>532133</b>



### The rotoswitch inserts can be installed:

- on straight or angled panel-mounted flanges
- in boxes by using straight or angled flanges to achieve 65° or 85° angled devices and reduce overall dimensions



# INTERLOCKED SOCKET-OUTLETS IN THERMOSETTING GRP MATERIAL FROM 16A TO 125A

Rated current (A)	Rated voltage (V)	Poles	h ref.	TAIS series									
				With fuses module 95 IP66/IP67	With fuses module 125 IP67	Direct supply module 95 IP66/IP67	Direct supply module 125 IP67	With MCB IP67	With DIN rail IP67	With electric interlock IP65	With electric interlock and RCD IP65		
16	110 100-130	2P+⊕	4	<b>472610</b>				<b>467124</b>	<b>474210</b>				
		3P+⊕	4	<b>472710</b>					<b>474310</b>				
		3P+N+⊕	4	<b>472810</b>					<b>474410</b>				
	230 200-250	2P+⊕	6	<b>472620</b>		<b>470126</b>	<b>467126</b>	<b>474220</b>	<b>472020</b>				
		3P+⊕	9	<b>472720</b>				<b>474320</b>					
		3P+N+⊕	9	<b>472820</b>				<b>474420</b>					
	400 380-415	2P+⊕	9	<b>472630</b>				<b>474230</b>					
		3P+⊕	6	<b>472730</b>		<b>470136</b>	<b>467136</b>	<b>474330</b>	<b>472130</b>				
		3P+N+⊕	6	<b>472830</b>		<b>470146</b>	<b>467146</b>	<b>474430</b>	<b>472240</b>				
	500 480-500	3P+⊕	7	<b>472750</b>									
		3P+N+⊕	7	<b>472840</b>									
	32	110 100-130	2P+⊕	4	<b>468224</b>	<b>472611</b>				<b>474611</b>			
3P+⊕			4	<b>468234</b>	<b>472711</b>				<b>474711</b>				
3P+N+⊕			4		<b>472811</b>				<b>474811</b>				
230 200-250		2P+⊕	6	<b>468226</b>	<b>472621</b>	<b>469226</b>	<b>470226</b>	<b>474621</b>	<b>472021</b>				
		3P+⊕	9	<b>468239</b>	<b>472721</b>			<b>474721</b>					
		3P+N+⊕	9		<b>472821</b>			<b>474821</b>					
400 380-415		2P+⊕	9	<b>468226</b>	<b>472631</b>			<b>474631</b>					
		3P+⊕	6	<b>468236</b>	<b>472731</b>	<b>469236</b>	<b>470236</b>	<b>474731</b>	<b>472131</b>				
		3P+N+⊕	6		<b>472831</b>		<b>470246</b>	<b>474831</b>	<b>472241</b>				
500 480-500		3P+⊕	7	<b>472751</b>									
		3P+N+⊕	7	<b>472841</b>									
63		110 100-130	2P+⊕	4		<b>472612</b>			<b>474612</b>				
	3P+⊕		4		<b>472712</b>			<b>474712</b>					
	3P+N+⊕		4		<b>472812</b>			<b>474812</b>					
	230 200-250	2P+⊕	6		<b>472622</b>		<b>470326</b>	<b>474622</b>	<b>472022</b>				
		3P+⊕	9		<b>472722</b>			<b>474722</b>					
		3P+N+⊕	9		<b>472822</b>			<b>474822</b>					
	400 380-415	2P+⊕	9		<b>472632</b>			<b>474632</b>					
		3P+⊕	6		<b>472732</b>		<b>470336</b>	<b>474732</b>	<b>472132</b>	<b>478336</b>	<b>476336</b>		
		3P+N+⊕	6		<b>472832</b>		<b>470346</b>	<b>474832</b>	<b>472242</b>	<b>478346</b>	<b>476346</b>		
	500 480-500	3P+⊕	7		<b>472752</b>					<b>478337</b>	<b>476337</b>		
		3P+N+⊕	7		<b>472842</b>					<b>478347</b>	<b>476347</b>		
	125	400 380-415	3P+⊕	6						<b>478436</b>	<b>476436</b>		
3P+N+⊕			6						<b>478446</b>	<b>476446</b>			
500 480-500		3P+⊕	7						<b>478437</b>	<b>476437</b>			
		3P+N+⊕	7						<b>478447</b>	<b>476447</b>			

## EXTRA LOW VOLTAGE

Rated current (A)	Rated voltage (V)	Poles	h ref.	TAIS series		
				Self-protected with transformer 150VA IP67	With transformer and fuses 144VA IP67	With transformer and fuses 750VA IP67
16	230/24	2P	-	<b>469873</b>	<b>471873</b>	
	400/24				<b>471893</b>	
32	230/48	2P	-			<b>471819</b>
	400/48					<b>471839</b>





# INTERLOCKED SOCKET-OUTLETS IN THERMOSETTING GRP MATERIAL AND ALUMINIUM FROM 16A TO 125A

Rated current (A)	Poles	h ref.	ULYSSE series				ALUPRES series							
			With fuses IP66/IP67	With MCB IP66/IP67	With DIN rail IP66/IP67	Direct supply IP66/IP67	With fuses IP67	Direct supply IP67	With MCB IP67	With DIN rail IP67	With electric interlock and RCD IP55	With electric interlock and RCD IP55		
16	2P+≋	4	400124	403124			472233		474633					
	3P+≋	4	400134	403134			472243		474643					
	3P+N+≋	4	400144	403144			472253		474653					
	2P+≋	6	400126	403126	406126	408126	472333	466126	474733	472623				
	3P+≋	9	400139	403139			472343		474743					
	3P+N+≋	9	400149	403149			472353		474753					
	2P+≋	9	400129	403129			472433		474833					
	3P+≋	6	400136	403136	406136	408136	472443	466136	474843	472733				
	3P+N+≋	6	400146	403146	406146	408146	472453	466146	474853	472843				
3P+≋	7	400137				472543								
3P+N+≋	7	400147				472543								
32	2P+≋	4	400224	403224			472236		474236					
	3P+≋	4	400234	403234			472246		474246					
	3P+N+≋	4	400244	403244			472256		474256					
	2P+≋	6	400226	403226	406226	408226	472336	460226	474336	472624				
	3P+≋	9	400239	403239			472346		474346					
	3P+N+≋	9	400249	403249			472356		474356					
	2P+≋	9	400229	403229			472436		474436					
	3P+≋	6	400236	403236	406236	408236	472446	460236	474446	472734				
	3P+N+≋	6	400246	403246	406246	408246	472456	460246	474456	472844				
	3P+≋	7	400237				472546							
	3P+N+≋	7	400247				472556							
3P+≋	3	400233	403233	406233	408233	472486		474486	472735					
63	2P+≋	4	400324	403324			472237		474237					
	3P+≋	4	400334	403334			472247		474247					
	3P+N+≋	4	400344	403344			472257		474257					
	2P+≋	6	400326	403326	406326	408326	472337	460326	474337	472027				
	3P+≋	9	400339	403339			472347		474347					
	3P+N+≋	9	400349	403349			472357		474357					
	2P+≋	9	400329	403329			472437		474437					
	3P+≋	6	400336	403336	406336	408336	472447	460336	474447	472137	475336	473336		
	3P+N+≋	6	400346	403346	406346	408346	472457	460346	474457	472647	475346	473346		
	3P+≋	7	400337				472547	472547			475337	473337		
3P+N+≋	7	400347				472557	472557			475347	473347			
125	3P+≋	6					472418	460436		472648	475436	473436		
	3P+N+≋	6					472428	460446		472649	475446	473446		
	3P+≋	7					472518				475437	473437		
	3P+N+≋	7					472528				475447	473447		

## EXTRA LOW VOLTAGE

ULYSSE series



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Rated current (A)	Rated voltage (V)	Poles	h ref.	Self-protected with transformer 150VA IP66/IP67
16	230/24	2P	-	<b>409873</b>

## EXTRA LOW VOLTAGE

ALUPRES series



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page 122

Rated current (A)	Rated voltage (V)	Poles	h ref.	With transformer and fuses 144VA IP67	With transformer and fuses 720VA IP65
16	230/24	2P	-	<b>471812</b>	
	400/24			<b>471832</b>	
32	230/48	2P	-		<b>471818</b>
	400/48				<b>471838</b>

# topTER





## topTER

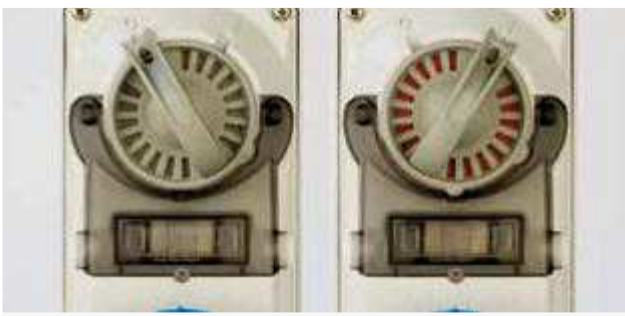
It is equipped with an IP66/IP67 protection system that protects it from water, dust and wear



The socket insert is integrated in the body so that there are no screws that can result in weak points.



The fuse holder base is protected by a door with an ergonomic opening mechanism and indestructible keys. In the closing phase, the lid closes the fuse holders that have remained open.

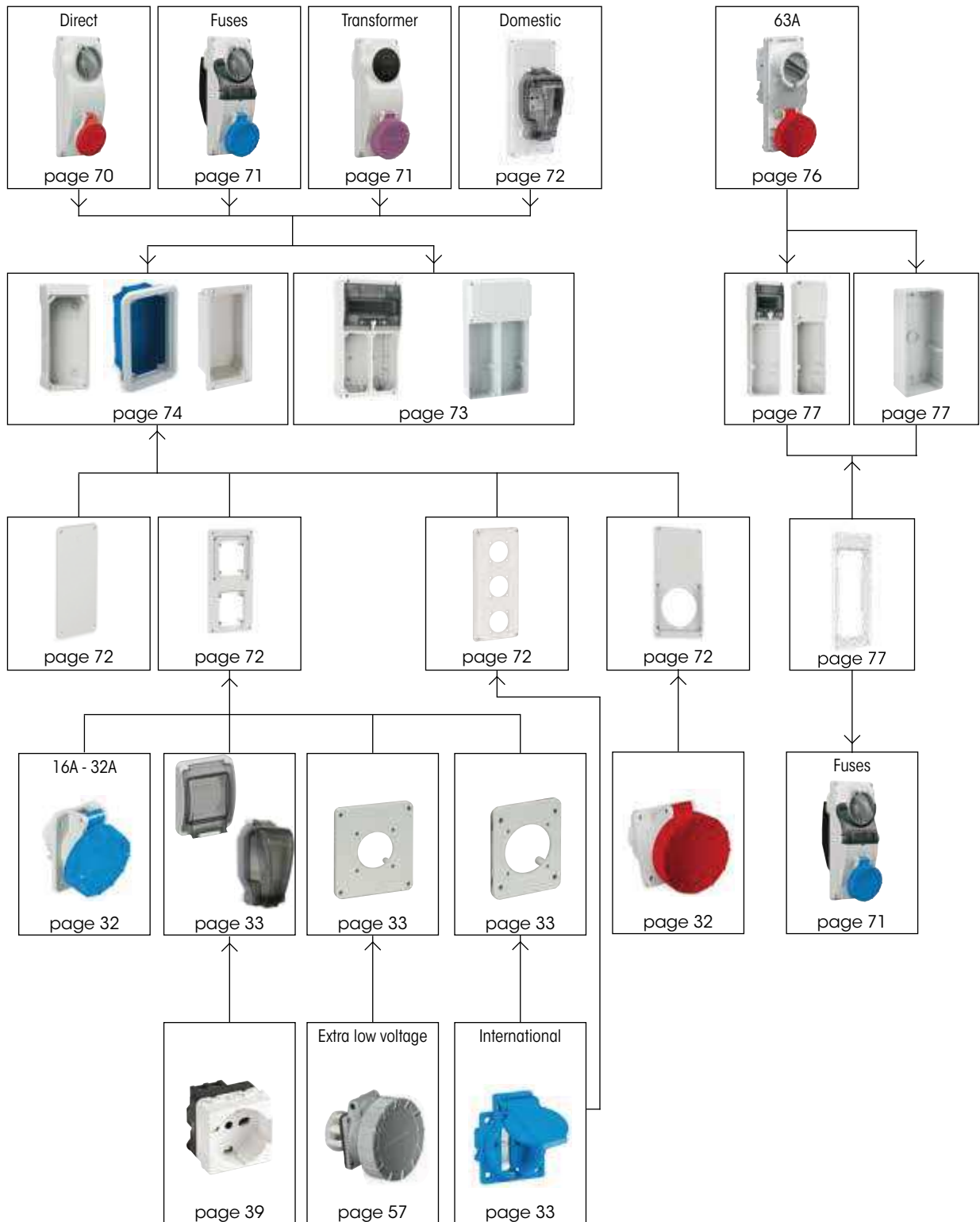


The patented high visibility handle allows even the most inexperienced user to understand the status of the switch at a glance.



The auxiliary contact indicates if the plug is properly plugged in and can be used in electrical and automation safety circuits.

They are suitable for use in supermarkets, hospitals, hotels, kitchens, motorway restaurants, trade fairs, small workshops and generally in all places where accidental stops are absolutely undesirable due to the intense pace of the activities.



The Easy Composer software which enables to easily create customised distribution boards is available on the [www.palazzoli.com](http://www.palazzoli.com) website.





topTER is a series of interlocked socket-outlets. The industrial low voltage interlocked socket-outlets of the topTER series are a range of products made in technopolymer for standard applications, that comply with the IEC/EN 60309-1, IEC/EN 60309-2 and IEC/EN 60309-4 standards.

The system includes 16A and 32A versions, with and without fuses, with IP44 and IP66/IP67 protection ratings and a 24V version with safety transformer. Moreover, it can be perfectly coordinated with the products of the topTER 63A series.

Sockets with fuses can be ordered with a "fuse guard" system that allows to identify in real time the phase where the protection has tripped by means of warning lights. The fuses are housed in extractable trays in the front part of the socket, behind an unbreakable transparent lid which also ensures the perfect closing of the fuse holders.

The interlock system is made with a reinforced technopolymer bracket and the switch disconnecter is certified to the AC3-AC23A category at rated current. The range is completed by wall-mounted and flush-mounted boxes and modular distribution boards.

**Rated operating current:**

			16A	32A
<b>Thermal current Ith</b>		<b>A</b>	<b>16</b>	<b>32</b>
AC21A	415V	A	16	32
	500V			
AC22A	415V	A	16	32
	500V			
AC23A	230V	A	16	32
	400V			
	500V			
AC23A	230V	kW	4.5	8.5
	400V		7.5	15
	500V		8.5	17
AC3	230V	kW	4.5	8.5
	400V		7.5	15
	500V		8.5	17

**Wiring data:**

		16A	32A
Entry cable sections	mm <sup>2</sup>	1 - 10	
Tightening torque	Nm	2	

Compliance with standards	<b>IEC/EN 60309-1 IEC/EN 60309-2 IEC/EN 60309-4 IEC/EN 60947-3</b>
Material	<b>Thermoplastic</b>
Protection rating (IP according to IEC/EN 60529)	<b>IP44 - IP66/IP67</b>
Colour	<b>RAL7035</b>
Resistance to abnormal heat and fire ("Glow Wire" according to IEC/EN 60695-2-10)	<b>960°C (switch) 850°C (socket insert) 650°C (socket body)</b>
Flammability rating (according to UL94)	<b>V0 (switch) V2 (socket insert) HB (socket body)</b>
Impact resistance (IK grade according to IEC/EN 62262)	<b>IK08</b>
Rated current	<b>16A - 32A</b>
Operating voltage	<b>24V - 440V</b>
Operating frequency	<b>50-60Hz</b>
Insulation voltage	<b>690V</b>
Insulation class	<b>II □</b>
Storage temperature	<b>-30°C - +70°C</b>
Operating temperature	<b>-25°C - +50°C</b>

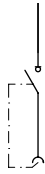
**Resistance to chemical agents**

WATER	SALINE SOLUTION	ACIDS		BASES		SOLVENTS			
		CONCENTRATED	DILUTED	CONCENTRATED	DILUTED	ALCOHOL	ACETONE	PERCHLORO-ETHYLENE	BENZENE
↑	→	→	↑	↑	↑	↑	↑	↑	↓
OILS		FATS		AMMONIA	OXIDISERS	INORGANIC SALTS	GASOLINE	DETERGENTS	U.V. RAYS
MINERAL	VEGETABLE	ANIMAL	SYNTHETIC						
↑	↑	↑	↑	↑	→	↑	↑	↑	↑

Legend: ↑ high resistance    → partial resistance    ↓ low resistance



**Interlocked socket-outlets**  
for distribution boards  
50-60Hz IP44



Rated current (A)	Rated voltage	Voltage colour	Poles	h ref.	Palazzoli code	Pack Qty
16	110V	Yellow	2P+⊕	4	<b>492124</b>	1
	230V	Blue	2P+⊕	6	<b>492126</b>	1
	400V	Red	3P+⊕	6	<b>492136</b>	1
	400V	Red	3P+N+⊕	6	<b>492146</b>	1
32	230V	Blue	2P+⊕	6	<b>492226</b>	1
	400V	Red	3P+⊕	6	<b>492236</b>	1
	400V	Red	3P+N+⊕	6	<b>492246</b>	1

**Equipment included:** 4 stainless steel screws for fastening the item to the distribution board or box.

**Features:** padlockable handle in open or closed position, with max 3 mm Ø padlock. Ready for 2 auxiliary contacts for plug inserted signalling.

**Technical accessories:**



**Interlocked socket-outlets**  
and fuse holder base  
for distribution boards  
50-60Hz IP44



Rated current (A)	Rated voltage	Voltage colour	Poles	h ref.	Palazzoli code	Pack Qty
16 fuses 10.3x38	110V	Yellow	2P+⊕	4	<b>190124</b>	1
	230V	Blue	2P+⊕	6	<b>190126</b>	1
	400V	Red	3P+⊕	6	<b>190136</b>	1
	400V	Red	3P+N+⊕	6	<b>190146</b>	1
32 fuses 10.3x38	230V	Blue	2P+⊕	6	<b>190226</b>	1
	400V	Red	3P+⊕	6	<b>190236</b>	1
	400V	Red	3P+N+⊕	6	<b>190246</b>	1

**Equipment included:** 4 stainless steel screws for fastening the item to the distribution board or box.

**Features:** padlockable handle in open or closed position, with max 3 mm Ø padlock. Ready for 2 auxiliary contacts for plug inserted signalling. Fuses not included.

**Technical accessories:**



**EASY COMPOSER**

Software for the design and cost estimation of thermoplastic distribution boards.



1. Select the socket type



2. Compose the distribution board



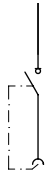
3. Calculate the cost and download the certificates



The software is a free web application available at [www.palazzoli.com](http://www.palazzoli.com)



**Interlocked socket-outlets for distribution boards 50-60Hz IP66/IP67**



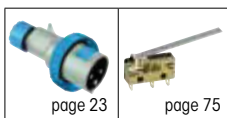
Rated current (A)	Rated voltage	Voltage colour	Poles	h ref.	Palazzoli code	Pack Qty
16	110V	Yellow	2P+⊕	4	<b>491124*</b>	1
	110V	Yellow	3P+⊕	4	<b>491134</b>	1
	110V	Yellow	3P+N+⊕	4	<b>491144</b>	1
	230V	Blue	2P+⊕	6	<b>491126*</b>	1
	230V	Blue	3P+⊕	9	<b>491139</b>	1
	230V	Blue	3P+N+⊕	9	<b>491149</b>	1
	400V	Red	2P+⊕	9	<b>491129</b>	1
	400V	Red	3P+⊕	6	<b>491136*</b>	1
	400V	Red	3P+N+⊕	6	<b>491146*</b>	1
	32	110V	Yellow	2P+⊕	4	<b>491224*</b>
110V		Yellow	3P+⊕	4	<b>491234</b>	1
110V		Yellow	3P+N+⊕	4	<b>491244</b>	1
230V		Blue	2P+⊕	6	<b>491226*</b>	1
230V		Blue	3P+⊕	9	<b>491239</b>	1
230V		Blue	3P+N+⊕	9	<b>491249</b>	1
400V		Red	2P+⊕	9	<b>491229</b>	1
400V		Red	3P+⊕	6	<b>491236*</b>	1
400V		Red	3P+N+⊕	6	<b>491246*</b>	1
380/440V		Red	3P+⊕	3	<b>491233*</b>	1

\* these sockets can also be supplied in a heavy duty HD wall-mounted version. For the code number, replace the 491xxx prefix with 891xxx (e.g. from 491124 to 891124). See page 74 for the code number of the box.

**Equipment included:** 4 stainless steel screws for fastening the item to the distribution board or box.

**Features:** padlockable handle in open or closed position, with max 3 mm Ø padlock. Ready for 2 auxiliary contacts for plug inserted signalling.

**Technical accessories:**



**Interlocked socket-outlets with fuse holder base for distribution boards 50-60Hz IP66/IP67**



Rated current (A)	Rated voltage	Voltage colour	Poles	h ref.	Palazzoli code	Pack Qty
16 fuses 10.3x38	110V	Yellow	2P+⊕	4	<b>490124</b>	1
	110V	Yellow	3P+⊕	4	<b>490134</b>	1
	110V	Yellow	3P+N+⊕	4	<b>490144</b>	1
	230V	Blue	2P+⊕	6	<b>490126</b>	1
	230V	Blue	3P+⊕	9	<b>490139</b>	1
	230V	Blue	3P+N+⊕	9	<b>490149</b>	1
	400V	Red	2P+⊕	9	<b>490129</b>	1
	400V	Red	3P+⊕	6	<b>490136</b>	1
	400V	Red	3P+N+⊕	6	<b>490146</b>	1
	32 fuses 10.3x38	110V	Yellow	2P+⊕	4	<b>490224</b>
110V		Yellow	3P+⊕	4	<b>490234</b>	1
110V		Yellow	3P+N+⊕	4	<b>490244</b>	1
230V		Blue	2P+⊕	6	<b>490226</b>	1
230V		Blue	3P+⊕	9	<b>490239</b>	1
230V		Blue	3P+N+⊕	9	<b>490249</b>	1
400V		Red	2P+⊕	9	<b>490229</b>	1
400V		Red	3P+⊕	6	<b>490236</b>	1
400V		Red	3P+N+⊕	6	<b>490246</b>	1
380/440V		Red	3P+⊕	3	<b>490233</b>	1

**Equipment included:** 4 stainless steel screws for fastening the item to the distribution board or box.

**Features:** padlockable handle in open or closed position, with max 3 mm Ø padlock. Ready for 2 auxiliary contacts for plug inserted signalling. Fuses not included.

**Technical accessories:**

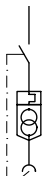


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**Socket with safety transformer (SELV) for distribution boards 50-60Hz IP66/IP67**



Rated current (A)	Rated voltage	Poles	Power (VA)	Palazzoli code	Pack Qty
16	230/24V	2P	150	<b>490024</b>	1

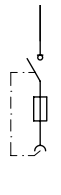
**Equipment included:** 4 stainless steel screws for fastening the item to the distribution board or cap.

**Features:** transformer with built-in thermal protection, enabled by a plug-activated bipolar microswitch.

**Technical accessories:**



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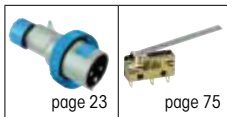
Interlocked socket-outlets fuse holder base and signalling lamp for distribution boards 50-60Hz IP66/IP67

Rated current (A)	Rated voltage	Voltage colour	Poles	h ref.	Palazzoli code	Pack Qty
16 fuses 10.3x38	230V		2P+⊕	6	<b>499126</b>	1
	400V		3P+⊕	6	<b>499136</b>	1
	400V		3P+N+⊕	6	<b>499146</b>	1
32 fuses 10.3x38	230V		2P+⊕	6	<b>499226</b>	1
	400V		3P+⊕	6	<b>499236</b>	1
	400V		3P+N+⊕	6	<b>499246</b>	1

Equipment included: 4 stainless steel screws for fastening the item to the distribution board or box.

Features: fuse holder base with tray and LED indicator for blown fuse. Handle padlockable in open or closed position, with max 3 mm Ø padlock. Fuses not included.

Technical accessories:



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Schuko P17/P30 bivalent domestic socket with watertight cap for plug-in IP66

Description	Flange dimensions (mm)	Pins	Pitch	Type	Palazzoli code	Pack Qty
flange with 1 domestic socket type 2P+⊕ 10/16A P30/P17 230V	103x230	Ø 4/4.8	19	P30/P17	<b>579715</b>	1

Equipment included: 4 stainless steel screws for fastening the item to the distribution board.



Closing flange for distribution boards for topTER sockets with switch IP66/IP67

Dimensions (mm)	Palazzoli code	Pack Qty
103 x 230	<b>579713</b>	1

Equipment included: 4 stainless steel screws for fastening the item to the distribution board.



Flange for mounting 2 sockets or 2 caps in distribution boards for topTER sockets with switch IP66/IP67

Dimensions (mm)	Total installable devices	Max no. with flange 65x83	Max no. with flange 88x100	Palazzoli code	Pack Qty
103 x 230	2	2	1	<b>579714</b>	1

Equipment included: 1 finishing frame for compact sockets,

1 blind flange 65 x 83 mm.

4 stainless steel screws for fastening the item to the distribution board.

Technical accessories:



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Flange for mounting 1 63A socket in distribution boards for topTER interlocked socket-outlets IP66/IP67

Dimensions (mm)	63A socket-outlet flange dimensions (mm)	Palazzoli code	Pack Qty
103 x 230	100 x 100	<b>579717</b>	1

Equipment included: 4 stainless steel screws for fastening the item to the distribution board.

Technical accessories:



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Flange for mounting 3 international sockets 50x50 in distribution boards for topTER socket-outlets with switch IP65

Dimensions (mm)	For sockets type	Palazzoli code	Pack Qty
103 x 230	international	<b>579716</b>	1

Equipment included: 4 stainless steel screws for fastening the item to the distribution board.

Technical accessories:



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**Distribution boards with transparent window** for the installation of topTER sockets with switch **IP66**

Shape	Installable sockets	Power dissipation (W)	Outer dimensions (mm)	Palazzoli code	Pack Qty
10 modules	2	40	239x456	<b>579742</b>	1
16 modules	3	56	350x456	<b>579743</b>	1
22 modules	4	70	461x456	<b>579744</b>	1

**Equipment included:** DIN rail kit with adjustable supports. Cable clips. Screw cover caps for double insulation. Hinge kit for door opening, modular covers. 1 closing flange for distribution boards 579743 and 579744.  
**Features:** padlockable modular door. Suitable for temporary mounting.

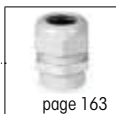


**Distribution boards with transparent window** for the installation of 1 topTER socket-outlet with switch **IP66**

Installable sockets	Power dissipation (W)	Outer dimensions (mm)	Palazzoli code	Pack Qty
1	22	122x395	<b>579741</b>	1

**Features:** padlockable modular door.

**Technical accessories:**



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**Distribution boards with blind cover** for the installation of topTER sockets with switch **IP66**

Shape	Installable sockets	Power dissipation (W)	Outer dimensions (mm)	Palazzoli code	Pack Qty
	1	22	122x395	<b>579721</b>	1
	2	40	250x395	<b>579722</b>	1
	3	56	380x395	<b>579723</b>	1



**Cover with transparent window and DIN rail** for topTER distribution boards with blind cover

No. of DIN modules	For distribution board code	Protection rating	Palazzoli code	Pack Qty
5	579721	IP65	<b>579451</b>	1
12	579722	IP55	<b>579452</b>	1
18	579723	IP55	<b>579453</b>	1

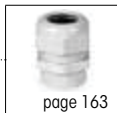
**Features:** padlockable modular door.



**Control unit** for modular devices with padlockable door for wall-mounting

Outer dimensions (mm)	No. of DIN modules	Power dissipation (W)	Protection rating	Palazzoli code	Pack Qty
122x158	5	20	IP65	<b>579708</b>	1
250x158	12	40	IP55	<b>579709</b>	1

**Technical accessories:**



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**Bottom box**  
for **wall-mounting**  
**IP66/IP67**

Dimensions (mm)	For sockets type	Palazzoli code	Pack Qty
108 x 260	topTER sockets with switch	<b>579710*</b>	1

\* this box can also be supplied in a heavy-duty HD version. The order number is 579720.

**Equipment included:** screw cover caps for double insulation.

**Technical accessories:**



**Bottom box**  
for **flush-mounting**  
**IP55**

Dimensions (mm)	For sockets type	Palazzoli code	Pack Qty
131 x 258	topTER sockets with switch	<b>579712</b>	1

**Features:** they are perfectly symmetrical and do not require an "up-down" direction for installation.



**Bottom box**  
for **flush-mounting**  
**IP66/IP67**

Dimensions (mm)	For sockets type	Palazzoli code	Pack Qty
115 x 270	topTER sockets with switch	<b>579711</b>	1

**Equipment included:** screw cover caps for double insulation.

**Uses:** they can be mounted in panels in steel sheet and insulating material.



**Box with cover**  
for **flush-mounting**  
**IP56**

Outer dimensions (mm)	Inner dimensions (mm)	Palazzoli code	Pack Qty
284x172	236x145x76	<b>575505</b>	1



**Control unit**  
for **panel-mounting**  
**IP56**

Outer dimensions (mm)	No. of DIN modules	Power dissipation (W)	Palazzoli code	Pack Qty
284x172	12	40	<b>575506</b>	1

**Equipment included:** 2 modular covers, code 579904.

**Features:** padlockable modular door.



**Auxiliary contact NO+NC**  
for plug inserted signal

For sockets type	Palazzoli code	Pack Qty
topTER industrial and interlocked socket-outlets	<b>579850</b>	1

**Notes:** topTER interlocked socket-outlets can be equipped with 2 auxiliary contacts



**Equipotential bars**  
for earth connection

No. of holes	Connection Type	Palazzoli code	Pack Qty
4	M5 screws for wire ends up to 25 mm <sup>2</sup>	<b>579013</b>	1
10		<b>579014</b>	1

**Equipment included:** connection screws and fixing supports.

**Features:** suitable for use in topTER distribution boards with transparent window of dimensions 239x456 and above.



**Module covers**

No. of DIN modules	For distribution boards	Palazzoli code	Pack Qty
2	all topTER, PRIMA and ULYSSE distribution boards TAIS and TAIS CUBE	<b>579904</b>	20

**Uses:** allows unused modules, to be covered to achieve the IP40 protection rating.



**Coupling fitting with Pg**  
threading for topTER  
distribution boards  
**IP66**

Pg	Mounting hole (mm)	For cable Ø (mm)	Palazzoli code	Pack Qty
21	29	21	<b>580250</b>	1



**Transportation handles**

For distribution boards	Palazzoli code	Pack Qty
all distribution boards	<b>579011</b>	1



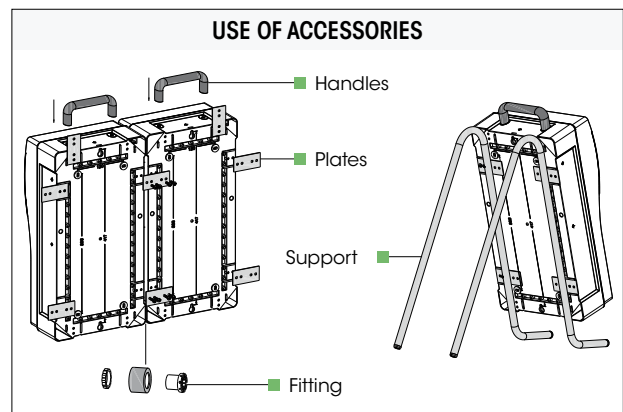
**Pair of stainless steel plates**  
for wall-mounting of topTER  
and PRIMA distribution boards

For distribution boards	Palazzoli code	Pack Qty
all topTER and PRIMA distribution boards	<b>579012</b>	10



**Universal support**  
for topTER, PRIMA  
and Energy Go  
distribution boards

For distribution boards	Palazzoli code	Pack Qty
width 239 mm and above	<b>570010</b>	1



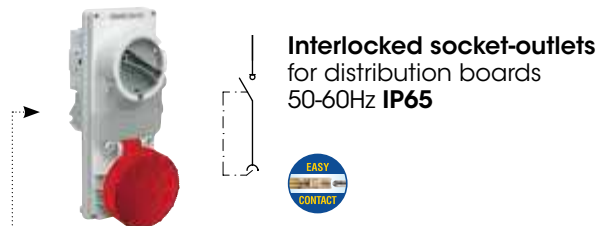


Compliance with standards	<b>IEC/EN 60309-1 IEC/EN 60309-2 IEC/EN 60309-4 IEC/EN 60947-3</b>
Material	<b>Thermoplastic</b>
Protection rating (IP according to IEC/EN 60529)	<b>IP65</b>
Colour	<b>RAL7035</b>
Resistance to abnormal heat and fire ("Glow Wire" according to IEC/EN 60695-2-10)	<b>960°C (switch) 950°C (socket insert) 850°C (socket body)</b>
Flammability rating (according to UL94)	<b>V0 (switch) V2 (socket insert) V2 (socket body)</b>
Impact resistance (IK grade according to IEC/EN 62262)	<b>IK08</b>
Rated current	<b>63A</b>
Operating Voltage	<b>110V - 400V</b>
Operating frequency	<b>50-60Hz</b>
Insulation voltage	<b>690V</b>
Insulation class	<b>II □</b>
Pilot Contact	<b>63A socket-outlets</b>
Storage temperature	<b>-30°C - +70°C</b>
Operating temperature	<b>-25°C - +50°C</b>



<b>Rated operating current:</b>		<b>63A</b>	
<b>Thermal current Ith</b>	<b>A</b>	<b>63</b>	
AC21A	415V	A	63
	500V		
AC22A	415V	A	63
	500V		
AC23A	230V	A	50
	400V		
	500V		
AC23A	230V	kW	12
	400V		21
	500V		28
AC3	230V	kW	10
	400V		17
	500V		22

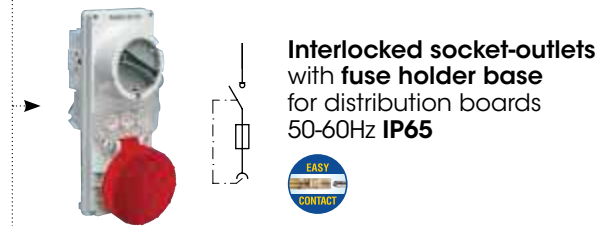
<b>Wiring data:</b>		<b>63A</b>
Entry cable sections	mm <sup>2</sup>	10 - 35
Tightening torque	Nm	3



**Interlocked socket-outlets for distribution boards 50-60Hz IP65**

Rated current (A)	Rated voltage	Voltage colour	Poles	h ref.	Palazzoli code	Pack Qty
63	110V	Yellow	2P+⊕	4	<b>481324</b>	1
	110V	Yellow	3P+⊕	4	<b>481334</b>	1
	110V	Yellow	3P+N+⊕	4	<b>481344</b>	1
	230V	Blue	2P+⊕	6	<b>481326</b>	1
	230V	Blue	3P+⊕	9	<b>481339</b>	1
	230V	Blue	3P+N+⊕	9	<b>481349</b>	1
	400V	Red	2P+⊕	9	<b>481329</b>	1
	400V	Red	3P+⊕	6	<b>481336</b>	1
	400V	Red	3P+N+⊕	6	<b>481346</b>	1

**Equipment included:** 6 stainless steel screws for fastening the item to the distribution board or box.  
**Features:** padlockable handle.



**Interlocked socket-outlets with fuse holder base for distribution boards 50-60Hz IP65**

Rated current (A)	Rated voltage	Voltage colour	Poles	h ref.	Palazzoli code	Pack Qty
63 fuses D02	110V	Yellow	2P+⊕	4	<b>480324</b>	1
	110V	Yellow	3P+⊕	4	<b>480334</b>	1
	110V	Yellow	3P+N+⊕	4	<b>480344</b>	1
	230V	Blue	2P+⊕	6	<b>480326</b>	1
	230V	Blue	3P+⊕	9	<b>480339</b>	1
	230V	Blue	3P+N+⊕	9	<b>480349</b>	1
	400V	Red	2P+⊕	9	<b>480329</b>	1
	400V	Red	3P+⊕	6	<b>480336</b>	1
	400V	Red	3P+N+⊕	6	<b>480346</b>	1

**Equipment included:** 6 stainless steel screws for fastening the item to the distribution board or box.  
**Features:** padlockable handle. Fuses not included.

**Technical accessories:**



**EASY CONTACT**



The **multi-lamellar crown** in a silver-plated copper superalloy ensures:

- wider pin-plug contact surface
- easy removal of plugs from sockets
- perfect cleaning of the pin
- a solid and long-lasting electrical contact





**Flange for mounting  
2 topTER sockets  
or domoTER caps  
IP55**

Dimensions (mm)	Total installable devices	Max no. with flange 65x83	Max no. with flange 88x100	Palazzoli code	Pack Qty
115x290	2	2	2	<b>579719</b>	1

**Equipment included:** 2 finishing frames for compact sockets. 1 blind flange 65x83 mm  
6 stainless steel screws for fastening the item to the distribution board or box.

**Technical accessories:**



**Flange for mounting  
1 CEE 63A socket-outlet  
or fixed plug  
IP55**

Dimensions (mm)	For sockets type	Palazzoli code	Pack Qty
115x290	63A topTER series	<b>579910</b>	1

**Equipment included:** 6 stainless steel screws for fastening the item to the distribution board or box.

**Technical accessories:**



**Adapter flange  
for topTER interlocked  
socket-outlets  
IP65**

Dimensions (mm)	For sockets type	Palazzoli code	Pack Qty
115x290	16A and 32A TopTER	<b>579920</b>	1

**Equipment included:** 4 stainless steel screws for fastening the item to the distribution board.



**Closing flange  
IP55**

Dimensions (mm)	For sockets type	Palazzoli code	Pack Qty
115x290	interlocked with fuse holder base	<b>579902</b>	1

**Equipment included:** 6 stainless steel screws for fastening the item to the distribution board or box.



**Distribution boards  
with blind cover  
for the installation  
of switched sockets  
IP55**

Installable sockets	Power dissipation (W)	Dimensions (mm)	Palazzoli code	Pack Qty
1	22	122x452	<b>579421*</b>	1
2	40	250x452	<b>579422</b>	1
3	56	380x452	<b>579423</b>	1

**Equipment included:** screw cover caps for double insulation.

**Features:** \* IP65 protection rating.



**Distribution boards  
with transparent window  
for mounting switched sockets  
IP55**

Installable sockets	No. of DIN modules	Power dissipation (W)	Outer dimensions (mm)	Palazzoli code	Pack Qty
1	5	22	122x452	<b>579631*</b>	1
2	12	40	250x452	<b>579622</b>	1
3	18	56	380x452	<b>579623</b>	1

**Equipment included:** screw cover caps for double insulation. Modular covers.

**Features:** padlockable modular door.\*IP65 protection rating.



**Bottom box  
for mounting 1 63A  
interlocked socket-outlet  
for wall-mounting  
IP55**

Dimensions (mm)	For sockets type	Palazzoli code	Pack Qty
115x290	63A topTER interlocked	<b>579400</b>	1

**Equipment included:** screw cover caps for double insulation.



**Bottom box  
for wall-mounting  
of one 63A socket  
IP55**

Dimensions (mm)	For sockets type	Palazzoli code	Pack Qty
150x300	IP55 63A with or without fuse holder base	<b>575502</b>	1

**Equipment included:** screw cover caps for double insulation.

**Uses:** they can be mounted in panels in steel sheet and insulating material.

# PRIMA

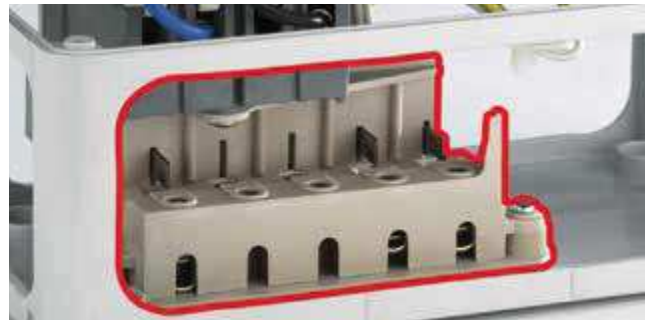


**FUSE  
GUARD**



# PRIMA

One size for all versions, with or without fuses, protected and watertight



PRIMA is the only system of interlocked socket-outlets with fuses that are not directly accessible from the front. This feature makes these sockets particularly suitable for installation in public places, preventing unqualified personnel from working on sensitive protection parts such as fuses.

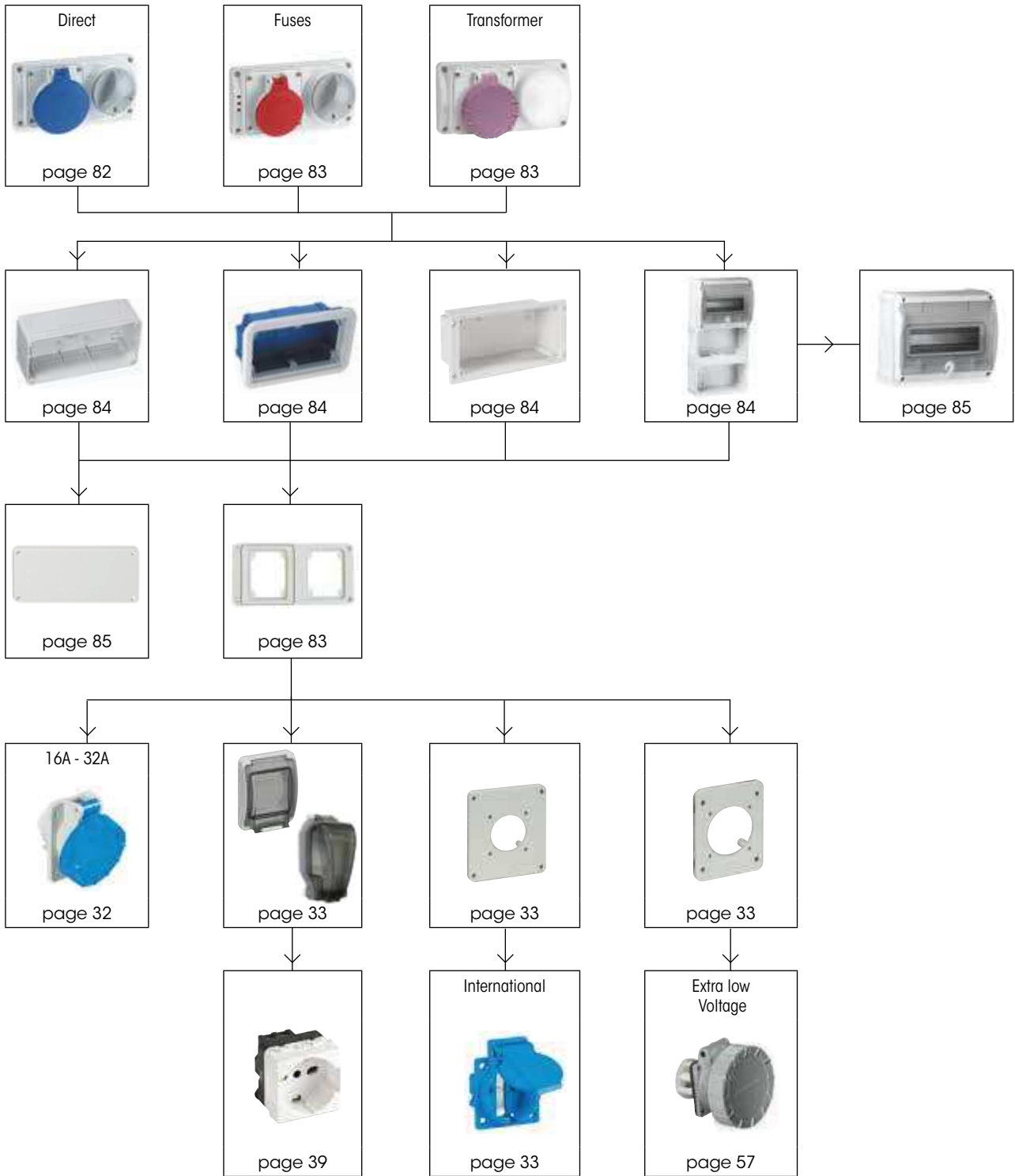
The special plug-in system allows to comfortably wire the distribution board before mounting the socket. Maintenance is facilitated by the absence of annoying flying cables.



PRIMA is the only system of horizontal sockets to incorporate absolute safety technologies, such as a steel interlock mechanism and an AC3-AC23A class isolator switch at rated current.

The aesthetic design enhances PRIMA's integration in all environments. The rounded shape, the reduced projection (only 6 cm) and the absence of dust and dirt build-up areas facilitate cleaning and hygiene.

Suitable for use in the service sector, in places like hypermarkets, hotels, meeting places, offices, industrial ironing facilities and public entertainment venues.



The Easy Composer software which enables to easily create customised distribution boards is available on the [www.palazzoli.com](http://www.palazzoli.com) website.





The industrial low voltage interlocked socket-outlets of the PRIMA series are a range of products made in technopolymer for standard applications, that comply with the IEC/EN 60309-1, IEC/EN 60309-2 and IEC/EN 60309-4 standards.

The system includes 16A and 32A versions, with and without fuses, with IP44 and IP55 protection ratings and a 24V version with safety transformer.

Sockets with fuses feature a "fuse guard" system that allows to identify in real time the phase where the protection has tripped by means of signalling lamps. The fuses are located at the back of the socket to prevent possible interventions by unqualified personnel, particularly in places open to the public. The interlock system is made with a steel bracket and the switch disconnecter is certified in the AC3-AC23A category at rated current. The range is completed by wall-mounted and flush-mounted boxes and modular distribution boards.

**Rated operating current:**

			16A	32A
<b>Thermal current I<sub>th</sub></b>		<b>A</b>	<b>16</b>	<b>32</b>
AC21A	415V	A	16	32
	500V			
AC22A	415V	A	16	32
	500V			
AC23A	230V	A	16	32
	400V			
	500V			
AC23A	230V	kW	4.5	8.5
	400V		7.5	15
	500V		8.5	17
AC3	230V	kW	4.5	8.5
	400V		7.5	15
	500V		8.5	17

**Wiring data:**

		16A	32A
Entry cable sections	mm <sup>2</sup>	1 - 10	
Tightening torque	Nm	2	

Compliance with standards	<b>IEC/EN 60309-1 IEC/EN 60309-2 IEC/EN 60309-4 IEC/EN 60947-3</b>
Material	<b>Thermoplastic</b>
Protection rating (IP according to IEC/EN 60529)	<b>IP44 - IP55</b>
Colour	<b>RAL7035</b>
Resistance to abnormal heat and fire ("Glow Wire" according to IEC/EN 60695-2-10)	<b>960°C (switch) 850°C (socket insert) 650°C (socket body)</b>
Flammability rating (according to UL94)	<b>V0 (switch) V2 (socket insert) HB (socket body)</b>
Impact resistance (IK grade according to IEC/EN 62262)	<b>IK08</b>
Rated current	<b>16A - 32A</b>
Operating voltage	<b>24V - 440V</b>
Operating frequency	<b>50-60Hz</b>
Insulation voltage	<b>690V</b>
Insulation class	<b>II □</b>
Storage temperature	<b>-30°C - +70°C</b>
Operating temperature	<b>-25°C - +50°C</b>



**Resistance to chemical agents**

WATER	SALINE SOLUTION	ACIDS		BASES		SOLVENTS			
		CONCENTRATED	DILUTED	CONCENTRATED	DILUTED	ALCOHOL	ACETONE	PERCHLORO-ETHYLENE	BENZENE
↑	→	→	↑	↑	↑	↑	↑	↑	↓
OILS		FATS		AMMONIA	OXIDISERS	INORGANIC SALTS	GASOLINE	DETERGENTS	U.V. RAYS
MINERAL	VEGETABLE	ANIMAL	SYNTHETIC						
↑	↑	↑	↑	↑	→	↑	↑	↑	↑

**Legend:** ↑ high resistance    → partial resistance    ↓ low resistance



**Interlocked socket-outlets**  
for distribution boards  
50-60Hz **IP44**

Rated current (A)	Rated voltage	Voltage colour	Poles	h ref.	Palazzoli code	Pack Qty
16	110V	Yellow	2P+⊕	4	<b>493124</b>	1
	230V	Blue	2P+⊕	6	<b>493126</b>	1
	400V	Red	3P+⊕	6	<b>493136</b>	1
	400V	Red	3P+N+⊕	6	<b>493146</b>	1
32	230V	Blue	2P+⊕	6	<b>493226</b>	1
	400V	Red	3P+⊕	6	<b>493236</b>	1
	400V	Red	3P+N+⊕	6	<b>493246</b>	1

**Equipment included:** 4 stainless steel screws for fastening the item to the distribution board or box.  
**Features:** the handle can be padlocked in the open or closed position with max 3 mm Ø padlock. Fuses not included.

**Technical accessories:**



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**Interlocked socket-outlets**  
with **fuse holder base**  
for distribution boards  
50-60Hz **IP44**

Rated current (A)	Rated voltage	Voltage colour	Poles	h ref.	Palazzoli code	Pack Qty
16 fuses 10.3x38	110V	Yellow	2P+⊕	4	<b>494124</b>	1
	230V	Blue	2P+⊕	6	<b>494126</b>	1
	400V	Red	3P+⊕	6	<b>494136</b>	1
	400V	Red	3P+N+⊕	6	<b>494146</b>	1
32 fuses 10.3x38	230V	Blue	2P+⊕	6	<b>494226</b>	1
	400V	Red	3P+⊕	6	<b>494236</b>	1
	400V	Red	3P+N+⊕	6	<b>494246</b>	1

**Equipment included:** 4 stainless steel screws for fastening the item to the distribution board or box.  
**Features:** the handle can be padlocked in the open or closed position with max 3 mm Ø padlock. Fuses not included. Plug-in connection on the power supply line.

**Technical accessories:**



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### CUSTOMISED SOLUTIONS



With additional control unit,  
using code **579612**



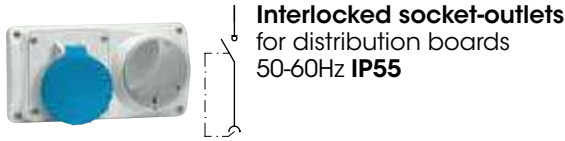
Wall-mounted with frame code  
**579582**



With industrial socket-outlets  
using flange code **579718** and  
topTER industrial socket-outlets



With signal socket-outlets using  
the spacer kits code **579591**



Interlocked socket-outlets for distribution boards 50-60Hz IP55

Rated current (A)	Rated voltage	Voltage colour	Poles	h ref.	Palazzoli code	Pack Qty
16	110V	Yellow	2P+⊕	4	495124 *	1
	110V	Yellow	3P+⊕	4	495134	1
	110V	Yellow	3P+N+⊕	4	495144	1
	230V	Blue	2P+⊕	6	495126*	1
	230V	Blue	3P+⊕	9	495139	1
	230V	Blue	3P+N+⊕	9	495149	1
	400V	Red	2P+⊕	9	495129	1
	400V	Red	3P+⊕	6	495136*	1
	400V	Red	3P+N+⊕	6	495146*	1
32	110V	Yellow	2P+⊕	4	495224*	1
	110V	Yellow	3P+⊕	4	495234	1
	110V	Yellow	3P+N+⊕	4	495244	1
	230V	Blue	2P+⊕	6	495226*	1
	230V	Blue	3P+⊕	9	495239	1
	230V	Blue	3P+N+⊕	9	495249	1
	400V	Red	2P+⊕	9	495229	1
	400V	Red	3P+⊕	6	495236*	1
	400V	Red	3P+N+⊕	6	495246*	1
	380/440V	Red	3P+⊕	3	495233*	1

\* these sockets can also be supplied in a heavy duty HD version for wall-mounting. For the code number, replace the 495xxx prefix with 497xxx (e.g. from 495124 to 497124). See page 84 for the code number of the box.

**Equipment included:** 4 stainless steel screws for fastening the item to the distribution board or box.

**Features:** the handle can be padlocked in the open or closed position with max 3 mm Ø padlock.

**Technical accessories:**



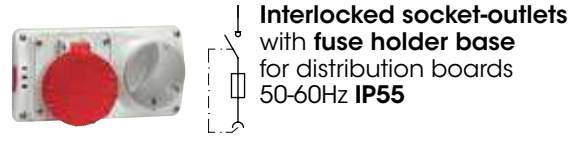
Socket with safety transformer (SELV) for distribution boards 50-60Hz IP55

Rated current (A)	Rated voltage	Poles	Power (VA)	Palazzoli code	Pack Qty
16	230/24V~	2P	150	496024	1

**Equipment included:** 4 stainless steel screws for fastening the item to the distribution board or box.

**Features:** transformer with built-in thermal protection, enabled by a plug-activated bipolar microswitch.

**Technical accessories:**



Interlocked socket-outlets with fuse holder base for distribution boards 50-60Hz IP55

Rated current (A)	Rated voltage	Voltage colour	Poles	h ref.	Palazzoli code	Pack Qty
16 fuses 10.3x38	110V	Yellow	2P+⊕	4	496124	1
	110V	Yellow	3P+⊕	4	496134	1
	110V	Yellow	3P+N+⊕	4	496144	1
	230V	Blue	2P+⊕	6	496126	1
	230V	Blue	3P+⊕	9	496139	1
	230V	Blue	3P+N+⊕	9	496149	1
	400V	Red	2P+⊕	9	496129	1
	400V	Red	3P+⊕	6	496136	1
	400V	Red	3P+N+⊕	6	496146	1
32 fuses 10.3x38	110V	Yellow	2P+⊕	4	496224	1
	110V	Yellow	3P+⊕	4	496234	1
	110V	Yellow	3P+N+⊕	4	496244	1
	230V	Blue	2P+⊕	6	496226	1
	230V	Blue	3P+⊕	9	496239	1
	230V	Blue	3P+N+⊕	9	496249	1
	400V	Red	2P+⊕	9	496229	1
	400V	Red	3P+⊕	6	496236	1
	400V	Red	3P+N+⊕	6	496246	1
	380/440V	Red	3P+⊕	3	496233	1

**Equipment included:** 4 stainless steel screws for fastening the item to the distribution board or box.

**Features:** the handle can be padlocked in the open or closed position with max 3 mm Ø padlock. Fuses not included. Plug-in connection on the power supply line.

**Technical accessories:**



Flange for mounting 2 topTER sockets or 2 domoTER caps IP55



Total installable devices	Max no. with flange 65x83	Max no. with flange 88x100	Palazzoli code	Pack Qty
2	2	1	579718	1

**Equipment included:** 4 stainless steel screws for fastening the item to the distribution board.

Finishing frames for compact sockets. 1 blind flange 65x83mm.

**Technical accessories:**





**Distribution boards**  
for mounting PRIMA devices  
**IP55**

	Shape	Installable sockets	Power dissipation (W)	Outer dimensions (mm)	Palazzoli code	Pack Qty
9 modules		2	36	212x414	<b>579620</b>	1
blind		2	36	212x414	<b>579621</b>	1
9+9 modules		2	50	424x280	<b>579602</b>	1
9+9 modules		4	70	424x410	<b>579640</b>	1
9 modules		4	70	424x410	<b>579641</b>	1
blind		4	70	424x410	<b>579642</b>	1

**Equipment included:** screw cover caps for double insulation, modular covers.  
1 closing flange for distribution boards 579620, 579621, 579602.  
2 closing flanges for distribution boards 579640, 579641, 579642.

**Features:** padlockable modular door.

**Technical accessories:**



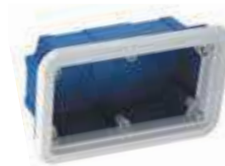
**Bottom box**  
for wall-mounting  
**IP55**

Dimensions (mm)	For sockets type	Palazzoli code	Pack Qty
103x206	PRIMA sockets with switch	<b>579500*</b>	1

\* this box can also be supplied in a heavy-duty HD version.  
The Code Number is 579700.

**Equipment included:** screw cover caps for double insulation.

**Technical accessories:**



**Bottom box**  
for flush-mounting  
**IP55**

Dimensions (mm)	For sockets type	Palazzoli code	Pack Qty
132.5x235.5	PRIMA sockets with switch	<b>579510</b>	1

**Equipment included:** spacer kit.

**Features:** they do not require an "UP-DOWN" direction for installation.  
When used with interlocked socket-outlets with fuses, the box must first be flush-mounted in the wall. The use of the special kit allows to gain an extra 3 mm in depth.



**Bottom box**  
for flush-mounting  
**IP55**

Dimensions (mm)	For sockets type	Palazzoli code	Pack Qty
115x240	PRIMA sockets with switch	<b>575501</b>	1

**Uses:** they enable to mount the socket-outlets in panels in steel sheet and insulating material.





9 modules



**Control unit**  
for modular devices  
for wall-mounting  
**IP55**

Description	Power dissipation (W)	Dimensions (mm)	Palazzoli code	Pack Qty
with 9 module transparent window	36	212x174	<b>579612</b>	1

**Equipment included:** 2 modular covers, code 579904. Screw cover caps for double insulation.  
**Features:** padlockable modular door.



**Coupling fitting**  
with Pg threading for topTER  
and PRIMA distribution boards  
**IP66**

Pg	Mounting hole (mm)	For cable Ø (mm)	Palazzoli code	Pack Qty
21	29	21	<b>580250</b>	1



**Closing flange**  
for PRIMA distribution boards  
**IP55**

Dimensions (mm)	Palazzoli code	Pack Qty
206x103	<b>579901</b>	1

**Equipment included:** 4 stainless steel screws for fastening the item to the distribution board.  
**Uses:** enables unused housings of all PRIMA series flanged distribution boards to be closed.



**Finishing frames**  
for flush-mounting  
of PRIMA distribution boards

For distribution boards, code	Palazzoli code	Pack Qty
579620 and 579621	<b>579582</b>	1
579640, 579641 and 579642	<b>579584</b>	1



**Spacing kits**  
for distribution boards  
with 4 sockets

Description	Palazzoli code	Pack Qty
a horizontal divider and a vertical divider with friction mounting	<b>579591</b>	1

# X-CEE

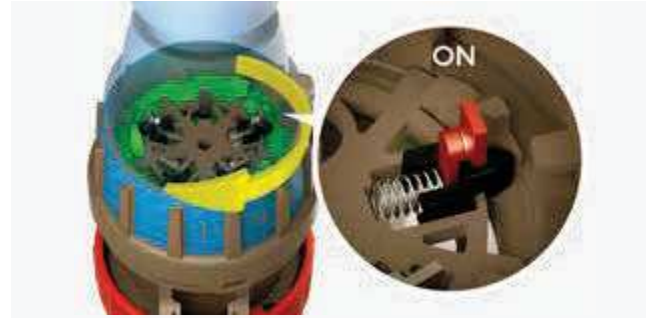
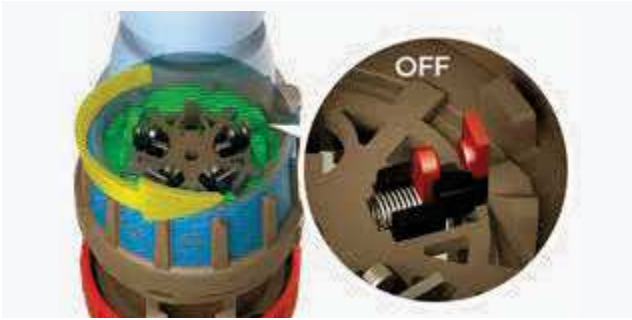


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**PATENT**  
PENDING



# X-CEE

The only interlocked mobile socket to safely distribute electric energy anywhere



The plug is plugged into the socket that is not powered: the switch snaps automatically when the safety ring is turned counterclockwise, therefore energy is drawn in total safety.

To remove the plug, the safety ring must be rotated clockwise. This will cause the switch to cut off the power supply from the socket, enabling the plug to be pulled out in total safety.



Simplicity is found in the smart cable gland that makes the X-CEE suitable for all types of cables, with a versatility that is unique on the market. It is easily clampable, thanks to the ability to tighten the cable with a screwdriver. The slot of the cable gland can also be used as a hook for suspension.

Indirect clamping HD terminals are standard throughout the range. They guarantee the integrity of the cables for an even passage of current and prevent overheating and cable breakage.

Suitable for field plants, building sites, major events, markets, amusement areas, cultural events, exhibition centres, public places, quarries, mines, agricultural and food industry, marinas, commercial ports and shipyards, in external embedded boxes, distribution boards, mobile distribution boards, automation boards.



Socket-outlets with isolator switch, safety performance, compliant with IEC/EN 60309-1, IEC/EN 60309-2 and IEC/EN 60309-4 standards. The quality of the materials, the terminals with cage clamps throughout the range, the broad entry cable clamping, the total protection rating, the resistance to impacts and crushing make this range suitable for use in the harshest environments.

Moreover, the range distinguishes itself for its simplicity of use: easy cable clamping, possibility of use in suspension, absence of screws to secure the grips, ergonomics of shapes. Versions not available directly with a code in the catalogue can be realised by composing the plug insert with the grip or flange to achieve the desired configuration.

The interlock system is made with reinforced technopolymer elements and the switch disconnecter is certified to the AC-23A category.

The mobile rotoswitches guarantee safety for the operators in any work environment.

**Rated operating current:**

			16A	32A	63A	125A
Thermal current I <sub>th</sub>		A	16	32	63	125
AC21A		A	16	32	63	125
AC22A		A	16	32	63	125
AC23A		A	16	32	63	125
AC23A	230V	kW	5.1	10.2	20.1	39.8
	400V		8.9	17.7	34.9	69.3
	500V		11.1	22.2	43.6	86.6
	690V		15.3	30.6	60.2	120

**Cable features:**

Rated current (A)	Poles	Entry cable diameter (mm)	Cable cross-section range (mm <sup>2</sup> )
16	2P+⊕	6.3 - 18	1 - 10
	3P+⊕		
	3P+N+⊕	9 - 23	
32	2P+⊕	9 - 23	1 - 10
	3P+⊕		
	3P+N+⊕	13 - 27	
63	2P+⊕	14 - 36	6 - 25
	3P+⊕		
	3P+N+⊕		
125	2P+⊕	16 - 50	16 - 70
	3P+⊕		
	3P+N+⊕		

Compliance with standards	<b>IEC/EN 60309-1 IEC/EN 60309-2 IEC/EN 60309-4 IEC/EN 60947-3</b>
Casing material	<b>Reinforced technopolymer</b>
Protection rating (IP according to IEC/EN 60529)	<b>IP66/IP67/IP69 (see page 46)</b>
Colour	<b>RAL 7046 Grey, RAL 5015 Blue</b>
Receptacle material	<b>Solid nickel-plated brass</b>
Resistance to abnormal heat and fire ("Glow wire" according to IEC/EN 60695-2-10)	<b>960°C (wire terminal block) 850°C (casings)</b>
Flammability rating (according to UL94)	<b>V0 (wire terminal block) V2 (casings)</b>
Impact resistance (IK grade according to IEC/EN 62262)	<b>IK10</b>
Resistance to crushing	<b>&gt; 500Kg</b>
Rated current	<b>16A - 32A - 63A - 125A</b>
Operating voltage	<b>50V - 690V</b>
Utilisation category	<b>AC-23A</b>
Operating frequency	<b>50Hz - 60Hz</b>
Insulation voltage	<b>690V</b>
Pilot contact	<b>63A and 125A plugs and socket-outlets</b>
Storage temperature	<b>-50°C - +90°C</b>
Operating temperature	<b>-40°C - +60°C</b>



**Resistance to chemical agents**

WATER	SALINE SOLUTION	ACIDS		BASES		SOLVENTS			
		CONCENTRATED	DILUTED	CONCENTRATED	DILUTED	ALCOHOL	ACETONE	PERCHLORO-ETHYLENE	BENZENE
↑	↑	→	→	↑	↑	↑	↑	↑	↓
OILS		FATS		AMMONIA	OXIDISERS	INORGANIC SALTS	GASOLINE	DETERGENTS	U.V. RAYS
MINERAL	VEGETABLE	ANIMAL	SYNTHETIC						
↑	↑	↑	↑	↑	→	↑	↑	↑	↑

Legend: ↑ high resistance → partial resistance ↓ low resistance





**Rotoswitched couplers**  
50-60Hz  
**IP66/IP67/IP69**

Rated current (A)	Rated voltage	Voltage colour	Poles	h ref.	Palazzoli code	Pack Qty
16	110V	Yellow	2P+⊕	4	<b>410124</b>	1
	110V	Yellow	3P+⊕	4	<b>410134</b>	1
	110V	Yellow	3P+N+⊕	4	<b>410144</b>	1
	230V	Blue	2P+⊕	6	<b>410126</b>	1
	230V	Blue	3P+⊕	9	<b>410139</b>	1
	230V	Blue	3P+N+⊕	9	<b>410149</b>	1
	400V	Red	2P+⊕	9	<b>410129</b>	1
	400V	Red	3P+⊕	6	<b>410136</b>	1
	400V	Red	3P+N+⊕	6	<b>410146</b>	1
	500V	Black	3P+⊕	7	<b>410137</b>	1
500V	Black	3P+N+⊕	7	<b>410147</b>	1	
32	110V	Yellow	2P+⊕	4	<b>410224</b>	1
	110V	Yellow	3P+⊕	4	<b>410234</b>	1
	110V	Yellow	3P+N+⊕	4	<b>410244</b>	1
	230V	Blue	2P+⊕	6	<b>410226</b>	1
	230V	Blue	3P+⊕	9	<b>410239</b>	1
	230V	Blue	3P+N+⊕	9	<b>410249</b>	1
	400V	Red	2P+⊕	9	<b>410229</b>	1
	400V	Red	3P+⊕	6	<b>410236</b>	1
	400V	Red	3P+N+⊕	6	<b>410246</b>	1
	500V	Black	3P+⊕	7	<b>410237</b>	1
500V	Black	3P+N+⊕	7	<b>410247</b>	1	
380-440V	Red	3P+⊕	3	<b>410233</b>	1	
63	110V	Yellow	2P+⊕	4	<b>410324</b>	1
	110V	Yellow	3P+⊕	4	<b>410334</b>	1
	110V	Yellow	3P+N+⊕	4	<b>410344</b>	1
	230V	Blue	2P+⊕	6	<b>410326</b>	1
	230V	Blue	3P+⊕	9	<b>410339</b>	1
	230V	Blue	3P+N+⊕	9	<b>410349</b>	1
	400V	Red	2P+⊕	9	<b>410329</b>	1
	400V	Red	3P+⊕	6	<b>410336</b>	1
	400V	Red	3P+N+⊕	6	<b>410346</b>	1
	500V	Black	3P+⊕	7	<b>410337</b>	1
500V	Black	3P+N+⊕	7	<b>410347</b>	1	
125	110V	Yellow	3P+⊕	4	<b>410434</b>	1
	110V	Yellow	3P+N+⊕	4	<b>410444</b>	1
	230V	Blue	3P+⊕	9	<b>410439</b>	1
	230V	Blue	3P+N+⊕	9	<b>410449</b>	1
	400V	Red	3P+⊕	6	<b>410436</b>	1
	400V	Red	3P+N+⊕	6	<b>410446</b>	1
	500V	Black	3P+⊕	7	<b>410437</b>	1
500V	Black	3P+N+⊕	7	<b>410447</b>	1	

**Features:** rotoswitches padlockable in position 0 and 1 with padlock code 419000.

The sockets are designed to allow for padlocking, either in a stand-alone fashion or connected to the plugs. The padlock must have a min. shackle width of 10.5 mm, a height of 32 mm and a max. wire Ø of 3.5 mm.

**Technical accessories:**



**Straight panel-mounted rotoswitched sockets**  
50-60Hz  
**IP66/IP67/IP69**

Rated current (A)	Rated voltage	Flange dimensions (mm)	Voltage colour	Poles	h ref.	Palazzoli code	Pack Qty
16	110V	65x83	Yellow	2P+⊕	4	<b>412124</b>	1
	230V	65x83	Blue	2P+⊕	6	<b>412126</b>	1
	400V	65x83	Red	3P+⊕	6	<b>412136</b>	1
	400V	65x83	Red	3P+N+⊕	6	<b>412146</b>	1
	110V	65x83	Yellow	2P+⊕	4	<b>412224</b>	1
32	230V	65x83	Blue	2P+⊕	6	<b>412226</b>	1
	400V	65x83	Red	3P+⊕	6	<b>412236</b>	1
	400V	100x108	Red	3P+N+⊕	6	<b>412246</b>	1
63	380-440V	65x83	Red	3P+⊕	3	<b>412233</b>	1
	400V	100x108	Red	3P+⊕	6	<b>412336</b>	1
	400V	100x108	Red	3P+N+⊕	6	<b>412346</b>	1
125	400V	114x114	Red	3P+⊕	6	<b>412436</b>	1
	400V	114x114	Red	3P+N+⊕	6	<b>412446</b>	1



**20° angled panel-mounted rotoswitched sockets**  
50-60Hz  
**IP66/IP67/IP69**

Rated current (A)	Rated voltage	Flange dimensions (mm)	Voltage colour	Poles	h ref.	Palazzoli code	Pack Qty
16	110V	65x83	Yellow	2P+⊕	4	<b>413124</b>	1
	230V	65x83	Blue	2P+⊕	6	<b>413126</b>	1
	400V	65x83	Red	3P+⊕	6	<b>413136</b>	1
	400V	65x83	Red	3P+N+⊕	6	<b>413146</b>	1
32	110V	65x83	Yellow	2P+⊕	4	<b>413224</b>	1
	230V	65x83	Blue	2P+⊕	6	<b>413226</b>	1
	400V	65x83	Red	3P+⊕	6	<b>413236</b>	1
	400V	100x108	Red	3P+N+⊕	6	<b>413246</b>	1
63	400V	100x108	Red	3P+⊕	6	<b>413336</b>	1
	400V	100x108	Red	3P+N+⊕	6	<b>413346</b>	1
	400V	114x114	Red	3P+⊕	6	<b>413436</b>	1
125	400V	114x114	Red	3P+N+⊕	6	<b>413446</b>	1

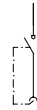


**65° angled wall-mounted rotoswitched sockets**  
50-60Hz  
**IP66/IP67/IP69**

Rated current (A)	Rated voltage	Voltage colour	Poles	h ref.	Palazzoli code	Pack Qty
16	110V	Yellow	2P+⊕	4	<b>416124</b>	1
	230V	Blue	2P+⊕	6	<b>416126</b>	1
	400V	Red	3P+⊕	6	<b>416136</b>	1
	400V	Red	3P+N+⊕	6	<b>416146</b>	1
32	110V	Yellow	2P+⊕	4	<b>416224</b>	1
	230V	Blue	2P+⊕	6	<b>416226</b>	1
	400V	Red	3P+⊕	6	<b>416236</b>	1
63	400V	Red	3P+N+⊕	6	<b>416246</b>	1
	400V	Red	3P+⊕	6	<b>416336</b>	1
	400V	Red	3P+N+⊕	6	<b>416346</b>	1
125	400V	Red	3P+⊕	6	<b>416436</b>	1
	400V	Red	3P+N+⊕	6	<b>416446</b>	1

**Common features:** rotoswitches padlockable in position 0 and 1 with padlock code 419000.

The sockets are designed to allow for padlocking, either in a stand-alone fashion or connected to the plugs. The padlock must have a min. shackle width of 10.5 mm, a height of 32 mm and a max. wire Ø of 3.5 mm.



Rotoswitched sockets  
IP66/IP67/IP69

Rated current (A)	Frequency	Rated voltage	Voltage colour	Poles	h ref.	Palazzoli code	Pack Qty
16	50-60Hz	110V	Yellow	2P+⊕	4	<b>419124</b>	1
	50-60Hz	110V	Yellow	3P+⊕	4	<b>419134</b>	1
	50-60Hz	110V	Yellow	3P+N+⊕	4	<b>419144</b>	1
	50-60Hz	220V	Blue	2P+⊕	6	<b>419126</b>	1
	50-60Hz	220V	Blue	3P+⊕	9	<b>419139</b>	1
	50-60Hz	220V	Blue	3P+N+⊕	9	<b>419149</b>	1
	50-60Hz	400V	Red	2P+⊕	9	<b>419129</b>	1
	50-60Hz	400V	Red	3P+⊕	6	<b>419136</b>	1
	50-60Hz	400V	Red	3P+N+⊕	6	<b>419146</b>	1
	50-60Hz	500V	Black	2P+⊕	7	<b>419127</b>	1
	50-60Hz	500V	Black	3P+⊕	7	<b>419137</b>	1
	50-60Hz	500V	Black	3P+N+⊕	7	<b>419147</b>	1
	50-60Hz	690V	Black	3P+⊕	5	<b>419135</b>	1
	50-60Hz	690V	Black	3P+N+⊕	5	<b>419145</b>	1
	DC	>250V	Grey	2P+⊕	8	<b>419121</b>	1
	100-300Hz	>50V	Green	2P+⊕	10	<b>419120</b>	1
	100-300Hz	>50V	Green	3P+⊕	10	<b>419130</b>	1
	100-300Hz	>50V	Green	3P+N+⊕	10	<b>419140</b>	1
	60Hz	440-460V	Red	3P+⊕	11	<b>419131</b>	1
	60Hz	440-460V	Red	3P+N+⊕	11	<b>419141</b>	1
	50-60Hz	>50V	Grey	2P+⊕	12	<b>419128</b>	1
	50-60Hz	>50V	Grey	3P+⊕	12	<b>419138</b>	1
	300-500Hz	>50V	Green	2P+⊕	2	<b>419122</b>	1
	300-500Hz	>50V	Green	3P+⊕	2	<b>419132</b>	1
	300-500Hz	>50V	Green	3P+N+⊕	2	<b>419142</b>	1
	DC	>50-250V	Grey	2P+⊕	3	<b>419123</b>	1
	50-60Hz	380-440V	Red	3P+⊕	3	<b>419133</b>	1
	50-60Hz	380-440V	Red	3P+N+⊕	3	<b>419143</b>	1
	50-60Hz	110V	Yellow	2P+⊕	4	<b>419224</b>	1
	50-60Hz	110V	Yellow	3P+⊕	4	<b>419234</b>	1
	50-60Hz	110V	Yellow	3P+N+⊕	4	<b>419244</b>	1
	50-60Hz	220V	Blue	2P+⊕	6	<b>419226</b>	1
50-60Hz	220V	Blue	3P+⊕	9	<b>419239</b>	1	
50-60Hz	220V	Blue	3P+N+⊕	9	<b>419249</b>	1	
50-60Hz	400V	Red	2P+⊕	9	<b>419229</b>	1	
50-60Hz	400V	Red	3P+⊕	6	<b>419236</b>	1	
50-60Hz	400V	Red	3P+N+⊕	6	<b>419246</b>	1	
50-60Hz	500V	Black	2P+⊕	7	<b>419227</b>	1	
50-60Hz	500V	Black	3P+⊕	7	<b>419237</b>	1	
50-60Hz	500V	Black	3P+N+⊕	7	<b>419247</b>	1	
50-60Hz	690V	Black	3P+⊕	5	<b>419235</b>	1	
50-60Hz	690V	Black	3P+N+⊕	5	<b>419245</b>	1	
DC	>250V	Grey	2P+⊕	8	<b>419221</b>	1	
100-300Hz	>50V	Green	2P+⊕	10	<b>419220</b>	1	
100-300Hz	>50V	Green	3P+⊕	10	<b>419230</b>	1	
100-300Hz	>50V	Green	3P+N+⊕	10	<b>419240</b>	1	
60Hz	440-460V	Red	3P+⊕	11	<b>419231</b>	1	
60Hz	440-460V	Red	3P+N+⊕	11	<b>419241</b>	1	
50-60Hz	>50V	Grey	2P+⊕	12	<b>419228</b>	1	
50-60Hz	>50V	Grey	3P+⊕	12	<b>419238</b>	1	
300-500Hz	>50V	Green	2P+⊕	2	<b>419222</b>	1	
300-500Hz	>50V	Green	3P+⊕	2	<b>419232</b>	1	
300-500Hz	>50V	Green	3P+N+⊕	2	<b>419242</b>	1	
DC	>50-250V	Grey	2P+⊕	3	<b>419223</b>	1	
50-60Hz	380-440V	Red	3P+⊕	3	<b>419233</b>	1	
50-60Hz	380-440V	Red	3P+N+⊕	3	<b>419243</b>	1	

Rated current (A)	Frequency	Rated voltage	Voltage colour	Poles	h ref.	Palazzoli code	Pack Qty
63	50-60Hz	110V	Yellow	2P+⊕	4	<b>419324</b>	1
	50-60Hz	110V	Yellow	3P+⊕	4	<b>419334</b>	1
	50-60Hz	110V	Yellow	3P+N+⊕	4	<b>419344</b>	1
	50-60Hz	220V	Blue	2P+⊕	6	<b>419326</b>	1
	50-60Hz	220V	Blue	3P+⊕	9	<b>419339</b>	1
	50-60Hz	220V	Blue	3P+N+⊕	9	<b>419349</b>	1
	50-60Hz	400V	Red	2P+⊕	9	<b>419329</b>	1
	50-60Hz	400V	Red	3P+⊕	6	<b>419336</b>	1
	50-60Hz	400V	Red	3P+N+⊕	6	<b>419346</b>	1
	50-60Hz	500V	Black	2P+⊕	7	<b>419327</b>	1
	50-60Hz	500V	Black	3P+⊕	7	<b>419337</b>	1
	50-60Hz	500V	Black	3P+N+⊕	7	<b>419347</b>	1
	50-60Hz	690V	Black	3P+⊕	5	<b>419335</b>	1
	50-60Hz	690V	Black	3P+N+⊕	5	<b>419345</b>	1
	DC	>250V	Grey	2P+⊕	8	<b>419321</b>	1
	100-300Hz	>50V	Green	2P+⊕	10	<b>419320</b>	1
	100-300Hz	>50V	Green	3P+⊕	10	<b>419330</b>	1
	100-300Hz	>50V	Green	3P+N+⊕	10	<b>419340</b>	1
	60Hz	440-460V	Red	3P+⊕	11	<b>419331</b>	1
	60Hz	440-460V	Red	3P+N+⊕	11	<b>419341</b>	1
	50-60Hz	>50V	Grey	2P+⊕	12	<b>419328</b>	1
	50-60Hz	>50V	Grey	3P+⊕	12	<b>419338</b>	1
	300-500Hz	>50V	Green	2P+⊕	2	<b>419322</b>	1
	300-500Hz	>50V	Green	3P+⊕	2	<b>419332</b>	1
	300-500Hz	>50V	Green	3P+N+⊕	2	<b>419342</b>	1
	DC	>50-250V	Grey	2P+⊕	3	<b>419323</b>	1
	50-60Hz	380-440V	Red	3P+⊕	3	<b>419333</b>	1
	50-60Hz	380-440V	Red	3P+N+⊕	3	<b>419343</b>	1
	50-60Hz	110V	Yellow	2P+⊕	4	<b>419424</b>	1
	50-60Hz	110V	Yellow	3P+⊕	4	<b>419434</b>	1
	50-60Hz	110V	Yellow	3P+N+⊕	4	<b>419444</b>	1
	50-60Hz	220V	Blue	2P+⊕	6	<b>419426</b>	1
50-60Hz	220V	Blue	3P+⊕	9	<b>419439</b>	1	
50-60Hz	220V	Blue	3P+N+⊕	9	<b>419449</b>	1	
50-60Hz	400V	Red	2P+⊕	9	<b>419429</b>	1	
50-60Hz	400V	Red	3P+⊕	6	<b>419436</b>	1	
50-60Hz	400V	Red	3P+N+⊕	6	<b>419446</b>	1	
50-60Hz	500V	Black	2P+⊕	7	<b>419427</b>	1	
50-60Hz	500V	Black	3P+⊕	7	<b>419437</b>	1	
50-60Hz	500V	Black	3P+N+⊕	7	<b>419447</b>	1	
50-60Hz	690V	Black	3P+⊕	5	<b>419435</b>	1	
50-60Hz	690V	Black	3P+N+⊕	5	<b>419445</b>	1	
DC	>250V	Grey	2P+⊕	8	<b>419421</b>	1	
100-300Hz	>50V	Green	2P+⊕	10	<b>419420</b>	1	
100-300Hz	>50V	Green	3P+⊕	10	<b>419430</b>	1	
100-300Hz	>50V	Green	3P+N+⊕	10	<b>419440</b>	1	
60Hz	440-460V	Red	3P+⊕	11	<b>419431</b>	1	
60Hz	440-460V	Red	3P+N+⊕	11	<b>419441</b>	1	
50-60Hz	>50V	Grey	2P+⊕	12	<b>419428</b>	1	
50-60Hz	>50V	Grey	3P+⊕	12	<b>419438</b>	1	
300-500Hz	>50V	Green	2P+⊕	2	<b>419422</b>	1	
300-500Hz	>50V	Green	3P+⊕	2	<b>419432</b>	1	
300-500Hz	>50V	Green	3P+N+⊕	2	<b>419442</b>	1	
DC	>50-250V	Grey	2P+⊕	3	<b>419423</b>	1	
50-60Hz	380-440V	Red	3P+⊕	3	<b>419433</b>	1	
50-60Hz	380-440V	Red	3P+N+⊕	3	<b>419443</b>	1	

Features: rotoswitches padlockable in position 0 and 1 with padlock code 419000.  
The sockets are designed to allow for padlocking, either in a stand-alone fashion or connected to the plugs. The padlock must have a min. shackle width of 10.5 mm, a height of 32 mm and a max. wire Ø of 3.5 mm.



**Handles**  
IP66/IP67/IP68/IP69

Rated current (A)	Poles	Entry cable diameter (mm)	Palazzoli code	Pack Qty
16	2P+⊕	6.3 - 18	<b>419001</b>	5
	3P+⊕	6.3 - 18	<b>419002</b>	5
	3P+N+⊕	9 - 23	<b>419003</b>	5
32	2P+⊕ / 3P+⊕	9 - 23		5
	3P+N+⊕	13 - 27	<b>419004</b>	5
63	2P+⊕ / 3P+⊕ / 3P+N+⊕	14 - 36	<b>419005</b>	5
125	2P+⊕ / 3P+⊕ / 3P+N+⊕	16 - 50	<b>419006</b>	5



**Straight panel-mounted flanges**  
IP66/IP67/IP68/IP69

Rated current (A)	Poles	Flange dimensions (mm)	Palazzoli code	Pack Qty
16	2P+⊕	65x83	<b>419021</b>	5
	3P+⊕	65x83	<b>419022</b>	5
	3P+N+⊕	65x83	<b>419023</b>	5
32	2P+⊕ / 3P+⊕	65x83		5
	3P+N+⊕	100x108	<b>419024</b>	5
63	2P+⊕ / 3P+⊕ / 3P+N+⊕	100 x 108	<b>419025</b>	5
125	2P+⊕ / 3P+⊕ / 3P+N+⊕	114x114	<b>419026</b>	5



**20° angled panel-mounted flanges**  
IP66/IP67/IP68/IP69

Rated current (A)	Poles	Flange dimensions (mm)	Palazzoli code	Pack Qty
16	2P+⊕	65x83	<b>419031</b>	5
	3P+⊕	65x83	<b>419032</b>	5
	3P+N+⊕	65x83	<b>419033</b>	5
32	2P+⊕ / 3P+⊕	65x83		5
	3P+N+⊕	100x108	<b>419034</b>	5
63	2P+⊕ / 3P+⊕ / 3P+N+⊕	100x108	<b>419035</b>	5
125	2P+⊕ / 3P+⊕ / 3P+N+⊕	114x114	<b>419036</b>	5



**Padlock for**  
rotoswitched sockets

Wire diameter (mm)	Material	Palazzoli code	Pack Qty
2.75	steel - brass	<b>419000</b>	1

Uses: the padlock prevents the safety ring from turning.



**65° angled wall-mounted boxes**  
modular with TAIS system  
IP66/IP67/IP68/IP69

For flange with dimensions (mm)	Box dimensions (mm)	Palazzoli code	Pack Qty
65x83	92x125	<b>532131</b>	1
100x108	125x185	<b>532132</b>	1
114x114	-	<b>532133</b>	1



**Wall-mounted single gang boxes**  
modular with TAIS system  
IP66/IP67/IP68/IP69

For flange with dimensions (mm)	Box dimensions (mm)	Palazzoli code	Pack Qty
65x83	92x125	<b>532101</b>	1
100x108	125x185	<b>532102</b>	1
114x114	-	<b>532103</b>	1



**Wall-mounted double gang boxes**  
modular with TAIS system  
IP66/IP67/IP68/IP69

For flange with dimensions (mm)	Box dimensions (mm)	Palazzoli code	Pack Qty
2x(65x83)	92x255	<b>532121</b>	1
2x(100x108)	125x352	<b>532122</b>	1



**Blind flanges**  
for wall-mounted boxes  
IP66/IP67/IP68/IP69

Flange dimensions (mm)	Palazzoli code	Pack Qty
65x83	<b>532843</b>	1
100x108	<b>532842</b>	1

# TAIS

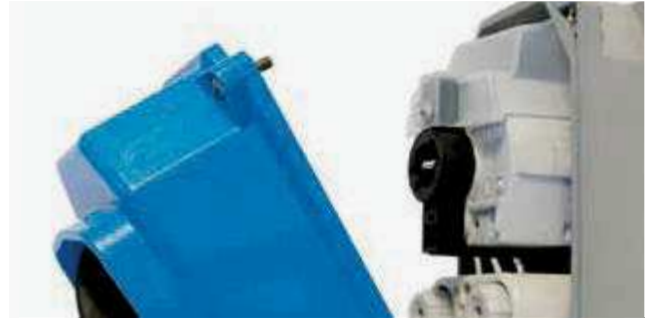






# TAIS

The most complete range of interlocked socket-outlets and isolator switches. Once installed, they last forever



All products of the TAIS series are made in Palazzoli thermosetting GRP, a material that does not propagate flame, does not produce toxic gases, is resistant to chemicals over time and is as non-deformable as metal.

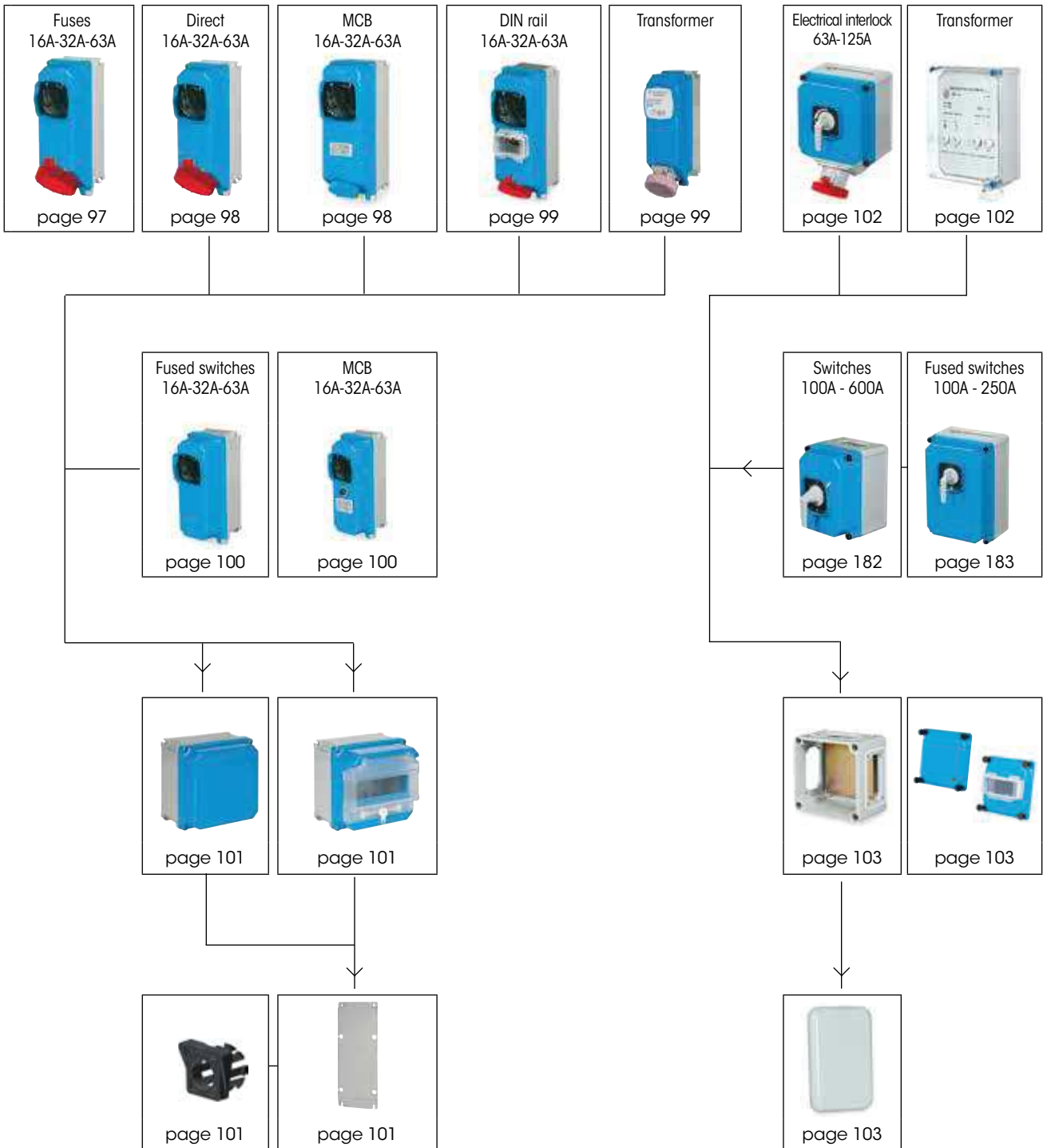
The "heart" of TAIS is an isolator switch of the AC3-AC23A category at rated current that allows a safe operation even with highly inductive loads.



The fuse holder base and the interlock system are tightly fitted to the bottom of each socket and are composed of ceramic and steel that ensure maximum safety.

The TAIS features an exclusive patented handle that allows you to identify the switch status even from a long distance. The handle can be padlocked in position 0 and 1.

Suitable for use in cellars, port areas, airports, containers, cold storage and industrial plants.



The Easy Composer software which enables to easily create customised distribution boards is available on the [www.palazzoli.com](http://www.palazzoli.com) website.

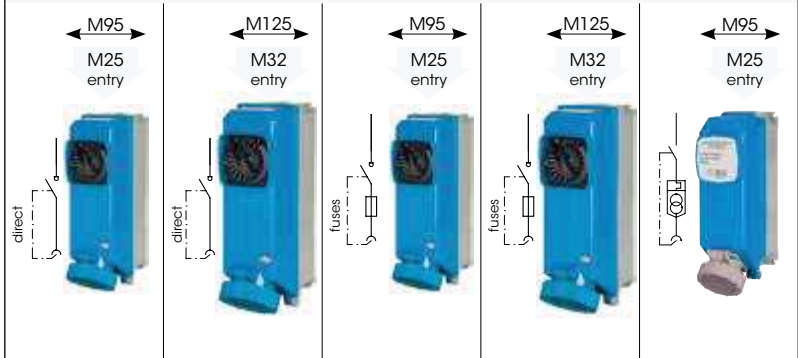


**COUPLING FITTINGS**



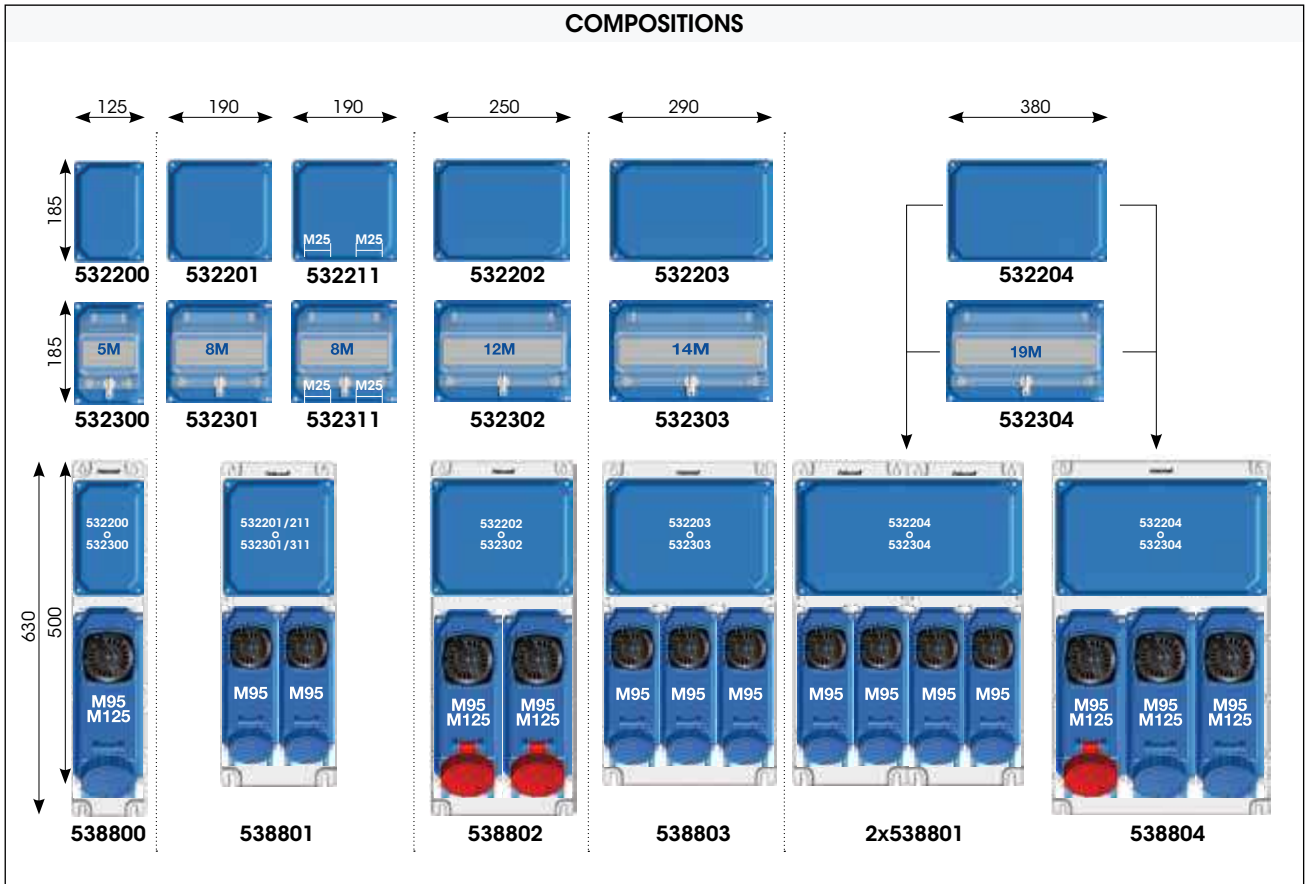
M25 **538425**  
M32 **538432**

**THE MOST COMMONLY USED INTERLOCKED SOCKET-OUTLETS**



<b>16A</b>	230V	2P+⊕	<b>470126</b>		<b>472620</b>	
	400V	3P+⊕	<b>470136</b>		<b>472730</b>	
	400V	3P+N+⊕	<b>470146</b>		<b>472830</b>	
<b>32A</b>	230V	2P+⊕	<b>469226</b>		<b>468226</b>	
	400V	3P+⊕	<b>469236</b>		<b>468236</b>	
	400V	3P+N+⊕		<b>470246</b>		<b>472831</b>
<b>63A</b>	400V	3P+⊕		<b>470336</b>		<b>472732</b>
	400V	3P+N+⊕		<b>470346</b>		<b>472832</b>
<b>16A</b>	24V	2P 150 VA				<b>469873</b>

**COMPOSITIONS**





The industrial low voltage interlocked socket-outlets of the TAIS series are a range of products made in Palazzoli thermosetting GRP for heavy-duty applications, that comply with the IEC/EN 60309-1, IEC/EN 60309-2 and IEC/EN 60309-4 standards.

The system includes versions from 16A to 125A, with or without fuses, with MCB or with DIN rail that can be fitted with modular devices and with electrical interlock. The sockets feature a IP67 or IP66/IP67 protection rating and can be combined in compositions using the appropriate blind or transparent boxes. Versions above 32A feature Easy Contact receptacles for maximum contact performance over time and easier connection and disconnection operations.

The circuit protections, the fuses located in ceramic bases and the MCBs fixed on rail, are tightly fixed to the bottom of the socket and are accessible by opening the front lid in thermosetting GRP material. The interlock system is made with a steel bracket while the switch disconnecter is certified to the AC3-AC23A category at rated current.

Rated operating current:		16A	32A	63A	
Thermal current I <sub>th</sub>		A	16	32	63
AC21A	415V	A	16	32	63
	500V	A	16	32	63
AC22A	415V	A	16	32	63
	500V	A	16	32	63
AC23A	230V	A	16	32	63
	400V				
	500V				
AC23A	230V	kW	4.5	8.5	20
	400V		7.5	15	34
	500V		8.5	17	44
AC3	230V	kW	4.5	8.5	18
	400V		7.5	15	31
	500V		8.5	17	40

Wiring data:		16A	32A	63A
Entry cable sections	mm <sup>2</sup>	1 - 10		6 - 16
Tightening torque	Nm	2		

Compliance with standards	<b>IEC/EN 60309-1 IEC/EN 60309-2 IEC/EN 60309-4 IEC/EN 60947-3</b>
Material	<b>Palazzoli thermosetting GRP</b>
Protection rating (IP according to IEC/EN 60529)	<b>IP66/IP67 (Module 95) IP67 (Module 125-250)</b>
Colour	<b>RAL5015 (cover) RAL7042 (base)</b>
Resistance to abnormal heat and fire ("Glow Wire" according to IEC/EN 60695-2-10)	<b>960°C</b>
Flammability rating (according to UL94)	<b>V0</b>
Impact resistance (IK grade according to IEC/EN 62262)	<b>IK10</b>
Rated current	<b>16A - 32A - 63A - 125A</b>
Operating voltage	<b>24V - 690V</b>
Operating frequency	<b>50-60Hz</b>
Insulation voltage	<b>690V</b>
Insulation class	<b>II □</b>
Storage temperature	<b>-50°C - +80°C</b>
Operating temperature	<b>-25°C - +50°C</b>



**Resistance to chemical agents**

WATER	SALINE SOLUTION	ACIDS		BASES		SOLVENTS			
		CONCENTRATED	DILUTED	CONCENTRATED	DILUTED	ALCOHOL	ACETONE	PERCHLORO-ETHYLENE	BENZENE
↑	↑	→	↑	↑	↑	↑	↑	↑	↑
OILS		FATS		AMMONIA	OXIDISERS	INORGANIC SALTS	GASOLINE	DETERGENTS	U.V. RAYS
MINERAL	VEGETABLE	ANIMAL	SYNTHETIC						
↑	↑	↑	↑	↑	↑	↑	↑	↑	↑

Legend: ↑ high resistance → partial resistance





MODULE 95



**Modular interlocked socket-outlets** in thermosetting GRP with fuse holder base for wall-mounting **IP66/IP67**

Rated current (A)	Frequency	Rated voltage	Voltage colour	Poles	h ref.	Palazzoli code	Pack Qty	
16	50-60Hz	110V	●	2P+⊕	4	<b>472610</b>	1	
	50-60Hz	110V	●	3P+⊕	4	<b>472710</b>	1	
	50-60Hz	110V	●	3P+N+⊕	4	<b>472810</b>	1	
	50-60Hz	230V	●	2P+⊕	6	<b>472620</b>	1	
	50-60Hz	230V	●	3P+⊕	9	<b>472720</b>	1	
	50-60Hz	230V	●	3P+N+⊕	9	<b>472820</b>	1	
	50-60Hz	400V	●	2P+⊕	9	<b>472630</b>	1	
	50-60Hz	400V	●	3P+⊕	6	<b>472730</b>	1	
	50-60Hz	400V	●	3P+N+⊕	6	<b>472830</b>	1	
	entry M25	50-60Hz	500V	●	3P+⊕	7	<b>472750</b>	1
	fuses E16 NDZ	50-60Hz	500V	●	3P+N+⊕	7	<b>472840</b>	1
		50-60Hz	>50V *	●	2P+⊕	12	<b>472640</b>	1
		50-60Hz	>50V *	●	3P+⊕	12	<b>472760</b>	1
		100-300Hz	>50V	●	2P+⊕	10	<b>472650</b>	1
		100-300Hz	>50V	●	3P+⊕	10	<b>472780</b>	1
		100-300Hz	>50V	●	3P+N+⊕	10	<b>472870</b>	1
>300-500Hz		>50V	●	2P+⊕	2	<b>472660</b>	1	
>300-500Hz		>50V	●	3P+⊕	2	<b>472790</b>	1	
>300-500Hz		>50V	●	3P+N+⊕	2	<b>472880</b>	1	
60Hz		440-460V	●	3P+⊕	11	<b>472740</b>	1	
60Hz	440-460V	●	3P+N+⊕	11	<b>472850</b>	1		
DC	>50-250V	●	2P+⊕	3	<b>472670</b>	1		
32	50-60Hz	110V	●	2P+⊕	4	<b>468224</b>	1	
	50-60Hz	110V	●	3P+⊕	4	<b>468234</b>	1	
	entry M25	50-60Hz	230V	●	2P+⊕	6	<b>468226</b>	1
	50-60Hz	230V	●	3P+⊕	9	<b>468239</b>	1	
	fuses E16 NDZ	50-60Hz	400V	●	2P+⊕	9	<b>468229</b>	1
		50-60Hz	400V	●	3P+⊕	6	<b>468236</b>	1
50/60Hz	380/440V	●	3P+⊕	3	<b>468233</b>	1		

\* For isolation transformer

**Features:** the handle can be padlocked. Fuses not included.  
**Notes:** special configurations on request.

**Technical accessories:**



MODULE 125



**Modular interlocked socket-outlets** in thermosetting GRP with fuse holder base for wall-mounting **IP67**



Rated current (A)	Frequency	Rated voltage	Voltage colour	Poles	h ref.	Palazzoli code	Pack Qty	
32	50-60Hz	110V	●	2P+⊕	4	<b>472611</b>	1	
	50-60Hz	110V	●	3P+⊕	4	<b>472711</b>	1	
	50-60Hz	110V	●	3P+N+⊕	4	<b>472811</b>	1	
	50-60Hz	230V	●	2P+⊕	6	<b>472621</b>	1	
	50-60Hz	230V	●	3P+⊕	9	<b>472721</b>	1	
	50-60Hz	230V	●	3P+N+⊕	9	<b>472821</b>	1	
	50-60Hz	400V	●	2P+⊕	9	<b>472631</b>	1	
	50-60Hz	400V	●	3P+⊕	6	<b>472731</b>	1	
	50-60Hz	400V	●	3P+N+⊕	6	<b>472831</b>	1	
	entry M32	50-60Hz	500V	●	3P+⊕	7	<b>472751</b>	1
	fuses E33 DIII	50-60Hz	500V	●	3P+N+⊕	7	<b>472841</b>	1
		50-60Hz	690V	●	3P+⊕	5	<b>472754</b>	1
		50-60Hz	690V	●	3P+N+⊕	5	<b>472854</b>	1
		50-60Hz	>50V *	●	2P+⊕	12	<b>472641</b>	1
		50-60Hz	>50V *	●	3P+⊕	12	<b>472761</b>	1
		100-300Hz	>50V	●	2P+⊕	10	<b>472651</b>	1
100-300Hz		>50V	●	3P+⊕	10	<b>472781</b>	1	
100-300Hz		>50V	●	3P+N+⊕	10	<b>472871</b>	1	
>300-500Hz		>50V	●	2P+⊕	2	<b>472661</b>	1	
>300-500Hz		>50V	●	3P+⊕	2	<b>472791</b>	1	
60Hz	440-460V	●	3P+⊕	11	<b>472741</b>	1		
60Hz	440-460V	●	3P+N+⊕	11	<b>472851</b>	1		
DC	>50-250V	●	2P+⊕	3	<b>472671</b>	1		
63	50/60Hz	380/440V	●	3P+⊕	3	<b>472771</b>	1	
	50/60Hz	380/440V	●	3P+N+⊕	3	<b>472861</b>	1	
	entry M32	50-60Hz	110V	●	2P+⊕	4	<b>472612</b>	1
	50-60Hz	110V	●	3P+⊕	4	<b>472712</b>	1	
	50-60Hz	110V	●	3P+N+⊕	4	<b>472812</b>	1	
	fuses E33 DIII	50-60Hz	230V	●	2P+⊕	6	<b>472622</b>	1
50-60Hz		230V	●	3P+⊕	9	<b>472722</b>	1	
50-60Hz		230V	●	3P+N+⊕	9	<b>472822</b>	1	
50-60Hz		400V	●	2P+⊕	9	<b>472632</b>	1	
50-60Hz		400V	●	3P+⊕	6	<b>472732</b>	1	
50-60Hz		400V	●	3P+N+⊕	6	<b>472832</b>	1	
50-60Hz		500V	●	3P+⊕	7	<b>472752</b>	1	
50-60Hz		500V	●	3P+N+⊕	7	<b>472842</b>	1	
50-60Hz		690V	●	3P+⊕	5	<b>472755</b>	1	
50-60Hz		690V	●	3P+N+⊕	5	<b>472855</b>	1	
50-60Hz	>50V *	●	2P+⊕	12	<b>472642</b>	1		
50-60Hz	>50V *	●	3P+⊕	12	<b>472762</b>	1		
60Hz	440-460V	●	3P+⊕	11	<b>472742</b>	1		
60Hz	440-460V	●	3P+N+⊕	11	<b>472852</b>	1		
DC	>50-250V	●	2P+⊕	3	<b>472672</b>	1		

\* For isolation transformer

**Features:** the handle can be padlocked. Fuses not included.  
**Notes:** special configurations on request.

**Technical accessories:**



Module 125 sockets are designed for possible entry from bottom side



**MODULE 125**



**Modular interlocked socket-outlets** in thermosetting GRP with MCB for wall-mounting **IP67**



Rated current (A)	Frequency	Rated voltage	Voltage colour	Poles	h ref.	Palazzoli code	Pack Qty	
16	50-60Hz	110V	Yellow	2P+⊕	4	<b>474210</b>	1	
	50-60Hz	110V	Yellow	3P+⊕	4	<b>474310</b>	1	
	50-60Hz	110V	Yellow	3P+N+⊕	4	<b>474410</b>	1	
	50-60Hz	230V	Blue	2P+⊕	6	<b>474220</b>	1	
	50-60Hz	230V	Blue	3P+⊕	9	<b>474320</b>	1	
	50-60Hz	230V	Blue	3P+N+⊕	9	<b>474420</b>	1	
	Switch 4.5kA curve C	50-60Hz	400V	Red	2P+⊕	9	<b>474230</b>	1
		50-60Hz	400V	Red	3P+⊕	6	<b>474330</b>	1
		50-60Hz	400V	Red	3P+N+⊕	6	<b>474430</b>	1
		60Hz	440-460V	Red	3P+⊕	11	<b>474340</b>	1
	60Hz	440-460V	Red	3P+N+⊕	11	<b>474450</b>	1	
	32	50-60Hz	110V	Yellow	2P+⊕	4	<b>474611</b>	1
50-60Hz		110V	Yellow	3P+⊕	4	<b>474711</b>	1	
50-60Hz		110V	Yellow	3P+N+⊕	4	<b>474811</b>	1	
50-60Hz		230V	Blue	2P+⊕	6	<b>474621</b>	1	
50-60Hz		230V	Blue	3P+⊕	9	<b>474721</b>	1	
50-60Hz		230V	Blue	3P+N+⊕	9	<b>474821</b>	1	
Switch 6kA curve C		50-60Hz	400V	Red	2P+⊕	9	<b>474631</b>	1
		50-60Hz	400V	Red	3P+⊕	6	<b>474731</b>	1
		50-60Hz	400V	Red	3P+N+⊕	6	<b>474831</b>	1
		60Hz	440-460V	Red	3P+⊕	11	<b>474741</b>	1
60Hz		440-460V	Red	3P+N+⊕	11	<b>474851</b>	1	
50/60Hz		380/440V	Red	3P+⊕	3	<b>474771</b>	1	
63	50-60Hz	110V	Yellow	2P+⊕	4	<b>474612</b>	1	
	50-60Hz	110V	Yellow	3P+⊕	4	<b>474712</b>	1	
	50-60Hz	110V	Yellow	3P+N+⊕	4	<b>474812</b>	1	
	50-60Hz	230V	Blue	2P+⊕	6	<b>474622</b>	1	
	50-60Hz	230V	Blue	3P+⊕	9	<b>474722</b>	1	
	50-60Hz	230V	Blue	3P+N+⊕	9	<b>474822</b>	1	
	Switch 10kA curve C	50-60Hz	400V	Red	2P+⊕	9	<b>474632</b>	1
		50-60Hz	400V	Red	3P+⊕	6	<b>474732</b>	1
		50-60Hz	400V	Red	3P+N+⊕	6	<b>474832</b>	1
		60Hz	440-460V	Red	3P+⊕	11	<b>474742</b>	1
	60Hz	440-460V	Red	3P+N+⊕	11	<b>474852</b>	1	

**Features:** the handle can be padlocked. Voltage presence indicator.  
**Note:** special configurations on request.

**Technical accessories:**



Module 125 sockets are designed for possible entry from bottom side

**MODULE 95**



**Modular interlocked socket-outlets** in thermosetting GRP for wall-mounting 50-60Hz **IP66/IP67**

Rated current (A)	Rated voltage	Voltage colour	Poles	h ref.	Palazzoli code	Pack Qty
16	230V	Blue	2P+⊕	6	<b>470126</b>	1
	400V	Red	3P+⊕	6	<b>470136</b>	1
	400V	Red	3P+N+⊕	6	<b>470146</b>	1
32	230V	Blue	2P+⊕	6	<b>469226</b>	1
	400V	Red	3P+⊕	6	<b>469236</b>	1
	380/440V	Red	3P+⊕	3	<b>469233</b>	1

**Features:** the handle can be padlocked.  
**Note:** special configurations on request.

**MODULE 125**



**Modular interlocked socket-outlets** in thermosetting GRP for wall-mounting 50-60Hz **IP67**



Rated current (A)	Rated voltage	Voltage colour	Poles	h ref.	Palazzoli code	Pack Qty
16	110V	Yellow	2P+⊕	4	<b>467124</b>	1
	230V	Blue	2P+⊕	6	<b>467126</b>	1
	400V	Red	3P+⊕	6	<b>467136</b>	1
32	400V	Red	3P+N+⊕	6	<b>467146</b>	1
	230V	Blue	2P+⊕	6	<b>470226</b>	1
	400V	Red	3P+⊕	6	<b>470236</b>	1
63	400V	Red	3P+N+⊕	6	<b>470246</b>	1
	380/440V	Red	3P+⊕	3	<b>470233</b>	1
	230V	Blue	2P+⊕	6	<b>470326</b>	1
M32 entry	400V	Red	3P+⊕	6	<b>470336</b>	1
	400V	Red	3P+N+⊕	6	<b>470346</b>	1

**Features:** the handle can be padlocked.  
**Note:** special configurations on request.

**Technical accessories:**



Module 125 sockets are designed for possible entry from bottom side



**MODULE 125**



**Modular interlocked socket-outlets**  
in thermosetting GRP  
with **DIN rail** for wall-mounting  
50-60Hz **IP67**



Rated current (A)	Rated voltage	Voltage colour	Poles	h ref.	Palazzoli code	Pack Qty
16 M25 entry 4 modules	230V		2P+⊕	6	<b>472020</b>	1
	400V		3P+⊕	6	<b>472130</b>	1
	400V		3P+N+⊕	6	<b>472240</b>	1
32 M32 entry 4 modules	230V		2P+⊕	6	<b>472021</b>	1
	400V		3P+⊕	6	<b>472131</b>	1
	400V		3P+N+⊕	6	<b>472241</b>	1
63 M32 entry 4 modules	380/440V		3P+⊕	3	<b>472133</b>	1
	230V		2P+⊕	6	<b>472022</b>	1
	400V		3P+⊕	6	<b>472132</b>	1
400V		3P+N+⊕	6	<b>472242</b>	1	

**Equipment included:** all sockets are pre-wired up to the DIN rail.  
**Features:** padlockable lid and with tamper-proof screw.  
**Notes:** special configurations on request.

**Technical accessories:**



**MODULE 95**



**Modular sockets**  
in thermosetting GRP  
with **safety transformer (SELV)**  
for wall-mounting  
50-60Hz **IP67**

Rated current (A)	Rated voltage	Poles	Power (VA)	Palazzoli code	Pack Qty
16 M25 entry	230/24V	2P	150	<b>469873</b>	1

**Features:** continuous class II duty safety transformer enabled by the plug by means of microswitch.

**MODULE 125**



**Modular sockets**  
in thermosetting GRP  
with **safety transformer (SELV)**  
for wall-mounting  
50-60Hz **IP67**

Rated current (A)	Rated voltage	Poles	Power (VA)	Palazzoli code	Pack Qty
16 M25 entry	230/24V	2P	144	<b>471873</b>	1
	400/24V	2P	144	<b>471893</b>	1

**Features:** continuous class II duty safety transformer enabled by the plug by means of microswitch.

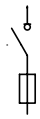
**Technical accessories:**



Module 125 sockets are designed for possible entry from bottom side



MODULE 95



**Switches** in thermosetting GRP with **fuse-holder base** for wall-mounting **IP66/IP67**

Rated current (A)	Poles	Entry Exit	Palazzoli code	Pack Qty
16 fuses e16 NDZ	3P	M25	<b>290163</b>	1
	4P	M25	<b>290164</b>	1
32 fuses e16 NDZ	3P	M25	<b>290323</b>	1
	4P	M25	<b>290324</b>	1

**Features:** the handle can be padlocked. Fuses not included.

MODULE 125



**Switches** in thermosetting GRP with **fuse-holder base** for wall-mounting **IP67**

Rated current (A)	Poles	Entry Exit	Palazzoli code	Pack Qty
63 fuses E33 DIII	3P	M32	<b>290762</b>	1
	4P	M32	<b>290763</b>	1

**Features:** the handle can be padlocked. Fuses not included.

**Technical accessories:**



MODULE 125



**MCBs** in thermosetting GRP with **signalling lamp** for wall-mounting **IP67**

Rated current (A)	Poles	Entry Exit	Palazzoli code	Pack Qty
16 switch 4.5kA curve C	3P	M25	<b>291163</b>	1
	4P	M25	<b>291164</b>	1
32 switch 6kA curve C	3P	M32	<b>291323</b>	1
	4P	M32	<b>291324</b>	1
63 switch 10kA curve C	3P	M32	<b>291633</b>	1
	4P	M32	<b>291634</b>	1

**Features:** the handle can be padlocked.

**Technical accessories:**



**EASY COMPOSER**

Software for the design and quotation of boards in thermosetting GRP



1. Select the socket type



2. Compose the distribution board



3. Calculate the cost and download the certificates



The software is a free web application available at [www.palazzoli.com](http://www.palazzoli.com)





**Boxes in thermosetting GRP with blind cover** for composition of socket boards **IP66/IP67**

Outer dimensions (mm)	Holes	Max. number of installable sockets		Palazzoli code	Pack Qty
		Mod. 95	Mod. 125		
125x185x125	-	1	1	<b>532200</b>	1
190x185x125	-	2	-	<b>532201</b>	1
190x185x125	2xM25	2	-	<b>532211</b>	1
250x185x125	-	2	2	<b>532202</b>	1
290x185x125	-	3	-	<b>532203</b>	1
380x185x125	-	4	3	<b>532204</b>	1

**Equipment included:** code 532211 with 2 fittings M25 for rapid coupling.  
**Features:** supplied with drilling template.  
**Notes:** the following Palazzoli terminal blocks can be inserted into all boxes: 3x25mm<sup>2</sup>, 4x16mm<sup>2</sup>, 3x35mm<sup>2</sup>, 4x25mm<sup>2</sup>, 3x70mm<sup>2</sup>, 4x35mm<sup>2</sup>.



**Boxes in thermosetting GRP with transparent window** for composition of socket boards **IP66/IP67**

Outer dimensions (mm)	Holes	Max. number of installable sockets		No. of DIN modules	Palazzoli code	Pack Qty
		Mod. 95	Mod. 125			
125x185x150	-	1	1	5	<b>532300</b>	1
190x185x150	-	2	-	8	<b>532301</b>	1
190x185x150	2xM25	2	-	8	<b>532311</b>	1
250x185x150	-	2	2	12	<b>532302</b>	1
290x185x150	-	3	-	14	<b>532303</b>	1
380x185x150	-	4	3	19	<b>532304</b>	1

**Equipment included:** code 532311 with 2 fittings M25 for rapid coupling.  
**Features:** supplied with drilling template. Padlockable modular door.

**Technical accessories:**



**Back plates** in galvanised steel for TAIS boxes

For quick-mounting boxes with dimensions (mm)	Palazzoli code	Pack Qty
125x185	<b>532700</b>	1
190x185	<b>532701</b>	1
250x185	<b>532702</b>	1
290x185	<b>532703</b>	1
380x185	<b>532704</b>	1

**Uses:** for fastening terminal blocks or non-modular devices.



**Fittings for rapid coupling** in technopolymer for composition of socket boards **IP66/IP67**

Hole type	Mountinghole (mm)	Max diameter for cable passage (mm)	Palazzoli code	Pack Qty
M25	25.5	16	<b>538425</b>	1
M32	32.5	20	<b>538432</b>	1



**Tamper-proof kit** for sealing

Screw type	Description	Palazzoli code	Pack Qty
M5x20	stainless steel screws	<b>532100</b>	1

**Features:** cylindrical head hexagonal slot screws and 90° double crossed drilling.



**Mounting plates** in thermosetting GRP with **guided system** for composition of socket boards

Outer dimensions (mm)	Max. number of installable sockets		Palazzoli code	Pack Qty
	Mod. 95	Mod. 125		
125x630	1	1	<b>538800</b>	1
190x500	2	-	<b>538801</b>	1
250x630	2	2	<b>538802</b>	1
290x500	3	-	<b>538803</b>	1
380x630	3	3	<b>538804</b>	1

**Equipment included:** built-in threaded metal dowels, supplied with screws and stainless steel washers for fastening.



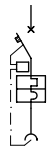
**Coupling fitting** for mounting plates

For mounting plate code	Palazzoli code	Pack Qty
538800, 538801, 538802, 538803, 538804, 538703, 538711, 538712	<b>538791</b>	50

**Uses:** these snap-on devices are fixed into their housings on the base plates for interlocked socket-outlets.



MODULE 250



**Socket-outlets** in thermosetting GRP with **electrical interlock** and **MCCB** for wall-mounting 50-60Hz **IP67**



Rated current (A)	Rated voltage	Voltage colour	Poles	h ref.	Palazzoli code	Pack Qty
63 window b	400V	●	3P+⊕	6	<b>478336</b>	1
	400V	●	3P+N+⊕	6	<b>478346</b>	1
	500V	●	3P+⊕	7	<b>478337</b>	1
	500V	●	3P+N+⊕	7	<b>478347</b>	1
125 window b	400V	●	3P+⊕	6	<b>478436</b>	1
	400V	●	3P+N+⊕	6	<b>478446</b>	1
	500V	●	3P+⊕	7	<b>478437</b>	1
	500V	●	3P+N+⊕	7	<b>478447</b>	1

**Features:** complete with pilot contact used for the electrical interlock. Sealable screws.

MODULE 250



**Modular socket-outlets** in thermosetting GRP with **electrical interlock** **MCCB** and **RCD** for wall-mounting 50-60Hz **IP67**



Rated current (A)	Rated voltage	Voltage colour	Poles	h ref.	Palazzoli code	Pack Qty
63 window b	400V	●	3P+⊕	6	<b>476336</b>	1
	400V	●	3P+N+⊕	6	<b>476346</b>	1
	500V	●	3P+⊕	7	<b>476337</b>	1
	500V	●	3P+N+⊕	7	<b>476347</b>	1
125 window b	400V	●	3P+⊕	6	<b>476436</b>	1
	400V	●	3P+N+⊕	6	<b>476446</b>	1
	500V	●	3P+⊕	7	<b>476437</b>	1
	500V	●	3P+N+⊕	7	<b>476447</b>	1

**Features:** complete with pilot contact used for the electrical interlock. Sealable screws.

**Technical accessories:**



MODULE 250



**Modular sockets** in thermosetting GRP with safety **transformer (SELV)** for wall-mounting 50-60Hz **IP67**

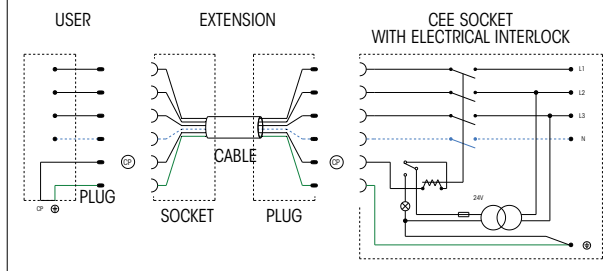
Rated current (A)	Rated voltage	Poles	h ref.	Palazzoli code	Pack Qty
32 window b	230/48V~	2P	720	<b>471819</b>	1
	400/48V~	2P	720	<b>471839</b>	1

**Features:** continuous class II duty safety transformer enabled by the plug by means of microswitch. Sealable screws.

**Technical accessories:**

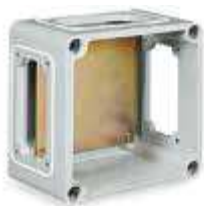


**CONNECTING SCHEME**



**FEATURES OF THE ELECTRICALLY INTERLOCKED SOCKET PROTECTION**

<b>MCCB</b>	Rated impulse seal voltage $U_i$	800V
	Rated impulse-withstand voltage $U_{imp}$	8kV
	Breaking capacity $I_{cu}$ (400V)	8kA
	Breaking capacity $I_{cu}$ (500V)	18kA
	Mechanical duration	25000 operations
	Electrical duration	8000 operations
	Overload protection regulation	0.7-1 x In
	Short-circuit protection	10 x Neutral protection
	50%	
<b>RCD</b>	Protection type	A - AC
	Operating voltage	85-690V
	Operating frequency	45-66Hz
	Failure frequency	50-60Hz
	Intervention threshold regulation	0.03A - 0.1A - 0.3A - 0.5A - 1A - 3A
	Intervention time	instantaneous
	Absorbed power	<5W 690Vac

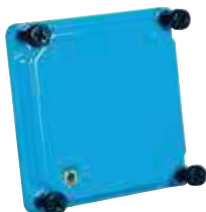


**Boxes** in thermosetting GRP  
for composition  
of socket boards  
**IP67**

Outer dimensions (mm)	Window type	Installable socket module	Palazzoli code	Pack Qty
		2x95/2x125	<b>531220</b>	1
250x185x115		1 x Win. "b" 2x95/2x125/1x250	<b>531221</b>	1
		1 x Win. "b" 2x95/2x125/1x250	<b>531331</b>	1

**Equipment included:** back plate. Drilling template.  
**Notes:** complete series at page 151.

**Technical accessories:**



**Blind low covers**  
in thermosetting GRP  
for TAIS Grande boxes  
**IP67**

For boxes with dimensions (mm)	Cover height (mm)	Palazzoli code	Pack Qty
250x185	25	<b>535321</b>	1

**Equipment included:** complete with captive screws that can be sealed.



**Windowed covers**  
in polycarbonate  
for TAIS Grande boxes  
**IP67**

For boxes with dimensions (mm)	Lid height (mm)	No. of DIN modules	Palazzoli code	Pack Qty
250x185	80	11	<b>535643</b>	1

**Equipment included:** complete with captive screws that can be sealed, DIN rail and small parts for fastening on a plate.  
**Features:** padlockable lid and with tamper-proof screw.



**Flat blind flanges**  
in thermosetting GRP  
for windowed walls  
**IP67**

Type	Window dimensions (mm)	Flange height (mm)	Palazzoli code	Pack Qty
a	110x60	15	<b>538110</b>	2
b	175x60	15	<b>538210</b>	2

**Uses:** closing the cable entry windows. Holes can be drilled for applying cable glands.

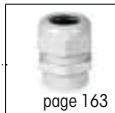


**Blind flanges raised**  
in thermosetting GRP  
for windowed walls  
**IP67**

Type	Window dimensions (mm)	Flange height (mm)	Palazzoli code	Pack Qty
a	110x60	45	<b>538130</b>	2
b	175x60	45	<b>538230</b>	2

**Uses:** closing the cable entry windows. Holes can be drilled for applying cable glands. The increased height helps entry of large cables or pipes. They make wiring easier as they increase the internal volume of the enclosure.

**Technical accessories:**



**Supports for bus bars**  
for TAIS boxes

Installable on windows type	Installable bus bars (mm)	Palazzoli code	Pack Qty
a	3 x 16x4 (16x5 - 20x4 - 20x5), 2 by 16x4 (earth and neutral), 3 of ø 9 (auxiliary circuits)	<b>538180</b>	1
b	3 of 25x5 (25x6 - 32x5 - 32x6), 2 of 25x5 (earth and neutral) 3 of ø 11 (auxiliary circuits)	<b>538280</b>	1

**Uses:** they are used to facilitate the application of conductor busbars in watertight distribution boards composed of equipment in TAIS Grande modular insulating boxes with windows type 'a', 'b'.



**Boxes** in thermosetting GRP with **blind cover** for composition of socket boards **IP67**

Outer dimensions (mm)	Window type	Installable socket module	Power dissipation (W)	Palazzoli code	Pack Qty
125x125x125	Blind walls	95 / 125	13	<b>532016</b>	1
185x125x125	Blind walls	95 + 95	15	<b>532017</b>	1
250x125x125	Blind walls	125 + 125	20	<b>532018</b>	1

**Features:** supplied with drilling template.



**Boxes** in thermosetting GRP with **transparent cover** for composition of series of socket boards **IP67**

Outer dimensions (mm)	Window type	Installable socket module	No. of DIN modules	Power dissipation (W)	Palazzoli code	Pack Qty
125x125x125	Blind walls	95 / 125	4	13	<b>532516</b>	1
185x125x125	Blind walls	95 + 95	6.5	15	<b>532557</b>	1
250x125x125	Blind walls	125 + 125	9	20	<b>532658</b>	1

**Features:** supplied with drilling template. Padlockable lid and with tamper-proof screw.



**Back plates** in galvanised steel for TAIS boxes

For box dimensions	For box code	Palazzoli code	Pack Qty
125x125	532016, 532016EX	<b>532716</b>	1
185x125	532017, 532017EX	<b>532717</b>	1
250x125	532018	<b>532718</b>	1

**Uses:** for fastening terminal blocks or non-modular devices.

**Technical accessories:**



**Adaptors** from Pg hole to metric hole **IP67**

Pg	From hole Metric	To metric hole	Palazzoli code	Pack Qty
21	M25	M25	<b>538421</b>	1
29	M32	M32	<b>538429</b>	1
36	M40	M40	<b>538436</b>	1

**Features:** they allow to couple sockets with Pg or metric hole to boxes with metric hole and viceversa.



**Mounting plates** in thermosetting GRP for composition of socket boards

Dimensions (mm)	No. of installable devices	Installable device module	Palazzoli code	Pack Qty
185x501	2	2X95	<b>538703</b>	1
125x630	1	95/125	<b>538711</b>	1
250x630	2	125+125/125+95/95+125	<b>538712</b>	1

**Equipment included:** built-in threaded metal dowels, supplied with screws and stainless steel washers for fastening.





**Transparent lids**  
in polycarbonate  
for **modular devices**

No. of DIN modules	Dimensions (mm)	Palazzoli code	Pack Qty
4	92x84x30	<b>538610</b>	10
6.5 or 7.5	152x84x30	<b>538620</b>	10
9 or 11	214x84x30	<b>538630</b>	5

**Features:** padlockable lid and with tamper-proof screw.



**Milling cutters** cup shaped  
in steel for quick drill  
connection tungsten carbide  
gear teeth specific for  
thermosetting GRP

Hole type	Diameter (mm)	Palazzoli code	Pack Qty
Pg13.5	20	<b>538400</b>	1
Pg16	22		
Pg21	29		
Pg29	38		
Pg36	46	<b>538410</b>	1
M20	20.5		
M25	25.5		
M32	32.5		
M40	40.5		



**Cable glands** made  
of insulating material  
metric pitch with long thread  
**IP68**

Threading	Mounting hole (mm)	Fastening diameter (mm)	Thread length (mm)	Palazzoli code	Pack Qty
M12x1.5	12.5	2.5-6.5	15	<b>581112</b>	100
M16x1.5	16.5	3.5-10	15	<b>581116</b>	50
M20x1.5	20.5	7-14	15	<b>581120</b>	50
M25x1.5	25.5	9-18	15	<b>581125</b>	25
M32x1.5	32.5	14-25	15	<b>581132</b>	20
M40x1.5	40.5	18-32	16	<b>581140</b>	10
M50x1.5	50.5	24-38.5	16	<b>581150</b>	5
M63x1.5	63.5	35-48	16	<b>581163</b>	5



**Locknuts**  
in insulating material  
with **metric threading**

Threading	Palazzoli code	Pack Qty
M12x1.5	<b>581212</b>	50
M16x1.5	<b>581216</b>	50
M20x1.5	<b>581220</b>	50
M25x1.5	<b>581225</b>	50
M32x1.5	<b>581232</b>	50
M40x1.5	<b>581240</b>	20
M50x1.5	<b>581250</b>	10
M63x1.5	<b>581263</b>	5

**Uses:** for fixing cable glands with metric thread on walls with through-holes.

# ULYSSE





## ULYSSE

You can save installation time by 30%, thanks to the pre-wired sockets and mounting with only two screws



Pre-wired sockets and the easy quick fitting system make ULYSSE the quickest to install in the market of heavy-duty interlocked socket-outlets.



With just a few codes you can realize endless installation solutions. Also the 63A socket is perfectly modular which allows to keep the quick installation characteristics and maintain the valuable aesthetic appearance.

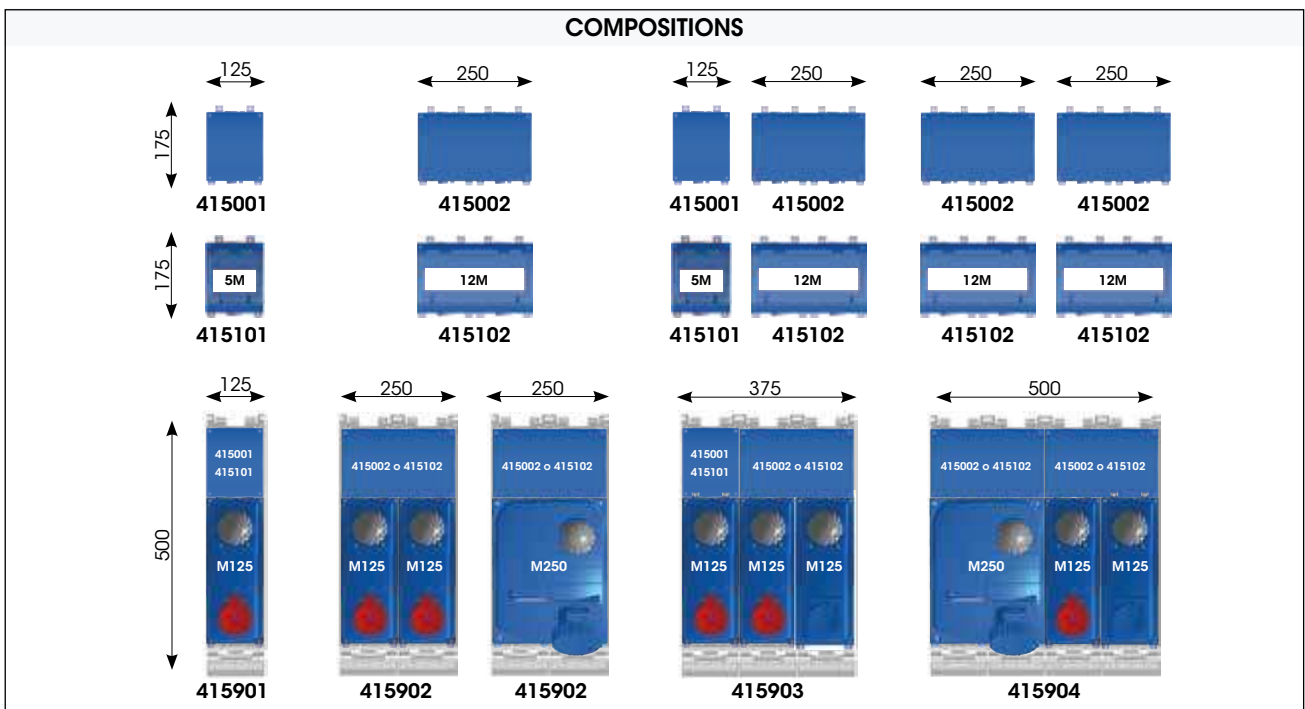
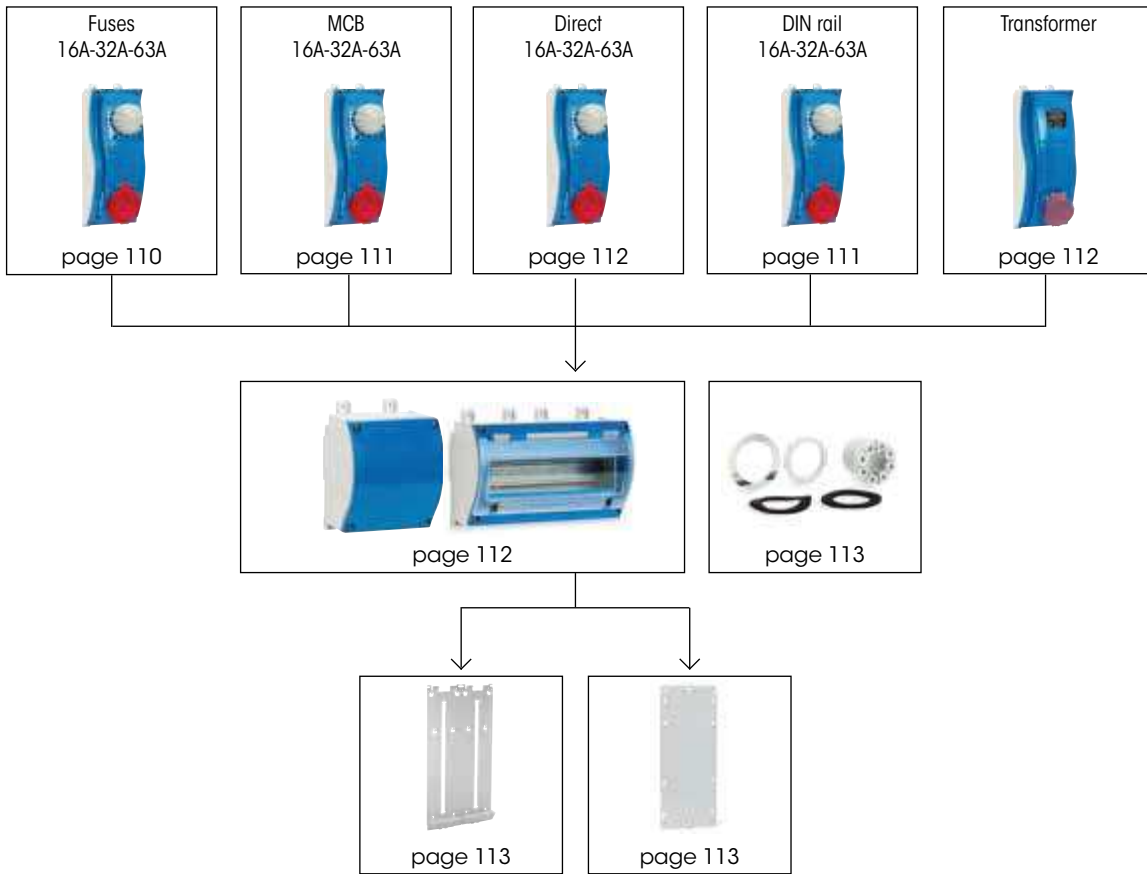


Design and expertise create a new kind of operation with semi spherical shape, easy to handle even with gloves on and padlockable in 0 and 1 positions.



The double protection rating IP66 and IP67 guarantees resistance against powerful jets of water (IP66) and protection against accidental immersion (IP67).

Suitable for touristic port quays, plants, cellars, warehouses, garages, car parking, buildings and rooms with vapour generators. The white version (on demand) is particularly suitable for food processing industries and medical areas.



The Easy Composer software which enables to easily create customised distribution boards is available on the [www.palazzoli.com](http://www.palazzoli.com) website.





The industrial low-voltage interlocked socket-outlets of the ULYSSE series are a range of products made in Palazzoli thermosetting GRP for heavy-duty applications, that comply with the IEC/EN 60309-1, IEC/EN 60309-2 and IEC/EN 60309-4 standards.

The system includes versions from 16A to 63A, with or without fuses, with MCB and with DIN rail that can be fitted with modular devices.

All sockets feature a IP66/IP67 protection rating and can be combined in compositions using the appropriate blind or transparent boxes.

The system is completely modular, all the sockets are pre-wired and can be snap-mounted on the steel plate guaranteeing the coupling without any fittings. Versions above 32A feature Easy Contact receptacles for maximum contact performance over time and easier connection and disconnection operations.

The protections are located in the front part of the socket, behind a lid made in Palazzoli Thermosetting GRP. The interlock system is made with a steel bracket while the switch disconnecter is certified to the AC3-AC23A category at rated current.

Rated operating current:		16A	32A	63A	
Thermal current Ith		A	16	32	63
AC21A	415V	A	16	32	63
	500V	A	16	32	63
AC22A	415V	A	16	32	63
	500V	A	16	32	63
AC23A	230V	A	16	32	63
	400V				
	500V				
AC23A	230V	kW	4.5	8.5	20
	400V		7.5	15	34
	500V		8.5	17	44
AC3	230V	kW	4.5	8.5	18
	400V		7.5	15	31
	500V		8.5	17	40

Pre-wiring data:		16A	32A	63A
Cable section	mm <sup>2</sup>	2.5	6	10
Cable length	cm	40	40	40

Compliance with standards	<b>IEC/EN 60309-1 IEC/EN 60309-2 IEC/EN 60309-4 IEC/EN 60947-3</b>
Material	<b>Palazzoli thermosetting GRP</b>
Protection rating (IP according to IEC/EN 60529)	<b>IP66/IP67</b>
Colour	<b>RAL5015 (cover) RAL7035 (base)</b>
Resistance to abnormal heat and fire ("Glow Wire" according to IEC/EN 60695-2-10)	<b>960°C</b>
Flammability rating (according to UL94)	<b>V0</b>
Impact resistance (IK grade according to IEC/EN 62262)	<b>IK10</b>
Rated current	<b>16A - 32A - 63A</b>
Operating voltage	<b>24V - 440V</b>
Operating frequency	<b>50-60Hz</b>
Insulation voltage	<b>690V</b>
Insulation class	<b>II □</b>
Storage temperature	<b>-50°C - +80°C</b>
Operating temperature	<b>-25°C - +50°C</b>

**Resistance to chemical agents**

WATER	SALINE SOLUTION	ACIDS		BASES		SOLVENTS			
		CONCENTRATED	DILUTED	CONCENTRATED	DILUTED	ALCOHOL	ACETONE	PERCHLORO-ETHYLENE	BENZENE
↑	↑	→	↑	↑	↑	↑	↑	↑	↑
OILS		FATS		AMMONIA	OXIDISERS	INORGANIC SALTS	GASOLINE	DETERGENTS	U.V. RAYS
MINERAL	VEGETABLE	ANIMAL	SYNTHETIC						
↑	↑	↑	↑	↑	↑	↑	↑	↑	↑

Legend: ↑ high resistance → partial resistance



MODULE 125



**Modular interlocked socket-outlets**  
in thermosetting GRP  
with **fuse holder base**  
for wall-mounting  
50-60Hz **IP66/IP67**

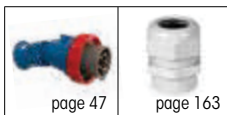


Pre-wired sockets

Rated current (A)	Rated voltage	Voltage colour	Poles	h ref.	Palazzoli code	Pack Qty
16 Pg29 entry fuses 10.3x38	110V	Yellow	2P+⊕	4	<b>400124</b>	1
	110V	Yellow	3P+⊕	4	<b>400134</b>	1
	110V	Yellow	3P+N+⊕	4	<b>400144</b>	1
	230V	Blue	2P+⊕	6	<b>400126</b>	1
	230V	Blue	3P+⊕	9	<b>400139</b>	1
	230V	Blue	3P+N+⊕	9	<b>400149</b>	1
	400V	Red	2P+⊕	9	<b>400129</b>	1
	400V	Red	3P+⊕	6	<b>400136</b>	1
	400V	Red	3P+N+⊕	6	<b>400146</b>	1
	32 Pg29 entry fuses 14x51	110V	Yellow	2P+⊕	4	<b>400224</b>
110V		Yellow	3P+⊕	4	<b>400234</b>	1
110V		Yellow	3P+N+⊕	4	<b>400244</b>	1
230V		Blue	2P+⊕	6	<b>400226</b>	1
230V		Blue	3P+⊕	9	<b>400239</b>	1
230V		Blue	3P+N+⊕	9	<b>400249</b>	1
400V		Red	2P+⊕	9	<b>400229</b>	1
400V		Red	3P+⊕	6	<b>400236</b>	1
400V		Red	3P+N+⊕	6	<b>400246</b>	1
380/440V		Red	3P+⊕	3	<b>400233</b>	1

**Equipment included:** all the sockets are pre-wired with stripped and numbered cables.  
**Features:** fuses not included. Padlockable handle.

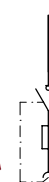
**Technical accessories:**



MODULE 250



**Modular interlocked socket-outlets**  
in thermosetting GRP  
with **fuse holder base**  
for wall-mounting  
50-60Hz **IP66/IP67**



Pre-wired sockets

Rated current (A)	Rated voltage	Voltage colour	Poles	h ref.	Palazzoli code	Pack Qty
63 2xPg29 entry fuses 22x58	110V	Yellow	2P+⊕	4	<b>400324</b>	1
	110V	Yellow	3P+⊕	4	<b>400334</b>	1
	110V	Yellow	3P+N+⊕	4	<b>400344</b>	1
	230V	Blue	2P+⊕	6	<b>400326</b>	1
	230V	Blue	3P+⊕	9	<b>400339</b>	1
	230V	Blue	3P+N+⊕	9	<b>400349</b>	1
	400V	Red	2P+⊕	9	<b>400329</b>	1
	400V	Red	3P+⊕	6	<b>400336</b>	1
	400V	Red	3P+N+⊕	6	<b>400346</b>	1

**Equipment included:** all the sockets are pre-wired with stripped and numbered cables.  
**Features:** the 63A socket is perfectly modular with the 16A and 32A versions (it has the same height and double width) and can be installed evenly with the same accessories. Fuses not included. Padlockable handle.

**Technical accessories:**



**EASY CONTACT**



The **multi-lamellar crown** in a silver-plated copper superalloy ensures:

- wider pin-plug contact surface
- easy removal of plugs from sockets
- perfect cleaning of the pin
- a solid and long-lasting electrical contact



MODULE 125



**Modular interlocked socket-outlets** in thermosetting GRP with **MCB** for wall-mounting 50-60Hz **IP66/IP67**



Pre-wired sockets

Rated current (A)	Rated voltage	Voltage colour	Poles	h ref.	Palazzoli code	Pack Qty
16 Pg29 entry MCB 4.5kA curve C	110V	Yellow	2P+⊕	4	<b>403124</b>	1
	110V	Yellow	3P+⊕	4	<b>403134</b>	1
	110V	Yellow	3P+N+⊕	4	<b>403144</b>	1
	230V	Blue	2P+⊕	6	<b>403126</b>	1
	230V	Blue	3P+⊕	9	<b>403139</b>	1
	230V	Blue	3P+N+⊕	9	<b>403149</b>	1
	400V	Red	2P+⊕	9	<b>403129</b>	1
	400V	Red	3P+⊕	6	<b>403136</b>	1
	400V	Red	3P+N+⊕	6	<b>403146</b>	1
	32 Pg29 entry MCB 6kA curve C	110V	Yellow	2P+⊕	4	<b>403224</b>
110V		Yellow	3P+⊕	4	<b>403234</b>	1
110V		Yellow	3P+N+⊕	4	<b>403244</b>	1
230V		Blue	2P+⊕	6	<b>403226</b>	1
230V		Blue	3P+⊕	9	<b>403239</b>	1
230V		Blue	3P+N+⊕	9	<b>403249</b>	1
400V		Red	2P+⊕	9	<b>403229</b>	1
400V		Red	3P+⊕	6	<b>403236</b>	1
400V		Red	3P+N+⊕	6	<b>403246</b>	1

**Equipment included:** all the sockets are pre-wired with stripped and numbered cables.  
**Features:** padlockable handle.

MODULE 250



**Modular interlocked socket-outlets** in thermosetting GRP with **MCB** for wall-mounting 50-60Hz **IP66/IP67**



Pre-wired sockets

Rated current (A)	Rated voltage	Voltage colour	Poles	h ref.	Palazzoli code	Pack Qty
63 2xPg29 entry	110V	Yellow	2P+⊕	4	<b>403324</b>	1
	110V	Yellow	3P+⊕	4	<b>403334</b>	1
	110V	Yellow	3P+N+⊕	4	<b>403344</b>	1
	230V	Blue	2P+⊕	6	<b>403326</b>	1
	230V	Blue	3P+⊕	9	<b>403339</b>	1
	230V	Blue	3P+N+⊕	9	<b>403349</b>	1
	400V	Red	2P+⊕	9	<b>403329</b>	1
	400V	Red	3P+⊕	6	<b>403336</b>	1
	400V	Red	3P+N+⊕	6	<b>403346</b>	1

**Equipment included:** all the sockets are pre-wired with stripped and numbered cables.  
**Features:** the 63A socket is perfectly modular with the 16A and 32A versions (it has the same height and double width) and can be installed evenly with the same accessories. Padlockable handle.

**Technical accessories:**



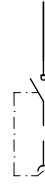
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MODULE 125



**Modular interlocked socket-outlets** in thermosetting GRP with **DIN rail** for wall-mounting 50-60Hz **IP66/IP67**



Pre-wired sockets

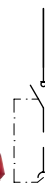
Rated current (A)	Rated voltage	Voltage colour	Poles	h ref.	Palazzoli code	Pack Qty
16 Pg29 entry 4.5 modules	230V	Blue	2P+⊕	6	<b>406126</b>	1
	400V	Red	3P+⊕	6	<b>406136</b>	1
	400V	Red	3P+N+⊕	6	<b>406146</b>	1
	230V	Blue	2P+⊕	6	<b>406226</b>	1
32 Pg29 entry 4.5 modules	400V	Red	3P+⊕	6	<b>406236</b>	1
	400V	Red	3P+N+⊕	6	<b>406246</b>	1
	380/440V	Red	3P+⊕	3	<b>406233</b>	1

**Equipment included:** all the sockets are pre-wired up to the DIN rail.  
**Features:** padlockable handle.

MODULE 250



**Modular interlocked socket-outlets** in thermosetting GRP with **DIN rail** for wall-mounting 50-60Hz **IP66/IP67**



Pre-wired sockets

Rated current (A)	Rated voltage	Voltage colour	Poles	h ref.	Palazzoli code	Pack Qty
63 2xPg29 entry 6 modules	230V	Blue	2P+⊕	6	<b>406326</b>	1
	400V	Red	3P+⊕	6	<b>406336</b>	1
	400V	Red	3P+N+⊕	6	<b>406346</b>	1

**Equipment included:** all the sockets are pre-wired up to the DIN rail.  
**Features:** the 63A socket is perfectly modular with the 16A and 32A versions (it has the same height and double width) and can be installed evenly with the same accessories. Padlockable handle.

**Technical accessories:**



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MODULE 125



**Modular interlocked socket-outlets** in thermosetting GRP for wall-mounting 50-60Hz **IP66/IP67**



Pre-wired sockets

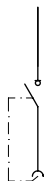
Rated current (A)	Rated voltage	Voltage colour	Poles	h ref.	Palazzoli code	Pack Qty
16 Pg29 entry	230V	Blue	2P+⊕	6	<b>408126</b>	1
	400V	Red	3P+⊕	6	<b>408136</b>	1
	400V	Red	3P+N+⊕	6	<b>408146</b>	1
32 Pg29 entry	230V	Blue	2P+⊕	6	<b>408226</b>	1
	400V	Red	3P+⊕	6	<b>408236</b>	1
	400V	Red	3P+N+⊕	6	<b>408246</b>	1
	380/440V	Red	3P+⊕	3	<b>408233</b>	1

**Equipment included:** all the sockets are pre-wired with stripped and numbered cables.  
**Features:** padlockable handle.

MODULE 250



**Modular interlocked socket-outlets** in thermosetting GRP for wall-mounting 50-60Hz **IP66/IP67**



Pre-wired sockets

Rated current (A)	Rated voltage	Voltage colour	Poles	h ref.	Palazzoli code	Pack Qty
63 2xPg29 entry	230V	Blue	2P+⊕	6	<b>408326</b>	1
	400V	Red	3P+⊕	6	<b>408336</b>	1
	400V	Red	3P+N+⊕	6	<b>408346</b>	1

**Equipment included:** all the sockets are pre-wired with stripped and numbered cables.  
**Features:** socket connected directly to the switch. The 63A socket is perfectly modular with the 16A and 32A versions (it has the same height and double width) and can be installed evenly with the same accessories. Padlockable handle.

**Technical accessories:**



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MODULE 125



**Modular socket** in thermosetting GRP with **safety transformer (SELV)** for wall-mounting 50-60Hz **IP66/IP67**



Pre-wired sockets

Rated current (A)	Rated voltage	Poles	Power (VA)	Palazzoli code	Pack Qty
16 Pg29 entry	230/24V~	2P	150	<b>409873</b>	1

**Equipment included:** all the sockets are pre-wired with stripped and numbered cables.  
**Features:** transformer with built-in thermal protection, enabled by a plug-activated bipolar microswitch.

**Technical accessories:**



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**Boxes** in thermosetting GRP with **blind cover** for composition of socket boards **IP66/IP67**

Outer dimensions (mm)	No. of upper entries	No. of lower entries	Palazzoli code	Pack Qty
125x175x128	blind	1	<b>415001</b>	1
250x175x128		2	<b>415002</b>	1

**Equipment included:** coupling fitting. Gaskets for interlocked socket-outlets.  
**Features:** smooth upper and side walls with references for drilling.



**Boxes** in thermosetting GRP with **transparent window** for composition of socket boards **IP66/IP67**

Outer dimensions (mm)	No. of DIN modules	No. of upper entries	No. of lower entries	Palazzoli code	Pack Qty
125x175x128	5	blind	1	<b>415101</b>	1
250x175x128	12		2	<b>415102</b>	1

**Equipment included:** modular covers, coupling fitting, gaskets for interlocked socket-outlets.  
**Features:** smooth upper and side walls with references for drilling. Padlockable cover.

**Technical accessories:**



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**Mounting plates** in steel with **easy clipping** for composition of socket boards

Dimensions (mm)	No. of installable devices		Palazzoli code	Pack Qty
	Mod. 125	Mod. 250		
125x500	1	-	<b>415901</b>	1
250x500	2	1	<b>415902</b>	1
375x500	3	1	<b>415903</b>	1
500x500	4	2	<b>415904</b>	1

**Equipment included:** small plates for side coupling of plates.



**Mounting plates** in thermosetting GRP for the composition of socket boards

Dimensions (mm)	No. of installable devices		Palazzoli code	Pack Qty
	Mod. 125	Mod. 250		
125x540	1	-	<b>415801</b>	1
250x540	2	1	<b>415802</b>	1

**Equipment included:** built-in threaded metal dowels, supplied with screws and stainless steel washers for fastening devices.

**Technical accessories:**



**DIN rails** for fixing modular devices in boxes with blind cover

No. of DIN modules	For box dimensions (mm)	Palazzoli code	Pack Qty
5	125x175x128	<b>415011</b>	1
12	250x175x128	<b>415012</b>	1



**Kit for coupling boxes IP66/IP67**

Fitting diameter	Mounting hole (mm)	Palazzoli code	Pack Qty
Pg21/29	29	<b>415000</b>	100

**Uses:** when preparing distribution boards, it allows side coupling of boxes.



**Safety lock** with keys

Shackle diameter (mm)	Material	Palazzoli code	Pack Qty
2.75	steel - brass	<b>419000</b>	1

**Uses:** the padlock prevents the knob from turning.



**Milling cutters** cup shaped in steel for quick drill connection tungsten carbide gear teeth specific for thermosetting GRP

Hole type	Diameter (mm)	Palazzoli code	Pack Qty
Pg13.5	20	<b>538400</b>	1
Pg16	22		
Pg21	29		
Pg29	38		
Pg36	46		
M20	20.5	<b>538410</b>	1
M25	25.5		
M32	32.5		
M40	40.5		

# ALUPRES





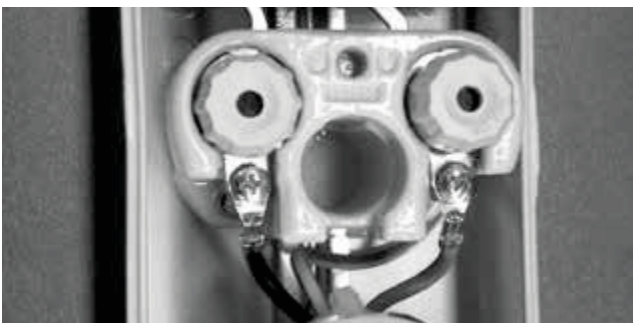
# ALUPRES

The most powerful series on the market,  
with versions from 16A up to 250A



ALUPRES products in aluminium alloy are passivised with fluoro-zirconium and powder painting surface treatment to improve the characteristics of resistance to chemical agents.

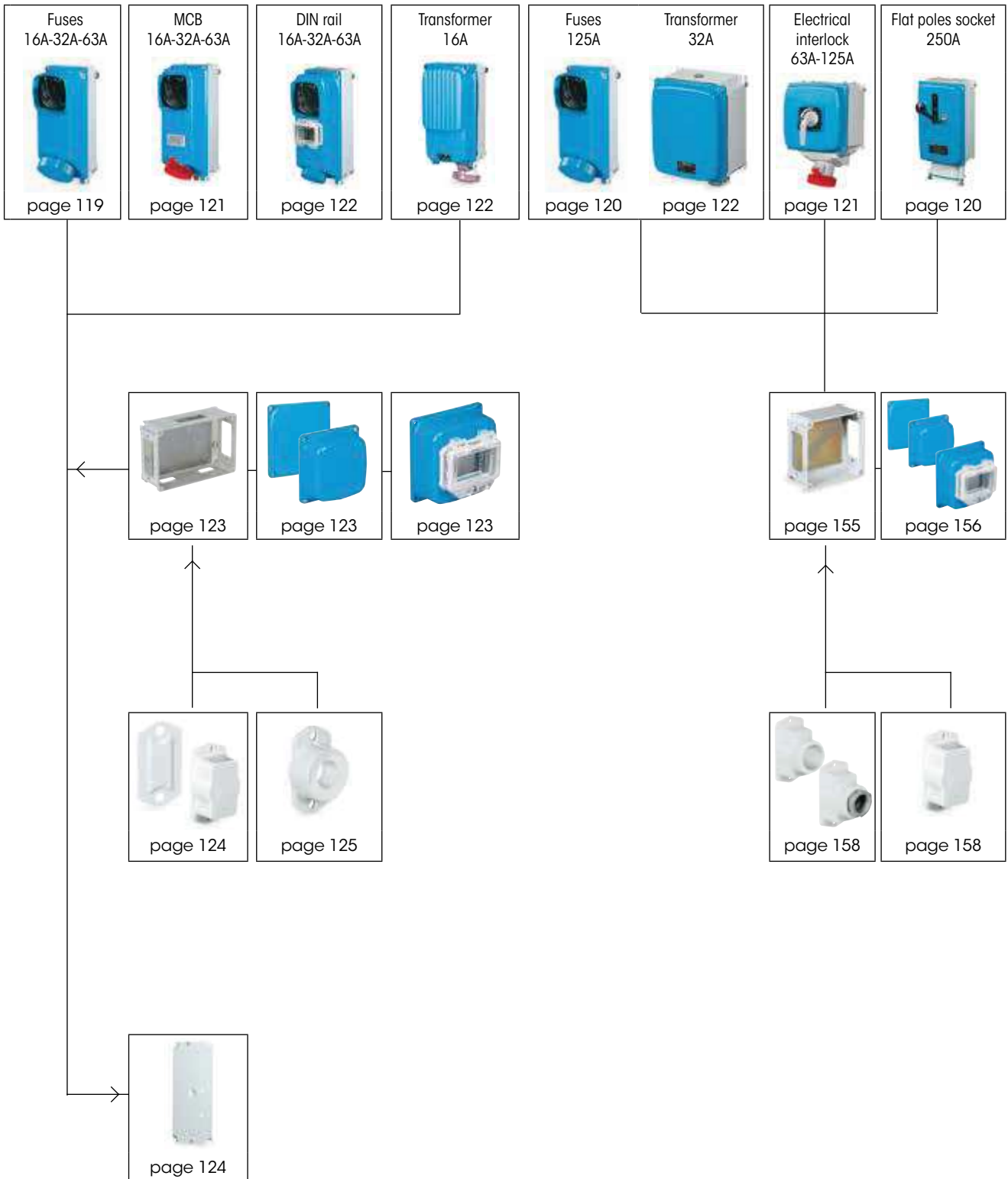
The "heart" of ALUPRES is an isolator switch with the AC3-AC23A category at rated current that allows a safe operation even with highly inductive loads.



The fuse holder base and the interlock system are tightly fitted to the bottom of each socket and are composed of ceramic and steel that ensure maximum safety.


The handle is padlockable in positions 0 and 1 to prevent unauthorised access.

Suitable for steel works, canning and deep freeze industries, foundries, blast furnaces, carpentries and, generally, areas with presence of highly abrasive substances.







 <p>Diazed fast fuses - 500V</p>		
Current (A)	Type fuses	Palazzoli code
16	E16 (NDz)	<b>348117</b>
32	E33 (DIII)	<b>348326</b>
63		<b>348333</b>



<b>16A</b>	230V	2P+⊕	●	<b>460126</b>	<b>466126</b>	<b>472333</b>	
	400V	3P+⊕	●	<b>460136</b>	<b>466136</b>	<b>472443</b>	
	400V	3P+N+⊕	●	<b>460146</b>	<b>466146</b>	<b>472453</b>	
<b>32A</b>	230V	2P+⊕	●		<b>460226</b>		<b>472336</b>
	400V	3P+⊕	●		<b>460236</b>		<b>472446</b>
	400V	3P+N+⊕	●		<b>460246</b>		<b>472456</b>
<b>63A</b>	400V	3P+⊕	●		<b>460336</b>		<b>472447</b>
	400V	3P+N+⊕	●		<b>460346</b>		<b>472457</b>
<b>16A</b>	24V	2P 230 VA	●				<b>471812</b>

**COMPOSITIONS**

Window	Projection	Palazzoli code
F1	5	<b>540091</b>
F2	5.5	<b>540032</b>

IP67 steel closing flange

Box 511217, Box 511214, Box 511227, Box 511236, Box 511237

Blind cover 515214, Blind cover 515224, Blind cover 515234

Transparent door 518204, Transparent door 518206, Transparent door 518209

Plate 532876, Plate 532826, Plate 532836, Plate 532856



The industrial low voltage interlocked socket-outlets of the ALUPRES series are a range of products made in aluminium alloy for heavy-duty applications, that comply with the IEC/EN 60309-1, IEC/EN 60309-2 and IEC/EN 60309-4 standards. The system includes versions from 16A to 250A, with or without fuses, with MCB or with DIN rail that can be fitted with modular devices and with electrical interlock. The sockets feature a protection rating up to IP67 and can be combined in compositions using the appropriate blind or transparent boxes.

Versions above 32A feature Easy Contact receptacles for maximum contact performance over time and easier connection and disconnection operations.

The circuit protections, the fuses located in ceramic bases and the MCBs fixed on rail, are tightly fixed to the bottom of the socket and are accessible by opening the front lid.

The casing is treated with ecological anticorrosion passivation with fluoro-zirconium and finished with hot polymerised non-toxic polyester paint.

The interlock system is made with a steel bracket while the switch disconnecter is certified to the AC3-AC23A category at rated current.

Rated operating current:			16A	32A	63A	125A	250A
<b>Thermal current I<sub>th</sub></b>	<b>A</b>	<b>16</b>	<b>32</b>	<b>63</b>	<b>125</b>	<b>250</b>	
AC21A	415V	A	16	32	63	125	250
	500V						
AC22A	415V	A	16	32	63	125	250
	500V						
AC23A	230V	A	16	32	63	100	200
	400V						
	500V						
AC23A	230V	kW	4.5	8.5	20	32	64
	400V		7.5	15	34	55	111
	500V		8.5	17	44	69	139
AC3	230V	kW	4.5	8.5	18	25	48
	400V		7.5	15	31	44	83
	500V		8.5	17	40	55	90

Wiring data:		16A	32A	63A	125A	250A
Entry cable sections	mm <sup>2</sup>	1 - 10		6 - 16	16 - 70	
Tightening torque	Nm	2			3	

Compliance with standards	<b>IEC/EN 60309-1</b> <b>IEC/EN 60309-2</b> <b>IEC/EN 60309-4</b> <b>IEC/EN 60947-3</b>
Material	<b>Aluminium alloy</b>
Surface treatment	<b>Passivation with fluoro-zirconium treatment</b>
Paint	<b>Hot-polymerised non-toxic polyester</b>
Protection rating (IP according to IEC/EN 60529)	<b>IP67 (16A÷125A version)</b> <b>IP55 (250A version)</b>
Colour	<b>RAL5012 (cover)</b> <b>RAL7035 (base)</b>
Impact resistance (IK grade according to IEC/EN 62262)	<b>IK10</b>
Rated current	<b>16A - 32A - 63A</b> <b>125A - 250A</b>
Operating voltage	<b>24V - 690V</b>
Operating frequency	<b>50-60Hz</b>
Insulation voltage	<b>690V</b>
Insulation class	<b>I</b>
Storage temperature	<b>-30°C - +70°C</b>
Operating temperature	<b>-25°C - +50°C</b>



### Resistance to chemical agents

WATER	SALINE SOLUTION	ACIDS		BASES		SOLVENTS			
		CONCENTRATED	DILUTED	CONCENTRATED	DILUTED	ALCOHOL	ACETONE	PERCHLORO-ETHYLENE	BENZENE
↑	↑	↓	→	→	↑	↑	↑	↑	↑
OILS		FATS		AMMONIA	OXIDISERS	INORGANIC SALTS	GASOLINE	DETERGENTS	U.V. RAYS
MINERAL	VEGETABLE	ANIMAL	SYNTHETIC						
↑	↑	↑	↑	↑	→	↑	↑	↑	↑

Legend: ↑ high resistance → partial resistance ↓ low resistance



MODULE 92



**Modular interlocked socket-outlets** in aluminium alloy with **fuse-holder** for wall-mounting **IP67**

Rated current (A)	Frequency	Rated voltage	Voltage colour	Poles	h ref.	Palazzoli code	Pack Qty	
16	50-60Hz	110V	Yellow	2P+⊕	4	<b>472233</b>	1	
	50-60Hz	110V	Yellow	3P+⊕	4	<b>472243</b>	1	
	50-60Hz	110V	Yellow	3P+N+⊕	4	<b>472253</b>	1	
	50-60Hz	230V	Blue	2P+⊕	6	<b>472333</b>	1	
	50-60Hz	230V	Blue	3P+⊕	9	<b>472343</b>	1	
	50-60Hz	230V	Blue	3P+N+⊕	9	<b>472353</b>	1	
	50-60Hz	400V	Red	2P+⊕	9	<b>472433</b>	1	
	50-60Hz	400V	Red	3P+⊕	6	<b>472443</b>	1	
	50-60Hz	400V	Red	3P+N+⊕	6	<b>472453</b>	1	
	F0 entry	50-60Hz	500V	Black	3P+⊕	7	<b>472543</b>	1
	fuses E16 NDZ	50-60Hz	500V	Black	3P+N+⊕	7	<b>472553</b>	1
		50-60Hz	>50V *	Grey	2P+⊕	12	<b>472323</b>	1
		50-60Hz	>50V *	Grey	3P+⊕	12	<b>472473</b>	1
		100-300Hz	>50V	Green	2P+⊕	10	<b>472263</b>	1
		100-300Hz	>50V	Green	3P+⊕	10	<b>472363</b>	1
		100-300Hz	>50V	Green	3P+N+⊕	10	<b>472283</b>	1
>300-500Hz		>50V	Green	2P+⊕	2	<b>472273</b>	1	
>300-500Hz		>50V	Green	3P+⊕	2	<b>472373</b>	1	
>300-500Hz		>50V	Green	3P+N+⊕	2	<b>472293</b>	1	
60Hz		440-460V	Red	3P+⊕	11	<b>472463</b>	1	
60Hz	440-460V	Red	3P+N+⊕	11	<b>472533</b>	1		
DC	>50-250V	Grey	2P+⊕	3	<b>472383</b>	1		

\* For isolation transformer

**Features:** the handle can be padlocked. Fuses not included.

**Note:** special configurations on request.

MODULE 125



**Modular interlocked socket-outlets** in aluminium alloy with **fuse-holder** for wall-mounting **IP67**



Rated current (A)	Frequency	Rated voltage	Voltage colour	Poles	h ref.	Palazzoli code	Pack Qty	
32	50-60Hz	110V	Yellow	2P+⊕	4	<b>472236</b>	1	
	50-60Hz	110V	Yellow	3P+⊕	4	<b>472246</b>	1	
	50-60Hz	110V	Yellow	3P+N+⊕	4	<b>472256</b>	1	
	50-60Hz	230V	Blue	2P+⊕	6	<b>472336</b>	1	
	50-60Hz	230V	Blue	3P+⊕	9	<b>472346</b>	1	
	50-60Hz	230V	Blue	3P+N+⊕	9	<b>472356</b>	1	
	50-60Hz	400V	Red	2P+⊕	9	<b>472436</b>	1	
	50-60Hz	400V	Red	3P+⊕	6	<b>472446</b>	1	
	50-60Hz	400V	Red	3P+N+⊕	6	<b>472456</b>	1	
	50-60Hz	500V	Black	3P+⊕	7	<b>472546</b>	1	
	50-60Hz	500V	Black	3P+N+⊕	7	<b>472556</b>	1	
	F1 entry	50-60Hz	690V	Black	3P+⊕	5	<b>472560</b>	1
	fuses DIII E33	50-60Hz	>50V *	Grey	2P+⊕	12	<b>472326</b>	1
		50-60Hz	>50V *	Grey	3P+⊕	12	<b>472496</b>	1
		100-300Hz	>50V	Green	2P+⊕	10	<b>472266</b>	1
		100-300Hz	>50V	Green	3P+⊕	10	<b>472116</b>	1
100-300Hz		>50V	Green	3P+N+⊕	10	<b>472286</b>	1	
>300-500Hz		>50V	Green	2P+⊕	2	<b>472276</b>	1	
>300-500Hz		>50V	Green	3P+⊕	2	<b>472126</b>	1	
>300-500Hz		>50V	Green	3P+N+⊕	2	<b>472296</b>	1	
60Hz		440-460V	Red	3P+⊕	11	<b>472466</b>	1	
60Hz		440-460V	Red	3P+N+⊕	11	<b>472536</b>	1	
DC	>50-250V	Grey	2P+⊕	3	<b>472386</b>	1		
50/60Hz	380/440V	Red	3P+⊕	3	<b>472486</b>	1		
50/60Hz	380-440V	Red	3P+N+⊕	3	<b>472586</b>	1		
50-60Hz	110V	Yellow	2P+⊕	4	<b>472237</b>	1		
50-60Hz	110V	Yellow	3P+⊕	4	<b>472247</b>	1		
50-60Hz	110V	Yellow	3P+N+⊕	4	<b>472257</b>	1		
50-60Hz	230V	Blue	2P+⊕	6	<b>472337</b>	1		
50-60Hz	230V	Blue	3P+⊕	9	<b>472347</b>	1		
50-60Hz	230V	Blue	3P+N+⊕	9	<b>472357</b>	1		
50-60Hz	400V	Red	2P+⊕	9	<b>472437</b>	1		
50-60Hz	400V	Red	3P+⊕	6	<b>472447</b>	1		
F1 entry	50-60Hz	400V	Red	3P+N+⊕	6	<b>472457</b>	1	
fuses DIII E33	50-60Hz	500V	Black	3P+⊕	7	<b>472547</b>	1	
	50-60Hz	500V	Black	3P+N+⊕	7	<b>472557</b>	1	
	50-60Hz	690V	Black	3P+⊕	5	<b>472558</b>	1	
	50-60Hz	690V	Black	3P+N+⊕	5	<b>472559</b>	1	
	50-60Hz	>50V *	Grey	2P+⊕	12	<b>472327</b>	1	
	50-60Hz	>50V *	Grey	3P+⊕	12	<b>472367</b>	1	
	60Hz	440-460V	Red	3P+⊕	11	<b>472387</b>	1	
	60Hz	440-460V	Red	3P+N+⊕	11	<b>472397</b>	1	
	DC	>50-250V	Grey	2P+⊕	3	<b>472377</b>	1	

\* For isolation transformer

**Features:** the handle can be padlocked. Fuses not included.

**Note:** special configurations on request.

**Technical accessories:**



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MODULE 185



**Modular interlocked socket-outlets** in aluminium alloy with **fuse-holder** for wall-mounting **IP67**



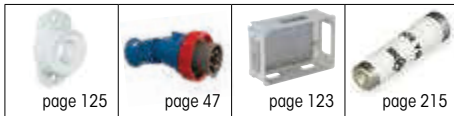
Rated current (A)	Frequency	Rated voltage	Voltage colour	Poles	h ref.	Palazzoli code	Pack Qty
125	50-60Hz	110V	Yellow	3P+⊕	4	<b>472248</b>	1
	50-60Hz	110V	Yellow	3P+N+⊕	4	<b>472258</b>	1
	50-60Hz	230V	Blue	3P+⊕	9	<b>472348</b>	1
	50-60Hz	230V	Blue	3P+N+⊕	9	<b>472358</b>	1
F3 entry	50-60Hz	400V	Red	3P+⊕	6	<b>472418</b>	1
	50-60Hz	400V	Red	3P+N+⊕	6	<b>472428</b>	1
fuses ACR GR 00	50-60Hz	500V	Black	3P+⊕	7	<b>472518</b>	1
	50-60Hz	500V	Black	3P+N+⊕	7	<b>472528</b>	1
	60Hz	440-460V	Red	3P+⊕	11	<b>472388</b>	1
	60Hz	440-460V	Red	3P+N+⊕	11	<b>472398</b>	1

\* For isolation transformer

**Features:** the handle can be padlocked. Fuses not included.

**Note:** special configurations on request.

**Technical accessories:**



MODULE 315



**Interlocked socket-outlets** in aluminium alloy with **aligned poles** and **fuse-holder** for wall-mounting **50-60Hz IP55**

Rated current (A)	Rated voltage	Poles	Enclosure dimensions (mm)	Palazzoli code	Pack Qty
250	500V~ max	3P+⊕	315x507	<b>422039</b>	1
F5 entry fuses ACR GR1					

**Equipment included:** gaskets and screws for fastening the accessories. Earth screws inside and outside the box.

**Features:** the handle can be padlocked. Fuses not included. 250 A sockets, width 315mm.

**Note:** special configurations on request.

**Technical accessories:**



**Fixed socket** in aluminium alloy with **aligned poles** for wall-mounting **50-60Hz IP55**

Rated current (A)	Rated voltage	Poles	Window type	Palazzoli code	Pack Qty
250	500V	3P+⊕	F5	<b>421029</b>	1

**Technical accessories:**



**EASY CONTACT**



The **multi-lamellar crown** in a silver-plated copper superalloy ensures:

- wider pin-plug contact surface
- easy removal of plugs from sockets
- perfect cleaning of the pin
- a solid and long-lasting electrical contact



**Plug-in** aluminium alloy with cable gland with **flat poles** **50-60Hz IP55**

Rated current (A)	Rated voltage	Poles	Palazzoli code	Pack Qty
250	500V	3P+⊕	<b>427019</b>	1





**MODULE 125**



**Modular interlocked socket-outlets** in aluminium alloy with **MCB** for wall-mounting **IP67**



Rated current (A)	Frequency	Rated voltage	Voltage colour	Poles	h ref.	Palazzoli code	Pack Qty	
16	50-60Hz	110V	●	2P+⊕	4	<b>474633</b>	1	
		110V	●	3P+⊕	4	<b>474643</b>	1	
	50-60Hz	110V	●	3P+N+⊕	4	<b>474653</b>	1	
		230V	●	2P+⊕	6	<b>474733</b>	1	
	50-60Hz	230V	●	3P+⊕	9	<b>474743</b>	1	
		230V	●	3P+N+⊕	9	<b>474753</b>	1	
	F1 entry	50-60Hz	400V	●	2P+⊕	9	<b>474833</b>	1
			400V	●	3P+⊕	6	<b>474843</b>	1
		50-60Hz	400V	●	3P+N+⊕	6	<b>474853</b>	1
			60Hz	440-460V	●	3P+⊕	11	<b>474863</b>
	32	50-60Hz	110V	●	2P+⊕	4	<b>474236</b>	1
			110V	●	3P+⊕	4	<b>474246</b>	1
		50-60Hz	110V	●	3P+N+⊕	4	<b>474256</b>	1
			230V	●	2P+⊕	6	<b>474336</b>	1
		50-60Hz	230V	●	3P+⊕	9	<b>474346</b>	1
			230V	●	3P+N+⊕	9	<b>474356</b>	1
F1 entry		50-60Hz	400V	●	2P+⊕	9	<b>474436</b>	1
			400V	●	3P+⊕	6	<b>474446</b>	1
		50-60Hz	400V	●	3P+N+⊕	6	<b>474456</b>	1
			60Hz	440-460V	●	3P+⊕	11	<b>474466</b>
63		50/60Hz	380/440V	●	3P+⊕	3	<b>474486</b>	1
			380/440V	●	3P+N+⊕	3	<b>474586</b>	1
		50-60Hz	110V	●	2P+⊕	4	<b>474237</b>	1
			110V	●	3P+⊕	4	<b>474247</b>	1
		50-60Hz	110V	●	3P+N+⊕	4	<b>474257</b>	1
			230V	●	2P+⊕	6	<b>474337</b>	1
	F1 entry	50-60Hz	230V	●	3P+⊕	9	<b>474347</b>	1
			230V	●	3P+N+⊕	9	<b>474357</b>	1
		50-60Hz	400V	●	2P+⊕	9	<b>474437</b>	1
			400V	●	3P+⊕	6	<b>474447</b>	1
	MCB 10kA curve C	50-60Hz	400V	●	3P+N+⊕	6	<b>474457</b>	1
			60Hz	440-460V	●	3P+⊕	11	<b>474387</b>
		60Hz	440-460V	●	3P+N+⊕	11	<b>474397</b>	1

**Features:** the handle can be padlocked. Voltage presence indicator.  
**Note:** special configurations on request.

**Technical accessories:**



**MODULE 252**



**Modular socket-outlets** in aluminium alloy with **electrical interlock** and **MCCB** for wall-mounting **50-60Hz IP67**



Rated current (A)	Rated voltage	Voltage colour	Poles	h ref.	Palazzoli code	Pack Qty	
63	400V	●	3P+⊕	6	<b>475336</b>	1	
	400V	●	3P+N+⊕	6	<b>475346</b>	1	
	F5 entry	500V	●	3P+⊕	7	<b>475337</b>	1
		500V	●	3P+N+⊕	7	<b>475347</b>	1
125	400V	●	3P+⊕	6	<b>475436</b>	1	
	400V	●	3P+N+⊕	6	<b>475446</b>	1	
	F5 entry	500V	●	3P+⊕	7	<b>475437</b>	1
		500V	●	3P+N+⊕	7	<b>475447</b>	1

**Features:** complete with pilot contact used for the electrical interlock.  
**Note:** special configurations on request.

**MODULE 252**



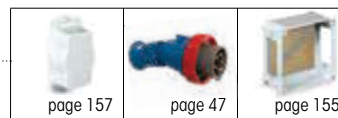
**Modular socket-outlets** in aluminium alloy with **electrical interlock** **MCCB** and **RCD** for wall-mounting **50-60Hz IP67**



Rated current (A)	Rated voltage	Voltage colour	Poles	h ref.	Palazzoli code	Pack Qty	
63	400V	●	3P+⊕	6	<b>473336</b>	1	
	400V	●	3P+N+⊕	6	<b>473346</b>	1	
	F5 entry	500V	●	3P+⊕	7	<b>473337</b>	1
		500V	●	3P+N+⊕	7	<b>473347</b>	1
125	400V	●	3P+⊕	6	<b>473436</b>	1	
	400V	●	3P+N+⊕	6	<b>473446</b>	1	
	F5 entry	500V	●	3P+⊕	7	<b>473437</b>	1
		500V	●	3P+N+⊕	7	<b>473447</b>	1

**Features:** complete with pilot contact used for the electrical interlock.  
**Note:** special configurations on request.

**Technical accessories:**



**FEATURES OF THE ELECTRICALLY INTERLOCKED SOCKET PROTECTION**

<b>MCCB</b>	Rated impulse seal voltage $U_i$	800V
	Rated impulse-withstand voltage $U_{imp}$	8kV
	Breaking capacity $I_{cu}$ (400V)	8kA
	Breaking capacity $I_{cu}$ (500V)	25000 operations
	Mechanical duration	8000 operations
	Electrical duration	0.7-1 x In
	Overload protection regulation	10 x Neutral protection
	Short-circuit protection	
	50%	
<b>RCD</b>	Protection type	A - AC
	Operating voltage	85-690V
	Operating frequency	45-66Hz
	Failure frequency	50-60Hz
	Intervention threshold regulation	0.03A - 0.1A - 0.3A - 0.5A - 1A - 3A
	Intervention time	instantaneous
	Absorbed power	<5W 690Vac



MODULE 92-125-185



**Modular interlocked socket-outlets** in aluminium alloy for wall-mounting 50-60Hz **IP67**



Rated current (A)	Rated voltage	Voltage colour	Poles	h ref.	Palazzoli code	Pack Qty
16 F0 entry	230V	Blue	2P+⊕	6	<b>460126</b>	1
	400V	Red	3P+⊕	6	<b>460136</b>	1
	400V	Red	3P+N+⊕	6	<b>460146</b>	1
16 F1 entry	230V	Blue	2P+⊕	6	<b>466126</b>	1
	400V	Red	3P+⊕	6	<b>466136</b>	1
	400V	Red	3P+N+⊕	6	<b>466146</b>	1
32 F1 entry	230V	Blue	2P+⊕	6	<b>460226</b>	1
	400V	Red	3P+⊕	6	<b>460236</b>	1
	400V	Red	3P+N+⊕	6	<b>460246</b>	1
63 F1 entry	380/440V	Red	3P+⊕	3	<b>460233</b>	1
	400V	Red	2P+⊕	6	<b>460326</b>	1
	400V	Red	3P+⊕	6	<b>460336</b>	1
	400V	Red	3P+N+⊕	6	<b>460346</b>	1
125 F3 entry	400V	Red	3P+⊕	6	<b>460436</b>	1
	400V	Red	3P+N+⊕	6	<b>460446</b>	1

**Features:** the handle can be padlocked.  
Sockets, F0 module 92mm, F1 module 125mm, F3 module 185mm.  
**Notes:** special configurations on request.

MODULE 125-185



**Modular interlocked socket-outlets** in aluminium alloy with **DIN rail** for wall-mounting 50-60Hz **IP67**



Rated current (A)	Rated voltage	Voltage colour	Poles	h ref.	Palazzoli code	Pack Qty
16 F1 entry 4 modules	230V	Blue	2P+⊕	6	<b>472623</b>	1
	400V	Red	3P+⊕	6	<b>472733</b>	1
	400V	Red	3P+N+⊕	6	<b>472843</b>	1
32 F1 entry 4 modules	230V	Blue	2P+⊕	6	<b>472624</b>	1
	400V	Red	3P+⊕	6	<b>472734</b>	1
	400V	Red	3P+N+⊕	6	<b>472844</b>	1
63 F1 entry 4 modules	380/440V	Red	3P+⊕	3	<b>472735</b>	1
	230V	Blue	2P+⊕	6	<b>472027</b>	1
	400V	Red	3P+⊕	6	<b>472137</b>	1
	400V	Red	3P+N+⊕	6	<b>472647</b>	1
125 F3 entry 6.5 modules	400V	Red	3P+⊕	6	<b>472648</b>	1
	400V	Red	3P+N+⊕	6	<b>472649</b>	1

**Equipment included:** all sockets are pre-wired up to the DIN rail.  
**Features:** the handle can be padlocked.  
Sockets, 1 module 125mm, F3 module 185mm.  
**Notes:** special configurations on request.

**Technical accessories:**



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MODULE 125



**Modular sockets** in aluminium alloy with safety **transformer (SELV)** for wall-mounting 50-60Hz **IP67**

Rated current (A)	Rated voltage	Poles	Power (VA)	Palazzoli code	Pack Qty
16 F1 entry	230/24V	2P	144	<b>471812</b>	1
	400/24V	2P	144	<b>471832</b>	1

**Features:** continuous class II duty safety transformer enabled by the plug by means of microswitch.

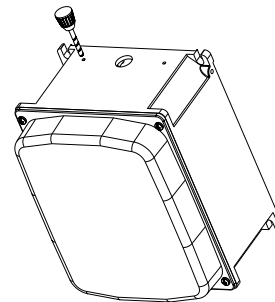
MODULE 250



**Modular sockets** in aluminium alloy with safety **transformer (SELV)** for wall-mounting 50-60Hz **IP55**

Rated current (A)	Rated voltage	Poles	Power (VA)	Palazzoli code	Pack Qty
32 M25 entry	230/48V~	2P	720	<b>471818</b>	1
	400/48V~	2P	720	<b>471838</b>	1

**Equipment included:** cable gland and screwcaps M25.  
**Features:** continuous class II duty safety transformer enabled by the plug by means of microswitch. 32A sockets 252mm wide. Predisposed for coupling with F2 window. The socket is equipped with M25 top and bottom entry.



**Technical accessories:**



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page 54



**Boxes** in aluminium alloy for composition of socket boards **IP67**

Outer dimensions (mm)	Window type	Installable socket module	Palazzoli code	Pack Qty
92x92x42		92	<b>511112</b>	1
		92	<b>511114</b>	1
125x92x42		92	<b>511122</b>	1
		92	<b>511124</b>	1
185x92x42		92	<b>511142</b>	1
		92	<b>511144</b>	1
185x92x42		92 + 92	<b>511147</b>	1
		125	<b>511212</b>	1
125x125x63		125	<b>511214</b>	1
		92	<b>511217</b>	1
185x125x63		92 + 92	<b>511227</b>	1
252x125x63		125 + 92	<b>511236</b>	1
		125 + 125	<b>511237</b>	1

**Equipment included:** free windows with gaskets in non-ageing elastomer and screws for applying accessories or for coupling with other boxes. Internal and external earth screws. Codes from 511147 to 511237 complete with back plate.

**Note:** the boxes indicated are only those that can be used in compositions of socket boards. The complete list is at page 155.

**Technical accessories:**



**Blind covers low** for ALUPRES boxes **IP67**

For box with dimensions (mm)	Cover height (mm)	Palazzoli code	Pack Qty
92x92	23	<b>515111</b>	1
125x125	10	<b>515200</b>	1
185x125	25	<b>515221</b>	1

**Equipment included:** complete with non-ageing gasket and captive stainless steel fixing screws.



**Blind covers high** for ALUPRES boxes **IP67**

For box with dimensions (mm)	Cover height (mm)	Palazzoli code	Pack Qty
92x92	35	<b>515112</b>	1
125x92	50	<b>515124</b>	1
185x92	50	<b>515144</b>	1
125x125	50	<b>515214</b>	1
185x125	50	<b>515224</b>	1
252x125	50	<b>515234</b>	1

**Equipment included:** complete with non-ageing gasket and captive stainless steel fixing screws.



**Covers with transparent window and DIN rail** for ALUPRES boxes **IP67**

For box with dimensions (mm)	No. of DIN modules	Cover height (mm)	Lid height (mm)	Palazzoli code	Pack Qty
125x125	4	50	30	<b>518204</b>	1
185x125	6.5	50	30	<b>518206</b>	1
252x125	9	50	30	<b>518209</b>	1

**Equipment included:** complete with non-ageing gasket and captive stainless steel fixing screws.

**Features:** when fitted in the box they allow for the installation of modular devices. Padlockable lid and with tamper-proof screw.



Mounting **plates**  
in painted steel  
for composition  
of socket boards

Dimensions (mm)	No. of installable devices	Installable device module	Palazzoli code	Pack Qty
125x558	1	1x92 / 1x125	<b>532876</b>	1
185x389	2	2x92	<b>532806</b>	1
276x389	3	3x92	<b>532816</b>	1
185x421	2	2x92	<b>532826</b>	1
250x558	2	2x125 / 125+92	<b>532836</b>	1
375x558	3	3x125	<b>532846</b>	1
310x558	3	125+2x92	<b>532856</b>	1
435x558	4	2x125+2x92 / 125+3x92	<b>532866</b>	1

**Equipment included:** designed with threaded holes and includes stainless steel screws for fastening devices.



Pair of **plates**  
complete with screws  
for the coupling of plates

For mounting plate code	Palazzoli code	Pack Qty
532806, 532816, 532826, 532836, 532846, 532856, 532866	<b>532895</b>	1

Table for the selection of boxes that can be installed on the plates

Plate code	Box dimensions (mm)
<b>532876</b>	125x125
<b>532806</b>	185x92
<b>532816</b>	92x92 / 185x92
<b>532826</b>	185x125
<b>532836</b>	250x125
<b>532846</b>	125x125 / 250x125
<b>532856</b>	125x125 / 185x125
<b>532866</b>	250x125 / 185x125



**Blind flanges flat**  
in steel for windowed walls  
**IP67**

For windows	Projection (mm)	Palazzoli code	Pack Qty
F0 (insulating material)	5	<b>540030</b>	1
F1 (insulating material)	6	<b>540031</b>	5
F0	2.5	<b>540090</b>	5
F1	5.5	<b>540091</b>	5
F2	5.5	<b>540032</b>	1
F3	6	<b>540033</b>	2
F4	6	<b>540034</b>	2
F5	7	<b>540035</b>	2
F6	8	<b>540036</b>	1

**Uses:** closes unused windows. They can be drilled for cable gland installation.



**Closing flanges raised**  
in aluminium alloy  
for windowed walls  
**IP67**

For windows	Projection (mm)	Palazzoli code	Pack Qty
F1	32	<b>540061</b>	1
F2	32	<b>540062</b>	1
F3	50	<b>540063</b>	1
F4	50	<b>540064</b>	1
F5	80	<b>540065</b>	1
F6	80	<b>540066</b>	1

**Uses:** they close unused windows. They facilitate the wiring as they increase the internal volume of the enclosure.



**Flanges**  
in aluminium alloy  
with **metric threading**  
for windowed walls  
**IP67**

For windows	Threading type	Palazzoli code	Pack Qty
F0	M25	<b>541050</b>	1
F1	M25	<b>541055</b>	1

**Technical accessories:**



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**Flanges**  
in aluminium alloy  
with **gas threading**  
and **cable gland**  
for windowed walls  
**IP67**

For windows	Threading type	Entry cable diameter (mm)	Projection (mm)	Palazzoli code	Pack Qty
F0 (insulating material)	1/2"	8-13	23	<b>541010</b>	1
F0 (insulating material)	3/4"	9-17	29	<b>541020</b>	1
F0	1/2"	9-12	31	<b>541080</b>	1
F0	3/4"	9-17	33	<b>541090</b>	1
F0	1"	17-20	34	<b>541030</b>	1
F1	1/2"	8-13	29	<b>541011</b>	1
F1	3/4"	10-18	33	<b>541021</b>	1
F1	1"	14-19	63	<b>540151</b>	1
F1	1" 1/4	22-26	63	<b>540141</b>	1
F2	1"	18-20	63	<b>540152</b>	1
F2	1" 1/4	25-26	64	<b>540142</b>	1
F3	1" 1/2	32-35	82	<b>540153</b>	1
F4	1" 1/2	32-35	88	<b>540154</b>	1
F5	2"	42-44	124	<b>540145</b>	1
F6	2" 3/4	57-58	154	<b>540156</b>	1

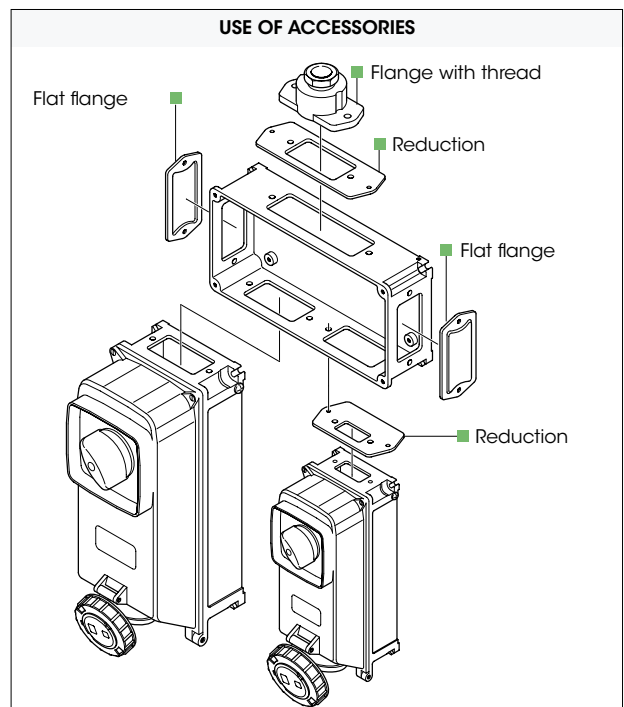
**Uses:** suitable for entry with threaded pipes. They facilitate the wiring as they increase the internal volume of the enclosure.



**Reducers**  
in steel for windows  
**IP67**

Shape	Reducer type from window	Reducer type to window	Thickness (mm)	Palazzoli code	Pack Qty
	F1	F0	3	<b>547010</b>	1
	F2	F0	4	<b>547020</b>	1
	F2	F1	4	<b>547021</b>	1
	F3	F0	4	<b>547030</b>	1
	F3	F1	4	<b>547031</b>	1
	F3	F2	4	<b>547032</b>	1
	F3	2xF0	5	<b>547300</b>	1
	F4	F1	4	<b>547041</b>	1
	F4	F2	4	<b>547042</b>	1
	F4	F3	4	<b>547043</b>	1
	F4	F1+F0	6	<b>547410</b>	1
	F4	2xF1	5	<b>547411</b>	1
	F5	F3	5	<b>547053</b>	1
	F5	F4	5	<b>547054</b>	1
	F6	F3	5	<b>547063</b>	1
	F6	F4	5	<b>547064</b>	1
F6	F5	5	<b>547065</b>	1	
	F5	F1	5	<b>547151*</b>	1
	F5	F2	5	<b>547152*</b>	1
	F6	F1	5	<b>547161*</b>	1
	F6	F2	5	<b>547162*</b>	1

**Uses:** it enables to interface boxes and socket-outlets with windows of different type.  
\* These are only used to couple the boxes to the flanges with cable gland.







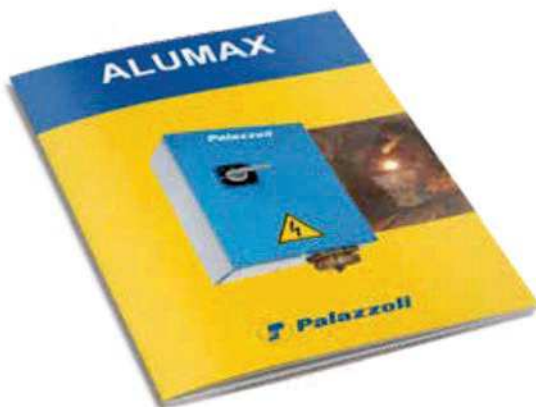
ALUMAX series low voltage switched sockets with electrical interlock are a range of products in 15/10 steel sheet, finished with hot polymerised nontoxic polyester paint, equipped with an aluminium alloy socket for heavy-duty applications, from 250A up to 400A, with IP65 protection rating.

The coupling system of receptacles and plugs makes use of the Easy Contact technology for maximum contact performance over time and ensures easier connection and disconnection operations. Each connection is provided with a double pilot contact. The sockets are equipped with MCB with 36 kA breaking capacity. The control handle can be padlocked in position 0 and I.

Compliance with standards	<b>IEC/EN 60309-1 IEC/EN 60947-3</b>
Material	<b>Aluminium Alloy (connections) Steel (boxes)</b>
Surface treatment	<b>Passivation</b>
Paint	<b>Non-toxic hot polymerised</b>
Protection rating (IP according to IEC/EN 60529)	<b>IP67 (connections) IP65 (protected wall-mounted sockets)</b>
Colour	<b>RAL 5015 (cover) RAL 7035 (box)</b>
Impact resistance (IK grade according to IEC/EN 62262)	<b>IK10</b>
Rated current	<b>250A - 400A</b>
Operating voltage	<b>Up to 1000V</b>
Operating frequency	<b>50-60Hz</b>
Insulation voltage	<b>3.3 KV</b>
Insulation class	<b>I</b>
Diameter of cable entry for mobile connections	<b>62mm (250A) 80mm (320A-400A)</b>
Clamping range for receptacles and pins	<b>250A: 50mm<sup>2</sup> - 70mm<sup>2</sup> 320A: 120mm<sup>2</sup> 400A: 150mm<sup>2</sup></b>
Pilot contacts	<b>2</b>
Pilot contacts clamping section	<b>2.5mm<sup>2</sup></b>
Operating temperature	<b>-30°C - +60°C</b>

**ALUMAX BROCHURE**

The Alumas brochure can be viewed and downloaded from [www.palazzoli.com](http://www.palazzoli.com)



**Resistance to chemical agents**

WATER	SALINE SOLUTION	ACIDS		BASES		SOLVENTS			
		CONCENTRATED	DILUTED	CONCENTRATED	DILUTED	ALCOHOL	ACETONE	PERCHLORO-ETHYLENE	BENZENE
↑	↑	↓	→	→	↑	↑	↑	↑	↑
OILS		FATS		AMMONIA	OXIDISERS	INORGANIC SALTS	GASOLINE	DETERGENTS	U.V. RAYS
MINERAL	VEGETABLE	ANIMAL	SYNTHETIC						
↑	↑	↑	↑	↑	→	↑	↑	↑	↑

Legend: ↑ high resistance    → partial resistance    ↓ low resistance



**250A sockets** in steel for high amperages with **electric interlock** and **MCCB** for wall-mounting 50-60Hz **IP65**

Rated current (A)	Rated voltage (V)	Poles	No. of pilot contacts (mm <sup>2</sup> )	Palazzoli code	Pack Qty
250	400	3P+ $\neq$	2x10	<b>480530</b>	1
		3P+N+ $\neq$	2x6	<b>480550</b>	1
	500	3P+ $\neq$	2x10	<b>480531</b>	1
		3P+N+ $\neq$	2x6	<b>480551</b>	1

Features: padlockable handle.



**320A - 400A sockets** in steel for high amperages with **electric interlock** and **MCCB** for wall-mounting 50-60Hz **IP65**

Rated current (A)	Rated voltage (V)	Poles	No. of pilot contacts (mm <sup>2</sup> )	Palazzoli code	Pack Qty
320	400	3P+N+ $\neq$	2x6	<b>480650</b>	1
	500	3P+N+ $\neq$	2x6	<b>480651</b>	1
400	400	3P+N+ $\neq$	2x6	<b>480750</b>	1
	500	3P+N+ $\neq$	2x6	<b>480751</b>	1

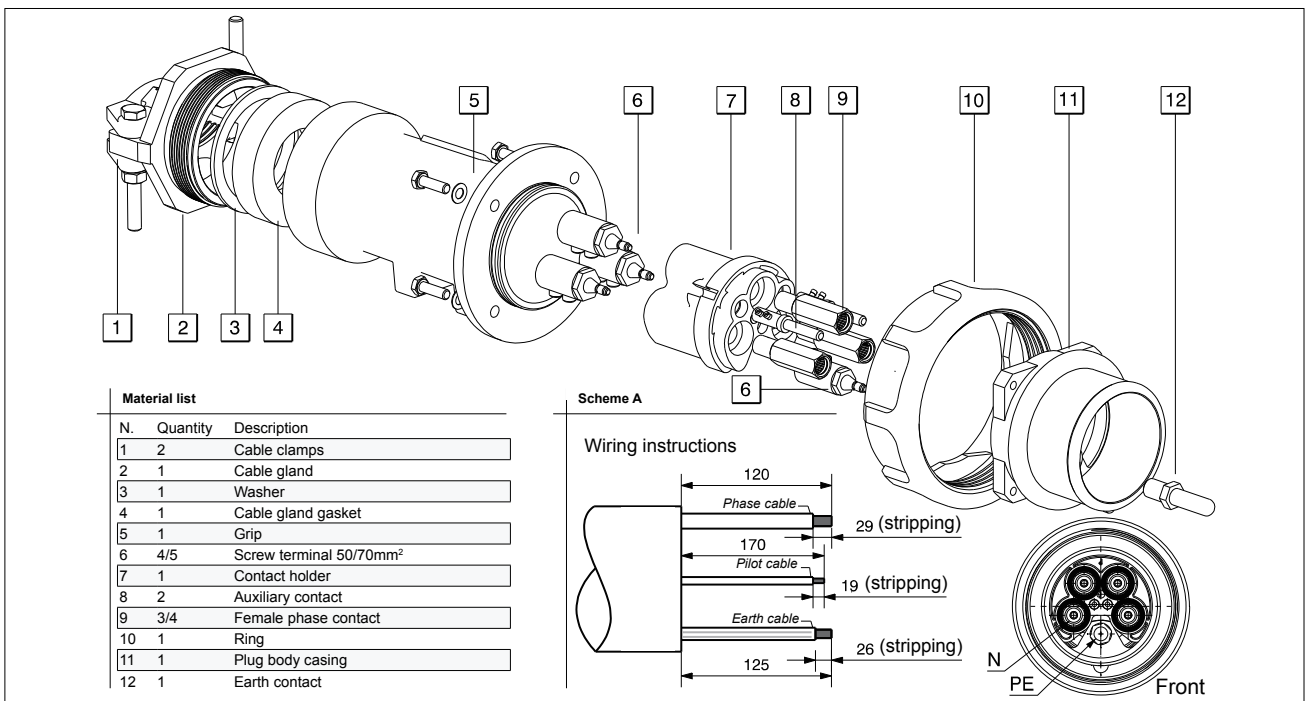
Features: padlockable handle.



**Straight mobile plugs** in aluminium alloy for high amperages 50-60Hz **IP67**

Rated current (A)	Poles	No. of pilot contacts (mm <sup>2</sup> )	Palazzoli code	Pack Qty
250	3P+ $\neq$	2x10	<b>750530</b>	1
	3P+N+ $\neq$	2x6	<b>750550</b>	1
320	3P+N+ $\neq$	2x6	<b>750650</b>	1
	400	3P+N+ $\neq$	2x6	<b>750750</b>

Note: up to 660A available on request.





## BOARDS AND BOXES

For standard and heavy-duty applications



### TAIS CUBE

distribution and automation boards in thermosetting GRP

page 130



### UNIBOX

universal boxes in aluminium

page 138



### topTER and PRIMA

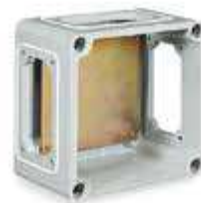
empty distribution boards

page 140





**TAIS**  
modular boxes  
in thermosetting GRP  
page 146



**TAIS GRANDE**  
combinable boxes  
in thermosetting GRP  
page 150



**ALUPRES**  
combinable boxes  
in aluminium  
page 154



**CONTACT**  
terminal blocks  
in ceramic  
page 160



**UNI**  
cable glands in technopolymer  
and nickel-plated brass  
page 162

# TAIS CUBE



**GOOD DESIGN**  
INTERNATIONAL AWARD





# TAIS CUBE

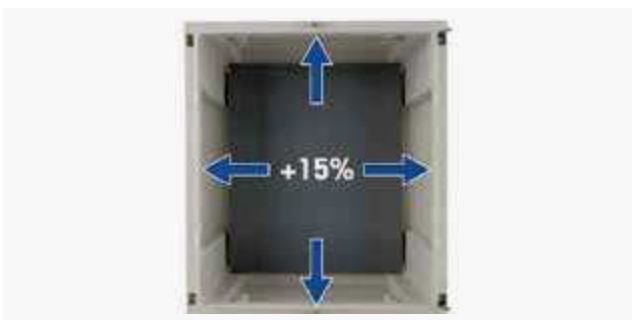
Resistant to everything thanks to the Palazzoli thermosetting GRP



TAIS Cube has a very high protection rating, IP66. This feature, certified in a laboratory with a 100 l/min water jet test, guarantees the product against strong water jets.



The steel frame allows to easily mount modular devices and trunking, and to comfortably wire everything on the bench, out of the board. The wired frame can then be easily inserted inside the board. The material of which it is made guarantees robustness and durability over time.



The unique product design provides a wide and spacious enclosure. As a consequence the back plate and door (choose from blind or transparent) offer 15% of extra space available if compared with similar sizes of the major competitors.



The door hinges, made of steel and nickel-plated brass, are located far from the edges to avoid breakage in the case of impact.

Suitable for thermal power plants, cement plants, mineral oil extraction plants, nuclear plants and laboratories, commercial and exhibition activities, airports, photovoltaic installations, railway and underground facilities.



Size	No. of vertical modules	No. of DIN modules	Outer dimensions	Internal usable dimensions	Distribution board with blind door	Distribution board with transparent door
1	-	-	260x305x160	200x250x100	550001	550031
2	3	36 (3X12)	340x430x180	280x375x120	550002	550032
3	3	54 (3X18)	450x505x220	390x450x160	550003	550033
4	4	72 (4X18)	450x655x220	390x600x160	550004	550034
5	4	96 (4X24)	560x655x260	500x600x200	550005	550035
6	5	140 (5X28)	630x810x300	570x750x235	550006	550036
7	5	200 (5X40)	850x1060x350	790x1000x290	550007	550037

THE REVOLUTIONARY  QUICK COUPLING SYSTEM



 fitting the springs

 assembling the frame

 fitting the frame



AUTOMATION			DISTRIBUTION					
Back plate in steel	Back plate in thermosetting GRP	Inner door in thermosetting GRP	Click Cube functional frame	Click Cube windowed panel	Click Cube blind panel	Click Cube double blind panel	Click Cube DIN rail	Click Cube partial steel plate
550601	550621	-	-	-	-	-	-	-
550602	550622	550502	550562	550522	550542	550552	550582	550632
550603	550623	550503	550563	550523	550543	550553	550583	550633
550604	550624	550504	550564					
550605	550625	550505		550525	550545	550555	550585	550635
550606	550626	550506	550566	550526	550546	550556	550586	550636
550607	-	550507	550567	550527	550547	550557	550587	550637

COMMON ACCESSORIES				
Set of 4 brackets		Security lock	Support for pole mounting	
Galvanised	Stainless steel		For sizes 1-2	For sizes 3-4-5
550640	550641	550680	550642	550643



TAIS Cube series distribution and automation boards are a range of products in Palazzoli thermosetting GRP for heavy-duty applications with IP66 protection rating and resistant to UV rays. The system is composed of 7 sizes in each version with blind or transparent door.

The accessories to use the board in typical configurations of automation are the back plate in steel sheet or in thermosetting GRP and the inner door in thermosetting GRP, equipped with opening handles and that can be installed at two different positions and fixed on both sides. In the distribution configuration, the steel frame allows for modular compositions with blind and windowed panels, depth-adjustable DIN rails and partial back plates. All elements are simply fixed with the "Click Cube" snap-in system.

The wiring can be performed on the bench or directly inside the distribution board.

The door is fixed to the back box with elements in nickel-plated brass and stainless steel located far from the edges and that allow an opening wider than 180°.

Compliance with standards	<b>IEC/EN 62208</b>
Material	<b>Palazzoli thermosetting GRP</b>
Protection rating (IP according to IEC/EN 60529)	<b>IP66</b>
Colour	<b>RAL7035</b>
Resistance to abnormal heat and fire ("Glow Wire" according to IEC/EN 60695-2-10)	<b>960°C</b>
Flammability rating (according to UL94)	<b>V0</b>
Impact resistance (IK grade according to IEC/EN 62262)	<b>IK10</b>
Rated frequency	<b>0 - 1000 Hz</b>
Rated voltage AC	<b>1000 Vac</b>
Rated voltage DC	<b>1500 Vcc</b>
Rated impulse seal voltage	<b>8kV</b>
Maximum short-circuit current Icc	<b>35kA</b>
Insulation class	<b>II □</b>
Storage temperature	<b>-50°C - +90°C</b>
Operating temperature	<b>-30°C - +90°C</b>

**WEB - TAIS CUBE**

The website dedicated to the distribution and automation boards of the TAIS CUBE series is available at [www.palazzoli.com](http://www.palazzoli.com)




**Resistance to chemical agents**

WATER	SALINE SOLUTION	ACIDS		BASES		SOLVENTS			
		CONCENTRATED	DILUTED	CONCENTRATED	DILUTED	ALCOHOL	ACETONE	PERCHLORO-ETHYLENE	BENZENE
↑	↑	→	↑	↑	↑	↑	↑	↑	↑
OILS		FATS		AMMONIA	OXIDISERS	INORGANIC SALTS	GASOLINE	DETERGENTS	U.V. RAYS
MINERAL	VEGETABLE	ANIMAL	SYNTHETIC						
↑	↑	↑	↑	↑	↑	↑	↑	↑	↑

Legend: ↑ high resistance    → partial resistance



**Distribution boards  
in thermosetting GRP  
with blind door  
IP66**

Size	Outer dimensions (mm)	Usable inner dimensions (mm)	No-load power dissipation (W)	Palazzoli code	Pack Qty
1	260x305x160	200x250x100	53	<b>550001</b>	1
2	340x430x180	280x375x120	90	<b>550002</b>	1
3	450x505x220	390x450x160	138	<b>550003</b>	1
4	450x655x220	390x600x160	174	<b>550004</b>	1
5	560x655x260	500x600x200	217	<b>550005</b>	1
6	630x810x300	570x750x235	302	<b>550006</b>	1
7	850x1060x350	790x1000x290	506	<b>550007</b>	1

**Equipment included:** key with triangular insert, screw cover caps for double insulation.



**Distribution boards  
in thermosetting GRP  
with transparent door  
IP66**

Size	Outer dimensions (mm)	No. of DIN modules	No-load power dissipation (W)	Palazzoli code	Pack Qty
1	260x305x160	-	53	<b>550031</b>	1
2	340x430x180	36 (3x12)	90	<b>550032</b>	1
3	450x505x220	54 (3x18)	138	<b>550033</b>	1
4	450x655x220	72 (4x18)	174	<b>550034</b>	1
5	560x655x260	96 (4x24)	217	<b>550035</b>	1
6	630x810x300	140 (5x28)	302	<b>550036</b>	1
7	850x1060x350	200 (5x40)	506	<b>550037</b>	1

**Equipment included:** key with triangular insert, screw cover caps for double insulation.

**Technical accessories:**



**Back plates  
in steel**

Size	Dimensions (mm)	Palazzoli code	Pack Qty
1	180x240	<b>550601</b>	5
2	260x370	<b>550602</b>	5
3	370x445	<b>550603</b>	5
4	370x595	<b>550604</b>	1
5	475x595	<b>550605</b>	1
6	550x745	<b>550606</b>	1
7	765x995	<b>550607</b>	1

**Equipment included:** complete with screws for mounting.



**Back plates  
in thermosetting GRP**

Size	Dimensions (mm)	Palazzoli code	Pack Qty
1	180x240	<b>550621</b>	5
2	260x370	<b>550622</b>	5
3	370x445	<b>550623</b>	5
4	370x595	<b>550624</b>	1
5	475x595	<b>550625</b>	1
6	550x745	<b>550626</b>	1

**Equipment included:** complete with screws for mounting.



**Click Cube reversible  
inner doors  
in thermosetting GRP**

Size	Dimensions (mm)	Palazzoli code	Pack Qty
2	280x375	<b>550502</b>	4
3	388x450	<b>550503</b>	4
4	388x600	<b>550504</b>	4
5	496x600	<b>550505</b>	1
6	568x750	<b>550506</b>	1
7	784x1000	<b>550507</b>	1

**Features:** inner-door is reversible and can be easily opened using the appropriate handles. It can be installed at two different depths.





**Click Cube quick-fit functional frames** for the installation of front panels and DIN rails

Size	Installable panels	Palazzoli code	Pack Qty
2	3	<b>550562</b>	6
3	3	<b>550563</b>	6
4-5	4	<b>550564</b>	6
6	5	<b>550566</b>	1
7	5	<b>550567</b>	1

**Equipment included:** complete with springs for fastening to the distribution board.  
**Features:** it allows the wiring of the modular panels outside of the board and the installation of DIN rails at different heights.



**Click Cube front blind panels** at double height

Size	Height (mm)	Palazzoli code	Pack Qty
2	250	<b>550552</b>	4
3-4	300	<b>550553</b>	4
5	300	<b>550555</b>	1
6	300	<b>550556</b>	1
7	400	<b>550557</b>	1

**Features:** quick fitting with 1/4 turn screws.



**Click Cube front windowed panels** with DIN rail for modular devices

Size	Height (mm)	No. of DIN modules	Palazzoli code	Pack Qty
2	125	12	<b>550522</b>	6
3-4	150	18	<b>550523</b>	6
5	150	24	<b>550525</b>	4
6	150	28	<b>550526</b>	4
7	200	40	<b>550527</b>	1

**Equipment included:** modular covers.  
**Features:** quick fitting with 1/4 turn screws.



**Click Cube reinforced DIN rails** for frames

Size	No. of DIN modules	Palazzoli code	Pack Qty
2	12	<b>550582</b>	6
3-4	18	<b>550583</b>	6
5	24	<b>550585</b>	1
6	28	<b>550586</b>	1
7	40	<b>550587</b>	1

**Equipment included:** complete with screws for mounting.



**Click Cube front blind panels** at single height

Size	Height (mm)	Palazzoli code	Pack Qty
2	125	<b>550542</b>	6
3-4	150	<b>550543</b>	6
5	150	<b>550545</b>	4
6	150	<b>550546</b>	4
7	200	<b>550547</b>	1

**Features:** quick fitting with 1/4 turn screws.



**Click Cube height-adjustable steel partial plates**

Size	Height (mm)	Palazzoli code	Pack Qty
2	125	<b>550632</b>	1
3-4	150	<b>550633</b>	1
5	150	<b>550635</b>	1
6	150	<b>550636</b>	1
7	200	<b>550637</b>	1

**Equipment included:** complete with screws for mounting.



Set of **brackets**  
for wall-mounting

No. of brackets	Material	Palazzoli code	Pack Qty
4	Galvanised steel	<b>550640</b>	20
4	Stainless steel	<b>550641</b>	5

**Features:** they can be mounted horizontally, vertically or hidden, retaining the double insulation.



**Distribution board kit**  
with frame windowed panels  
and DIN rails

Size	No. of DIN modules	Palazzoli code	Pack Qty
2	36 (3x12)	<b>550042</b>	1
3	54 (3x18)	<b>550043</b>	1
4	72 (4x18)	<b>550044</b>	1
5	96 (4x24)	<b>550045</b>	1
6	140 (5x28)	<b>550046</b>	1
7	200 (5x40)	<b>550047</b>	1



Pair of **accessories**  
for pole mounting

Size	Material	Palazzoli code	Pack Qty
1-2	steel	<b>550642</b>	1
3-4-5	steel	<b>550643</b>	1

**Features:** prearrangement for metal clamp for fastening to poles with diameter >80mm.



**Click Cube brackets**  
for fixing the cable ducts

No. of brackets	Material	Palazzoli code	Pack Qty
8	steel	<b>550648</b>	1

**Equipment included:** complete with screws for mounting.  
**Notes:** for all frame sizes. Suitable for cable ducts, max height 40mm.



**Click Cube adaptor kit**

Size	Length (mm)	Palazzoli code	Pack Qty
2	70	<b>550662</b>	1
3-4	110	<b>550663</b>	1
5	150	<b>550665</b>	1
6	190	<b>550666</b>	1
7	240	<b>550667</b>	1

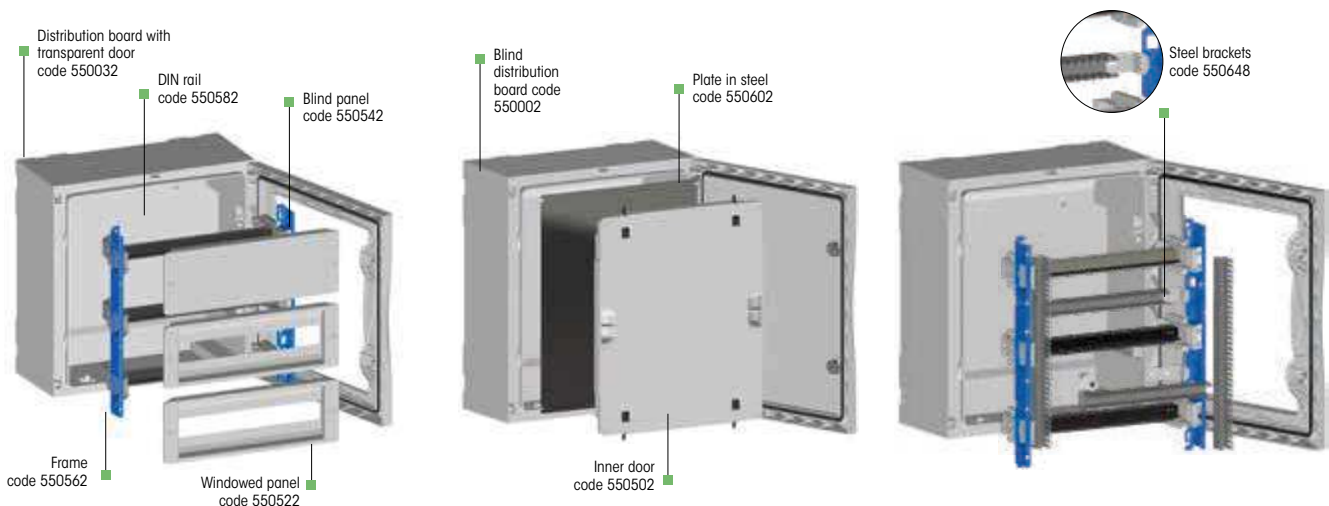
**Notes:** the kit is used to install the Click Cube frame in boxes that were not made to accommodate it (before 2015).  
The adaptors can also be used as spacers for the back plates.



**Security lock**  
with handle

No. of keys	Material	Palazzoli code	Pack Qty
2	steel	<b>550680</b>	10

**Features:** closing with Yale code key.

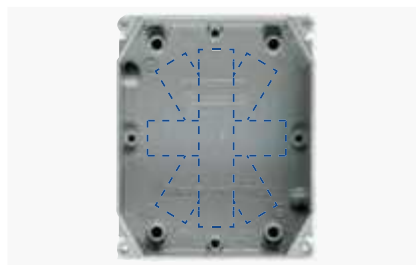


# UNIBOX



## Easy to be installed

Thanks to the screw seats perpendicular to the screwdriver.



## Multifunction

Thanks to the complete set of supports.



## IP66 and IP67

Thanks to the external location of the earthing and the hot-poured sealing applied in the cover.



UNIBOX universal boxes in aluminium alloy are suitable for environments with aggressive atmosphere present. Back box and cover are treated with ecological anticorrosion passivation with fluoro-zirconium treatment and finished with hot polymerised scratch-resistant non-toxic polyester painting. They are supplied with blind door and with a watertight cover that guarantees the IP66/IP67 double protection rating thanks to the integrated gasket.

Compliance with standards	<b>IEC/EN 62208</b> <b>IEC/EN 60670-1</b>
Material	<b>Aluminium alloy</b>
Surface treatment	<b>Passivation with fluoro-zirconium treatment</b>
Paint	<b>Hot-polymerised non-toxic polyester</b>
Protection rating (IP according to IEC/EN 60529)	<b>IP66/IP67</b>
Colour	<b>RAL7042 light hammer finish</b>
Impact resistance (IK rating according to IEC/EN 62262)	<b>IK08</b>
Insulation class	<b>I</b>
Storage temperature	<b>-50°C - +90°C</b>
Operating temperature	<b>-40°C - +90°C</b>



**Junction boxes**  
in aluminium alloy  
**IP66/IP67**

Box type	Dimensions (mm)		Palazzoli code	Pack Qty
	external	internal		
UNI B9	100x100x59	88x88x44	<b>52009</b>	30
UNI B11	140x115x60	128x103x46	<b>52011</b>	20
UNI B12	166x141x64	153x128x49	<b>52012</b>	20
UNI B14	192x168x80	176x152x65	<b>52014</b>	10
UNI B19	253x217x93	236x201x75	<b>52019</b>	1
UNI B20	314x264x122	292x243x104	<b>52020</b>	1
UNI B21	410x315x150	386x291x126	<b>52021</b>	1

**Equipment included:** 2 kits for earthing terminal connection

**Features:** boxes suited for DIN rail mounting horizontally or vertically using M4x6 self-tapping screws. DIN rail from Palazzoli is to be mounted diagonally.

**Technical accessories:**



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**Back plates**  
in galvanised steel  
for UNIBOX boxes

For box type	Dimensions (mm)	Palazzoli code	Pack Qty
UNI B11	119x78	<b>522011</b>	1
UNI B12	132x108	<b>522012</b>	1
UNI B14	165x125	<b>522014</b>	1
UNI B19	200x165	<b>522019</b>	1
UNI B20	250x210	<b>522020</b>	1
UNI B21	345x257	<b>522021</b>	1

**Equipment included:** screws for mounting inside the box, 2 kits for earthing terminal connection.



**DIN rails**  
for UNIBOX boxes

For box type	Working length (mm)	Palazzoli code	Pack Qty
UNI B9	60	<b>521009</b>	1
UNI B11	95	<b>521011</b>	1
UNI B12	125	<b>521012</b>	1
UNI B14	170	<b>521014</b>	1
UNI B19	230	<b>521019</b>	1
UNI B20	290	<b>521020</b>	1
UNI B21	380	<b>521021</b>	1

**Equipment included:** screws for mounting inside the box.

# PRIMA & topTER



## Practical

Thanks to the hinges, the wiring and maintenance are easier.



## Versatile

Thanks to flanges and caps.


































## Tamper proof

Thanks to the padlockable cover.












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PRIMA and topTER are a series of watertight moulded distribution boards with transparent window or blind door with high capacity which can contain industrial and domestic sockets from 16A up to 63A, with protection rating IP44 and IP66/IP67. Thanks to the dedicated caps, you can integrate domestic sockets in the boards together with industrial and interlocked ones. The highly engineered design, the high quality standard and all the components make this series particularly suitable for installation in the service sector and industry where intense activity make accidental stops utterly undesirable.



**Distribution boards with transparent window for the installation of topTER devices IP66**







Shape	Installable sockets	Max no. with flange 65x83	Max no. with flange 88x100	Max no. with flange 100x100	Power dissipation (W)	Palazzoli code	Pack Qty
 5 modules	2	2	1		22	<b>579822</b>	1
 5 modules	3	3	1		22	<b>579823</b>	1
 10 modules	4	4	4		40	<b>579824</b>	1
 16 modules	6	6	6		56	<b>579826</b>	1
 22 modules	8	8	8		70	<b>579828</b>	1
 10 modules	3	2	1	1	40	<b>579863</b>	1
 16 modules	5	4	2	1	56	<b>579865</b>	1

**Features:** padlockable modular door.

**Technical accessories:**



**Distribution boards for mounting PRIMA devices IP55**

Shape	Installable sockets	Power dissipation (W)	Outer dimensions (mm)	Palazzoli code	Pack Qty
 9 modules	2	36	212x414	<b>579620</b>	1
 blind	2	36	212x414	<b>579621</b>	1
 9+9 modules	2	50	424x280	<b>579602</b>	1
 9+9 modules	4	70	424x410	<b>579640</b>	1
 9 modules	4	70	424x410	<b>579641</b>	1
 blind	4	70	424x410	<b>579642</b>	1

**Features:** padlockable modular door.

**Technical accessories:**





**Distribution boards with transparent window** for the installation of 16A and 32A topTER sockets with switch **IP66**

	Shape	Installable sockets	Power dissipation (W)	Outer dimensions (mm)	Palazzoli code	Pack Qty
5 modules		1	22	122x395	<b>579741</b>	1
10 modules		2	40	239x456	<b>579742</b>	1
16 modules		3	56	350x456	<b>579743</b>	1
22 modules		4	70	461x456	<b>579744</b>	1

**Features:** padlockable modular door.



**Distribution boards with blind cover** for the installation of 16A and 32A topTER sockets with switch **IP66**

	Shape	Installable sockets	Power dissipation (W)	Outer dimensions (mm)	Palazzoli code	Pack Qty
		1	22	122x395	<b>579721</b>	1
		2	40	250x395	<b>579722</b>	1
		3	56	380x395	<b>579723</b>	1

**Technical accessories:**

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					page 32



**Distribution boards with blind cover** for the installation of topTER 63A socket-outlets with switch **IP55**

Installable sockets	Power dissipation (W)	Dimensions (mm)	Palazzoli code	Pack Qty
1	22	122x452	<b>579421*</b>	1
2	40	250x452	<b>579422</b>	1
3	56	380x452	<b>579423</b>	1

**Equipment included:** screw cover caps for double insulation.  
**Features:** \* IP65 protection rating.














**Distribution boards with transparent window** for the installation of topTER 63A socket-outlets with switch **IP55**

Installable sockets	No. of DIN modules	Power dissipation (W)	Outer dimensions (mm)	Palazzoli code	Pack Qty
1	5	22	122x452	<b>579631*</b>	1
2	12	40	250x452	<b>579622</b>	1
3	18	56	380x452	<b>579623</b>	1

**Equipment included:** screw cover caps for double insulation. Modular covers.  
**Features:** padlockable modular door.\*IP65 protection rating.




**Technical accessories:**

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**EASY COMPOSER**

Software for the design and cost estimation of thermoplastic distribution boards.



1. Select the socket type 	2. Compose the distribution board 	3. Calculate the cost and download the certificates 
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The software is a free web application available at [www.palazzoli.com](http://www.palazzoli.com)



**Module covers**

No. of DIN modules	For distribution boards	Palazzoli code	Pack Qty
2	topTER, PRIMA, ULYSSE, TAIS and TAIS CUBE	<b>579904</b>	20

**Uses:** allows unused modules, to be covered to achieve the IP40 protection rating.



**Coupling fitting**  
with Pg threading for topTER  
distribution boards  
**IP66**

Pg	Mounting hole (mm)	For cable Ø (mm)	Palazzoli code	Pack Qty
21	29	21	<b>580250</b>	1



**Transportation handles**

For distribution boards	Palazzoli code	Pack Qty
all distribution boards	<b>579011</b>	1



**Pair of stainless steel plates**  
for wall-mounting of topTER  
and PRIMA distribution boards

For distribution boards	Palazzoli code	Pack Qty
topTER and PRIMA	<b>579012</b>	10



**Universal support** for topTER,  
PRIMA and Energy Go  
distribution boards

For distribution boards	Palazzoli code	Pack Qty
width 239 mm and above	<b>570010</b>	1



**Finishing frames**  
for flush-mounting  
of PRIMA distribution boards

For distribution boards code	Palazzoli code	Pack Qty
579620 and 579621	<b>579582</b>	1
579640, 579641 and 579642	<b>579584</b>	1



**Equipotential bars**  
for earth connection of topTER  
series distribution boards

No. of holes	Connection Type	Palazzoli code	Pack Qty
4	M5 screws for wire ends up to 25mm <sup>2</sup>	<b>579013</b>	1
10	M5 screws for wire ends up to 25mm <sup>2</sup>	<b>579014</b>	1

**Equipment included:** connection screws and fixing supports.

**Features:** suitable for use in topTER distribution boards with transparent window of dimensions 239x456 and above.



# TAIS





## TAIS

Excellent resistance to stresses, vibrations, abrasions and does not need any maintenance



All products of the TAIS series are made in Palazzoli thermosetting GRP, a fire retardant material that does not produce toxic gases and is resistant to chemicals over time.

The special gaskets in non-ageing elastomer guarantee a protection rating up to IP68, for installing in areas subject to possible flooding.



The back boxes are equipped with brass threaded inserts that ensure an easy opening and closing of the cover even after long time.

Practically immune to the major part of all the aggressive substances, they are the best solution for industrial installations under 1.5 m height.

Suitable for chemical industries, industrial facilities, plants with galvanic treatments, airports, cold rooms and in dusty, salty and corrosive atmosphere.



TAIS boxes represent the state of the art for industrial electrical junctions, both for wall-mounting or on machinery boards in insulating material. The offer is structured on two types of boxes, one is with small dimensions for mounting on board of machineries and the other is with medium and big dimensions to be wall-mounted for industrial plants.

Compliance with standards	<b>IEC/EN 602208</b> <b>IEC/EN 60670-1</b>
Material	<b>Palazzoli thermosetting GRP</b>
Protection rating (IP according to IEC/EN 60529)	<b>IP67 - IP68</b>
Colour	<b>RAL5015 (cover)</b> <b>RAL7042 (base)</b>
Resistance to abnormal heat and fire ("Glow Wire" according to IEC/EN 60695-2-10)	<b>960°C</b>
Flammability rating (according to UL94)	<b>V0</b>
Impact resistance (IK rating according to IEC/EN 62262)	<b>IK10</b>
Insulation class	<b>II □</b>
Storage temperature	<b>-50°C - +90°C</b>
Operating temperature	<b>-40°C - +90°C</b>



**Junction boxes**  
in thermosetting GRP  
with **low cover**  
**IP68**



Outer dimensions (mm)	Box height (mm)	Cover height (mm)	Palazzoli code	Pack Qty
92x92	50	18	<b>538035</b>	1
125x92	50	18	<b>538045</b>	1
185x92	50	18	<b>538055</b>	1
125x125	75	25	<b>538116</b>	1
185x125	75	25	<b>538117</b>	1
250x125	75	25	<b>538118</b>	1

**Features:** IP68 protection rating test is carried out at 2 m depth for 24 h. Blind walls.



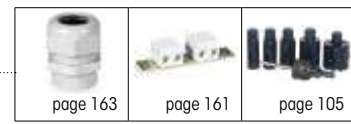
**Junction boxes**  
in thermosetting GRP  
with **high cover**  
**IP68**



Outer dimensions (mm)	Box height (mm)	Cover height (mm)	Palazzoli code	Pack Qty
92x92	50	50	<b>538005</b>	1
125x92	50	50	<b>538006</b>	1
185x92	50	50	<b>538015</b>	1
125x125	75	50	<b>538016</b>	1
185x125	75	50	<b>538017</b>	1
250x125	75	50	<b>538018</b>	1

**Features:** IP68 protection rating test is carried out at 2 m depth for 24 h. Blind walls.

**Technical accessories:**





**Junction boxes**  
in thermosetting GRP  
with **low cover**  
**IP67**

Outer dimensions (mm)	Box height (mm)	Cover height (mm)	Palazzoli code	Pack Qty
92x92	50	18	<b>532035</b>	5
125x92	50	18	<b>532045</b>	1
185x92	50	18	<b>532055</b>	1
125x125	75	25	<b>532116</b>	1
185x125	75	25	<b>532117</b>	1
250x125	75	25	<b>532118</b>	1

Features: blind walls.

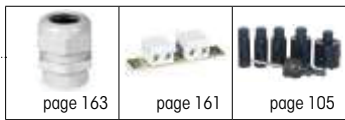


**Junction boxes**  
in thermosetting GRP  
with **high cover**  
**IP67**

Outer dimensions (mm)	Box height (mm)	Cover height (mm)	Palazzoli code	Pack Qty
92x92	50	50	<b>532005</b>	1
125x92	50	50	<b>532006</b>	1
185x92	50	50	<b>532015</b>	1
125x125	75	50	<b>532016</b>	1
185x125	75	50	<b>532017</b>	1
250x125	75	50	<b>532018</b>	1

Features: blind walls.

Technical accessories:



**Back plates**  
in galvanised steel  
for TAIS boxes

For box dimensions	For box code	Palazzoli code	Pack Qty
92x92	532005, 532035, 532225, 538005 538035, 532005, 532035	<b>532705</b>	1
125x92	532006, 532045, 532285, 532295 538006, 538045, 532006, 532045	<b>532714</b>	1
185x92	532015, 532055, 532325, 532385, 538015, 538055, 532015, 532055	<b>532715</b>	1
125x125	532016, 532116, 532346, 538016 538116, 532016EX, 532116EX	<b>532716</b>	1
185x125	532017, 532117, 532667, 532677, 538017 538117, 532017EX, 532117EX, 532667EX	<b>532717</b>	1
250x125	532018, 532118, 532618, 532628 532638, 532648, 538018, 538118 532018EX, 532118EX, 532628EX	<b>532718</b>	1

Uses: for fastening terminal blocks or non-modular devices.



**Boxes**  
in thermosetting GRP  
with **transparent cover**  
**IP67**

Outer dimensions (mm)	No. of DIN modules	Power dissipation (W)	Palazzoli code	Pack Qty
125x125x125	4	13	<b>532516</b>	1
185x125x125	6.5	15	<b>532557</b>	1
250x125x125	9	20	<b>532658</b>	1

Features: blind walls supplied with drilling template.  
Padlockable cover and with tamper-proof screw.

Technical accessories:





TAIS Grande series distribution boxes are a range of products with thickened walls made of Palazzoli Thermosetting GRP for heavy duty applications with up to IP67 protection rating and resistant to UV rays. The system is composed of 5 sizes, complete with back plate made of zinc-tropicalised steel sheet, that can be accessorised with blind or transparent cover with moulded large captive screws with hexagonal insert of 8 mm. The boxes are available in versions totally blind or with windows on the sides that allow modular combinations.



Compliance with standards	<b>IEC/EN 602208</b> <b>IEC/EN 60670-1</b>
Material	<b>Palazzoli thermosetting GRP</b>
Protection rating (IP according to IEC/EN 60529)	<b>IP65 and IP67</b>
Colour	<b>RAL5015 (cover)</b> <b>RAL7042 (base)</b>
Resistance to abnormal heat and fire ("Glow Wire" according to IEC/EN 60695-2-10)	<b>960°C</b>
Flammability rating (according to UL94)	<b>V0</b>
Impact resistance (IK grade according to IEC/EN 62262)	<b>IK10</b>
Insulation class	<b>II □</b>
Storage temperature	<b>-50°C - +90°C</b>
Operating temperature	<b>-40°C - +90°C</b>



**Resistance to chemical agents**

WATER	SALINE SOLUTION	ACIDS		BASES		SOLVENTS			
		CONCENTRATED	DILUTED	CONCENTRATED	DILUTED	ALCOHOL	ACETONE	PERCHLORO-ETHYLENE	BENZENE
↑	↑	→	↑	↑	↑	↑	↑	↑	↑
OILS		FATS		AMMONIA	OXIDISERS	INORGANIC SALTS	GASOLINE	DETERGENTS	U.V. RAYS
MINERAL	VEGETABLE	ANIMAL	SYNTHETIC						
↑	↑	↑	↑	↑	↑	↑	↑	↑	↑

Legend: ↑ high resistance    → partial resistance





**Junction boxes**  
in thermosetting GRP  
with back plate  
**IP67**

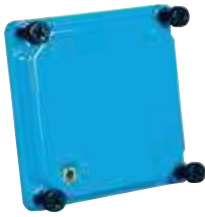
Outer dimensions (mm)	Window type	Installable TAIS socket module	Palazzoli code	Pack Qty
185x185x115		2x95	<b>531011</b>	1
		2x95	<b>531200</b>	1
		2x95	<b>531211</b>	1
		2x95	<b>531311</b>	1
		-	<b>531411</b>	1
250x185x115		2x95/2x125	<b>531021</b>	1
		2x95/2x125	<b>531220</b>	1
		2x95	<b>531222</b>	1
		2x95/2x125	<b>531221</b>	1
		-	<b>531231</b>	1
		2x95	<b>531321</b>	1
		2x95/2x125	<b>531331</b>	1
		-	<b>531431</b>	1

Outer dimensions (mm)	Window type	Installable TAIS socket module	Palazzoli code	Pack Qty
250x250x115		2x95/2x125	<b>531040</b>	1
		2x95/2x125	<b>531241</b>	1
		-	<b>531240</b>	1
		2x95/2x125	<b>531340</b>	1
		-	<b>531440</b>	1
370x250x115		2x95/2x125	<b>531540</b>	1
		2x95/2x125	<b>531640</b>	1
		-	<b>531042</b>	1
500x370x115		-	<b>531242</b>	1
		-	<b>531442</b>	1
500x370x115		-	<b>531062</b>	1
		-	<b>531262</b>	1
		-	<b>531662</b>	1

**Equipment included:** free windows with gaskets in non-ageing elastomer. Screws and bolts for coupling or closing with flanges and back plate. Boxes up to 250x250 with drilling template.  
**Features:** they are used for making junction or distribution boards. Boxes with dimensions 250 x 250 and larger are rated IP65.

**Technical accessories:**





**Blind covers low**  
in thermosetting GRP  
for TAIS Grande boxes  
**IP67**

For boxes with dimensions (mm)	Cover height (mm)	Palazzoli code	Pack Qty
185x185	25	<b>535320</b>	1
250x185	25	<b>535321</b>	1
250x250	25	<b>535322</b>	1
370x250	25	<b>535323</b>	1
500x370	25	<b>535324</b>	1

**Equipment included:** complete with captive screws that can be sealed.  
**Features:** covers with dimensions 250x250 and larger are IP65.



**Blind covers high**  
in thermosetting GRP  
for TAIS Grande boxes  
**IP67**

For boxes with dimensions (mm)	Cover height (mm)	Palazzoli code	Pack Qty
250x185	75	<b>535325</b>	1
250x250	75	<b>535326</b>	1
370x250	75	<b>535327</b>	1
500x370	75	<b>535328</b>	1

**Equipment included:** complete with captive screws that can be sealed.  
**Features:** the height of the cover allows to insert MCCB inside.  
Covers with dimensions 250x250 and larger are rated IP65.



**Transparent covers low**  
in polycarbonate for TAIS  
Grande boxes  
**IP67**

For boxes with dimensions (mm)	Cover height (mm)	Palazzoli code	Pack Qty
250x185	25	<b>535126</b>	1
250x250	25	<b>535135</b>	1
370x250	25	<b>535137</b>	1
500x370	25	<b>535157</b>	1

**Equipment included:** complete with captive screws that can be sealed.  
**Features:** in UV stabilised polycarbonate.  
Covers with dimensions 250x250 and larger are rated IP65.



**Transparent covers high**  
in polycarbonate for TAIS  
Grande boxes  
**IP67**

For boxes with dimensions (mm)	Cover height (mm)	Palazzoli code	Pack Qty
250x185	75	<b>535131</b>	1
250x250	75	<b>535140</b>	1
370x250	75	<b>535142</b>	1
500x370	75	<b>535162</b>	1

**Equipment included:** complete with captive screws that can be sealed.  
**Features:** in UV stabilised polycarbonate.  
Covers with dimensions 250x250 and larger are rated IP65.



**Windowed covers**  
in polycarbonate for TAIS  
Grande boxes  
**IP67**

For boxes with dimensions (mm)	Cover height (mm)	No. of DIN modules	Palazzoli code	Pack Qty
185x185	80	7.5	<b>535640</b>	1
250x185	80	11	<b>535643</b>	1

**Equipment included:** complete with captive screws that can be sealed, DIN rail and small parts for fastening on a plate.  
**Features:** padlockable lid and with tamper-proof screw.

**NOTES**



Fixing screws made of fibre-reinforced technopolymer for higher tightening force, with captive and anti-tampering systems.



**Flat blind flanges**  
in thermosetting GRP  
for windowed walls  
**IP67**

Type	Window dimensions (mm)	Flange height (mm)	Palazzoli code	Pack Qty
a	110x60	15	<b>538110</b>	2
b	175x60	15	<b>538210</b>	2
c	295x60	15	<b>538310</b>	1

**Uses:** closing the cable entry windows. Holes can be drilled for applying cable glands.

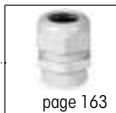


**Blind flanges raised**  
in thermosetting GRP  
for windowed walls  
**IP67**

Type	Window dimensions (mm)	Flange height (mm)	Palazzoli code	Pack Qty
a	110x60	45	<b>538130</b>	2
b	175x60	45	<b>538230</b>	2
c	295x60	45	<b>538330</b>	1

**Uses:** closing the cable entry windows. Holes can be drilled for applying cable glands. The increased height helps entry of large cables or pipes. They make wiring easier as they increase the internal volume of the enclosure.

**Technical accessories:**



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**Hinge frames**  
with installation kit  
for TAIS Grande boxes

Description	Palazzoli code	Pack Qty
Single hinge in insulating material with screws, washers and gaskets	<b>538385</b>	1

**Uses:** with all TAIS series boxes in thermosetting GRP insulating material with screw cover (excluding those with 18 mm low cover). They cannot be fitted to walls with a window or near holes or knockouts.



**Supports for bus bars**  
for TAIS Grande boxes

Installable on windows	Installable bus bars (mm)	Palazzoli code	Pack Qty
a	3 x 16x4 (16x5 - 20x4 - 20x5), 2 by 16x4 (earth and neutral), 3 of ø 9 (auxiliary circuits)	<b>538180</b>	1
b	3 of 25x5 (25x6 - 32x5 - 32x6), 2 of 25x5 (earth and neutral), 3 of ø 11 (auxiliary circuits)	<b>538280</b>	1
c	6 of 40x5 (40x8 - 50x5 - 50x8), 4 of 25x5 (25x6 - 32x5 - 32x6)	<b>538380</b>	1

**Uses:** they are used to facilitate the application of conductor busbars in watertight distribution boards composed of equipment in TAIS Grande modular insulating boxes with windows type "a", "b" and "c".



**Supports**  
for 90° angled wall-mounting  
of straight sockets and plugs  
**IP65**

Support base dimensions (mm)	Installable sockets/plugs	Box window	Palazzoli code	Pack Qty
142x113	63A	a	<b>472967</b>	1
142x113	125A	a	<b>472968</b>	1
207x113	63A	b	<b>472977</b>	1
207x113	125A	b	<b>472978</b>	1

**Equipment included:** 4 stainless steel screws for fixing the socket or the plug.

**Uses:** for applications with combinable modular boxes in thermosetting GRP (with windows "a" or "b") or in aluminium (with windows F5).

**Technical accessories:**



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ALUPRES series distribution boxes are a range of products with thick walls made of aluminium alloy for heavy duty uses with IP55 and IP67 protection rating and resistant to UV rays. The system is composed of different sizes with ecological anticorrosion passivation with fluoro-zirconium and finished with hot-polymerised non-toxic polyester paint. All the boxes are complete with back plate made of zinc-tropicalised steel sheet and can be accessorised with blind or windowed cover. The boxes are available in versions totally blind suitable to be drilled with threaded holes, or with window on the sides that allows for modular combinations or to be accessorised with blind or threaded flanges or junctions available in the range.



Compliance with standards	<b>IEC/EN 602208 IEC/EN 60670-1</b>
Material	<b>Aluminium alloy</b>
Surface treatment	<b>Passivation with fluoro-zirconium treatment</b>
Paint	<b>Hot-polymerised non-toxic polyester</b>
Protection rating (IP according to IEC/EN 60529)	<b>IP55 - IP67</b>
Colour	<b>RAL5012 (cover) RAL7035 (base)</b>
Impact resistance (IK grade according to IEC/EN 62262)	<b>IK10</b>
Insulation class	<b>I</b>
Storage temperature	<b>-50°C - +90°C</b>
Operating temperature	<b>-40°C - +90°C</b>



**Resistance to chemical agents**

WATER	SALINE SOLUTION	ACIDS		BASES		SOLVENTS			
		CONCENTRATED	DILUTED	CONCENTRATED	DILUTED	ALCOHOL	ACETONE	PERCHLORO-ETHYLENE	BENZENE
↑	↑	↓	→	→	↑	↑	↑	↑	↑
OILS		FATS		AMMONIA	OXIDISERS	INORGANIC SALTS	GASOLINE	DETERGENTS	U.V. RAYS
MINERAL	VEGETABLE	ANIMAL	SYNTHETIC						
↑	↑	↑	↑	↑	→	↑	↑	↑	↑

Legend: ↑ high resistance    → partial resistance    ↓ low resistance



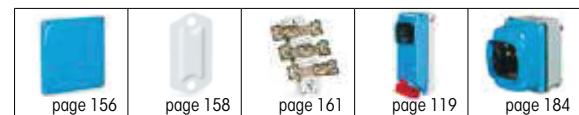
**Junction boxes**  
in aluminium alloy  
with back plate  
**IP67**

Outer dimensions (mm)	Window type	Palazzoli code	Pack Qty
92x92x42	blind walls	<b>511110*</b>	1
	blind walls	<b>511210</b>	1
125x125x63	F1	<b>511212</b>	1
	F1	<b>511214</b>	1
	blind walls	<b>511220</b>	1
185x125x63	E1	<b>511222</b>	1
	F2	<b>511224</b>	1
252x125x63	E1	<b>511232</b>	1
	F2	<b>511234</b>	1
155x155x63	blind walls	<b>521210</b>	1
	F1	<b>521214</b>	1
	blind walls	<b>511310</b>	1
185x185x95	E3	<b>511312</b>	1
	F3	<b>511314</b>	1
	blind walls	<b>511320</b>	1
252x185x95	E3	<b>511322</b>	1
	F4	<b>511324</b>	1

Outer dimensions (mm)	Window type	Palazzoli code	Pack Qty
220x220x95	F3	<b>521314</b>	1
252x252x140	E5	<b>511412</b>	1
	F5	<b>511414</b>	1
	blind walls	<b>511420</b>	1
315x252x140	E5	<b>511422</b>	1
	F5	<b>511424</b>	1
507x252x140	E5	<b>511452</b>	1
295x295x105	F4	<b>521414</b>	1
	blind wall	<b>511512</b>	1
315x315x140	blind wall	<b>511514</b>	1
	F5	<b>511612</b>	1
373x373x140	blind wall	<b>511614</b>	1
	F6	<b>511632</b>	1
507x373x140	F6	<b>511634</b>	1
	F6	<b>511642</b>	1
630x373x140	F6	<b>511822</b>	1
	F6	<b>511824</b>	1

**Equipment included:** free windows with gaskets in non-ageing elastomer and screws for applying accessories or for coupling with other boxes.  
\*Box without back plate.  
**Features:** boxes with dimensions 155x155 and larger are rated IP55.

**Technical accessories:**



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**Blind covers low**  
for ALUPRES boxes  
**IP67**

For boxes with dimensions (mm)	Cover height (mm)	Palazzoli code	Pack Qty
92x92	23	<b>515111</b>	1
125x125	10	<b>515200</b>	1
185x125	25	<b>515221</b>	1
155x155	10	<b>525200</b>	1
185x185	10	<b>515300</b>	1
220x220	13	<b>525300</b>	1
252x252	25	<b>515411</b>	1
507x252	53	<b>515453</b>	1
295x295	18	<b>525410</b>	1
315x315	53	<b>515512</b>	1
373x373	25	<b>515610</b>	1
507x373	53	<b>515632</b>	1
630x373	53	<b>515642</b>	1
630x507	53	<b>515822</b>	1

**Equipment included:** complete with non-ageing gasket and captive stainless steel fixing screws.

**Features:** covers with dimensions 155x155 and larger are IP55.



**Blind covers high**  
for ALUPRES boxes  
**IP67**

For boxes with dimensions (mm)	Cover height (mm)	Palazzoli code	Pack Qty
92x92	35	<b>515112</b>	1
125x92	50	<b>515124</b>	1
185x92	50	<b>515144</b>	1
125x125	50	<b>515214</b>	1
185x125	50	<b>515224</b>	1
252x125	50	<b>515234</b>	1
185x185	50	<b>515313</b>	1
252x185	57	<b>515323</b>	1
252x252	57	<b>515413</b>	1
315x252	53	<b>515423</b>	1
373x373	80	<b>515613</b>	1
507x373	165	<b>515637</b>	1
630x373	127	<b>515645</b>	1

**Equipment included:** complete with non-ageing gasket and captive stainless steel fixing screws.

**Features:** the height of the cover allows to insert MCCB inside. Covers with dimensions 155x155 and larger are rated IP55.



**Covers with transparent window and DIN rail**  
for ALUPRES boxes  
**IP67**




For boxes with dimensions (mm)	Height (mm)	No. of DIN modules	Palazzoli code	Pack Qty
125x125	80	4	<b>518204</b>	1
185x125	80	6.5	<b>518206</b>	1
185x185	80	7.5	<b>518207</b>	1
252x125	80	9	<b>518209</b>	1
252x185	80	11	<b>518211</b>	1

**Equipment included:** complete with non-ageing gasket and captive stainless steel fixing screws and DIN rail.

**Features:** when fitted in the box they allow the installation of modular devices. Covers with dimensions 155x155 and larger are rated IP55. Padlockable lid and with tamper-proof screw.



**Control units**  
in aluminium alloy  
for wall-mounting  
**IP67**

Dimensions (mm)	Window type	No. of DIN modules	Power dissipation (W)	Palazzoli code	Pack Qty
125x125	 Blind walls	4	13	<b>512204</b>	1
185x125	 Blind walls	6.5	15	<b>512206</b>	1
252x185	 Blind walls	11	20	<b>512211</b>	1

**Features:** padlockable lid and with tamper-proof screw.



**Blind covers hinged low**  
for ALUPRES boxes  
**IP55**

For boxes with dimensions (mm)	Cover height (mm)	Palazzoli code	Pack Qty
185x185	64	<b>516314</b>	1
252x185	64	<b>516324</b>	1
252x252	64	<b>516414</b>	1
315x252	72	<b>516424</b>	1
507x252	72	<b>516454</b>	1
373x373	40	<b>516611</b>	1
373x373	72	<b>516613</b>	1
507x373	40	<b>516631</b>	1
507x373	140	<b>516636</b>	1
630x373	68	<b>516643</b>	1
630x507	68	<b>516823</b>	1
630x507	140	<b>516826</b>	1

**Equipment included:** complete with non-ageing gasket and captive stainless steel fixing screws.  
**Features:** the hinge makes it easier to reach the inside of the enclosure.













**Blind covers for floor**  
for pedestrian traffic  
for ALUPRES boxes  
**IP55**

For boxes with dimensions (mm)	Outer dimensions (mm)	Palazzoli code	Pack Qty
125x125x63	145x145x15	<b>519210</b>	1
155x155x63	177x177x16,5	<b>529210</b>	1
185x185x95	207x207x16,5	<b>519310</b>	1
220x220x95	245x245x20	<b>529310</b>	1
295x295x105	325x325x22	<b>529410</b>	1
373x373x140	405x405x25	<b>519610</b>	1

**Equipment included:** complete with non-ageing gasket and captive stainless steel fixing screws.



**Junction boxes**  
in aluminium alloy  
with back plate  
and blind cover  
**IP67**

Outer dimensions (mm)	Window type	Palazzoli code	Pack Qty
92x92x66	 blind walls	<b>150006</b>	1
92x92x66		<b>150001</b>	1
125x125x73	 blind walls	<b>150016</b>	1
125x125x73		<b>150011</b>	1
155x155x73	 blind walls	<b>150026</b>	1
155x155x73		<b>150021</b>	1
185x185x105		<b>150031</b>	1
220x220x107		<b>150041</b>	1
295x295x121		<b>150051</b>	1
373x373x165		<b>150061</b>	1

**Equipment included:** free windows with gaskets in non-ageing elastomer and screws for applying accessories or for coupling with other boxes. Earth screws inside and outside the box.  
**Features:** boxes with dimensions 155x155 and larger are rated IP55.

**Technical accessories:**





**Blind flanges flat** in steel  
for windowed walls  
**IP67**

For windows	Projection (mm)	Palazzoli code	Pack Qty
F0 (insulating material)	5	<b>540030</b>	1
F1 (insulating material)	6	<b>540031</b>	5
F0	2.5	<b>540090</b>	5
F1	5.5	<b>540091</b>	5
F2	5.5	<b>540032</b>	1
F3	6	<b>540033</b>	2
F4	6	<b>540034</b>	2
F5	7	<b>540035</b>	2
F6	8	<b>540036</b>	1

**Uses:** they close unused windows. Holes can be drilled for applying cable glands.



**Flanges flat** in aluminium alloy with **metric threading**  
for windowed walls  
**IP67**

For windows	Threading type	Projection (mm)	Palazzoli code	Pack Qty
F0	M25	18	<b>541050</b>	1
F1	M25	18	<b>541055</b>	1
F1	M32	51	<b>540180</b>	1
F2	M32	51	<b>540185</b>	1
F2	M40	51	<b>540186</b>	1
F3	M40	51	<b>540190</b>	1
F4	M40	51	<b>540193</b>	1
F5	M50	51	<b>540195</b>	1

**Technical accessories:**



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**Blind flanges raised**  
in aluminium alloy  
for windowed walls  
**IP67**

For windows	Projection (mm)	Palazzoli code	Pack Qty
F1	32	<b>540061</b>	1
F2	32	<b>540062</b>	1
F3	50	<b>540063</b>	1
F4	50	<b>540064</b>	1
F5	80	<b>540065</b>	1
F6	80	<b>540066</b>	1

**Uses:** they close unused windows. They facilitate the wiring as they increase the internal volume of the enclosure.



**Flanges in aluminium alloy**  
with **gas threading**  
and **cable gland**  
for windowed walls  
**IP67**

For windows	Threading type	Entry cable diameter (mm)	Projection (mm)	Palazzoli code	Pack Qty
F0 (insulating material)	1/2"	8-13	23	<b>541010</b>	1
F0 (insulating material)	3/4"	9-17	29	<b>541020</b>	1
F0	1/2"	9-12	31	<b>541080</b>	1
F0	3/4"	9-17	33	<b>541090</b>	1
F0	1"	17-20	34	<b>541030</b>	1
F1	1/2"	8-13	29	<b>541011</b>	1
F1	3/4"	10-18	33	<b>541021</b>	1
F1	1"	14-19	63	<b>540151</b>	1
F1	1" 1/4	22-26	63	<b>540141</b>	1
F2	1"	18-20	63	<b>540152</b>	1
F2	1" 1/4	25-26	64	<b>540142</b>	1
F3	1" 1/2	32-35	82	<b>540153</b>	1
F4	1" 1/2	32-35	88	<b>540154</b>	1
F5	2"	42-44	124	<b>540145</b>	1
F6	2" 3/4	57-58	154	<b>540156</b>	1

**Uses:** suitable for entry with threaded pipes. They facilitate the wiring as they increase the internal volume of the enclosure.



**Flanges** in aluminium alloy with **double thread gas** and **double thread cable gland** for windowed entries **IP67**

For windows	Threading type	Entry cable diameter (mm)	Projection (mm)	Palazzoli code	Pack Qty
F0	1/2"	8-13	36	<b>541040</b>	1
F1	3/4"	12-16	57	<b>540161</b>	1
F2	1"	18-20	62	<b>540162</b>	1
F3	1" 1/4	25-26	79	<b>540163</b>	1
F4	1" 1/2	32-35	124	<b>540164</b>	1
F5	2"	42-44	154	<b>540165</b>	1

**Uses:** suitable for entry with threaded pipes.



**One way junction box** in aluminium alloy for windowed walls

For windows	Projection (mm)	For cable Ø (mm)	Palazzoli code	Pack Qty
F1	70	26	<b>544031</b>	1
F2	90	26	<b>544022</b>	1
F3	110	42	<b>544033</b>	1
F4	140	54	<b>544034</b>	1
F5	160	65	<b>544035</b>	1
F6	250	80	<b>544036</b>	1

**Uses:** suitable for entry with unthreaded pipes or cables.



**One way junction box 90° angled** in aluminium alloy for windowed walls

For windows	Projection (mm)	Internal hole Ø (mm)	Palazzoli code	Pack Qty
F1	53	32	<b>545081</b>	1
F2	74	32	<b>545082</b>	1
F3	83	54	<b>545083</b>	1
F4	93	60	<b>545084</b>	1
F5	137	65	<b>545085</b>	1
F6	137	65	<b>545086</b>	1

**Uses:** suitable for entry with unthreaded pipes or cables.



**Reducers** in steel for windows **IP67**

Shape	Reducer type from window	Reducer type to window	Thickness (mm)	Palazzoli code	Pack Qty
	F1	F0	3	<b>547010</b>	1
	F2	F0	4	<b>547020</b>	1
	F2	F1	4	<b>547021</b>	1
	F3	F0	4	<b>547030</b>	1
	F3	F1	4	<b>547031</b>	1
	F3	F2	4	<b>547032</b>	1
	F3	2xF0	5	<b>547300</b>	1
	F4	F1	4	<b>547041</b>	1
	F4	F2	4	<b>547042</b>	1
	F4	F3	4	<b>547043</b>	1
	F4	F1+F0	6	<b>547410</b>	1
	F4	2xF1	5	<b>547411</b>	1
	F5	F3	5	<b>547053</b>	1
	F5	F4	5	<b>547054</b>	1
	F6	F3	5	<b>547063</b>	1
	F6	F4	5	<b>547064</b>	1
	F6	F5	5	<b>547065</b>	1
	F5	F1	5	<b>547151</b>	1
	F5	F2	5	<b>547152</b>	1
	F6	F1	5	<b>547161</b>	1
F6	F2	5	<b>547162</b>	1	

**Uses:** boxes and socket-outlets can be interfaced with different windows.

**Features:** codes 547151, 547152, 547161, 547162 are only used to couple the boxes to the flanges with cable gland.

**Technical accessories:**



**Supports** for flush-mounting at **90°** of straight sockets and plugs **IP65**

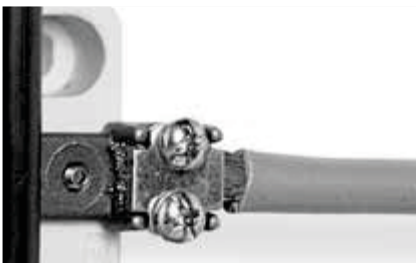
Support base dimensions (mm)	Installable sockets/plugs	Box window	Palazzoli code	Pack Qty
200x133	63A	F5	<b>472947</b>	1
200x133	125A	F5	<b>472948</b>	1

**Equipment included:** 4 stainless steel screws for fixing the socket or the plug.

**Technical accessories:**

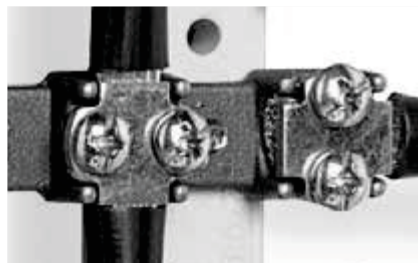


# CONTACT



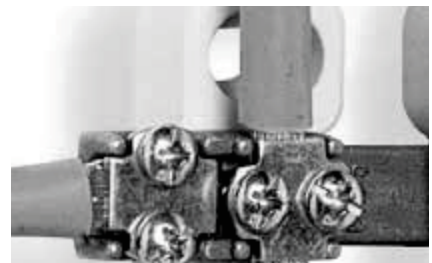
## Guaranteed tightening

Thanks to the cage terminals with two fastening screws.



## Electrical safety

Thanks to the through central terminals, the branches are obtained without cutting the cable.



## Easy installation

Thanks to the quick fitting of the terminal blocks on any type of plate.





The terminal blocks of the CONTACT series allow achieving high quality electrical connections with copper conductors without particular preparation (with cable terminals or connectors). The range includes types for unipolar, multipolar and multipolar for high power connections, all of which can be combined with boxes of the TAIS and ALUPRES series. The range of entry cable sections is between 4mm<sup>2</sup> and 300mm<sup>2</sup>. The products comply with EN 60998-1 and EN 60998-2-1 standards.

Compliance with standards	<b>IEC/EN 60947-7-1</b>
Material	<b>Ceramic (supports) Brass (contacts)</b>
Rated impulse-withstand voltage	<b>6kV</b>
Storage temperature	<b>-80°C - +100°C</b>
Operating temperature	<b>-80°C - +100°C</b>



**Technical features of saddle terminal blocks:**

Rated cross-section (mm <sup>2</sup> )	Rated current (A)	Entry cable sections (mm <sup>2</sup> )	Tightening torque (Nm)
16	76	6 - 16	0.8
25	101	10 - 25	1.2
35	125	16 - 35	1.2
70	192	50 - 70	2
120	269	95 - 120	2.5
240	415	150 - 240	6
300	520	240 - 300	6

**Technical features of terminal blocks on metal bar:**

Rated cross-section (mm <sup>2</sup> )	Rated current (A)	Entry cable sections (mm <sup>2</sup> )	Tightening torque (Nm)
6	41	1,5 - 6	0.8
16	76	4 - 16	1.2

**Technical features of cage terminal blocks:**

Rated cross-section (mm <sup>2</sup> )	Rated current (A)	Entry cable sections (mm <sup>2</sup> )	Tightening torque (Nm)
16	76	4 - 16	2.5



**Terminal blocks**  
with saddle terminals  
for back plates  
500V

TAIS	Box min. dimensions (mm)		No. of poles for section	Palazzoli code	Pack Qty
	TAIS	ALUPRES			
125x92	92x92		3x16 mm <sup>2</sup>	<b>159030</b>	1
185x125	125x125		4x16 mm <sup>2</sup>	<b>159040</b>	10
			3x25 mm <sup>2</sup>	<b>159032</b>	1
	155x155		4x25 mm <sup>2</sup>	<b>159042</b>	5
190x185	185x185		3x35 mm <sup>2</sup>	<b>159033</b>	5
			4x35 mm <sup>2</sup>	<b>159043</b>	1
250x250	220x220		3x70 mm <sup>2</sup>	<b>159034</b>	1
			4x70 mm <sup>2</sup>	<b>159044</b>	1
370x250	295x295		3x120 mm <sup>2</sup>	<b>159035</b>	1
			4x120 mm <sup>2</sup>	<b>159045</b>	1
500x370	373x373		3x240 mm <sup>2</sup>	<b>159036</b>	1
			4x240 mm <sup>2</sup>	<b>159046</b>	1
			3x300 mm <sup>2</sup>	<b>159037</b>	1



**Terminal blocks**  
in ceramic on metallic bar  
for TAIS boxes  
400V

For boxes with dimensions (mm)	No. of poles for section	Palazzoli code	Pack Qty
92x92	4x6 mm <sup>2</sup>	<b>532725</b>	1
	4x6 mm <sup>2</sup>	<b>532735</b>	1
	6x4 mm <sup>2</sup>	<b>532755</b>	1
92x125, 92x185 125x125, 125x185	4x6 mm <sup>2</sup>	<b>532745</b>	1
	4x16 mm <sup>2</sup>	<b>532747</b>	1
	6x6 mm <sup>2</sup>	<b>532765</b>	1
125x250	4x16 mm <sup>2</sup>	<b>532748</b>	1
	6x16 mm <sup>2</sup>	<b>532768</b>	1

**Features:** codes 532735 and 532755 in insulating material.



**Terminal blocks**  
with cage terminals  
for watertight boxes  
400V

For boxes with dimensions (mm)	No. of poles for section	Palazzoli code	Pack Qty
92x92	4x16 mm <sup>2</sup>	<b>113194</b>	1

**Technical accessories:**

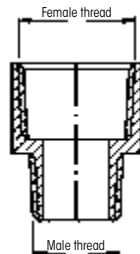




Compliance with standards	<b>IEC/EN 60423 EN 50262</b>
Material	<b>Polyamide (technopolymer version) Nickel-plated brass (brass version) Neoprene (gasket) Galvanised steel (adaptors)</b>
Protection rating (IP according to IEC/EN 60529)	<b>IP67 - IP68</b>
Colour	<b>RAL7035 (technopolymer)</b>
Operating temperature (insulating material)	<b>Cable glands: -30°C - +100°C Adaptors: -30°C - +90°C</b>
Operating temperature (brass)	<b>-40°C - +100°C</b>



### SELECTION GUIDE



**Pg/Metric adaptors**  
in insulating material  
for tube/box connections  
**IP67**

Male thread	Female thread	Palazzoli code	Pack Qty
Pg13.5	M20x1.5	<b>580291</b>	1
Pg16	M20x1.5	<b>580292</b>	1
Pg21	M25x1.5	<b>580294</b>	1
Pg29	M32x1.5	<b>580295</b>	1
Pg36	M40x1.5	<b>580296</b>	1

**Equipment included:** complete with gasket.



**Pg/Gas adaptors**  
in insulating material  
for tube/box connections  
**IP67**

Male thread	Female thread	Palazzoli code	Pack Qty
Pg13.5	3/8"	<b>580271</b>	1
Pg16	1/2"	<b>580272</b>	1
Pg21	3/4"	<b>580274</b>	1
Pg29	1"	<b>580275</b>	1
Pg36	1" 1/2	<b>580276</b>	1

**Equipment included:** complete with gasket.



**Gas/metric adaptors**  
in insulating material  
for conduit/box connections  
**IP67**

Male thread	Female thread	Palazzoli code	Pack Qty
1/2" Gas	M20x1.5	<b>580261</b>	1
3/4" Gas	M25x1.5	<b>580264</b>	1

**Equipment included:** complete with gasket.

**Cable glands**  
in insulating material  
with **metric threading**  
**IP68**

Threading	Mounting hole (mm)	Fastening diameter (mm)	Thread length (mm)	Palazzoli code	Pack Qty
M12x1,5	12.5	2.5-6.5	8	<b>581012</b>	100
M16x1.5	16.5	3.5-10	10	<b>581016</b>	50
M20x1.5	20.5	7-14	10	<b>581020</b>	50
M25x1.5	25.5	9-18	10	<b>581025</b>	25
M32x1,5	32.5	14-25	10	<b>581032</b>	20
M40x1.5	40.5	18-32	10	<b>581040</b>	10
M50x1.5	50.5	24-38.5	12	<b>581050</b>	5
M63x1.5	63.5	35-48	12	<b>581063</b>	5

**Locknuts**  
in insulating material  
with **metric threading**

Threading	Palazzoli code	Pack Qty
M12x1,5	<b>581212</b>	50
M16x1.5	<b>581216</b>	50
M20x1.5	<b>581220</b>	50
M25x1.5	<b>581225</b>	50
M32x1,5	<b>581232</b>	50
M40x1.5	<b>581240</b>	20
M50x1.5	<b>581250</b>	10
M63x1.5	<b>581263</b>	5

**Cable glands**  
in insulating material  
with **metric pitch**  
with **long thread**  
**IP68**

Threading	Mounting hole (mm)	Fastening diameter (mm)	Thread length (mm)	Palazzoli code	Pack Qty
M12x1,5	12.5	2.5-6.5	15	<b>581112</b>	100
M16x1.5	16.5	3.5-10	15	<b>581116</b>	50
M20x1.5	20.5	7-14	15	<b>581120</b>	50
M25x1.5	25.5	9-18	15	<b>581125</b>	25
M32x1,5	32.5	14-25	15	<b>581132</b>	20
M40x1.5	40.5	18-32	15	<b>581140</b>	10
M50x1.5	50.5	24-38.5	15	<b>581150</b>	5
M63x1.5	63.5	35-48	15	<b>581163</b>	5

**Uses:** for cable/conduit entry into boxes with very thick walls.

**Cable glands**  
in insulating material  
with **Pg** threading  
**IP68**

Pg	Mounting hole (mm)	Fastening diameter (mm)	Thread length (mm)	Palazzoli code	Pack Qty
7	13	2.5-6.5	8	<b>571007</b>	100
9	16	2.5-8	8	<b>571009</b>	50
11	19	3.5-10	8	<b>571011</b>	50
13.5	21	5-12	9	<b>571013</b>	50
16	23	7-14	10	<b>571016</b>	50
21	29	9-18	11	<b>571021</b>	25
29	38	14-25	11	<b>571029</b>	20
36	48	18-32	13	<b>571036</b>	10
42	55	24-38.5	13	<b>571042</b>	5
48	61	35-48	14	<b>571048</b>	5

**Cable glands**  
in insulating material  
with **Pg** pitch  
with **long thread**  
**IP68**

Pg	Mounting hole (mm)	Fastening diameter (mm)	Thread length (mm)	Palazzoli code	Pack Qty
7	13	3-6	15	<b>571107</b>	50
9	16	5-8	15	<b>571109</b>	50
11	19	6-10	15	<b>571111</b>	50
13.5	21	8-12	15	<b>571113</b>	50
16	23	10-14	15	<b>571116</b>	50
21	29	11.5-18	15	<b>571121</b>	20
29	38	15-24	15	<b>571129</b>	20
36	48	24-34	18	<b>571136</b>	10
42	55	34-42	18	<b>571142</b>	10
48	61	37-45	18	<b>571148</b>	10

**Screwcaps**  
in insulating material  
with **Pg** threading  
**IP67**

Pg	Palazzoli code	Pack Qty
13.5	<b>580230</b>	100
16	<b>580231</b>	100
21	<b>580232</b>	100
29	<b>580233</b>	50
36	<b>580234</b>	25

**Locknuts**  
in insulating material  
with **Pg** threading

Pg	Palazzoli code	Pack Qty
7	<b>571207</b>	50
9	<b>571209</b>	50
11	<b>571211</b>	50
13.5	<b>571213</b>	50
16	<b>571216</b>	50
21	<b>571221</b>	25
29	<b>571229</b>	20
36	<b>571236</b>	10
42	<b>571242</b>	5
48	<b>571248</b>	5

**Screwcaps**  
with **anti-condensation filter**  
with **Pg** threading  
**IP54**

Pg	Mounting hole (mm)	Palazzoli code	Pack Qty
16	23	<b>580211</b>	1
21	29	<b>580212</b>	1
29	38	<b>580213</b>	1

**Equipment included:** inclusive of threaded shade ring, stainless steel sponge filter, gasket and nut.

**Features:** the cap must be mounted with the opening facing downwards.

**Uses:** particularly suitable in environments with high humidity.

**Cable glands**  
in nickel-plated brass  
with **metric threading**  
**IP68**

Threading	Mounting hole (mm)	Fastening diameter (mm)	Thread length (mm)	Palazzoli code	Pack Qty
M12x1,5	12.5	2.5-6.5	6.5	<b>582012</b>	100
M16x1.5	16.5	4-9.5	7	<b>582016</b>	50
M20x1.5	20.5	7-13	8	<b>582020</b>	50
M25x1.5	25.5	8-16	8	<b>582025</b>	25
M32x1,5	32.5	11-21	9	<b>582032</b>	20
M40x1.5	40.5	15-27	9	<b>582041</b>	10
M50x1.5	50.5	22-35	10	<b>582050</b>	5

**Cable glands**  
in nickel-plated brass  
with **metric pitch**  
with **long thread**  
**IP68**

Threading	Mounting hole (mm)	Fastening diameter (mm)	Thread length (mm)	Palazzoli code	Pack Qty
M12x1,5	12.5	2.5-6.5	15	<b>582112</b>	100
M16x1.5	16.5	4-9.5	15	<b>582116</b>	50
M20x1.5	20.5	7-13	15	<b>582120</b>	50
M25x1.5	25.5	8-16	15	<b>582125</b>	25
M32x1,5	32.5	11-21	15	<b>582132</b>	20
M40x1.5	40.5	15-27	15	<b>582141</b>	10
M50x1.5	50.5	22-35	15	<b>582150</b>	5
M63x1.5	63.5	35-48	15	<b>582163</b>	5

**Screw caps**  
in nickel-plated brass  
with **metric threading**  
**IP68**

Threading	Thread length (mm)	Palazzoli code	Pack Qty
M12x1,5	5	<b>582312</b>	100
M16x1.5	6	<b>582316</b>	100
M20x1.5	6.5	<b>582320</b>	100
M25x1.5	7	<b>582325</b>	100
M32x1,5	8	<b>582332</b>	50
M40x1.5	9	<b>582340</b>	50
M50x1.5	10	<b>582350</b>	25
M63x1.5	10	<b>582363</b>	25

**Locknuts**  
in nickel-plated brass  
with **metric threading**

Threading	Palazzoli code	Pack Qty
M12x1,5	<b>582212</b>	50
M16x1.5	<b>582216</b>	50
M20x1.5	<b>582220</b>	50
M25x1.5	<b>582225</b>	25
M32x1,5	<b>582232</b>	20
M40x1.5	<b>582240</b>	10
M50x1.5	<b>582250</b>	10
M63x1.5	<b>582263</b>	5



**Cable gland**  
in nickel-plated brass  
with **Pg** threading  
**IP68**

Pg	Mounting hole (mm)	Fastening diameter (mm)	Thread length (mm)	Palazzoli code	Pack Qty
7	13	2.5-6.5	5	<b>572007</b>	50
9	15,5	4-9.5	6	<b>572009</b>	50
11	19	6-11,5	6	<b>572011</b>	50
13.5	21	7-13	6.5	<b>572013</b>	50
16	23	8-15	6.5	<b>572016</b>	50
21	29	11-19	7	<b>572021</b>	20
29	37.5	16-26	8	<b>572029</b>	20
36	47.5	22-34.5	9	<b>572036</b>	10
42	54.5	27-40	10	<b>572042</b>	5

**Screwcaps**  
in nickel-plated brass  
with **Pg** threading  
**IP68**

Pg	Thread length (mm)	Palazzoli code	Pack Qty
7	5	<b>572307</b>	50
9	6	<b>572309</b>	50
11	6	<b>572311</b>	50
13.5	6.5	<b>572313</b>	50
16	6.5	<b>572316</b>	25
21	7	<b>572321</b>	20
29	8	<b>572329</b>	15
36	9	<b>572336</b>	10
42	10	<b>572342</b>	10
48	10	<b>572348</b>	10

**Cable gland**  
in nickel-plated brass  
with **Pg** pitch  
with **long thread**  
**IP68**

Pg	Mounting hole (mm)	Fastening diameter (mm)	Thread length (mm)	Palazzoli code	Pack Qty
7	13	2.5-6.5	12	<b>572107</b>	50
9	15,5	4-9.5	12	<b>572109</b>	50
11	19	6-11,5	12	<b>572111</b>	50
13.5	21	7-13	12	<b>572113</b>	50
16	23	8-15	12	<b>572116</b>	50
21	29	11-19	12	<b>572121</b>	20
29	37.5	16-26	15	<b>572129</b>	20
36	47.5	22-34.5	15	<b>572136</b>	10
42	54.5	27-40	15	<b>572142</b>	5
48	60	35-48	15	<b>572148</b>	5

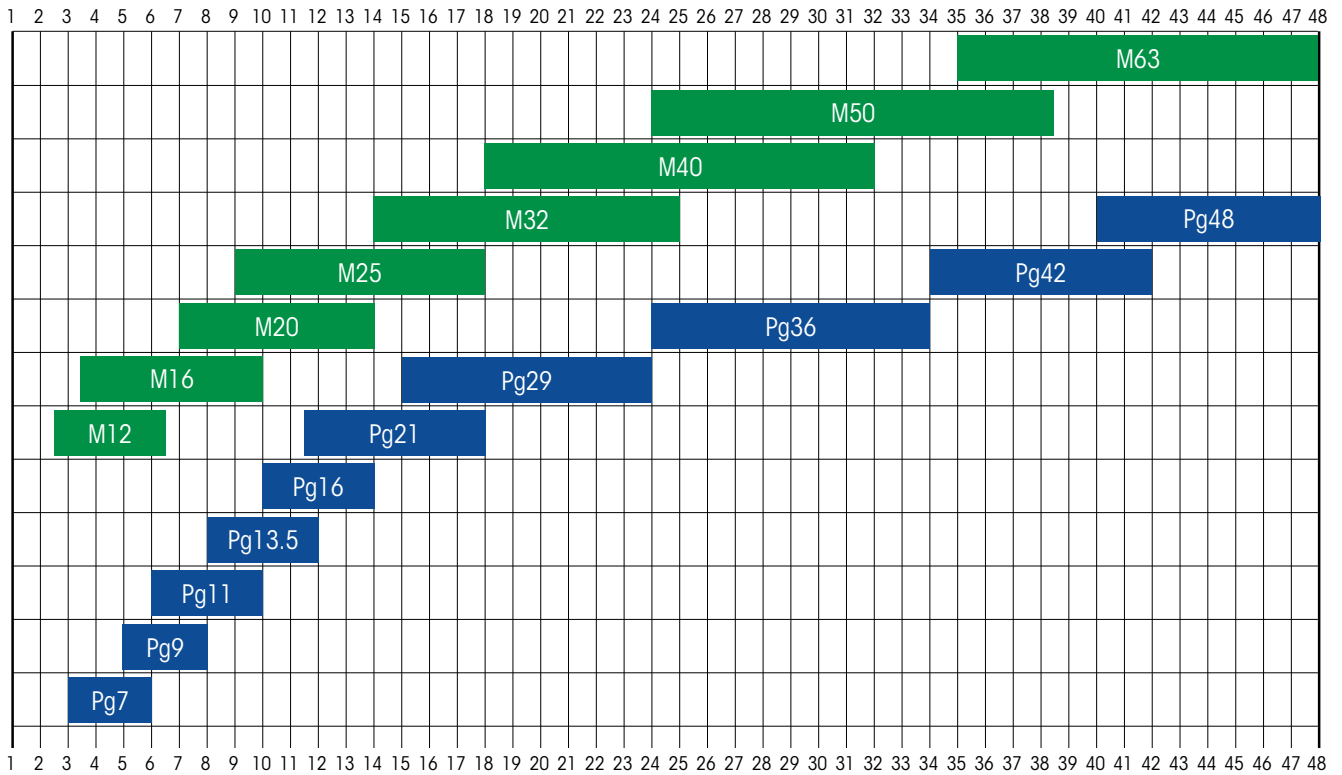
**Locknuts**  
in nickel-plated brass  
with **Pg** threading

Pg	Palazzoli code	Pack Qty
7	<b>572207</b>	50
9	<b>572209</b>	50
11	<b>572211</b>	50
13.5	<b>572213</b>	50
16	<b>572216</b>	50
21	<b>572221</b>	20
29	<b>572229</b>	20
36	<b>572236</b>	10
42	<b>572242</b>	5
48	<b>572248</b>	5



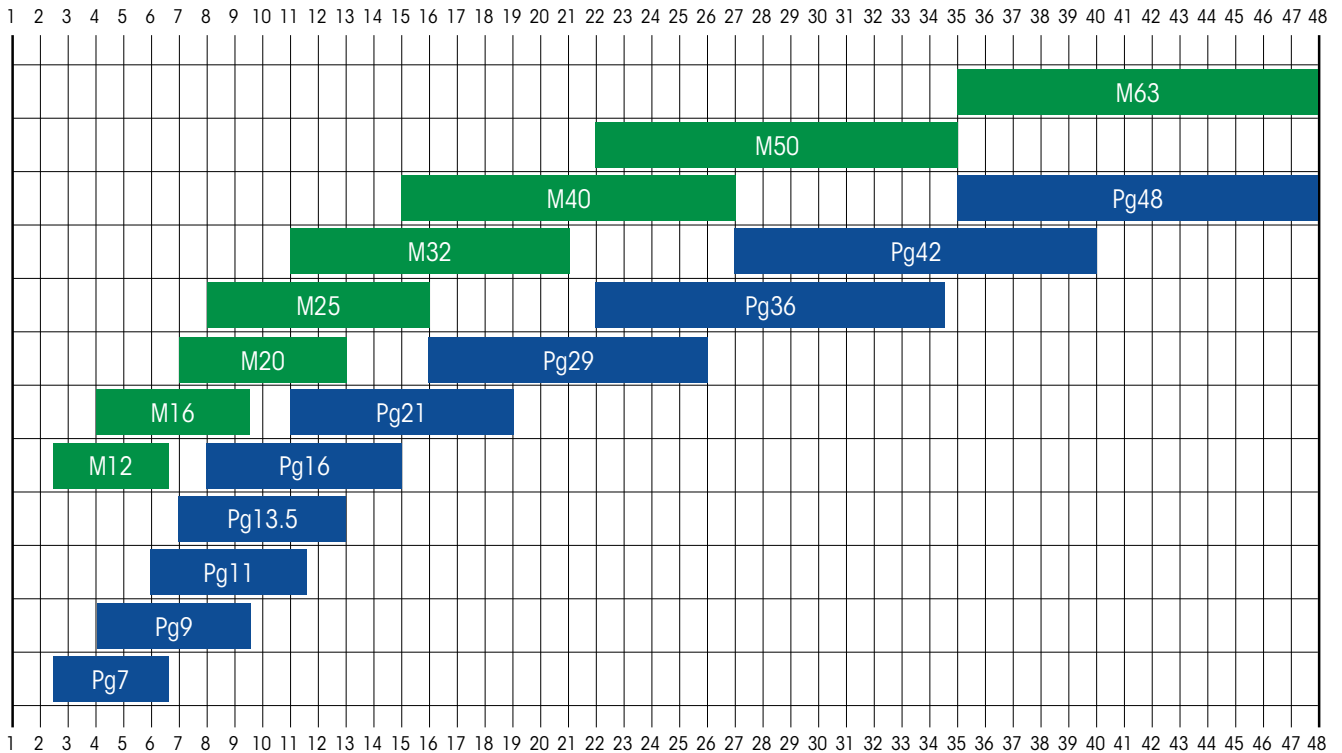
### Metric and Pg pitch cable glands selection chart

#### FASTENING DIAMETERS (MM) - INSULATING MATERIAL



Notes: fastening diameters for Pg cable glands in insulating material refer to the version with long thread.

#### FASTENING DIAMETERS (MM) - BRASS





**CAM-SZ**  
isolator switches in technopolymer  
for wall-mounting  
page 170



**CAM-SZ**  
isolator switches for base mounting  
and back panel mounting  
page 172



**CAM-ST**  
multi-diagram  
cam switches  
page 176





**CAM**  
rotary switches in  
thermosetting GRP  
page 182



**CAM**  
rotary switches  
in aluminium  
page 184



**CAM - F400**  
rotary switches in aluminium,  
fire resistant  
page 188



**CAM**  
multi-diagram  
cam switches  
page 190



**TAIS MIGNON**  
small devices  
in thermosetting GRP  
page 202



**RONDÓ**  
small devices  
in aluminium  
page 212



**ALARM**  
sirens and bells  
page 214



**SAFE**  
protection fuses  
page 215

# CAM-SZ



AC3 10kA  
GUARANTEED



## Unbeatable

Thanks to the AC3-AC23A category at rated current.



## High visibility

Thanks to the yellow cover, the switch can also be located in the presence of smoke.



## Total safety

Thanks to the possibility to padlock the handle and prevent undesired operations.





The CAM-SZ series ensures the powering down, entire or partial, of the system, isolating it safely from any electrical power supply. The CAM-SZ series is of the AC3-AC23A category and is also suitable for highly inductive loads. It is the only one applicable to cage motors (best known as rotary motors, widely used for Industrial and Automation systems) for their start or stop during the rotation.

Compliance with standards	<b>IEC/EN 60947-3</b>
Material	<b>Thermoplastic</b>
Protection rating (IP according to IEC/EN 60529)	<b>IP65</b>
Colour	<b>RAL7035 (standard version) RAL1018 (emergency cover) RAL3000 (emergency handle)</b>
Resistance to abnormal heat and fire ("Glow wire" according to IEC/EN 60695-2-10)	<b>960°C (switch) 650°C (enclosure)</b>
Impact resistance (IK rating according to IEC/EN 62262)	<b>IK08</b>
Insulation voltage	<b>Up to 690V</b>
Insulation class	<b>II □</b>
Storage temperature	<b>-40°C - +80°C</b>
Operating temperature	<b>-25°C - +60°C</b>



Rated operating current:		16A	25A	32A	40A	63A	100A	
Thermal current I <sub>th</sub>	A	16	25	32	40	63	100	
AC21A	415V	A	16	25	32	40	63	100
	500V	A	16	25	32	40	63	100
AC22A	415V	A	16	25	32	40	63	100
	500V	A	16	25	32	40	63	100
AC23A	230V	A	16	25	32	40	50	63
	400V							
	500V							
	690V							
	690V							
AC23A	230V	kW	4	6.5	8.5	10	12	20
	400V		7.5	11.5	15	16	21	34
	500V		8.5	13	17	18	28	44
	690V		12	16	19	20	32	50
AC3	230V	kW	4	6.5	8.5	9	10	16
	400V		7.5	11.5	15	16	17	28
	500V		8.5	13	17	18	22	36
	690V		12	14	18	20	25	40

Wiring data:		16A	25A	32A	40A	63A	100A
Entry cable sections	mm <sup>2</sup>	1 - 10			10 - 35		
Tightening torque	Nm	2			3		



**Emergency isolator switches**  
in insulating material  
for wall-mounting  
50-60Hz **IP65**



Rated current (A)	Poles	CAM scheme	Palazzoli code	Pack Qty
16	2	2	<b>208162</b>	1
	3	3	<b>208163</b>	1
	4	4	<b>208164</b>	1
25	3	3	<b>208253</b>	1
	4	4	<b>208254</b>	1
32	2	2	<b>208322</b>	1
	3	3	<b>208323</b>	1
40	4	4	<b>208324</b>	1
	3	3	<b>208403</b>	1
63	4	4	<b>208404</b>	1
	2	2	<b>208632</b>	1
100	3	3	<b>208633</b>	1
	4	4	<b>208634</b>	1
100	3	3	<b>208103</b>	1
	4	4	<b>208104</b>	1

**Equipment included:** complete with terminal cover.  
**Features:** handle padlockable in position 0.



**Control isolator switches**  
in insulating material  
for wall-mounting  
50-60Hz **IP65**



Rated current (A)	Poles	CAM scheme	Palazzoli code	Pack Qty
16	2	2	<b>209162</b>	1
	3	3	<b>209163</b>	1
	4	4	<b>209164</b>	1
25	3	3	<b>209253</b>	1
	4	4	<b>209254</b>	1
32	2	2	<b>209322</b>	1
	3	3	<b>209323</b>	1
40	4	4	<b>209324</b>	1
	3	3	<b>209403</b>	1
63	4	4	<b>209404</b>	1
	2	2	<b>209632</b>	1
100	3	3	<b>209633</b>	1
	4	4	<b>209634</b>	1
100	3	3	<b>209103</b>	1
	4	4	<b>209104</b>	1

**Equipment included:** complete with terminal cover.  
**Features:** handle padlockable in position 0 and 1.



**Emergency isolator switches with doorlock and yellow front plate for base mounting IP65**



Rated current (A)	Poles	CAM scheme	Front plate dimensions (mm)	Palazzoli code	Pack Qty
16	2	2	67x67	<b>265162</b>	1
	3	3	67x67	<b>265163</b>	1
	4	4	67x67	<b>265164</b>	1
25	3	3	67x67	<b>265253</b>	1
	4	4	67x67	<b>265254</b>	1
32	2	2	67x67	<b>265322</b>	1
	3	3	67x67	<b>265323</b>	1
	4	4	67x67	<b>265324</b>	1
40	3	3	67x67	<b>265403</b>	1
	4	4	67x67	<b>265404</b>	1
63	2	2	67x67	<b>265632</b>	1
	3	3	67x67	<b>265633</b>	1
	4	4	67x67	<b>265634</b>	1
100	3	3	67x67	<b>265103</b>	1
	4	4	67x67	<b>265104</b>	1

**Features:** IP20 terminals suitable for fastening cables without prior preparation of the conductors and without the use of terminals. The handles are padlockable in positions 0.

**Uses:** direct fixing on plate by means of screws or on DIN rail.



**Emergency isolator switches with yellow front plate for back panel-mounting IP65**



Rated current (A)	Poles	CAM scheme	Front plate dimensions (mm)	Palazzoli code	Pack Qty
16	2	2	67x67	<b>267162</b>	1
	3	3	67x67	<b>267163</b>	1
	4	4	67x67	<b>267164</b>	1
25	3	3	67x67	<b>267253</b>	1
	4	4	67x67	<b>267254</b>	1
32	2	2	67x67	<b>267322</b>	1
	3	3	67x67	<b>267323</b>	1
	4	4	67x67	<b>267324</b>	1
40	3	3	67x67	<b>267403</b>	1
	4	4	67x67	<b>267404</b>	1
63	2	2	67x67	<b>267632</b>	1
	3	3	67x67	<b>267633</b>	1
	4	4	67x67	<b>267634</b>	1
100	3	3	67x67	<b>267103</b>	1
	4	4	67x67	<b>267104</b>	1

**Features:** IP20 terminals suitable for fastening cables without prior preparation of the conductors and without the use of terminals. The handles are padlockable in positions 0.



**Isolator switches with doorlock and yellow front plate for base mounting IP65**



Rated current (A)	Poles	CAM scheme	Front plate dimensions (mm)	Palazzoli code	Pack Qty
16	2	2	67x67	<b>266162</b>	1
	3	3	67x67	<b>266163</b>	1
	4	4	67x67	<b>266164</b>	1
32	2	2	67x67	<b>266322</b>	1
	3	3	67x67	<b>266323</b>	1
	4	4	67x67	<b>266324</b>	1
63	2	2	67x67	<b>266632</b>	1
	3	3	67x67	<b>266633</b>	1
	4	4	67x67	<b>266634</b>	1
100	3	3	67x67	<b>266103</b>	1
	4	4	67x67	<b>266104</b>	1

**Features:** IP20 terminals suitable for fastening cables without prior preparation of the conductors and without the use of terminals. The handles are padlockable in positions 0 and 1.

**Uses:** direct fixing on plate by means of screws or on DIN rail.



**Isolator switches with yellow front plate for back panel-mounting IP65**



Rated current (A)	Poles	CAM scheme	Front plate dimensions (mm)	Palazzoli code	Pack Qty
16	2	2	67x67	<b>268162</b>	1
	3	3	67x67	<b>268163</b>	1
	4	4	67x67	<b>268164</b>	1
25	3	3	67x67	<b>268253</b>	1
	4	4	67x67	<b>268254</b>	1
32	2	2	67x67	<b>268322</b>	1
	3	3	67x67	<b>268323</b>	1
	4	4	67x67	<b>268324</b>	1
40	3	3	67x67	<b>268403</b>	1
	4	4	67x67	<b>268404</b>	1
63	2	2	67x67	<b>268632</b>	1
	3	3	67x67	<b>268633</b>	1
	4	4	67x67	<b>268634</b>	1
100	3	3	67x67	<b>268103</b>	1
	4	4	67x67	<b>268104</b>	1

**Features:** IP20 terminals suitable for fastening cables without prior preparation of the conductors and without the use of terminals. The handles are padlockable in positions 0 and 1.



**Auxiliary contacts**  
for switches up to 32A

Rated current (A)	Control device type	Contact type	Palazzoli code	Pack Qty
16	16-32A isolator switches	1 NC postponed	<b>270226</b>	1
	16-32A isolator switches	1 NO postponed	<b>270227</b>	1
	16-32A isolator switches	1 NC	<b>270230</b>	1
	16-32A isolator switches	1 NO	<b>270231</b>	1
	16-32A isolator switches	1NO+1NC	<b>270232</b>	1

**Features:** code 270232 consisting of 2 contacts.



**Adaptor** for mounting 16A  
auxiliary contacts

Switch current (A)	Installable contacts	Palazzoli code	Pack Qty
from 16A to 32A	2	<b>270235</b>	1



**Auxiliary contacts** for 40A  
to 100A isolator switches  
50-60Hz **IP65**

Contact type	Contact current (A)	Palazzoli code	Pack Qty
1NO+1NC	16	<b>200016</b>	1



**Extension shafts**  
for switches  
for base mounting  
16A/100A

Rated current (A)	Board diameter (mm)	Length (mm)	Palazzoli code	Pack Qty
16-100	6	225	<b>270225</b>	1
	6	350	<b>270350</b>	1
	6	500	<b>270500</b>	1



**Terminal cover caps**  
for isolator switches

For control devices type	Palazzoli code	Pack Qty
16-32A isolator switches	<b>270241</b>	1
40-100A isolator switches	<b>270242</b>	1



**Adjustable spacer support kit**  
in steel for fixing  
base-mounted devices

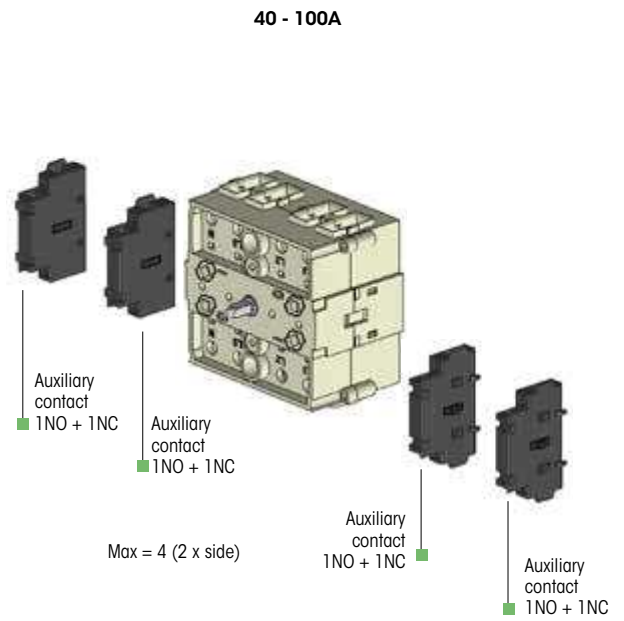
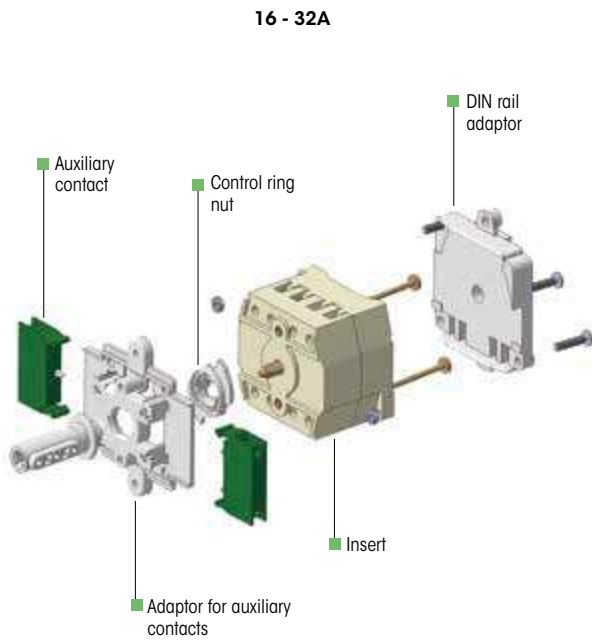
Min length (mm)	Max length (mm)	Palazzoli code	Pack Qty
97	168	<b>270900</b>	10

**Features:** It consists of 4 equal squares in galvanised steel with self-threading screws and washers.

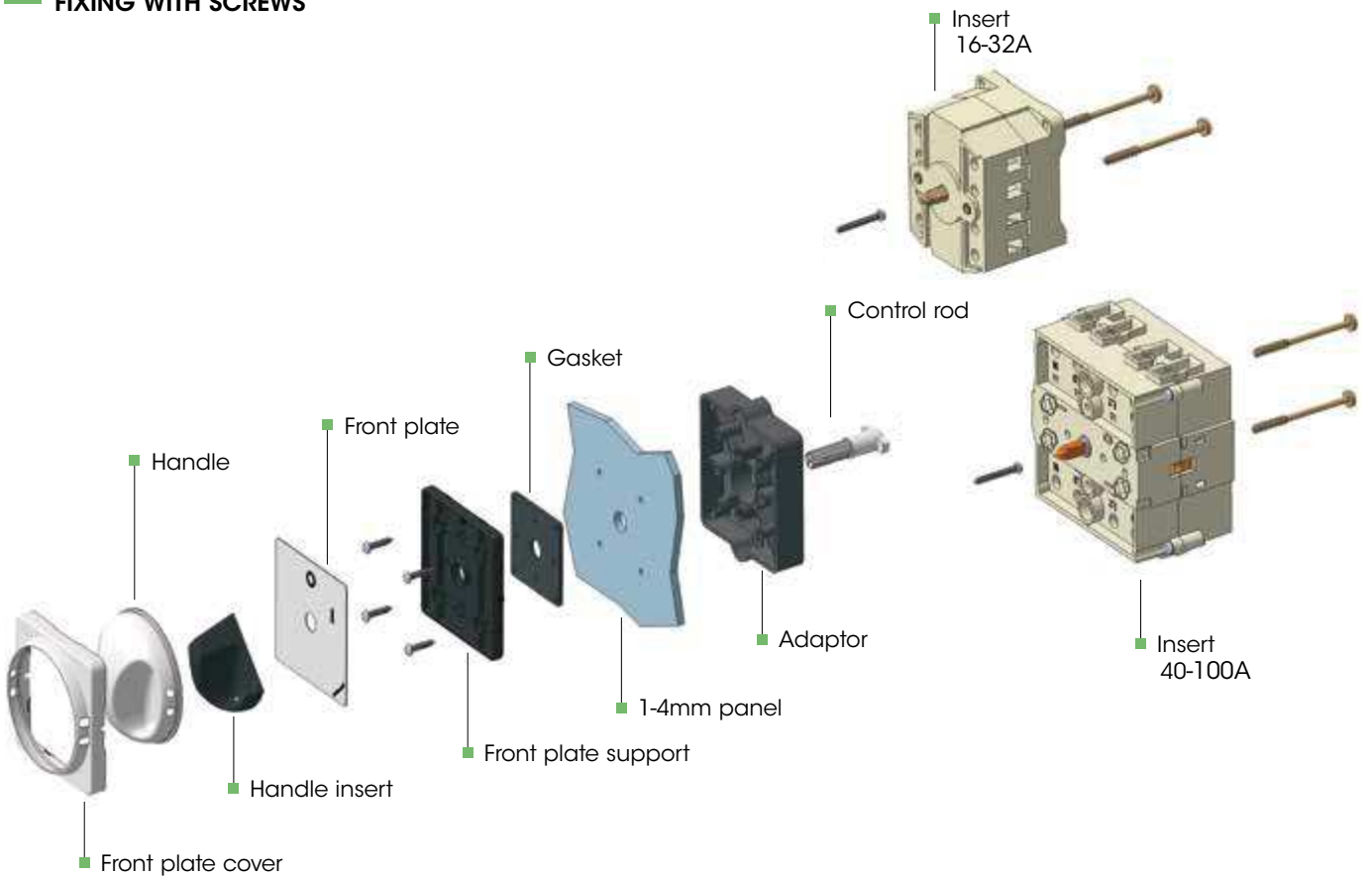
**Uses:** it is used for fixing devices in the right position and height for correct coupling with the handle applied to the hatch.



MOUNTING DIAGRAM OF AUXILIARY CONTACTS

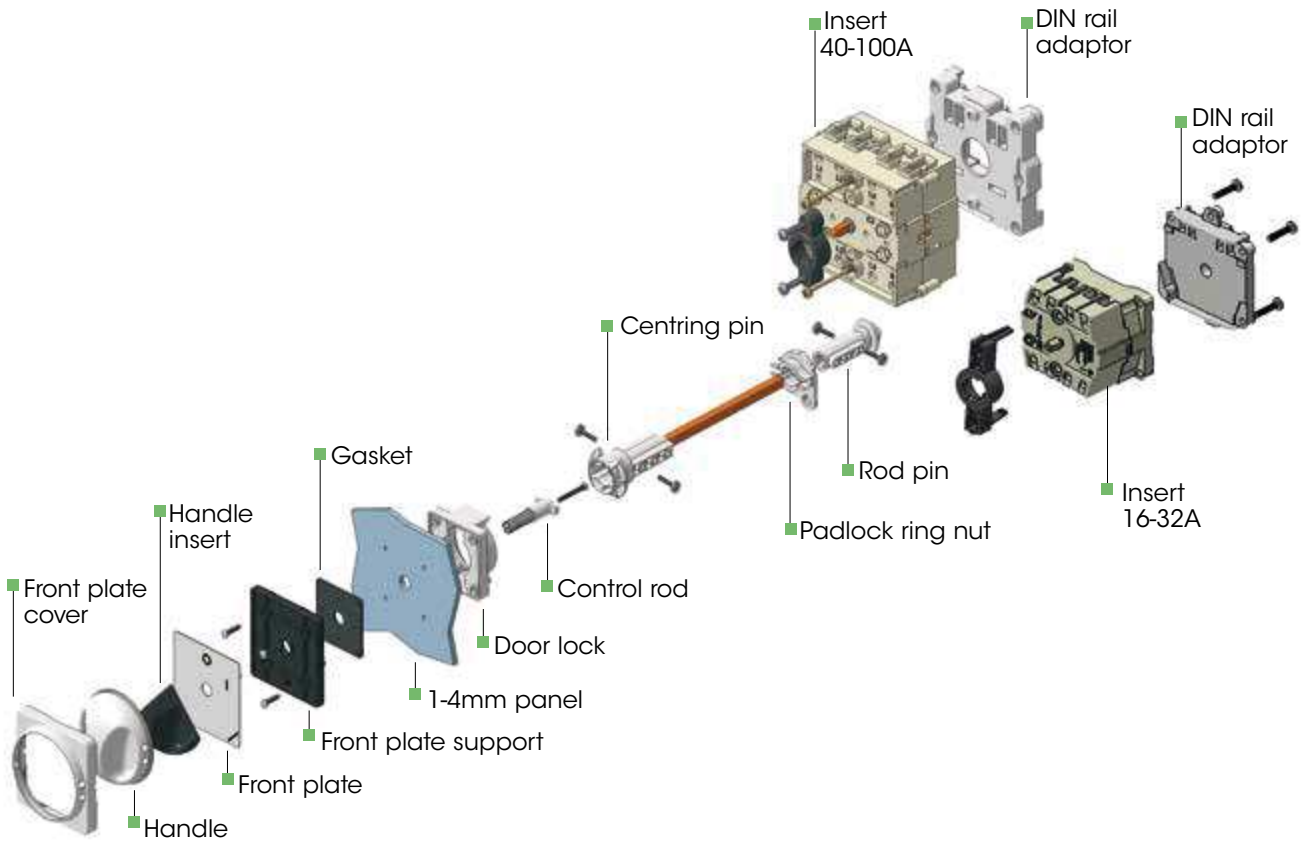


FOR BACK PANEL-MOUNTING 16-32 / 40-100A  
FIXING WITH SCREWS

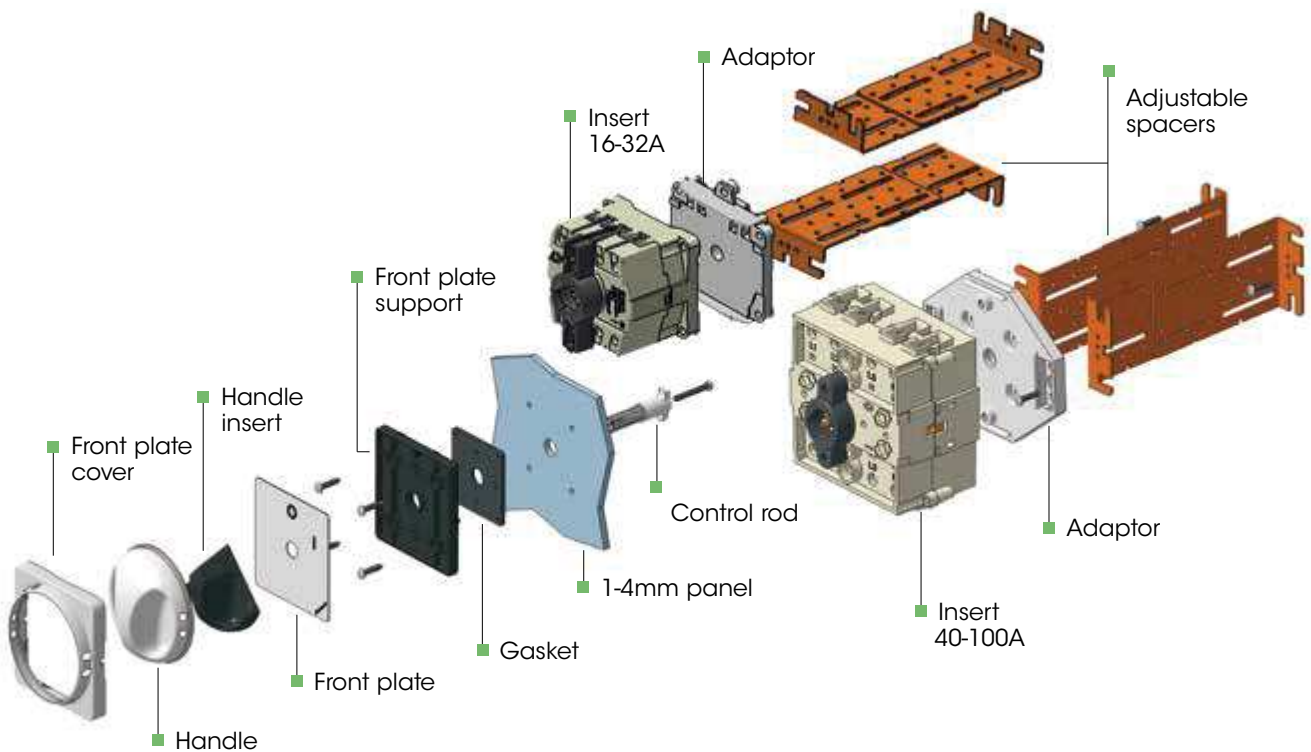




**FOR BASE-MOUNTING 16-32A / 40-100A WITH ROD KIT**



**FOR BASE-MOUNTING 16-32A / 40-100A WITH SPACER**





# CAM-ST



**GOOD DESIGN**  
INTERNATIONAL AWARD



## Recognisable

Thanks to the transparent lenticular handle.



## Total safety

Thanks to the possibility to padlock the handle and prevent undesired operations.



## Customisable

Schemes and front plates customisable by Palazzoli's Technical Service.



The CAM-ST series comprises multi-diagram cam switches for back panel-mounting and base-mounting, for universal applications, in self-extinguishing thermoplastic material.

The special transparent lenticular handle, winner of two industrial design awards, highlights the state of the switch and gives the distribution board a professional and modern look.

The use of CAM-ST switches is recommended for all industrial distribution board applications.

Compliance with standards	<b>IEC EN 60947-3</b>
Material	<b>Reinforced thermoplastic</b>
Protection rating (IP according to IEC/EN 60529)	<b>IP65 (handle) IP20 (terminals)</b>
Resistance to abnormal heat and fire ("Glow Wire" according to IEC/EN 60695-2-10)	<b>960°C</b>
Impact resistance (IK grade according to IEC/EN 62262)	<b>IK08</b>
Flammability rating (according to UL94)	<b>V0</b>
Rated current	<b>12A - 16A - 20A - 25A 32A - 40A - 63A</b>
Operating voltage	<b>50V - 500V</b>
Operating frequency	<b>50-60Hz</b>
Insulation voltage	<b>690V</b>
Padlockability	<b>0 - I (handle 67x67)</b>
Storage temperature	<b>-40°C - +80°C</b>
Operating temperature	<b>-25°C - +60°C</b>



Rated operating current:		12A	16A	20A	25A	32A	40A	63A
Thermal current Ith	A	12	16	20	25	32	40	63
AC21A	415V	15	18	23	28	38	45	63
	500V	12	16	20	25	32	40	63
AC22A	415V	15	18	23	28	38	45	63
	500V	12	16	20	25	32	40	63
AC23A	230V	10	14	18	20	38	45	63
	400V	10	14	18	20	32	40	63
	500V	6	10	12	16	32	40	63
AC23A	230V	3.5	4.5	5.5	6.5	6.5	8	12
	400V	5.5	8	10	11	10.5	13	22
	500V	4.5	7.5	9	11	19	24	32
AC3	230V	2.5	4	5.5	6	6.5	8	12
	400V	4.5	6.5	8	10	10.5	13	22
	500V	5	8	10	13	19	24	32

Wiring data:		12A	16A	20A	25A	32A	40A	63A
Entry cable sections	mm <sup>2</sup>	1,5 - 6			2,5 - 16			
Tightening torque	Nm	1.5			3			

**Resistance to chemical agents**

WATER	SALINE SOLUTION	ACIDS		BASES		SOLVENTS			
		CONCENTRATED	DILUTED	CONCENTRATED	DILUTED	ALCOHOL	ACETONE	PERCHLORO-ETHYLENE	BENZENE
↑	→	↓	→	↑	↑	→	↑	↑	↑
OILS		FATS		AMMONIA	OXIDISERS	INORGANIC SALTS	GASOLINE	DETERGENTS	U.V. RAYS
MINERAL	VEGETABLE	ANIMAL	SYNTHETIC						
↑	↑	↑	↑	↑	↓	↑	↑	→	↑

Legend: ↑ high resistance    → partial resistance    ↓ low resistance



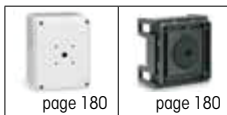
**Switches** with grey front plate  
for back panel-mounting  
**IP65**



Rated current (A)	Poles	CAM scheme	Depth (mm)	Palazzoli code 48x48	Palazzoli code 67x67	Pack Qty
12	1	1	33	<b>210121</b>	<b>211121</b>	1
	2	2	33	<b>210122</b>	<b>211122</b>	1
	3	3	46	<b>210123</b>	<b>211123</b>	1
	4	4	46	<b>210124</b>	<b>211124</b>	1
	5	5	59	<b>210125</b>	<b>211125</b>	1
	6	6	59	<b>210126</b>	<b>211126</b>	1
16	1	1	33	<b>210161</b>	<b>211161</b>	1
	2	2	33	<b>210162</b>	<b>211162</b>	1
	3	3	46	<b>210163</b>	<b>211163</b>	1
	4	4	46	<b>210164</b>	<b>211164</b>	1
	5	5	59	<b>210165</b>	<b>211165</b>	1
	6	6	59	<b>210166</b>	<b>211166</b>	1
20	1	1	33	<b>210201</b>	<b>211201</b>	1
	2	2	33	<b>210202</b>	<b>211202</b>	1
	3	3	46	<b>210203</b>	<b>211203</b>	1
	4	4	46	<b>210204</b>	<b>211204</b>	1
	5	5	59	<b>210205</b>	<b>211205</b>	1
	6	6	59	<b>210206</b>	<b>211206</b>	1
25	1	1	33	<b>210251</b>	<b>211251</b>	1
	2	2	33	<b>210252</b>	<b>211252</b>	1
	3	3	46	<b>210253</b>	<b>211253</b>	1
	4	4	46	<b>210254</b>	<b>211254</b>	1
	5	5	59	<b>210255</b>	<b>211255</b>	1
	6	6	59	<b>210256</b>	<b>211256</b>	1
32	1	1	43		<b>212321</b>	1
	2	2	60		<b>212322</b>	1
	3	3	77		<b>212323</b>	1
	4	4	94		<b>212324</b>	1
40	1	1	43		<b>212401</b>	1
	2	2	60		<b>212402</b>	1
	3	3	77		<b>212403</b>	1
	4	4	94		<b>212404</b>	1
63	1	1	43		<b>212631</b>	1
	2	2	60		<b>212632</b>	1
	3	3	77		<b>212633</b>	1
	4	4	94		<b>212634</b>	1

Features: the 67x67 handles are padlockable in positions 0 and I.

Technical accessories:



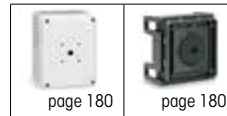
**Switches** with padlockable  
yellow front plate  
for back panel-mounting  
**IP65**



Rated current (A)	Poles	CAM scheme	Depth (mm)	Palazzoli code 67x67	Pack Qty
12	3	3	46	<b>214123</b>	1
	4	4	46	<b>214124</b>	1
16	3	3	46	<b>214163</b>	1
	4	4	46	<b>214164</b>	1
20	3	3	46	<b>214203</b>	1
	4	4	46	<b>214204</b>	1
25	3	3	46	<b>214253</b>	1
	4	4	46	<b>214254</b>	1
32	3	3	60	<b>214323</b>	1
	4	4	60	<b>214324</b>	1
40	3	3	60	<b>214403</b>	1
	4	4	60	<b>214404</b>	1
63	3	3	60	<b>214633</b>	1
	4	4	60	<b>214634</b>	1

Features: the handles are padlockable in positions 0.

Technical accessories:

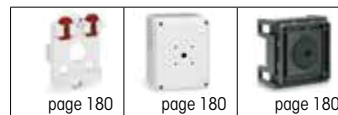


**Two-way switches**  
with grey front plate  
for back panel-mounting  
**IP65**



Rated current (A)	Poles	CAM scheme	Depth (mm)	Palazzoli code 48x48	Palazzoli code 67x67	Pack Qty
12	1	10.1	33	<b>236121</b>	<b>237121</b>	1
	2	10.2	46	<b>236122</b>	<b>237122</b>	1
	3	10.3	59	<b>236123</b>	<b>237123</b>	1
16	1	10.1	33	<b>236161</b>	<b>237161</b>	1
	2	10.2	46	<b>236162</b>	<b>237162</b>	1
	3	10.3	59	<b>236163</b>	<b>237163</b>	1
20	1	10.1	33	<b>236201</b>	<b>237201</b>	1
	2	10.2	46	<b>236202</b>	<b>237202</b>	1
	3	10.3	59	<b>236203</b>	<b>237203</b>	1
25	1	10.1	33	<b>236251</b>	<b>237251</b>	1
	2	10.2	46	<b>236252</b>	<b>237252</b>	1
	3	10.3	59	<b>236253</b>	<b>237253</b>	1

Technical accessories:



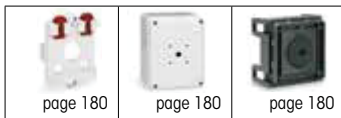


**Line selector switches**  
with grey front plate  
for back panel-mounting  
**IP65**



Rated current (A)	Poles	CAM scheme	Depth (mm)	Palazzoli code 48x48	Palazzoli code 67x67	Pack Qty
12	1	7	33	<b>215121</b>	<b>216121</b>	1
	2	8	46	<b>215122</b>	<b>216122</b>	1
	3	9	59	<b>215123</b>	<b>216123</b>	1
	4	10	72	<b>215124</b>	<b>216124</b>	1
16	1	7	33	<b>215161</b>	<b>216161</b>	1
	2	8	46	<b>215162</b>	<b>216162</b>	1
	3	9	59	<b>215163</b>	<b>216163</b>	1
	4	10	72	<b>215164</b>	<b>216164</b>	1
20	1	7	33	<b>215201</b>	<b>216201</b>	1
	2	8	46	<b>215202</b>	<b>216202</b>	1
	3	9	59	<b>215203</b>	<b>216203</b>	1
	4	10	72	<b>215204</b>	<b>216204</b>	1
25	1	7	33	<b>215251</b>	<b>216251</b>	1
	2	8	46	<b>215252</b>	<b>216252</b>	1
	3	9	59	<b>215253</b>	<b>216253</b>	1
	4	10	72	<b>215254</b>	<b>216254</b>	1
32	1	7	43		<b>217321</b>	1
	2	8	60		<b>217322</b>	1
	3	9	77		<b>217323</b>	1
	4	10	94		<b>217324</b>	1
40	1	7	43		<b>217401</b>	1
	2	8	60		<b>217402</b>	1
	3	9	77		<b>217403</b>	1
	4	10	94		<b>217404</b>	1
63	1	7	43		<b>217631</b>	1
	2	8	60		<b>217632</b>	1
	3	9	77		<b>217633</b>	1
	4	10	94		<b>217634</b>	1

**Technical accessories:**



**Three-pole reversing switches**  
with grey front plate for back  
panel-mounting  
**IP65**



Rated current (A)	CAM scheme	Depth (mm)	Palazzoli code 48x48	Palazzoli code 67x67	Pack Qty
12	12	59	<b>221123</b>	<b>222123</b>	1
16	12	59	<b>221163</b>	<b>222163</b>	1
20	12	59	<b>221203</b>	<b>222203</b>	1
25	12	59	<b>221253</b>	<b>222253</b>	1
32	12	77		<b>223323</b>	1
40	12	77		<b>223403</b>	1
63	12	77		<b>223633</b>	1



**Dahlander pole selector switches**  
with grey front plate  
for back panel-mounting  
**IP65**



Rated current (A)	CAM scheme	Depth (mm)	Palazzoli code 48x48	Palazzoli code 67x67	Pack Qty
12	66	72	<b>381123</b>	<b>382123</b>	1
16	66	72	<b>381163</b>	<b>382163</b>	1
20	66	72	<b>381203</b>	<b>382203</b>	1
25	66	72	<b>381253</b>	<b>382253</b>	1

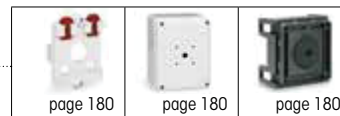


**Star-delta starters**  
with grey front plate  
for back panel-mounting  
**IP65**



Rated current (A)	CAM scheme	Depth (mm)	Palazzoli code 48x48	Palazzoli code 67x67	Pack Qty
12	13	72	<b>218123</b>	<b>219123</b>	1
16	13	72	<b>218163</b>	<b>219163</b>	1
20	13	72	<b>218203</b>	<b>219203</b>	1
25	13	72	<b>218253</b>	<b>219253</b>	1
32	13	94		<b>220323</b>	1
40	13	94		<b>220403</b>	1
63	13	94		<b>220633</b>	1

**Technical accessories:**





**Adaptor** for mounting 12A to 25A **devices with screws** on a 22mm Ø hole

Front plate dimensions (mm)	Colour	Palazzoli code	Pack Qty
48x48	black	<b>270237</b>	1
67x67	black	<b>270239</b>	1
	yellow / red	<b>270240</b>	1



**Wall-mounted box** in technopolymer suitable for **panel-mounted devices IP65**

Outer dimensions (mm)	Available depth (mm)	Palazzoli code	Pack Qty
121x158x107	90	<b>270247</b>	1



**Universal wall-mounted box** in technopolymer **IP65**

Outer dimensions (mm)	Available depth (mm)	Palazzoli code	Pack Qty
121x158x107	90	<b>270248</b>	1



**Adaptor** for mounting on a back panel or on DIN rail

Rated current (A)	Width (mm)	Palazzoli code	Pack Qty
12-25	54	<b>270236</b>	1
32-63	78	<b>270243</b>	1



**Extension shafts** in aluminium alloy for panel-mounted devices

Rated current (A)	Board diameter (mm)	Width (mm)	Palazzoli code	Pack Qty
12-25	6	225	<b>271225</b>	1
	6	350	<b>271350</b>	1
	6	500	<b>271500</b>	1
32-63	6	225	<b>274225</b>	1
	6	350	<b>274350</b>	1
	6	500	<b>274500</b>	1

**REQUEST FOR SPECIAL PRODUCTS**

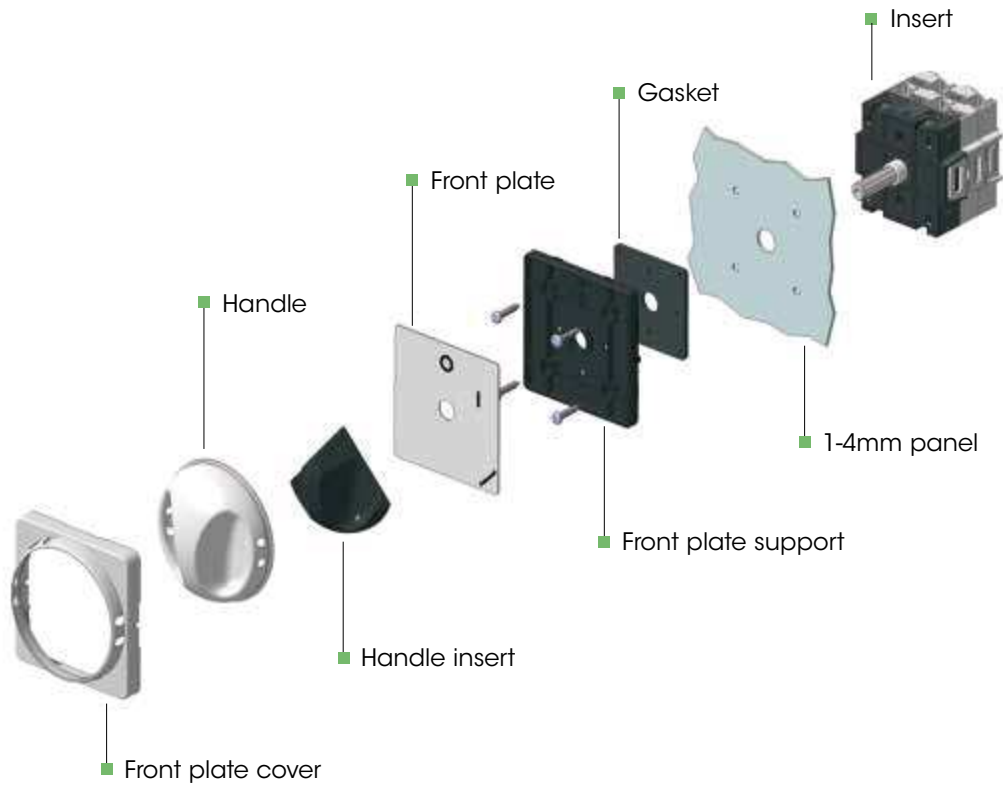


**Schemes** customisable by Palazzoli's Technical Service using the specific form available on page 385

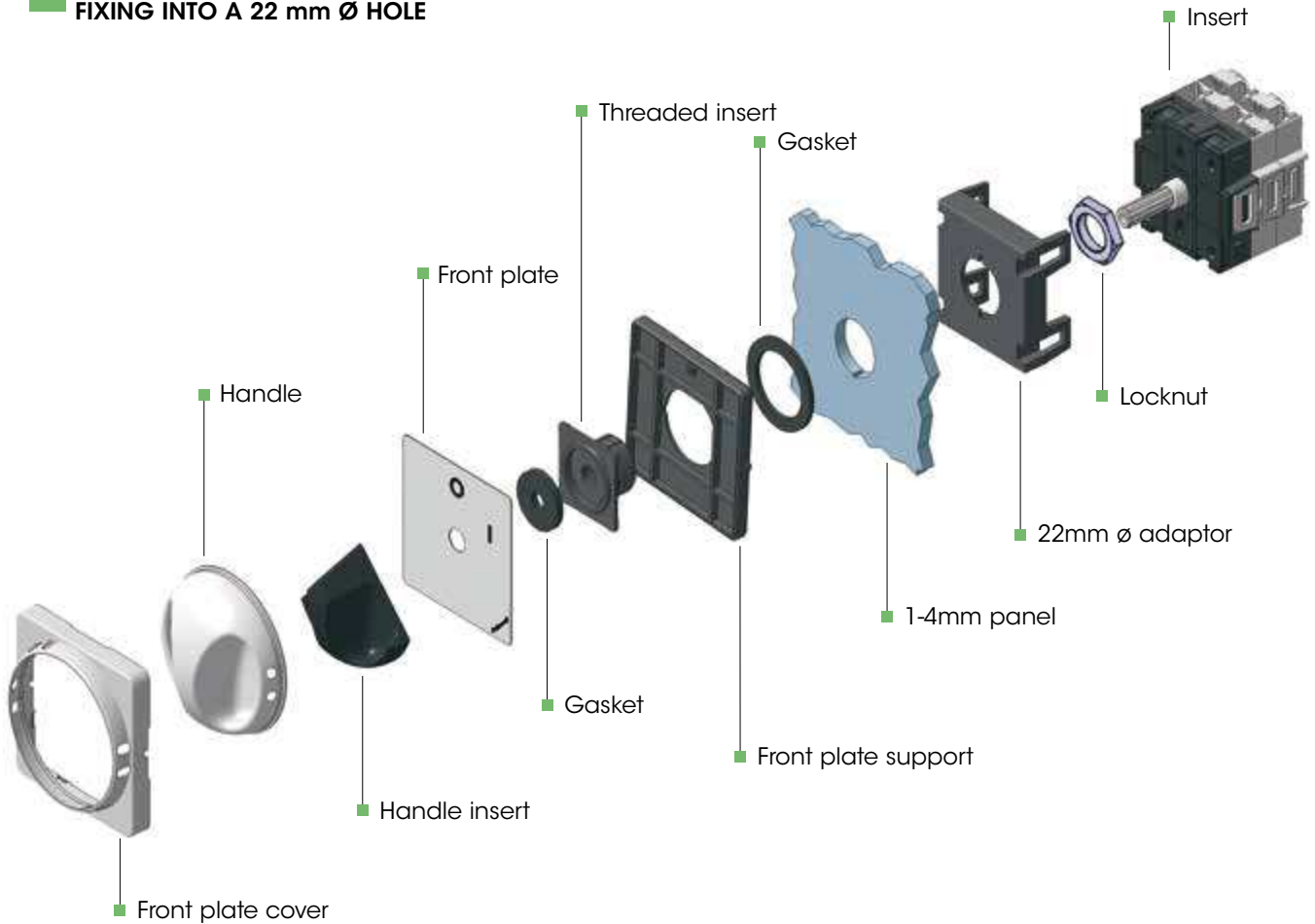




12-63A BACK PANEL  
FIXING WITH SCREWS



12-25A BACK PANEL  
FIXING INTO A 22 mm Ø HOLE





Compliance with standards	<b>IEC/EN 60947-3</b>
Material	<b>Palazzoli thermosetting GRP</b>
Protection rating (IP according to IEC/EN 60529)	<b>IP65 - IP67</b>
Colour	<b>RAL5015 (cover) RAL7042 (base)</b>
Resistance to abnormal heat and fire ("Glow wire" according to IEC/EN 60695-2-10)	<b>960°C</b>
Flammability rating (according to UL94)	<b>VO</b>
Impact resistance (IK rating according to IEC/EN 62262)	<b>IK10</b>
Operating voltage	<b>50V - 500V</b>
Insulation class	<b>II □</b>
Storage temperature	<b>-50°C - +80°C</b>
Operating temperature	<b>-25°C - +60°C</b>



**Rated operating current:**

		16A	25A	40A	63A	100A	200A
<b>Thermal current I<sub>th</sub></b>	<b>A</b>	<b>16</b>	<b>25</b>	<b>40</b>	<b>63</b>	<b>100</b>	<b>200</b>
AC21A	415V	A	16	25	40	63	100
	500V						
AC22A	415V	A	16	25	40	63	100
	500V						
AC23A	230V	A	16	25	40	63	100
	400V						
	500V						
AC23A	230V	kW	4.5	7	11	20	32
	400V		7.5	12	19	34	55
	500V		8.5	14	23	44	69
AC3	230V	kW	4.5	7	11	18	25
	400V		7.5	12	19	31	44
	500V		8.5	14	23	40	55

**Wiring data:**

		16A	25A	40A	63A	100A	200A
Entry cable sections	mm <sup>2</sup>	1-10	4-10	6-16	10-25	16-70	
Tightening torque	Nm	2			3		

**Chemical resistance chart on page 393**



**Isolator switches**  
in thermosetting GRP  
with metric hole entries  
for wall-mounting  
**50-60Hz IP67**



Rated current (A)	Poles	CAM scheme	Enclosure dimensions (mm)	Hole type	Palazzoli code	Pack Qty
16	2	2	92x125	M25	<b>292101</b>	1
	3	3	92x125	M25	<b>292102</b>	1
	4	4	92x125	M25	<b>292103</b>	1
25	2	2	92x125	M25	<b>292201</b>	1
	3	3	92x125	M25	<b>292202</b>	1
	4	4	92x125	M25	<b>292203</b>	1
40	2	2	125x185	M32	<b>292301</b>	1
	3	3	125x185	M32	<b>292302</b>	1
	4	4	125x185	M32	<b>292303</b>	1
63	2	2	125x185	M32	<b>292411</b>	1
	3	3	125x185	M32	<b>292412</b>	1
	4	4	125x185	M32	<b>292413</b>	1

**Equipment included:** 1 screwcap with metric pitch thread.

**Features:** the handle can be padlocked.



**Isolator switches**  
in thermosetting GRP  
with windowed walls  
for wall-mounting  
**50-60Hz IP65**



Rated current (A)	Poles	CAM scheme	Enclosure dimensions (mm)	Window type	Palazzoli code	Pack Qty
100	4	4	185x250	a	<b>292503</b>	1
	4	4	185x250	b	<b>292603</b>	1
200	4	4	250x250	c	<b>292623</b>	1
	4	4	370x500	d	<b>292703*</b>	1
600	4	4	370x500	e	<b>292733*</b>	1

**Features:** padlockable handle, walls with free windows.

\*Isolator switch only.



**Isolator switches**  
in thermosetting GRP  
with **fuse-holder base**  
for wall-mounting  
50-60Hz **IP67**



Rated current (A)	Poles	CAM scheme	Enclosure dimensions (mm)	Hole type	Palazzoli code	Pack Qty
16 fuses E16 NDZ	3	3	92x240	M25	<b>290163</b>	1
	4	4	92x240	M25	<b>290164</b>	1
25 fuses E16 NDZ	2	2	92x240	M25	<b>290521</b>	1
	3	3	92x240	M25	<b>290522</b>	1
	4	4	92x240	M25	<b>290523</b>	1
32 fuses E16 NDZ	3	3	92x240	M25	<b>290323</b>	1
	4	4	92x240	M25	<b>290324</b>	1
40 fuses DIII E33	2	2	125x335	M32	<b>290641</b>	1
	3	3	125x335	M32	<b>290642</b>	1
	4	4	125x335	M32	<b>290643</b>	1
63 fuses DIII E33	3	3	125x335	M32	<b>290762</b>	1
	4	4	125x335	M32	<b>290763</b>	1

**Equipment included:** 1 screwcap with metric pitch thread.  
**Features:** the handle can be padlocked. Fuses not included.

**Technical accessories:**



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**Isolator switches**  
in thermosetting GRP  
with windowed walls  
and **fuse holder base**  
for wall-mounting  
50-60Hz **IP65**



Rated current (A)	Poles	CAM scheme	Enclosure dimensions (mm)	Window type	Palazzoli code	Pack Qty
100 fuses ACR GR 00	4	4	250x370	b	<b>293053</b>	1
200 fuses ACR GR 1	4	4	370x500	c	<b>293063</b>	1
250 fuses ACR GR 1	4	4	370x500	c	<b>293263</b>	1

**Equipment included:** internal earth terminal. Walls with free windows with gaskets and screws. Flanges not included.

**Features:** padlockable handle. Fuses not included.

**Technical accessories:**



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**Flat blind flanges**  
in thermosetting GRP  
for windowed walls  
**IP67**

Type	Window dimensions	Flange height (mm)	Palazzoli code	Pack Qty
a	110x60	15	<b>538110</b>	2
b	175x60	15	<b>538210</b>	2
c	295x60	15	<b>538310</b>	1



**Blind flanges, raised**  
in thermosetting GRP  
for windowed walls  
**IP67**

Type	Window dimensions	Flange height (mm)	Palazzoli code	Pack Qty
a	110x60	45	<b>538130</b>	2
b	175x60	45	<b>538230</b>	2
c	295x60	45	<b>538330</b>	1



Compliance with standards	<b>IEC/EN 60947-3</b> <b>IEC/EN 60947-5-1</b>
Material	<b>Aluminium alloy</b>
Protection rating (IP according to IEC/EN 60529)	<b>IP55 - IP66/IP67</b>
Colour	<b>RAL5012 (cover)</b> <b>RAL7035 (base)</b>
Impact resistance (IK rating according to IEC/EN 62262)	<b>IK10</b>
Operating voltage	<b>50V - 500V</b>
Insulation class	<b>I</b>
Storage temperature	<b>-50°C - +80°C</b>
Operating temperature	<b>-25°C - +60°C</b>



**Rated operating current:**

		16A	25A	40A	63A	100A	200A
<b>Thermal current I<sub>th</sub></b>	<b>A</b>	<b>16</b>	<b>25</b>	<b>40</b>	<b>63</b>	<b>100</b>	<b>200</b>
AC21A	415V	A	16	25	40	63	100
	500V						
AC22A	415V	A	16	25	40	63	100
	500V						
AC23A	230V	A	16	25	40	63	100
	400V						
	500V						
AC23A	230V	kW	4.5	7	11	20	32
	400V		7.5	12	19	34	55
	500V		10	14	23	44	69
AC3	230V	kW	4.5	7	11	18	25
	400V		7.5	12	19	31	44
	500V		10	14	23	40	55

**Wiring data:**

		16A	25A	40A	63A	100A	200A
Entry cable sections	mm <sup>2</sup>	1-4	1.5-6	4-10	6-16	10-25	16-70
Tightening torque	Nm	1.5		2		3	

Chemical resistance chart on page 393



**Isolator switches**  
in aluminium alloy  
with windowed walls  
for wall-mounting  
50-60Hz **IP66/IP67**



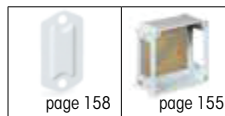
Rated current (A)	Poles	CAM scheme	Enclosure dimensions (mm)	Window type	Palazzoli code	Pack Qty
16	2	2	92x92		<b>272141</b>	1
	3	3	92x92		<b>272142</b>	1
	4	4	92x92		<b>272143</b>	1
	6	6	92x125		<b>272144</b>	1
25	2	2	92x92		<b>272241</b>	1
	3	3	92x92		<b>272242</b>	1
	4	4	92x92		<b>272243</b>	1
	6	6	92x125		<b>272244</b>	1
40	2	2	125x125		<b>272301</b>	1
	3	3	125x125		<b>272302</b>	1
	4	4	125x125		<b>272303</b>	1
	6	6	125x185		<b>272304</b>	1
63	3	3	125x185		<b>282402</b>	1
	4	4	125x185		<b>282403</b>	1
	6	6	125x185		<b>282404</b>	1
	3	3	185x252		<b>272502*</b>	1
100	4	4	185x252		<b>272503*</b>	1
	4	4	220x315		<b>282603*</b>	1
400	4	4	315x315		<b>282703**</b>	1

**Equipment included:** internal and external earth terminal.

**Features:** the handle can be padlocked.

\*the protection rating is IP55. \*\*Isolator switch only and IP55 protection rating.

**Technical accessories:**



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**Selector switches**  
in aluminium alloy  
with windowed walls  
for wall-mounting  
50-60Hz **IP66/IP67**



Rated current (A)	Poles	CAM scheme	Enclosure dimensions (mm)	Window type	Palazzoli code	Pack Qty
16	3	9	92x125		<b>272146</b>	1
	4	10	92x125		<b>272147</b>	1
25	3	9	92x125		<b>272246</b>	1
	4	10	92x125		<b>272247</b>	1
40	3	9	125x185		<b>272306</b>	1
	4	10	125x185		<b>272307</b>	1
63	3	9	125x185		<b>282406</b>	1
	4	10	252x185		<b>282407*</b>	1
100	4	10	315x315		<b>272507*</b>	1
200	4	10	373x373		<b>282607*</b>	1

**Equipment included:** internal and external earth terminal.  
**Features:** the handle can be padlocked.  
\*the protection rating is IP55, handles with mechanical lever and bevel gear transmission.

**Technical accessories:**



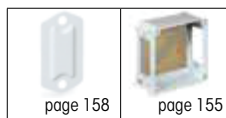
**Star-delta starters**  
in aluminium alloy  
with windowed walls  
for wall-mounting  
50-60Hz **IP66/IP67**



Rated current (A)	CAM scheme	Enclosure dimensions (mm)	Window type	Palazzoli code	Pack Qty
16	13	92x125		<b>272153</b>	1
25	13	92x125		<b>272253</b>	1
40	13	125x185		<b>272313</b>	1
63	13	252x185		<b>282413*</b>	1

**Equipment included:** internal and external earth terminal.  
**Features:** the handle can be padlocked.  
\*the protection rating is IP55, handles with mechanical lever and bevel gear transmission.

**Technical accessories:**







**Two-way switches**  
in aluminium alloy  
with windowed walls  
for wall-mounting  
50-60Hz **IP66/IP67**



Rated current (A)	Poles	CAM scheme	Enclosure dimensions (mm)	Window type	Palazzoli code	Pack Qty
16	1	10.1	92x92		<b>272148</b>	1

**Equipment included:** internal and external earth terminal.  
**Features:** the handle can be padlocked.



**Reversing switches**  
in aluminium alloy  
with windowed walls  
for wall-mounting  
50-60Hz **IP66/IP67**



Rated current (A)	CAM scheme	Enclosure dimensions (mm)	Window type	Palazzoli code	Pack Qty
16	38	92x92		<b>272178</b>	1

**Equipment included:** internal and external earth terminal.  
**Features:** the handle can be padlocked.

**Technical accessories:**



**Reversing switches**  
in aluminium alloy  
with windowed walls  
for three-phase motors  
for wall-mounting  
50-60Hz **IP66/IP67**



Rated current (A)	CAM scheme	Enclosure dimensions (mm)	Window type	Palazzoli code	Pack Qty
16	12	92x125		<b>272152</b>	1
25	12	92x125		<b>272252</b>	1
40	12	125x185		<b>272312</b>	1
63	12	125x185		<b>282412</b>	1

**Equipment included:** internal and external earth terminal.  
**Features:** the handle can be padlocked.



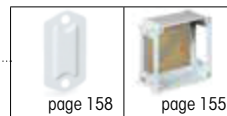
**Pole changing switches**  
in aluminium alloy  
with windowed walls  
for wall-mounting  
50-60Hz **IP66/IP67**



Rated current (A)	CAM scheme	Enclosure dimensions (mm)	Window type	Palazzoli code	Pack Qty
16	15	92x125		<b>272155</b>	1
25	15	92x125		<b>272255</b>	1

**Equipment included:** internal and external earth terminal.  
**Features:** the handle can be padlocked.

**Technical accessories:**





**Wall-mounted isolator switches** in aluminium alloy with windowed walls and fuse holder base 50-60Hz **IP67**



Rated current (A)	Poles	CAM scheme	Enclosure dimensions (mm)	Window type	Palazzoli code	Pack Qty
25 fuses E16 NDZ	2	2	92x185		<b>274302</b>	1
	3	3	92x185		<b>274303</b>	1
	4	4	92x185		<b>274304</b>	1

**Equipment included:** internal and external earth terminal.  
**Features:** the handle can be padlocked. Fuses not included.

**Technical accessories:**



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**Spacer unions** in aluminium alloy for windows **IP55**

For windows	Thickness (mm)	Palazzoli code	Pack Qty
F0	32	<b>547000</b>	1
F1	50	<b>547011</b>	5
F3	55	<b>547033</b>	1
F5	60	<b>547055</b>	1
F6	140	<b>547067</b>	1

**Uses:** it enables to add space between junction boxes and control devices, making wiring operations easier.



**Wall-mounted isolator switches** in aluminium alloy with windowed walls and fuse holder base 50-60Hz **IP55**



Rated current (A)	Poles	CAM scheme	Enclosure dimensions (mm)	Window type	Palazzoli code	Pack Qty
40 fuses DIII E33	2	2	125x252		<b>274031</b>	1
	3	3	125x252		<b>274032</b>	1
	4	4	125x252		<b>274033</b>	1
63 fuses DIII E33	3	3	125x252		<b>284042</b>	1
	4	4	125x252		<b>284043</b>	1
100 fuses ACR GR 00	4	4	185x373		<b>283053</b>	1
200 fuses ACR GR 1	4	4	220x507		<b>283063</b>	1
400 fuses ACR GR 2	4	4	315x630		<b>283073*</b>	1
600 fuses ACR GR 3	3	3	373x630		<b>283082*</b>	1

**Equipment included:** internal and external earth terminal. Walls with free windows with gaskets and screws. Flanges not included.

**Features:** the handle can be padlocked. Fuses not included.

\*handles with mechanical lever and bevel gear transmission. Isolator switch only.

**Technical accessories:**



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# CAM - F400



## Unlimited resistance

The aluminium alloy housing, flame and smoke resistant, guarantees continuity of service even in fire conditions, 400°C for 120'.



## Safe and durable

The ability to withstand the heaviest loads is entrusted to the interlock isolator switch of the AC3-AC23A category.



## Recognisable

The highly visible handle shows the status of the switch even at distance. Padlockable in position 0 and I.



The CAM - F400 series consists of 16A to 125A aluminium alloy isolator switches.  
CAM - F400 is designed to ensure operational stability at 400°C for 120 minutes according to EN 12101-3 standard. The devices can be used to isolate fans and parts of the system that require operational continuity even in case of fire.  
CAM - F400 is used in shopping centres, warehouses, underground car parks, tunnels, airports, hospitals, theatres, schools and buildings.



**Isolator switches**  
in aluminium alloy  
with windowed walls  
fire resistant (**F400 class**)  
for wall-mounting  
50-60Hz **IP66/IP67 400°C 120'**

Compliance with standards	<b>IEC/EN 60947-3 EN 12101-3</b>
EN 12101-3 classification	<b>F400 (400°C for 120')</b>
Material	<b>Aluminium alloy</b>
Protection rating (IP according to IEC/EN 60529)	<b>IP66/IP67 (16A-63A) IP55 (125A)</b>
Colour	<b>RAL 3020 (cover) RAL 7035 (base)</b>
Impact resistance (IK grade according to IEC/EN 62262)	<b>IK10</b>
Operating voltage	<b>500V</b>
Insulation class	<b>I</b>
Operating temperature	<b>-25°C - +70°C</b>



Rated operating current:		16A	25A	40A	63A	125A	
<b>Thermal current Ith</b>	<b>A</b>	<b>16</b>	<b>25</b>	<b>40</b>	<b>63</b>	<b>125</b>	
AC21A	415V	A	16	25	40	63	125
	500V						
AC22A	415V	A	16	25	40	63	125
	500V						
AC23A	230V	A	16	25	40	63	100
	400V						
	500V						
AC23A	230V	kW	4.5	7	11	20	32
	400V		7.5	12	19	34	55
	500V		10	14	23	44	69
AC3	230V	kW	4.5	7	11	18	25
	400V		7.5	12	19	31	44
	500V		10	14	23	40	55

Wiring data:		16A	25A	40A	63A	125A
Entry cable sections	mm <sup>2</sup>	1-4	1.5-6	4-10	6-16	16-70
Tightening torque	Nm	1.5		2	3	

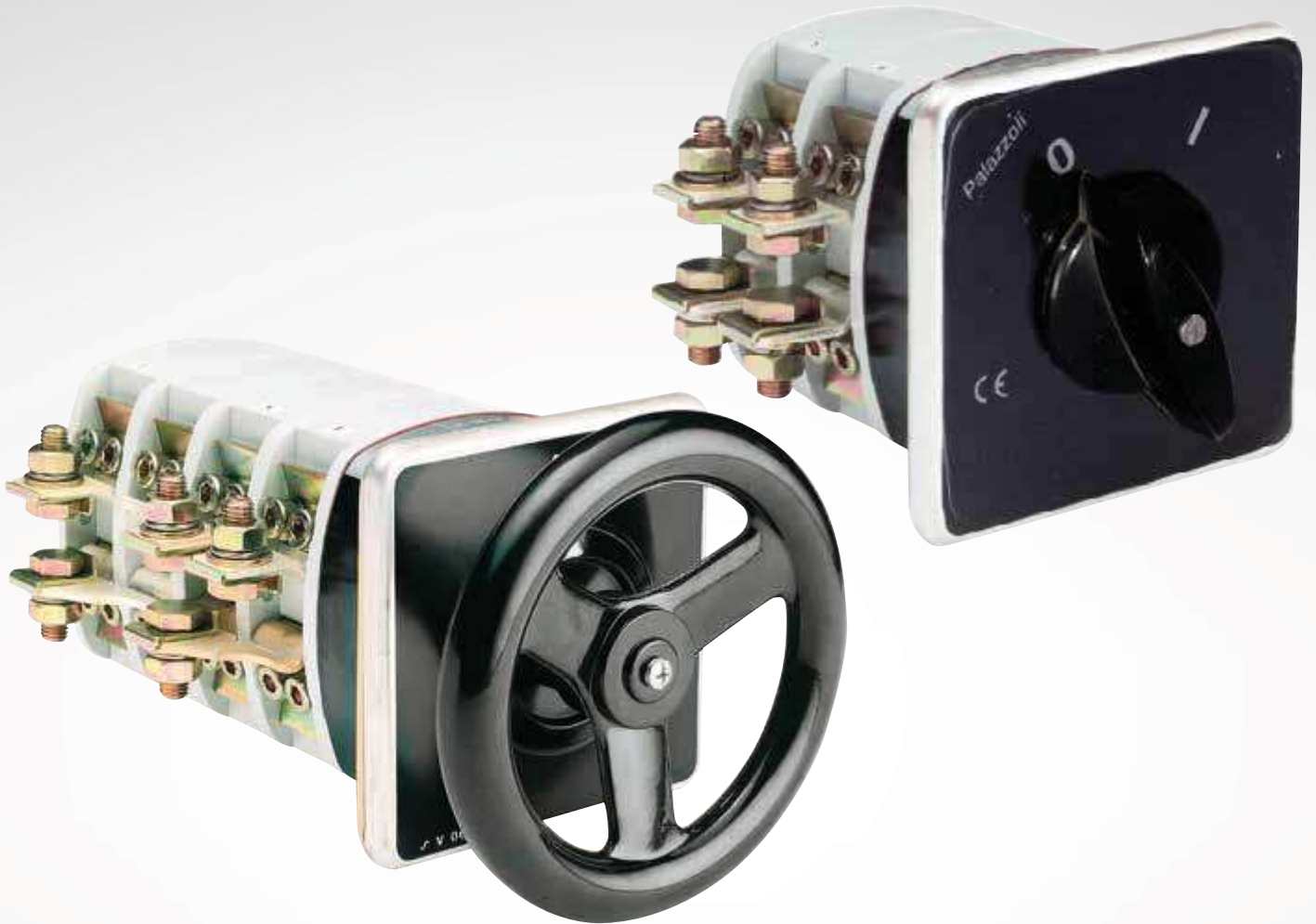
Rated current (A)	Poles	CAM scheme	Enclosure dimensions (mm)	Window type	Palazzoli code	Pack Qty
16	3	3	92x92		<b>152130</b>	1
	4	4	92x92		<b>152140</b>	1
	6	6	92x125		<b>152160</b>	1
25	3	3	92x92		<b>152230</b>	1
	4	4	92x92		<b>152240</b>	1
	6	6	92x125		<b>152260</b>	1
40	3	3	125x125		<b>152330</b>	1
	4	4	125x125		<b>152340</b>	1
	6	6	125x185		<b>152360</b>	1
63	3	3	125x185		<b>152430</b>	1
	4	4	125x185		<b>152440</b>	1
	6	6	125x185		<b>152460</b>	1
125	3	3	220x315		<b>152530*</b>	1
	4	4	220x315		<b>152540*</b>	1

**Equipment included:** internal and external earth terminal.  
**Features:** padlockable handle. Flanges not included.  
\*the protection rating is IP55.

**Technical accessories:**



# CAM



## High performance

Thanks to double-break silver alloy contacts.



## Simultaneous control

Thanks to the control shafts in single piece with through bar.



## Absolute safety

Thanks to the contact holder discs in thermosetting GRP.





The CAM series offers a complete range of high-performance devices with watertight cover and cam control, for AC networks with currents from 16A to 1200A.

Designed for the control of motors, light/signalling circuits and resistance devices, the series is ideal for applications that require non-stop operation for long periods of time even in heavy-duty conditions.

Compliance with standards	<b>IEC EN 60947-3</b>
Material	<b>Palazzoli thermosetting GRP</b>
Protection rating (IP according to IEC/EN 60529)	<b>IP65 (handle) IP00 (terminals)</b>
Resistance to abnormal heat and fire ("Glow Wire" according to IEC/EN 60695-2-10)	<b>960°C</b>
Impact resistance (IK grade according to IEC/EN 62262)	<b>IK08</b>
Flammability rating (according to UL94)	<b>V0</b>
Rated current	<b>16A - 25A - 40A - 63A - 100A 200A - 400A - 600A - 800A - 1200A</b>
Operating voltage	<b>50V - 500V</b>
Operating frequency	<b>50-60Hz</b>
Insulation voltage	<b>690V</b>
Storage temperature	<b>-40°C - +80°C</b>
Operating temperature	<b>-25°C - +60°C</b>



Rated operating current:		16A	25A	40A	63A	100A	200A	
Thermal current Ith	A	16	25	40	63	100	200	
AC21A	415V	A	16	25	40	63	100	200
	500V							
AC22A	415V	A	16	25	40	63	100	200
	500V							
AC23A	230V	A	16	25	40	63	100	200
	400V							
	500V							
AC23A	230V	kW	4.5	7	11	20	26	30
	400V		7.5	12	19	34	45	52
	500V		10	14	23	44	58	64
AC3	230V	kW	4.5	7	11	18	26	30
	400V		7.5	12	19	31	45	52
	500V		10	14	23	40	58	64

Wiring data:		16A	25A	40A	63A	100A	200A
Entry cable sections	mm <sup>2</sup>	1-4	1.5-6	4-10	6-16	10-25	16-70
Tightening torque	Nm	1.5		2		3	

**Resistance to chemical agents**

WATER	SALINE SOLUTION	ACIDS		BASES		SOLVENTS			
		CONCENTRATED	DILUTED	CONCENTRATED	DILUTED	ALCOHOL	ACETONE	PERCHLORO-ETHYLENE	BENZENE
↑	↑	→	↑	↑	↑	↑	↑	↑	↑
OILS		FATS		AMMONIA	OXIDISERS	INORGANIC SALTS	GASOLINE	DETERGENTS	U.V. RAYS
MINERAL	VEGETABLE	ANIMAL	SYNTHETIC						
↑	↑	↑	↑	↑	↑	↑	↑	↑	↑

Legend: ↑ high resistance → partial resistance

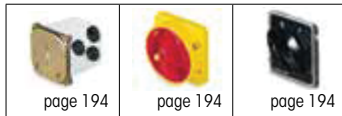


**Isolator switches** with black anodised aluminium front plate for distribution boards **IP65**



Rated current (A)	Poles	CAM scheme	Depth (mm)	Front plate dimensions (mm)	Palazzoli code	Pack Qty
16	1	1	52	64x64	<b>276600</b>	1
	2	2	52	64x64	<b>276601</b>	5
	3	3	67	64x64	<b>276602</b>	5
	4	4	67	64x64	<b>276603</b>	5
25	2	2	52	64x64	<b>276701</b>	1
	3	3	68	64x64	<b>276702</b>	5
	4	4	68	64x64	<b>276703</b>	5
40	2	2	74	94x94	<b>276801</b>	1
	3	3	92	94x94	<b>276802</b>	1
	4	4	92	94x94	<b>276803</b>	1
63	3	3	108	94x94	<b>286902</b>	1
	4	4	108	94x94	<b>286903</b>	5
100	4	4	133	134x134	<b>276503</b>	1
200	4	4	145	134x134	<b>286603</b>	1

**Technical accessories:**

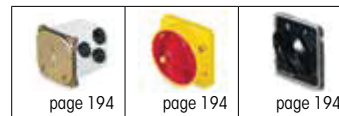


**Selector switches** with black anodised aluminium front plate for distribution boards **IP65**



Rated current (A)	Poles	CAM scheme	Depth (mm)	Front plate dimensions (mm)	Palazzoli code	Pack Qty
16	1	7	52	64x64	<b>276604</b>	1
	2	8	67	64x64	<b>276605</b>	1
	3	9	83	64x64	<b>276606</b>	5
	4	10	98	64x64	<b>276607</b>	1
25	2	8	68	64x64	<b>276705</b>	1
	3	9	84	64x64	<b>276706</b>	1
	4	10	100	64x64	<b>276707</b>	1
	2	8	92	94x94	<b>276805</b>	1
40	3	9	110	94x94	<b>276806</b>	1
	4	10	128	94x94	<b>276807</b>	1
63	3	9	134	94x94	<b>286906</b>	1
	4	10	159	94x94	<b>286907</b>	1
100	4	10	197	134x134	<b>276507</b>	1
200	4	10	221	134x134	<b>286607</b>	1

**Technical accessories:**



**Isolator switches** with black anodised aluminium front plate for distribution boards **IP65**



Rated current (A)	Poles	CAM scheme	Depth (mm)	Front plate dimensions (mm)	Palazzoli code	Pack Qty
400	4	4	221	134x134	<b>286703</b>	1
600	3	3	259	134x134	<b>286732</b>	1
800	3	3	297	134x134	<b>286762</b>	1
1200	3	3	411	134x134	<b>286782</b>	1



**Two-way switches** with black anodised aluminium front plate for distribution boards **IP65**



Rated current (A)	Poles	CAM scheme	Depth (mm)	Front plate dimensions (mm)	Palazzoli code	Pack Qty
16	1	10.1	52	64x64	<b>276608</b>	1
	2	10.2	67	64x64	<b>276609</b>	1
	3	10.3	83	64x64	<b>276610</b>	1
	4	11	98	64x64	<b>276611</b>	1

**Uses:** they can be fixed onto the hatch or in blind compartments (e.g. empty steel pillars).

**Technical accessories:**



**Star-delta starters** with black anodised aluminium front plate for distribution boards **IP65**



Rated current (A)	CAM scheme	Depth (mm)	Front plate dimensions (mm)	Palazzoli code	Pack Qty
16	13	98	64x64	<b>276613</b>	1
25	13	100	64x64	<b>276713</b>	1
40	13	128	99x99	<b>276813</b>	1
63	13	159	99x99	<b>286913</b>	1
100	13	197	134x134	<b>276513</b>	1

**Technical accessories:**



**Reversing switches** with black anodised aluminium front plate for distribution boards **IP65**



Rated current (A)	CAM scheme	Depth (mm)	Front plate dimensions (mm)	Palazzoli code	Pack Qty
16	12	83	64x64	<b>276612</b>	5
25	12	84	64x64	<b>276712</b>	5
40	12	110	99x99	<b>276812</b>	1
63	12	134	99x99	<b>286912</b>	1

**Technical accessories:**





**Transparent protection caps**  
for distribution boards  
**IP54**

For devices with depth (mm)	Palazzoli code	Pack Qty
52/67/68	<b>276910</b>	1
74/82/92	<b>276930</b>	1
79/83/84/95/96/98/100	<b>276911</b>	1
108/110/128/134	<b>276931</b>	1
114/116/130/132	<b>276912</b>	1
145/148/160/164	<b>276913</b>	1
159	<b>276932</b>	1

**Uses:** they have passages with stepped gland in non-ageing elastomer. They ensure IP54 rear protection.



**Black handles** with aluminium front plate and transparent protection for flush-mounting  
**IP54**

Front plate type	Rated current (A)	Flange dimensions (mm)	Palazzoli code	Pack Qty
	16-25	67x67	<b>292116</b>	1
	40-63	99x99	<b>292316</b>	1
	16-25	67x67	<b>292136</b>	1
	40-63	99x99	<b>292336</b>	1
	16	67x67	<b>292146</b>	1
	16-25	67x67	<b>292156</b>	1
	40-63	99x99	<b>292356</b>	1



**Grey handles**  
padlockable with blue flange in thermoplastic material for distribution board or flush-mounting  
**IP54**

Front plate type	Rated current (A)	Flange dimensions (mm)	Palazzoli code	Pack Qty
	16-25	67x67	<b>292125</b>	10
	40-63	99x99	<b>292325</b>	1

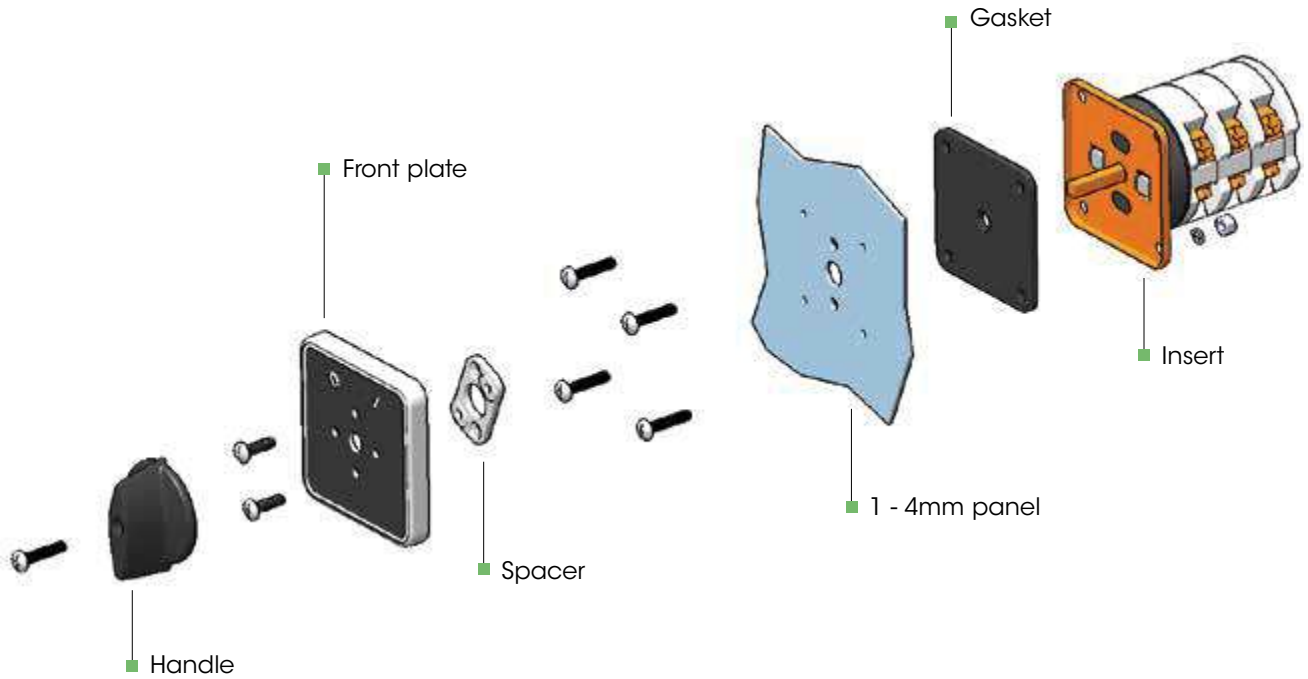


**Red handles** padlockable with yellow flange in thermoplastic material for distribution board or flush-mounting  
**IP54**

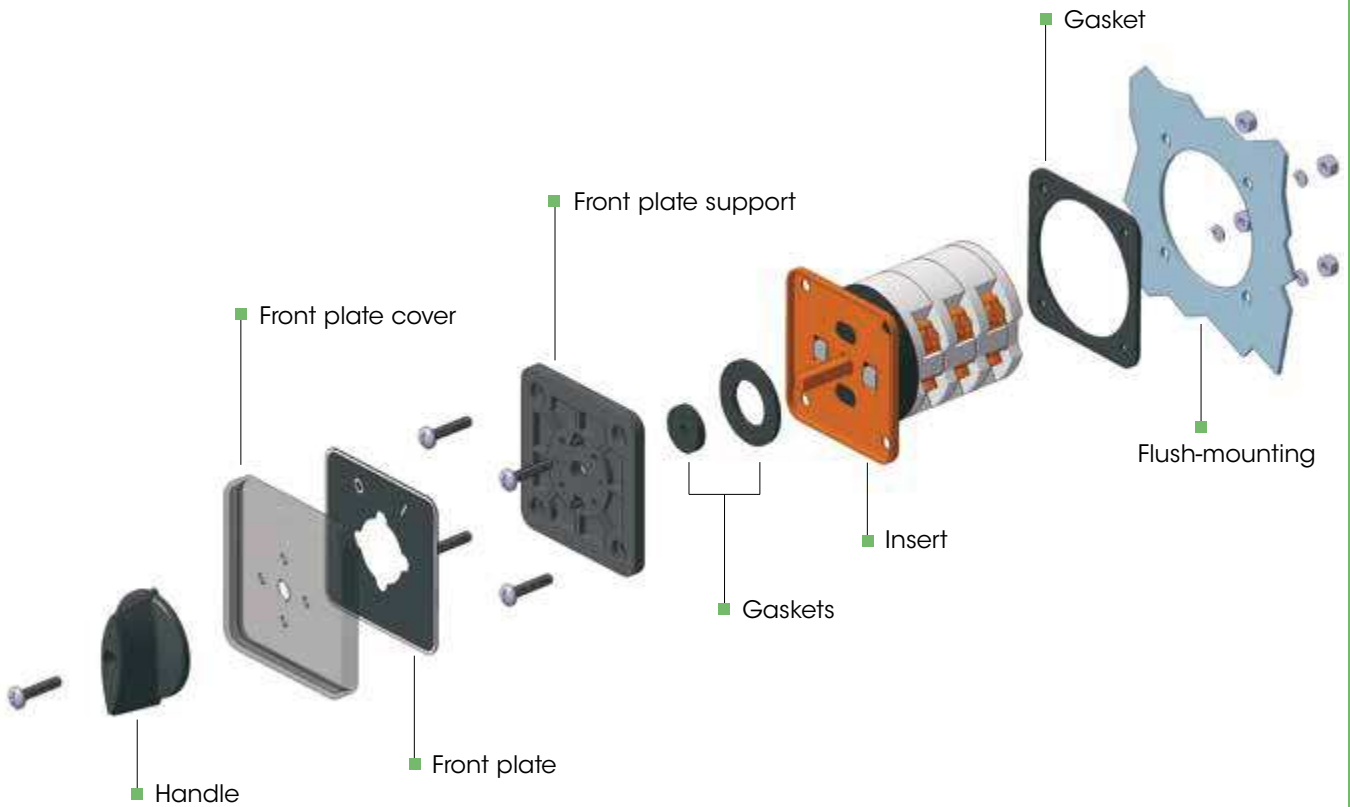
Front plate type	Rated current (A)	Flange dimensions (mm)	Palazzoli code	Pack Qty
	16-25	67x67	<b>292105</b>	10
	40-63	99x99	<b>292305</b>	1



**16-63A BACK PANEL  
FIXING WITH SCREWS**



**16-63A FLUSH-MOUNTED  
FIXING WITH SCREWS**







**Isolator switches** with door lock and protection cap for back panel-mounting



Rated current (A)	Poles	CAM scheme	Depth (mm)	Palazzoli code	Pack Qty
16	3	3	96	<b>275112</b>	10
	4	4	96	<b>275113</b>	10
25	3	3	97	<b>275212</b>	10
	4	4	97	<b>275213</b>	10
40	3	3	123	<b>275312</b>	5
	4	4	123	<b>275313</b>	5
63	3	3	140	<b>285412</b>	5
	4	4	140	<b>285413</b>	5

Technical accessories:



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**Isolator switches** with door lock and protection cap for back panel-mounting



Rated current (A)	Poles	CAM scheme	Depth (mm)	Palazzoli code	Pack Qty
100	3	3	183	<b>270512</b>	1
	4	4	183	<b>270513</b>	1
200	3	3	195	<b>280612</b>	1
	4	4	195	<b>280613</b>	1
400	3	3	233	<b>280712*</b>	1
	4	4	271	<b>280713*</b>	1

Features: \*isolator switch only.

Technical accessories:



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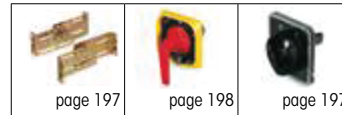


**Selector switches** with door lock and protection cap for back panel-mounting



Rated current (A)	Poles	CAM scheme	Depth (mm)	Palazzoli code	Pack Qty
16	3	9	112	<b>275116</b>	1
	4	10	128	<b>275117</b>	1
25	3	9	113	<b>275216</b>	1
	4	10	129	<b>275217</b>	1
40	3	9	141	<b>275316</b>	1
	4	10	159	<b>275317</b>	1
63	3	9	166	<b>285416</b>	1
	4	10	191	<b>285417</b>	1

Technical accessories:



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**Selector switches** with door lock and protection cap for back panel-mounting



Rated current (A)	Poles	CAM scheme	Depth (mm)	Palazzoli code	Pack Qty
100	4	10	247	<b>270517</b>	1
200	4	10	271	<b>280617</b>	1

Technical accessories:



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**Adjustable spacer** support kit in steel for fixing back panel-mounted devices

Min length (mm)	Max length (mm)	Palazzoli code	Pack Qty
97	168	<b>270900</b>	10

**Features:** suitable for 16A to 63A devices. It consists of 4 equal squares in galvanised steel with self-threading screws and washers.

**Uses:** it is used for fixing devices in the right position and height for correct coupling with the handle applied to the hatch.



**Black handles** with door lock and anodised aluminium front plate **IP54**

Front plate type	Rated current (A)	Flange dimensions (mm)	Palazzoli code	Pack Qty
	100	134x134	<b>270528</b>	1
	200	134x134	<b>270628</b>	2
	100	134x134	<b>270538</b>	1
	200	134x134	<b>270638</b>	1



**Black handles** with door lock and anodised aluminium front plate and polycarbonate protection **IP54**

Front plate type	Rated current (A)	Flange dimensions (mm)	Palazzoli code	Pack Qty
	16-25	67x67	<b>295117</b>	1
	40-63	99x99	<b>295157</b>	5
	16-25	67x67	<b>295137</b>	1
	40-63	99x99	<b>295177</b>	1



**Black handwheel** with door lock and anodised aluminium front plate **IP54**

Front plate type	Rated current (A)	Flange dimensions (mm)	Palazzoli code	Pack Qty
	400	134x134	<b>270728</b>	1



**Grey handles**  
in thermoplastic material  
padlockable  
and with door lock  
**IP66/IP67**

Front plate type	Rated current (A)	Flange dimensions (mm)	Palazzoli code	Pack Qty
	16-25	67x67	<b>295127</b>	1
	40-63	99x99	<b>295167</b>	1

**Features:** padlockable in all positions.



**Red handles**  
in thermoplastic material  
padlockable  
and with door lock  
**IP66/IP67**

Front plate type	Rated current (A)	Flange dimensions (mm)	Palazzoli code	Pack Qty
	16-25	67x67	<b>295107</b>	10
	40-63	99x99	<b>295147</b>	5

**Features:** padlockable in all positions.



**Grey handles**  
with anodised aluminium  
front plate padlockable  
and with door lock  
**IP66/IP67**

Front plate type	Rated current (A)	Flange dimensions (mm)	Palazzoli code	Pack Qty
	16-25	83x83	<b>295108</b>	10
	16-25	83x83	<b>295118</b>	1

**Features:** padlockable in all positions.



**Red handles**  
with anodised aluminium  
front plate padlockable  
and with door lock  
**IP66/IP67**

Front plate type	Rated current (A)	Flange dimensions (mm)	Palazzoli code	Pack Qty
	16-25	83x83	<b>295128</b>	10
	16-25	83x83	<b>295138</b>	1

**Features:** padlockable in all positions.



**Grey handles**  
with anodised aluminium  
front plate padlockable  
and with door lock  
**IP66/IP67**

Front plate type	Rated current (A)	Flange dimensions (mm)	Palazzoli code	Pack Qty
	40-63	105x105	<b>295308</b>	5
	100-200	105x105	<b>292508</b>	1
	400	72x83	<b>292708</b>	1
	40-63	105x105	<b>295318</b>	1
	100-200	105x105	<b>292518</b>	1

**Features:** padlockable in all positions.



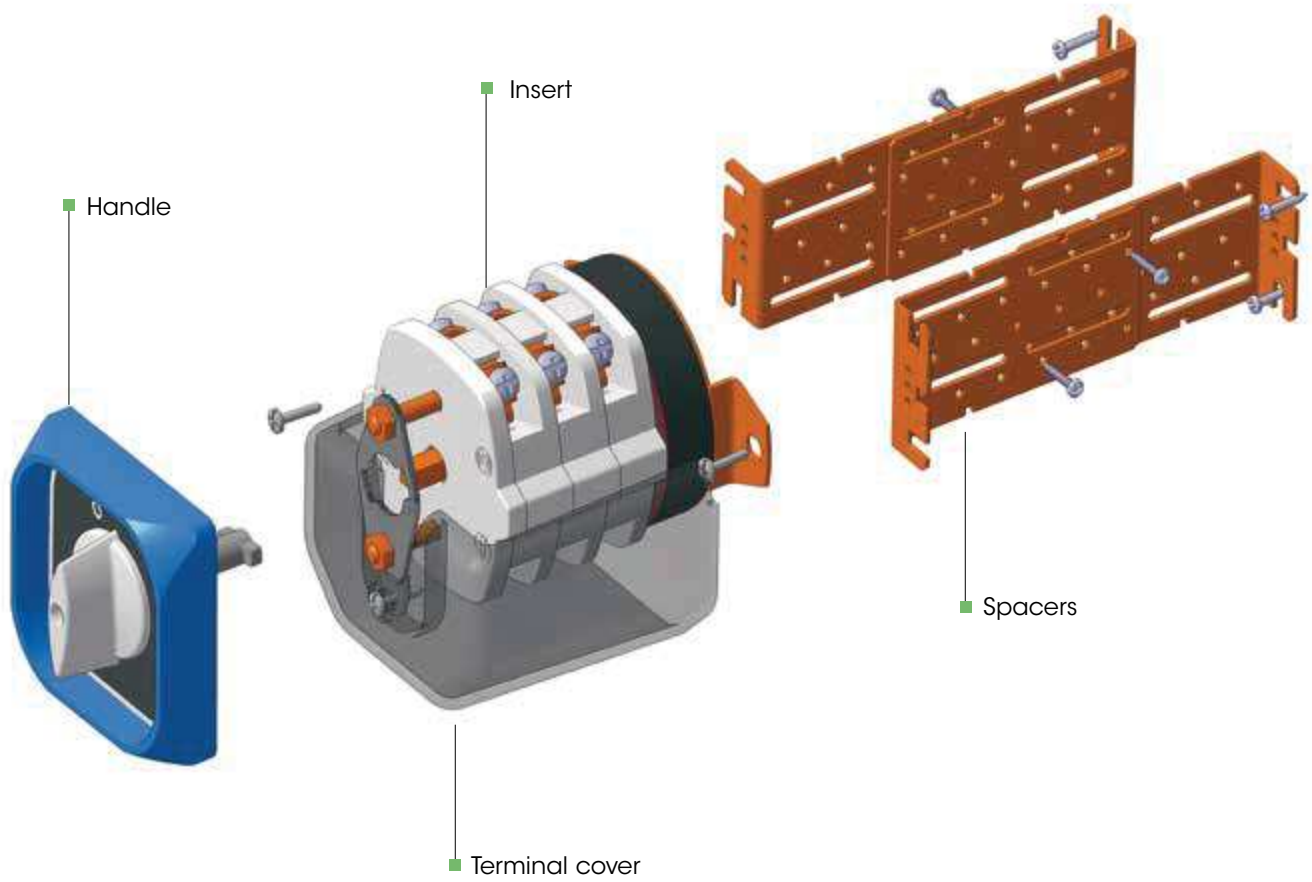
**Red handles**  
with anodised aluminium  
front plate padlockable  
and with door lock  
**IP66/IP67**

Front plate type	Rated current (A)	Flange dimensions (mm)	Palazzoli code	Pack Qty
	40-63	105x105	<b>295328</b>	5
	100-200	105x105	<b>292528</b>	2
	400	72x83	<b>292728</b>	1
	40-63	105x105	<b>295338</b>	1
	100-200	105x105	<b>292538</b>	1

**Features:** padlockable in all positions.

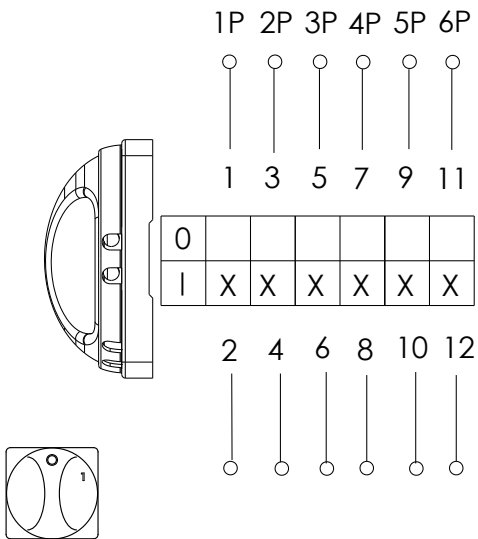


FOR BACK PANEL-MOUNTING 16-63A  
FIXING WITH SCREWS

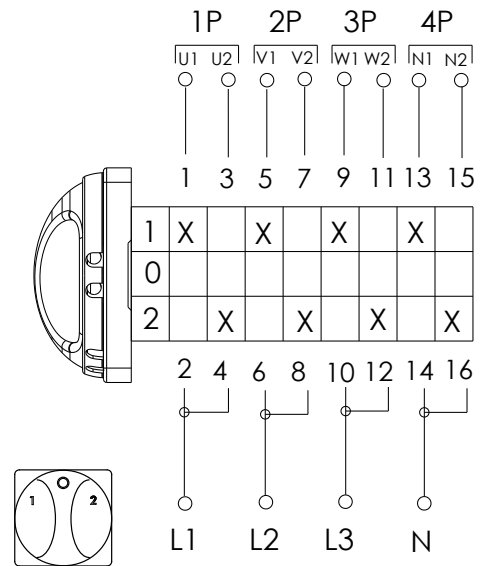




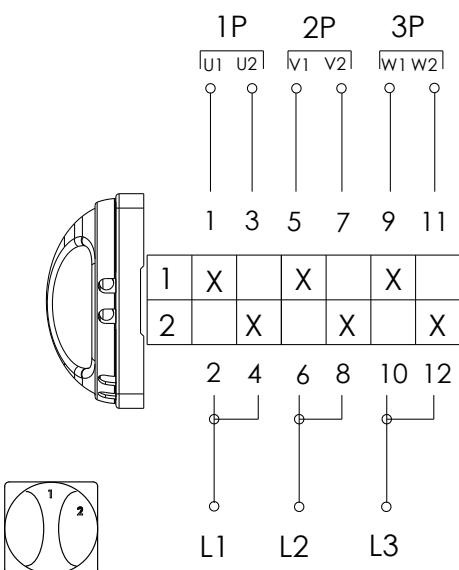
## CAM SWITCHES 1-6



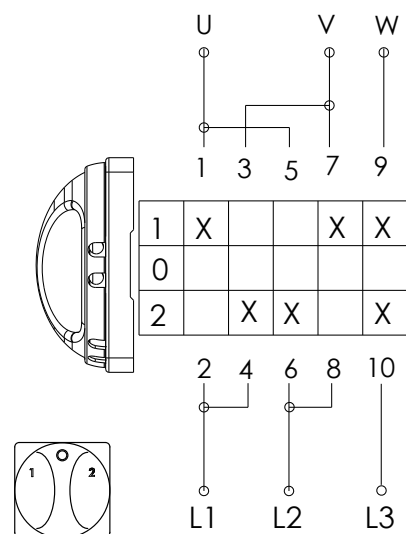
## SELECTOR SWITCHES 7-10



## TWO-WAY SWITCHES 10.1-10.3



## CAM 12 SCHEME

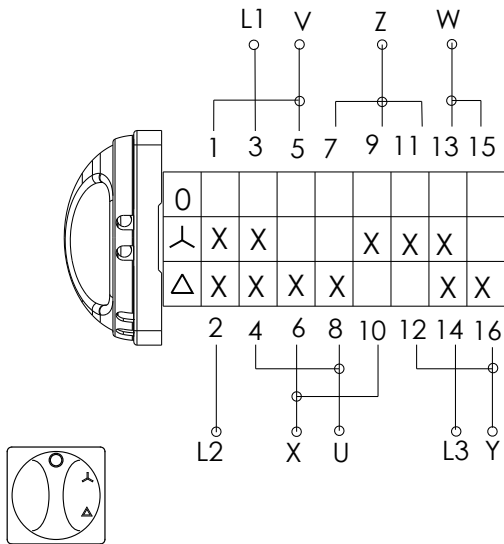


X = CLOSED CONTACT

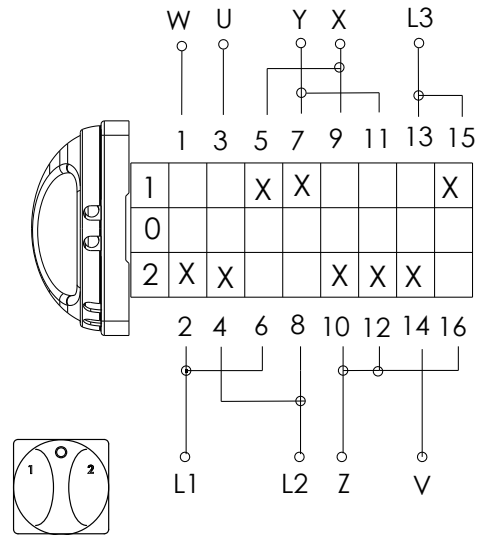




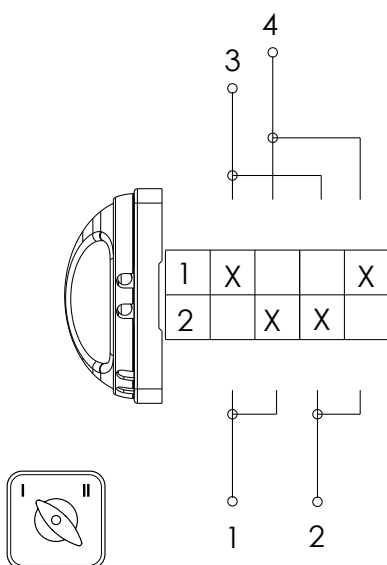
**CAM 13 SCHEME**



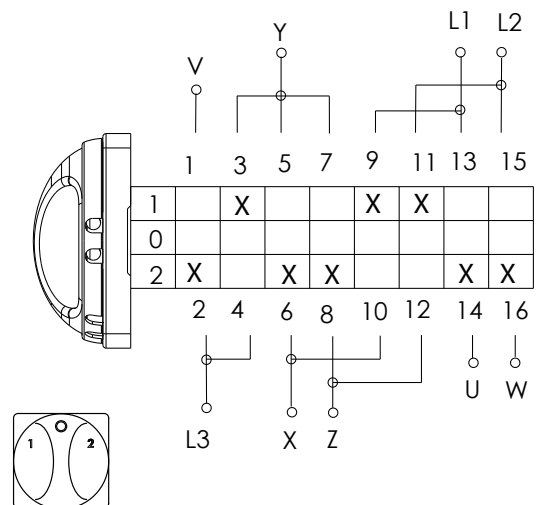
**CAM 15 SCHEME**



**CAM 38 SCHEME**



**CAM 66 SCHEME**



X = CLOSED CONTACT

# TAIS MIGNON





## TAIS MIGNON

Safety and continuity of operation even  
in the harshest conditions



All the products of the TAIS MIGNON series are made of thermosetting GRP; they resist to very high temperatures and attacks of chemical agents.

Thanks to the IP67 protection rating the control devices from TAIS MIGNON series can be used in areas subject to presence of liquids and humidity.



All devices can easily be combined one another and allow for the creation of small series of distribution boards.

The TAIS MIGNON products have the most compact dimensions on the market and thanks to the different versions they can be either flush or wall-mounted.

Suitable for use in saunas, pools, cellars, port areas, airports, containers, cold storage and industrial plants.



The small devices of the TAIS MIGNON series are a complete range of control, socket-outlet and signalling devices integrated in very compact modular boxes that can be easily combined one another. The offer is composed of devices for wall-mounting and panel-mounting.

Compliance with standards	<b>IEC EN 60669-1 IEC 23-50 IEC/EN 60309-1 IEC/EN 60309-2</b>
Material	<b>Palazzoli thermosetting GRP</b>
Protection rating (IP according to IEC/EN 60529)	<b>IP44 - IP65 - IP67</b>
Colour	<b>RAL5015 (cover) RAL7035 (base)</b>
Resistance to abnormal heat and fire ("Glow wire" according to IEC/EN 60695-2-10)	<b>960°C</b>
Flammability rating (according to UL94)	<b>V0</b>
Impact resistance (IK rating according to IEC/EN 62262)	<b>IK04</b>
Operating frequency	<b>50 - 60Hz</b>
Insulation class	<b>II □</b>
Storage temperature	<b>-50°C - +80°C</b>
Operating temperature	<b>-25°C - +70°C</b>



<b>Cable gland features:</b>		<b>M16</b>	<b>M20</b>	<b>M25</b>
Entry cable diameter	mm	10-12	5-13	8-19

**Chemical resistance chart on page 393**



**Switches**  
in thermosetting GRP  
for wall-mounting  
**IP67**

Poles	Entry type	Enclosure dimensions (mm)	Rated current/voltage	Palazzoli code	Pack Qty
1P	M20	62x80x48	16A 250V~ 10A 400V~	<b>202271</b>	10
1P	M16 M16	62x80x48	16A 250V~ 10A 400V~	<b>202261</b>	1
2P	M16 M16	62x80x48	16A 250V~ 10A 400V~	<b>202262</b>	10
2P	M20 M20	62x80x48	16A 250V~ 10A 400V~	<b>202282</b>	10
3P	M20 M20	62x80x48	16A 400V~	<b>202283</b>	10

**Equipment included:** as many cable glands as the number of entries.  
**Features:** code 202271 can be used with two opposite inlets. Code 202283 with double breaking contacts.



**Two-way switches**  
in thermosetting GRP  
for wall-mounting  
**IP67**

Poles	Entry type	Enclosure dimensions (mm)	Rated current/voltage	Palazzoli code	Pack Qty
1P	M20	62x80x48	16A 250V~ 10A 400V~	<b>202276</b>	10
1P	M16 M16	62x80x48	16A 250V~ 10A 400V~	<b>202266</b>	1

**Equipment included:** as many cable glands as the number of entries.  
**Features:** code 202276 can be used with two opposite inlets.



**Selector switches**  
in thermosetting GRP  
for wall-mounting  
**IP67**

Poles	Entry type	Enclosure dimensions (mm)	Rated current/voltage	Palazzoli code	Pack Qty
1P	M20	62x80x48	16A 250V~ 10A 400V~	<b>202275</b>	1
1P	M16 M16	62x80x48	16A 250V~ 10A 400V~	<b>202265</b>	1

**Equipment included:** as many cable glands as the number of entries.  
**Features:** code 202275 can be used with two opposite inlets. By removing the rear bond, the device becomes a double single-pole switch.



**Push-buttons**  
in thermosetting GRP  
for wall-mounting  
**IP67**

technopolymer cable gland

Poles	Entry type	Enclosure dimensions (mm)	Rated current/voltage	Palazzoli code	Pack Qty
1 NO		62x80x51	10A 400V~	<b>261435</b>	10
1 NO		62x80x51	10A 400V~	<b>261403</b>	1
1 NC		62x80x51	10A 400V~	<b>261445</b>	1
1 NC		62x80x51	10A 400V~	<b>261413</b>	1

**Equipment included:** as many cable glands as the number of entries.  
**Features:** code 261435 and 261445 can be used with two opposite inlets.



**Start-stop push button panel**  
in thermosetting GRP  
for wall-mounting  
**IP67**

technopolymer cable gland

Poles	Entry type	Enclosure dimensions (mm)	Rated current/voltage	Palazzoli code	Pack Qty
1 NO+1 NC		62x80x51	10A 400V~	<b>261432</b>	1

**Equipment included:** as many cable glands as the number of entries.  
**Features:** it can be used with two opposite inlets.



**On-off push button panel**  
in thermosetting GRP  
for wall-mounting  
**IP67**

technopolymer cable gland

Poles	Entry type	Enclosure dimensions (mm)	Rated current/voltage	Palazzoli code	Pack Qty
1 NO+1 NC		62x80x51	10A 400V~	<b>261433</b>	1

**Equipment included:** as many cable glands as the number of entries.  
**Features:** it can be used with two opposite inlets.



**Schuko socket**  
in thermosetting GRP  
for wall-mounting  
**IP44**

technopolymer cable gland

Description	Entry type	Enclosure dimensions (mm)	Palazzoli code	Pack Qty
2P+ $\neq$ 10/16A UNEL, Schuko type (with side earth) size 19mm		62x80x65	<b>431237</b>	10

**Equipment included:** as many cable glands as the number of entries.  
**Features:** it can be used with two opposite inlets.



**Enclosures**  
in thermosetting GRP  
for wall-mounting  
for Ticino Magic devices  
**IP44**

technopolymer cable gland

Entry type	Enclosure dimensions (mm)	Installable device modules	Palazzoli code	Pack Qty
	62x80x62	1	<b>559021</b>	8
	62x80x62	1	<b>559031</b>	8
	62x80x62	1+1	<b>559022</b>	1
	62x80x62	1+1	<b>559032</b>	1

**Equipment included:** as many cable glands as the number of entries.





**Box** in thermosetting GRP for domoTER domestic sockets for wall-mounting **IP44**

technopolymer cable gland

Entry type	Enclosure dimensions (mm)	Installable device modules	Palazzoli code	Pack Qty
M20	62x80x62	2	<b>559232</b>	1

**Equipment included:** as many cable glands as the number of entries.  
**Features:** it can be used with two opposite inlets.

**Technical accessories:**



page 39



**Industrial socket-outlets** in thermosetting GRP for wall-mounting 50-60Hz **IP44**

technopolymer cable gland

Rated current (A)	Entry type	Rated voltage	Voltage colour	Poles	h ref.	Palazzoli code	Pack Qty
16	M20	110V	Yellow	2P+⊕	4	<b>471204</b>	10
	M20	110V	Yellow	3P+⊕	4	<b>471284</b>	1
	M25	110V	Yellow	3P+N+⊕	4	<b>471294</b>	1
	M20	230V	Blue	2P+⊕	6	<b>471304</b>	10
	M20	230V	Blue	3P+⊕	9	<b>471314</b>	1
	M25	230V	Blue	3P+N+⊕	9	<b>471324</b>	1
	M20	400V	Red	2P+⊕	9	<b>471404</b>	1
	M20	400V	Red	3P+⊕	6	<b>471414</b>	1
	M25	400V	Red	3P+N+⊕	6	<b>471424</b>	1

**Equipment included:** as many cable glands as the number of entries.  
**Features:** pillar terminals for connecting cables.

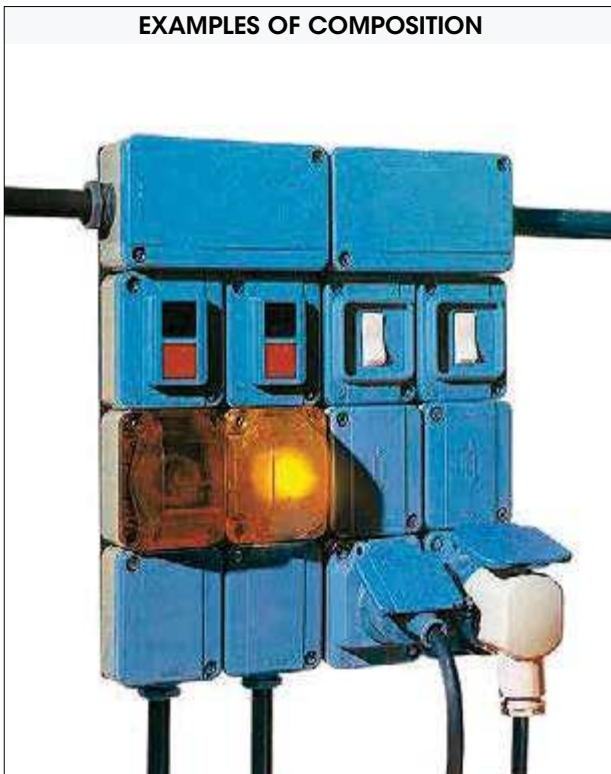


**Industrial socket-outlets** for extra low voltage in thermosetting GRP for wall-mounting 50-60Hz **IP44**

technopolymer cable gland

Rated current (A)	Entry type	Rated voltage	Voltage colour	Poles	h ref.	Palazzoli code	Pack Qty
16	M20	24V	Purple	2P	-	<b>471004</b>	1
	M20	24V	Purple	3P	-	<b>471094</b>	1
	M20	42V	White	2P	12	<b>471104</b>	1
	M20	42V	White	3P	12	<b>471114</b>	1

**Equipment included:** as many cable glands as the number of entries.  
**Features:** pillar terminals for connecting cables.





**Signalling lamps**  
in thermosetting GRP  
with E14 lamp holder  
for wall-mounting  
**IP65**

technopolymer cable gland

Rated operating voltage	Entry type	Enclosure dimensions (mm)	Diffuser colour	Palazzoli code	Pack Qty
250V		62x80x78	Red	<b>800061</b>	6
250V		62x80x78	Green	<b>800062</b>	6
250V		62x80x78	Transparent	<b>800063</b>	6
250V		62x80x78	Yellow	<b>800064</b>	6

**Equipment included:** as many cable glands as the number of entries.  
**Features:** it can be used with two opposite inlets.  
Polycarbonate diffuser.  
E14 lamp holder for 3C lamps , 12W max lamp. Lamp not included.



**Fuse holders**  
in thermosetting GRP  
for wall-mounting  
**IP65**

technopolymer cable gland

Enclosure dimensions (mm)	Entry type	Poles	Fuse type	Palazzoli code	Pack Qty
62x80x46		2P	ø8.5x23	<b>302044</b>	1
62x80x46		3P	ø8.5x23	<b>302054</b>	1
62x102x46		2P	ø8.5x32	<b>302144</b>	1
62x102x46		3P	ø8.5x32	<b>302154</b>	1

**Equipment included:** as many cable glands as the number of entries. Extractors for fuses.  
**Features:** fuses not included.



**Junction boxes**  
in thermosetting GRP  
for wall-mounting  
**IP65**

technopolymer cable gland

Outer dimensions (mm)	Entry type	Palazzoli code	Pack Qty
62x80x38		<b>101021</b>	12
62x80x38		<b>101031</b>	10
62x80x38		<b>101041</b>	12
62x80x38		<b>101061</b>	12
77x102x48		<b>101151</b>	10
77x102x48		<b>101161</b>	1

**Equipment included:** as many cable glands as the number of entries.  
**Features:** screws in stainless steel for fixing covers.



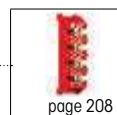
**Junction boxes**  
in thermosetting GRP  
with increased internal  
capacity for wall-mounting  
**IP65**

technopolymer cable gland

Outer dimensions (mm)	Entry type	Palazzoli code	Pack Qty
62x80x46		<b>101022</b>	10
77x102x55		<b>101121</b>	8

**Equipment included:** as many cable glands as the number of entries.  
**Features:** screws in stainless steel for fixing covers.

**Technical accessories:**





**Junction boxes**  
in thermosetting GRP  
with **cage terminals**  
for wall-mounting  
**IP65**

technopolymer cable gland

Outer dimensions (mm)	Entry type	No. of poles for section	Palazzoli code	Pack Qty
62x80x38		4x6 mm <sup>2</sup>	<b>101025</b>	12
62x80x38		4x6 mm <sup>2</sup>	<b>101035</b>	10
62x80x38		4x6 mm <sup>2</sup>	<b>101045</b>	12
77x102x48		5x6 mm <sup>2</sup>	<b>101156</b>	10
77x102x48		5x6 mm <sup>2</sup>	<b>101157</b>	10

**Equipment included:** 6 mm<sup>2</sup> cage terminals, a number of cable glands equal to the number of entries.

**Features:** screws in stainless steel for fixing covers.



**Modular box**  
in thermosetting GRP  
for wall-mounting  
**IP65**

technopolymer cable gland

Outer dimensions (mm)	Entry type	Palazzoli code	Pack Qty
125x77x55		<b>101081</b>	12

**Equipment included:** as many cable glands as the number of entries.

**Features:** screws in stainless steel for fixing covers. The modular dimensions allow combinations with watertight wall-mounted modular boxes and all the TAIS MIGNON wall-mounted range.



**Coupling fittings**  
with **metric threading**  
for TAIS MIGNON boxes  
**IP67**

Mounting hole type	Internal hole ø (mm)	Palazzoli code	Pack Qty
M20	16	<b>590020</b>	5
M25	20	<b>590025</b>	1

**Equipment included:** complete with gasket.



**Terminal block**  
with **installation by screws**  
for TAIS MIGNON boxes

Rated voltage (V)	No. of poles or section	Palazzoli code	Pack Qty
400	4x6 mm <sup>2</sup>	<b>101096</b>	20

**Features:** they can be inserted inside TAIS MIGNON boxes with dimensions 77x102mm and 77x125mm with screws.



**Terminal block**  
with **quick fit system**  
for TAIS MIGNON boxes

Rated voltage (V)	No. of poles for section	Palazzoli code	Pack Qty
400	4x6 mm <sup>2</sup>	<b>101095</b>	10

**Features:** they can be inserted inside TAIS MIGNON boxes with dimensions 77x102mm and 77x125mm with screws.

**Technical accessories:**





**Switches**  
in thermosetting GRP  
for flush-mounting  
**IP67**

Poles	Rated current/voltage	Flush-mount dimensions (mm)	Palazzoli code	Pack Qty
1P	16A 250V~ 10A 400V~	62x80	<b>202291</b>	1
2P	16A 250V~ 10A 400V~	62x80	<b>202292</b>	1
3P	16A 400V~	62x80	<b>202293</b>	1

**Equipment included:** with through holes for cable entry and accessories for panel fixing.  
**Features:** code 202293 with double break contacts.



**Push-buttons**  
in thermosetting GRP  
for flush-mounting  
**IP67**

Poles	Rated current/voltage	Flush-mount dimensions (mm)	Palazzoli code	Pack Qty
1 NO	10A 400V~	62x80	<b>261495</b>	1
1 NC	10A 400V~	62x80	<b>261496</b>	1

**Equipment included:** with through holes for cable entry and accessories for panel fixing.



**Two-way switches**  
in thermosetting GRP  
for flush-mounting  
**IP67**

Poles	Rated current/voltage	Flush-mount dimensions (mm)	Palazzoli code	Pack Qty
1P	16A 250V~ 10A 400V~	62x80	<b>202296</b>	1

**Equipment included:** with through holes for cable entry and accessories for panel fixing.



**On-off push button panel**  
in thermosetting GRP  
for flush-mounting  
**IP67**

Poles	Rated current/voltage	Flush-mount dimensions (mm)	Palazzoli code	Pack Qty
1 NO+1 NC	10A 400V~	62x80	<b>261493</b>	1

**Equipment included:** with through holes for cable entry and accessories for panel fixing.



**Selector switches**  
in thermosetting GRP  
for flush-mounting  
**IP67**

Poles	Rated current/voltage	Flush-mount dimensions (mm)	Palazzoli code	Pack Qty
1P	16A 250V~ 10A 400V~	62x80	<b>202295</b>	1

**Equipment included:** with through holes for cable entry and accessories for panel fixing.  
**Features:** By removing the rear jumper, the device becomes a double single-pole switch.



**Signalling lamps**  
in thermosetting GRP  
with E14 lamp holder  
for flush-mounting  
**IP65**

Rated voltage	Diffuser colour	Flush-mount dimensions (mm)	Palazzoli code	Pack Qty
250V	red	62x80	<b>800071</b>	1
250V	green	62x80	<b>800072</b>	1
250V	transparent	62x80	<b>800073</b>	1
250V	yellow	62x80	<b>800074</b>	1

**Features:** polycarbonate diffuser. E14 lamp holder for 3C lamps, 12W max. Lamp not included. With through holes for cable entry.



**Schuko socket**  
in thermosetting GRP  
for flush-mounting  
**IP44**

Flush-mount dimensions (mm)	Description	Palazzoli code	Pack Qty
50x50	2P+ $\neq$ 10/16A UNEL, pitch 19mm Shuko type (with side earth)	<b>431252</b>	10

**Equipment included:** stainless steel fixing captive screws.

**Features:** it can be panel-mounted with bottom box code 101221 and wall-mounted with box code 101092.



**Junction box**  
in thermosetting GRP  
for flush-mounting  
**IP65**

Outer dimensions (mm)	Flush-mount dimensions (mm)	Palazzoli code	Pack Qty
73x91	62x80	<b>202299</b>	1

**Equipment included:** complete with accessories for panel fixing.

**Features:** with through holes for cable entry.



**Enclosures**  
in thermosetting GRP  
for domoTER sockets  
for flush-mounting  
**IP44**

Flush-mount dimensions (mm)	Installable modules	Palazzoli code	Pack Qty
50x50	2	<b>559132</b>	15

**Equipment included:** stainless steel fixing captive screws.

**Features:** it can be panel-mounted with bottom box code 101221 and wall-mounted with box code 101092.

**Technical accessories:**



page 39





**Boxes** in thermosetting GRP for flush-mounting for Ticino Magic devices **IP44**

Flush-mount dimensions (mm)	Installable modules	Palazzoli code	Pack Qty
50x50	1	<b>559011</b>	1
50x50	1+1	<b>559012</b>	1

**Equipment included:** stainless steel fixing captive screws



**Industrial socket-outlets** for **extra low voltage** in thermosetting GRP for flush-mounting 50-60Hz **IP44**

Rated current (A)	Rated voltage	Voltage colour	Poles	h ref.	Palazzoli code	Pack Qty
16	24V	●	2P	-	<b>471054</b>	1
	24V	●	3P	-	<b>471064</b>	1
	42V	○	2P	12	<b>471154</b>	1
	42V	○	3P	12	<b>471164</b>	1
32	24V	●	2P	-	<b>471056</b>	1
	24V	●	3P	-	<b>471066</b>	1
	42V	○	2P	12	<b>471156</b>	1
	42V	○	3P	12	<b>471166</b>	1

**Equipment included:** stainless steel fixing captive screws

**Features:** it can be panel-mounted with bottom box code 101221. It can be wall-mounted with box code 101092.



**Industrial socket-outlets** in thermosetting GRP for flush-mounting 50-60Hz **IP44**

Rated current (A)	Rated voltage	Voltage colour	Poles	h ref.	Palazzoli code	Pack Qty
16	110V	●	2P+⚡	4	<b>471254</b>	10
	110V	●	3P+⚡	4	<b>471214</b>	1
	110V	●	3P+N+⚡	4	<b>471224</b>	1
	230V	●	2P+⚡	6	<b>471354</b>	1
	230V	●	3P+⚡	9	<b>471364</b>	1
	230V	●	3P+N+⚡	9	<b>471334</b>	1
	400V	●	2P+⚡	9	<b>471454</b>	1
	400V	●	3P+⚡	6	<b>471464</b>	1
	400V	●	3P+N+⚡	6	<b>471434</b>	1

**Equipment included:** stainless steel fixing captive screws.

**Features:** the versions 2P+⚡ can be panel-mounted with bottom box code 101221.

The versions 2P+⚡ and 3P+⚡ can be wall-mounted by using the box code 101092.

The versions 3P+N+⚡ can be wall-mounted by using the box code 101191.



**Bottom box** for flush-mounting of TAIS MIGNON sockets

Flush-mount dimensions (mm)	Frame dimensions (mm)	Palazzoli code	Pack Qty
62x80	73x91x5,5	<b>101221</b>	10



**Bottom box** for wall-mounting of TAIS MIGNON sockets

Outer dimensions (mm)	Entry type	Palazzoli code	Pack Qty
62x80x36	M20	<b>101092</b>	10
77x102x42	M25	<b>101191</b>	1

**Equipment included:** cable glands.



RONDO' devices are in aluminium alloy, oven painted, inside and outside, with subsequent anodising treatment for optimal corrosion resistance. The captive screws for closing the covers are in stainless steel and the seals are in non-ageing elastomer. The earthing connection is made with both internal and external screws. The control devices and the plug-type sockets have internal components made of self-extinguishing insulating material.

Compliance with standards	<b>IEC EN 60669-1</b>
Material	<b>Aluminium alloy</b>
Surface treatment	<b>Passivation with fluoro-zirconium treatment</b>
Paint	<b>Hot-polymerised non-toxic polyester</b>
Protection rating (IP according to IEC/EN 60529)	<b>IP54 - IP55</b>
Colour	<b>RAL5012 (cover) RAL7035 (base)</b>
Impact resistance (IK rating according to IEC/EN 62262)	<b>IK10</b>
Operating frequency	<b>50 - 60Hz</b>
Insulation class	<b>I</b>
Storage temperature	<b>-50°C - +80°C</b>
Operating temperature	<b>-25°C - +70°C</b>



Cable gland features:		M20	M25
Entry cable diameter	mm	5-13	8-19

Chemical resistance chart on page 393



technopolymer cable gland

**Switches**  
in aluminium alloy  
for wall-mounting  
**IP55**

Poles	Entry type	Rated current/voltage	Palazzoli code	Pack Qty
1P	M20	16A 250V~ 10A 400V~	<b>201151</b>	1
2P	M20	16A 250V~ 10A 400V~	<b>201152</b>	1
2P	M20	16A 250V~ 10A 400V~	<b>201162</b>	1

**Equipment included:** earth screws inside and outside the box, a number of cable glands equal to the number of entries.



technopolymer cable gland

**Two-way switches**  
in aluminium alloy  
for wall-mounting  
**IP55**

Poles	Entry type	Rated current/voltage	Palazzoli code	Pack Qty
1P	M20	16A 250V~ 10A 400V~	<b>201156</b>	1
1P	M20	16A 250V~ 10A 400V~	<b>201166</b>	1

**Equipment included:** earth screws inside and outside the box, a number of cable glands equal to the number of entries.



technopolymer cable gland

**Selector switches**  
in aluminium alloy  
for wall-mounting  
**IP55**

Poles	Entry type	Rated current/voltage	Palazzoli code	Pack Qty
1P	M20	16A 250V~ 10A 400V~	<b>201155</b>	1

**Equipment included:** earth screws inside and outside the box, a number of cable glands equal to the number of entries.

**Features:** by removing the rear bond, the device becomes a double single-pole switch.



**Push-buttons**  
in aluminium alloy  
for wall-mounting  
**IP55**

technopolymer  
cable gland

Description	Entry type	Rated current/voltage	Palazzoli code	Pack Qty
1P NO	M20	10A 400V~	<b>261021</b>	1

**Equipment included:** earth screws inside and outside the box, a number of cable glands equal to the number of entries.



**Concentric sockets**  
in aluminium alloy  
for wall-mounting  
**IP54**

technopolymer  
cable gland

Rated current (A)	Entry type	Rated voltage	Poles	Palazzoli code	Pack Qty
6	M20	25V~50Vcc	2P	<b>401030</b>	1
10	M20	25V~50Vcc	2P	<b>401031</b>	1

**Equipment included:** internal and external earth screws, a number of cable glands equal to the number of entries.



**Concentric plugs**  
**IP20**

Rated current (A)	Rated operating voltage	Poles	Palazzoli code	Pack Qty
6	25V~ 50Vcc	2P	<b>407030</b>	1
10	25V~ 50Vcc	2P	<b>407031</b>	1

**Features:** IP54 with sleeve code 590021. Smooth hole passage.



**Cable protection sleeve**  
in non-ageing elastomer  
for concentric mobile plugs

Manufacturing material	Colour	Palazzoli code	Pack Qty
non-ageing elastomer	black	<b>590021</b>	1

**Uses:** it enables to increase to IP54 the protection rating of plugs with code 407030, 407031 and to IP44 the plugs with code 437152.



**Signalling lamps**  
in aluminium alloy  
with E14 lamp holder  
for wall-mounting  
**IP54**

technopolymer  
cable gland

Rated voltage	Entry type	Diffuser colour	Lamp max power (W)	Palazzoli code	Pack Qty
250V	M20	red	12	<b>800121</b>	1
250V	M20	green	12	<b>800122</b>	1
250V	M20	transparent	12	<b>800123</b>	1

**Equipment included:** internal and external earth screw, a number of cable glands equal to the number of entries.

**Features:** E14 lamp holder for 3C lamps. Lamp not included



**Junction boxes**  
in aluminium alloy  
for wall-mounting  
**IP54**

technopolymer  
cable gland

Inner diameter (mm)	Entry type	Palazzoli code	Pack Qty
Ø 62	M20	<b>112020</b>	1
Ø 62	M20 M20	<b>112030</b>	10
Ø 62	M20 M20	<b>112040</b>	1
Ø 82	M25	<b>113020</b>	1
Ø 82	M25 M25	<b>113030</b>	10
Ø 82	M25 M25	<b>113040</b>	1

**Equipment included:** earth screws inside and outside the box, a number of cable glands equal to the number of entries.



**Terminal blocks**  
with cage terminals  
for junction boxes  
400V

For boxes with dimensions (mm)	No. of poles for section	Palazzoli code	Pack Qty
Ø 62	4x6 mm <sup>2</sup>	<b>112094</b>	30
Ø 82	4x10 mm <sup>2</sup>	<b>113094</b>	20



Compliance with standards	<b>IEC/EN 62080</b>
Material	<b>Aluminium Alloy (body) Painted galvanised steel (drum)</b>
Surface treatment	<b>Passivation with fluoro-zirconium treatment</b>
Paint	<b>Hot-polymerised non-toxic polyester</b>
Protection rating (IP according to IEC/EN 60529)	<b>IP66</b>
Colour	<b>RAL5012 (drum) RAL7035 (body)</b>
Impact resistance (IK rating according to IEC/EN 62262)	<b>IK10</b>
Operating voltage	<b>24-110-230V~</b>
Frequency	<b>50-60Hz</b>
Operation	<b>Continuous</b>
Insulation class	<b>I</b>
Entry cable diameter	<b>5-13mm</b>
Storage temperature	<b>-50°C - +80°C</b>
Operating temperature	<b>-40°C - +40°C</b>



**Bells in aluminium alloy with steel drum 50-60Hz IP66**

technopolymer  
M20 cable gland

Rated voltage	Drum diameter (mm)	Sound level at 1 m (dB)	Power (VA)	Palazzoli code	Pack Qty
24V~	105	101	13VA initial 11VA vibrating	<b>900253</b>	1
110V~	105	101	13VA initial 11VA vibrating	<b>900263</b>	1
230V~	105	101	13VA initial 11VA vibrating	<b>900273</b>	1

**Equipment included:** terminal block in thermosetting material insulating material and cable gland.

**Features:** drum in galvanised and painted steel. They are suitable for continuous or extended operation. Earth screws inside and outside the box.



**Sirens in aluminium alloy with vibrating membrane 50-60Hz IP66**

technopolymer  
M20 cable gland

Rated voltage	Sound level at 1 m (dB)	Power (VA)	Palazzoli code	Pack Qty
24V~	107/105	60VA initial 25VA vibrating	<b>900453</b>	1
110V~	107/105	60VA initial 25VA vibrating	<b>900463</b>	1
230V~	107/105	60VA initial 25VA vibrating	<b>900473</b>	1

**Equipment included:** terminal block in thermosetting material insulating material and cable gland.

**Features:** prolonged operation with 1 hour pause every 4 hours.



**Directional horn for sirens**

Max. diameter (mm)	Siren+horn projection (mm)	Palazzoli code	Pack Qty
112	238	<b>900448</b>	1

**Equipment included:** complete with stainless steel fixing screws.



**Cylindrical fuses**  
"gL" type

Dimensions (mm)	Rated current (A)	Rated voltage (V)	Palazzoli code	Pack Qty
ø 8.5x23	2	230	<b>302091</b>	10
ø 8.5x23	4	230	<b>302092</b>	10
ø 8.5x23	6	230	<b>302093</b>	10
ø 8.5x23	10	230	<b>302095</b>	10
ø 8.5x23	16	230	<b>302097</b>	10
ø 8.5x32	4	400	<b>302192</b>	10
ø 8.5x32	6	400	<b>302193</b>	30
ø 8.5x32	10	400	<b>302195</b>	30
ø 8.5x32	16	400	<b>302197</b>	30



**Diazed fast fuses**  
500V

Fuse holder base	Rated current (A)	Palazzoli code	Pack Qty
E16 (NDz)	16	<b>348117</b>	25
E16 (NDz)	25	<b>348122</b>	25
E16 (NDz)	30	<b>348123</b>	25
E33 (DIII)	32	<b>348326</b>	25
E33 (DIII)	63	<b>348333</b>	5



**Diazed delayed fuses**  
500V

Fuse holder base	Rated current (A)	Palazzoli code	Pack Qty
E16 (NDz)	16	<b>349117</b>	25
E16 (NDz)	25	<b>349122</b>	25
E16 (NDz)	30	<b>349123</b>	25
E27 (DII)	16	<b>349217</b>	25
E33 (DIII)	32	<b>349326</b>	25
E33 (DIII)	63	<b>349333</b>	5



**ACR fuses**  
with high breaking capacity  
500V

Fuse holder base	Rated current (A)	Palazzoli code	Pack Qty
GR.00	100	<b>339039</b>	3
GR.00	125	<b>339041</b>	3
GR.1	200	<b>339147</b>	3
GR.1	250	<b>339150</b>	3
GR.2	400	<b>339259</b>	3
GR.3	630	<b>339367</b>	1



**ACR fuse extraction handles**

For fuses	Palazzoli code	Pack Qty
GR.00-0-1-2-3	<b>339998</b>	10
GR.00	<b>339988</b>	1

**Features:** code 339988 is to be used with devices code 283053, code 293053, code 337010, code 337050 and 125A interlocked socket-outlets.





**JANUS**  
universal distribution boards  
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**ENERGYBOX**  
inlet distribution boards  
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**ENERGY GO**  
portable distribution boards  
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**X-CEE**  
interlocked extensions  
page 229





**ENERGY METALBOX**

distribution boards  
in metal cabinet

page 230



**ENERGY TAIS**

distribution boards on  
stainless steel stand

page 232





# JANUS





# JANUS

It doubles energy and halves the space



The transparent cover allows easy and quick access to the circuit protection devices at any location.



The JANUS board integrates all of the fixings for wall-mounted or floor installations, without the need for accessories.



Easy to carry, ergonomic handle for on-site use.



The cable clamp groove avoids the possibility that the plug can be torn from the board when it is wall-mounted.

Suitable for use in building sites, public events, circuses, trade fairs and market areas.



The products of the JANUS series are a range of universal distribution boards in technopolymer that can be folded, with IP65 protection rating. The system consists of distribution boards with either 4 interlocked socket-outlets or 8 fixed sockets. All products can be folded and used as portable or fixed distribution boards that can be wall-mounted or placed on the floor without the use of any accessories.

Compliance with standards	<b>IEC/EN 61439-1 IEC/EN 61439-4</b>
Material	<b>Technopolymer</b>
Protection rating (IP according to IEC/EN 60529)	<b>IP65</b>
Colour	<b>RAL5015</b>
Resistance to abnormal heat and fire ("Glow wire" according to IEC/EN 60695-2-10)	<b>650°C</b>
Impact resistance (IK grade according to IEC/EN 62262)	<b>IK10</b>
Rated current	<b>16A - 32A</b>
Operating voltage	<b>230V - 400V</b>
Operating frequency	<b>50-60Hz</b>
RCD protection type	<b>AC</b>
Insulation voltage	<b>500V</b>
Power plug	<b>Multimax type</b>
Cable length	<b>2 m</b>
Storage temperature	<b>-30°C - +70°C</b>
Operating temperature	<b>-20°C - +40°C</b>



Universal distribution boards foldable with 4 interlocked socket-outlets with **power terminal block and fuse protection IP65**

Main switch A / kW	Interlocked socket-outlets				Palazzoli code	Pack Qty
	16A 2P+±	16A 3P+±	16A 3P+N+±	32A 3P+N+±		
32/6	4				<b>644101</b>	1
32/18	3	1			<b>644102</b>	1
32/18	3		1		<b>644103</b>	1
32/18	2	2			<b>644104</b>	1
32/18	2	1	1		<b>644105</b>	1
32/18	2	1		1	<b>644106</b>	1
32/6	3				<b>644110</b>	1

**Features:** padlockable modular door.

**Notes:** if used as a main construction site distribution board, connect the earthing terminal to the earthing node.



Universal distribution boards, foldable with 4 interlocked socket-outlets with **power plug and fuse protection IP65**

Main switch A / kW	Interlocked socket-outlets				Palazzoli code	Pack Qty
	16A 2P+±	16A 3P+±	16A 3P+N+±	32A 3P+N+±		
32/6	4				<b>644001</b>	1
32/18	3	1			<b>644002</b>	1
32/18	3		1		<b>644003</b>	1
32/18	2	2			<b>644004</b>	1
32/18	2	1	1		<b>644005</b>	1
32/18	2	1		1	<b>644006</b>	1
32/6	3				<b>644010</b>	1

**Features:** padlockable modular door.

**Note:** the version with plug cannot be used as the main distribution board for construction sites.

#### GUIDE TO THE CREATION OF ACS DISTRIBUTION BOARDS

Palazzoli provides a step by step guide to choosing the correct part numbers for your installation and fulfilling all the documents that have to be submitted to inspectors for health and safety of the workers on the construction site.



The guide is free and can be downloaded at [www.palazzoli.com](http://www.palazzoli.com)







Universal distribution boards foldable with 4 interlocked socket-outlets with **power terminal block** and **MCB protection IP65**

Main switch A / kW	Interlocked socket-outlets				Palazzoli code	Pack Qty
	16A 2P+⊕	16A 3P+⊕	16A 3P+N+⊕	32A 3P+N+⊕		
32/6	4				<b>634101</b>	1
32/18	3	1			<b>634102</b>	1
32/18	2	2			<b>634104</b>	1
32/18	2	1	1		<b>634105</b>	1
32/18	2	1		1	<b>634106</b>	1
32/6	3			1	<b>634110</b>	1

**Features:** padlockable modular door.

**Notes:** if used as a main construction site distribution board, connect the earthing terminal to the earthing node.



Universal distribution boards, foldable with 4 interlocked socket-outlets with **power plug** and **MCB protection IP65**

Main switch A / kW	Interlocked socket-outlets				Palazzoli code	Pack Qty
	16A 2P+⊕	16A 3P+⊕	16A 3P+N+⊕	32A 3P+N+⊕		
32/6	4				<b>634001</b>	1
32/18	3	1			<b>634002</b>	1
32/18	2	2			<b>634004</b>	1
32/18	2	1	1		<b>634005</b>	1
32/18	2	1		1	<b>634006</b>	1
32/6	3			1	<b>634010</b>	1

**Features:** padlockable modular door.

**Notes:** the version with plug cannot be used as the main distribution board for construction sites.

**SOFTWARE FOR THE PREPARATION OF ACS DISTRIBUTION BOARDS**

Alternatively to the guide, a software to design, quote and certify customized ACS distribution boards is available.



The software is available at [www.palazzoli.com](http://www.palazzoli.com)



Universal distribution boards foldable with 8 sockets with **power plug** and **MCB protection IP65**

Main switch A / kW	Industrial socket-outlets				Palazzoli code	Pack Qty
	16A 2P+⊕	16A 3P+⊕	16A 3P+N+⊕	32A 3P+N+⊕		
32/6	4				<b>638040*</b>	1
32/6	8				<b>638041</b>	1
32/18	4	4			<b>638042</b>	1

**Features:** padlockable modular door.

\*IP55 protection rating.

**Note:** the version with plug cannot be used as the main distribution board for construction sites.

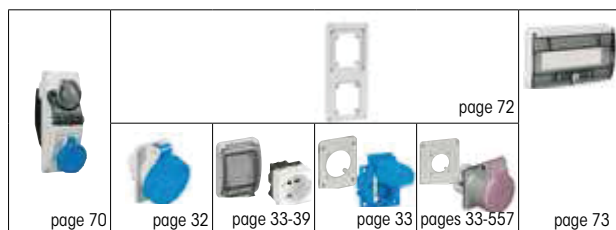


**Empty distribution board** for wired distribution boards up to 4 interlocked or 8 fixed sockets

Outer dimensions (mm)	Side A	Side B	Palazzoli code	Pack Qty
329x572x325	12 modules	blind	<b>634100</b>	1

**Features:** padlockable modular door. Mushroom push-button not included

**Technical accessories:**



**Stainless steel support** for ACS Janus distribution boards

Manufacturing material	Palazzoli code	Pack Qty
galvanised and painted steel	<b>601540</b>	1

# ENERGYBOX



## Accessorisable

The multi-purpose handle can be equipped with floodlights and can be used as a cable winder.



## Robust sockets

The integrated socket-outlet insert withstands the stresses of possible improper use.



## Safe

Thanks to the conical groove, cables are in a tear prevention position.



ENERGY BOX is a complete range of Assemblies for Construction Sites (ACS) pre-wired boards that can be wall-mounted or installed on a support. The panels are made in a sturdy and handy two-component technopolymer cabinet with a fire-resistant backrest, which allows them to be stored and reused in the next construction site.

We recommend to install these distribution boards in civil building sites, market areas, outdoor events, festivals and temporary electrical distribution.

Compliance with standards	<b>IEC/EN 61439-1</b> <b>IEC/EN 61439-4</b>
Material	<b>Self-extinguishing high density technopolymer</b>
Protection rating (IP according to IEC/EN 60529)	<b>IP65</b>
Colour	<b>RAL5015</b>
Resistance to abnormal heat and fire ("Glow wire" according to IEC/EN 60695-2-10)	<b>960°C (enclosure and interlocked socket-outlets switch)</b> <b>850°C (interlocked socket-outlet insert)</b> <b>650°C (interlocked socket-outlet body)</b>
Impact resistance (IK grade according to IEC/EN 62262)	<b>IK10</b>
Rated current	<b>32A - 63A - 80A</b>
Operating voltage	<b>230V-400V</b>
Operating frequency	<b>50-60Hz</b>
RCD protection type	<b>AC</b>
Insulation voltage	<b>500V</b>
Storage temperature	<b>-30°C - +70°C</b>
Operating temperature	<b>-25°C - +50°C</b>



**GUIDE TO THE PREPARATION OF ACS DISTRIBUTION BOARDS**

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[www.palazzoli.com](http://www.palazzoli.com)

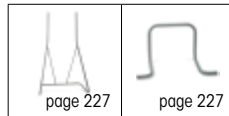


**Assemblies**  
for construction sites (ACS)  
with **fixed socket-outlets**  
protected by **MCB**  
entry with **terminal block**  
50-60Hz **IP65**

Main switch A/kW	Industrial socket-outlets		Palazzoli code	Pack Qty
	16A 2P+ $\neq$ 230V	16A 3P+ $\neq$ 400V		
63/20	12		<b>610012</b>	1
63/40	6	6	<b>610606</b>	1

**Equipment included:** emergency stop device. 4 brackets for Ø 30 mm conduit installation and 4 plates for wall installation.  
**Features:** padlockable modular door.

**Technical accessories:**



**Assemblies**  
for construction sites (ACS)  
with **interlocked socket-outlets**  
protected by **MCB**  
entry with **terminal block**  
50-60Hz **IP65**

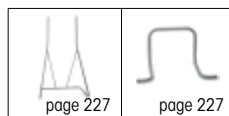
Main switch A/kW	Interlocked socket-outlets						2P+ $\neq$ P30/P17 10/16A	Palazzoli code	Pack Qty
	16A 2P+ $\neq$ 230V	16A 3P+ $\neq$ 400V	16A 3P+N+ $\neq$ 400V	32A 3P+ $\neq$ 400V	32A 3P+N+ $\neq$ 400V	63A 3P+ $\neq$ 400V			
32/7	4						<b>614101</b>	1	
32/16	3	1					<b>614102</b>	1	
32/20	3			1			<b>614103</b>	1	
32/20	2	2					<b>614104</b>	1	
32/20	2	1	1				<b>614105</b>	1	
32/20	2	1		1			<b>614106</b>	1	
32/20	1	2		1			<b>614107</b>	1	
63/30	3	1		1			<b>615101</b>	1	
63/30	3	1			1		<b>615102</b>	1	
63/30	2	3					<b>615103</b>	1	
63/30	2	2		1			<b>615104</b>	1	
63/30	2	2			1		<b>615105</b>	1	
63/30	2	1		1		1	<b>615106</b>	1	
63/30	2	1	1		1		<b>615107</b>	1	
63/30	4	2					<b>616101</b>	1	
63/30	3	3					<b>616102</b>	1	
63/30	3	2		1			<b>616103</b>	1	
63/30	3	2			1		<b>616104</b>	1	
63/40	2	3		1			<b>616105</b>	1	
63/40	2	2		2			<b>616106</b>	1	
63/40	2		2		2		<b>616107</b>	1	
63/40	2	2		1	1		<b>616108</b>	1	
63/30	2	3				1	<b>616109*</b>	1	
63/30	2	2			1	1	<b>616110*</b>	1	

**Equipment included:** emergency stop device. 4 brackets for Ø 30 mm conduit installation and 4 plates for wall installation.

**Features:** padlockable modular door.

\*IP55 protection rating.

**Technical accessories:**





**Assemblies**  
for construction sites (ACS)  
with **interlocked socket-outlets**  
protected by **MCB**  
entry with **inlet**  
50-60Hz **IP65**

Main switch A/kW	Interlocked socket-outlets						Palazzoli code	Pack Qty
	16A 2P+≐ 230V	16A 3P+≐ 400V	16A 3P+N+≐ 400V	32A 3P+≐ 400V	32A 3P+N+≐ 400V	63A 3P+≐ 400V		
32/7	4						<b>614001</b>	1
32/16	3	1					<b>614002</b>	1
32/20	2	2					<b>614003</b>	1
32/20	2	1	1				<b>614004</b>	1
32/20	2	1		1			<b>614005</b>	1
63/30	3	1		1			<b>615001</b>	1
63/30	3	1			1		<b>615002</b>	1
63/30	2	2		1			<b>615003</b>	1
63/30	2	1		1		1	<b>615004</b>	1
63/30	2	1	1		1		<b>615005</b>	1
63/30	4	2					<b>616001</b>	1
63/30	3	3					<b>616002</b>	1
63/30	3	2		1			<b>616003</b>	1
63/30	3	2			1		<b>616004</b>	1
63/30	3		2		1		<b>616005</b>	1
63/40	2	3		1			<b>616006</b>	1
63/40	2	2		2			<b>616007</b>	1
63/40	2		2		2		<b>616008</b>	1
63/40	2	2		1	1		<b>616009</b>	1

**Equipment included:** emergency stop device. 4 brackets for Ø 30 mm conduit installation and 4 plates for wall installation.  
**Features:** padlockable modular door.

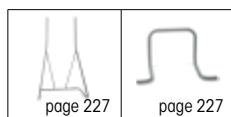


**Assemblies**  
for construction sites (ACS)  
with **interlocked socket-outlets**  
protected by **fuses**  
entry with **terminal block**  
50-60Hz **IP65**

Main switch A/kW	Interlocked socket-outlets						Palazzoli code	Pack Qty		
	16A 2P+≐ 230V	16A 3P+≐ 400V	16A 3P+N+≐ 400V	32A 2P+≐ 230V	32A 3P+≐ 400V	32A 3P+N+≐ 400V			63A 3P+≐ 400V	63A 3P+N+≐ 400V
32/7	4						<b>604101</b>	1		
32/16	3	1					<b>604102</b>	1		
32/20	3			1			<b>604103</b>	1		
32/20	3				1		<b>604104</b>	1		
32/20	2	2					<b>604105</b>	1		
32/20	2	1	1				<b>604106</b>	1		
32/20	2	1			1		<b>604107</b>	1		
32/20	1	2			1		<b>604108</b>	1		
63/30	3	1			1		<b>605101</b>	1		
63/30	3	1				1	<b>605102</b>	1		
63/30	2	3					<b>605103</b>	1		
63/30	2	2			1		<b>605104</b>	1		
63/30	2	2				1	<b>605105</b>	1		
63/30	2	1	1			1	<b>605106</b>	1		
80/45	2	1			1		1	<b>605107</b>	1	
80/45	2		1			1		1	<b>605108</b>	1
63/30	4	2							<b>606101</b>	1
63/30	3	3							<b>606102</b>	1
63/30	3	2			1				<b>606103</b>	1
63/30	3	2				1			<b>606104</b>	1
63/40	2	3			1				<b>606105</b>	1
63/40	2	2			2				<b>606106</b>	1
63/40	2		2			2			<b>606107</b>	1
63/40	2	2			1	1			<b>606108</b>	1

**Equipment included:** emergency stop device. 4 brackets for Ø 30 mm conduit installation and 4 plates for wall installation.  
**Features:** padlockable modular door.

**Common technical accessories:**







**Empty distribution board**  
for wired assemblies  
up to 6 socket-outlets

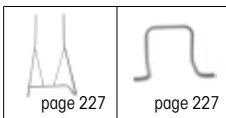
Description	Dimensions (mm)	Palazzoli code	Pack Qty
Empty box	680X605X340	<b>501530</b>	1

**Equipment included:** 4 brackets for fastening to a Ø 30 mm conduit and 4 plates for wall-mounting.

**Features:** the enclosure is designed to accommodate:

- M40 cable gland code 501590;
- enclosure with M40 cable gland and external emergency push-button code 501591;
- industrial plug.

**Technical accessories:**



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**Kit for entry**  
for ENERGYBOX  
distribution boards  
with **90° industrial inlet**  
**IP65**

Rated current (A)	Rated voltage	Voltage colour	Poles	h ref.	Palazzoli code	Pack Qty
63	400V	●	3P+N+⚡	6	<b>501595</b>	1



**Kit for entry**  
for ENERGYBOX distribution  
boards with external  
**emergency push-button**  
cable gland and locknut  
**IP65**

Threading	Fastening diameter (mm)	Palazzoli code	Pack Qty
M40x1.5	18 - 32	<b>501591</b>	1



**Kit for entry**  
for ENERGYBOX distribution  
boards with **cable gland**  
elastomeric gasket and  
locknut

Threading	Fastening diameter (mm)	Palazzoli code	Pack Qty
M40x1.5	18 - 32	<b>501590</b>	1



**Cover**  
with **emergency push-button**  
for ACS assemblies  
**IP55**

For Energybox distribution board type	Palazzoli code	Pack Qty
6 PRIMA series interlocked socket-outlets	<b>501560</b>	1

**Features:** complete with warning lamp and 1 NO contact.



**Box with**  
**emergency push-button**  
for ACS assemblies  
**IP55**

For Energybox distribution board type	Palazzoli code	Pack Qty
from 4 PRIMA series interlocked socket-outlets	<b>501565</b>	1

**Features:** complete with warning lamp and 1 NO contact.

**GUIDE TO THE PREPARATION OF ACS DISTRIBUTION BOARDS**



501530

Board for the installation of 2 PRIMA sockets,  
from page 82

Board for installation of 2 TopTER sockets  
from page 70



579620

579735

ACS boards  
6 sockets 27 DIN modules  
(9+9+9)

ACS boards  
6 sockets 18 DIN modules  
(9+9)

ACS boards  
4 sockets 18 DIN modules  
(9+9)



3x code 579620  
or 3x code 579735

Cover with emergency push-button  
code 501560

3x code 579620  
or 3x code 579735

Box with emergency push-button  
code 501565

2x code 579620  
or 2x code 579735



Kit for ACS assemblies with **6 sockets internal emergency 6 topTERs** 16A and/or 32A

Outer dimensions (mm)	No. of DIN modules	Palazzoli code	Pack Qty
680x552x340	9+9	<b>601532</b>	1

**Equipment included:** M40 cable gland for Ø 18-32mm cables.  
**Features:** padlockable modular door.



Kit for ACS assemblies with **6 sockets external emergency 6 topTERs** 16A and/or 32A

Outer dimensions (mm)	No. of DIN modules	Palazzoli code	Pack Qty
680x552x340	9+9+9	<b>601632</b>	1

**Equipment included:** M40 cable gland for Ø 18-32mm cables.  
**Features:** padlockable modular door.

**Technical accessories:**



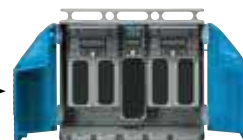
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Kit for ACS assemblies with **5 socket-outlets internal emergency 4 topTERs** 16A and/or 32A 1 topTER 63A

Outer dimensions (mm)	No. of DIN modules	Palazzoli code	Pack Qty
680x552x340	5+12	<b>601563</b>	1

**Equipment included:** M40 cable gland for Ø 18-32mm cables.  
**Features:** padlockable modular door.

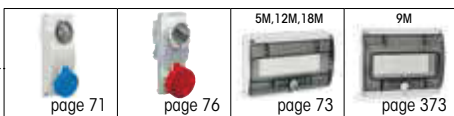


Kit for ACS assemblies with **5 socket-outlets external emergency 4 topTERs** 16A and/or 32A 1 topTER 63A

Outer dimensions (mm)	No. of DIN modules	Palazzoli code	Pack Qty
680x552x340	12+5+12	<b>601663</b>	1

**Equipment included:** M40 cable gland for Ø 18-32mm cables.  
**Features:** padlockable modular door.

**Technical accessories:**



**Cable reel** for **extension leads** complete with screws for **Energybox** boards

Manufacturing material	Palazzoli code	Pack Qty
galvanised and painted steel	<b>501550</b>	1

**Equipment included:** 2 brackets and screws for fixing to a Ø 30 mm pipe.



**Tubular floor support** for **ACS Energybox** distribution boards

Manufacturing material	Palazzoli code	Pack Qty
galvanised and painted steel	<b>501540</b>	1

**Equipment included:** 4 brackets for fixing to a Ø 30 mm pipe.



Compliance with standards	<b>IEC/EN 61439-1</b> <b>IEC/EN 61439-4</b>
Material	<b>Technopolymer</b>
Protection rating (IP according to IEC/EN 60529)	<b>IP66</b>
Colour	<b>RAL7035</b>
Resistance to abnormal heat and fire ("Glow wire" according to IEC/EN 60695-2-10)	<b>850°C (socket insert)</b> <b>650°C (socket body - board)</b>
Impact resistance (IK grade according to IEC/EN 62262)	<b>IK08</b>
Rated current	<b>16A - 32A</b>
Operating voltage	<b>230V-400V</b>
Operating frequency	<b>50-60Hz</b>
RCD protection type	<b>AC</b>
Insulation voltage	<b>500V</b>
Power plug	<b>For anti-crushing heavy-duty applications</b>
Cable length	<b>4 m</b>
Storage temperature	<b>-30°C - +70°C</b>
Operating temperature	<b>-25°C - +50°C</b>



**Portable boards with 3 sockets MCB and RCD protection 50-60Hz IP66**

16A 2P+≐ 230V	Sockets 16A 3P+≐ 400V	Shuko bivalent domestic	Plug type	MCB - RCD protection	Palazzoli code	Pack Qty
3			2P+≐ - 16A	16A 30mA	<b>670030</b>	1
2	1		3P+N+≐ - 16A	16A 30mA	<b>670031</b>	1
1	2		3P+N+≐ - 16A	16A 30mA	<b>670032</b>	1
2		1	2P+≐ - 16A	16A 30mA	<b>670033</b>	1

**Equipment included:** 4 m of H 07 RN-F cable for connection to the plug.  
**Features:** padlockable modular door.



**Portable boards with 4 sockets MCB and RCD protection 50-60Hz IP66**

16A 2P+≐ 230V	Sockets 16A 3P+≐ 400V	Shuko bivalent domestic	Plug type	MCB - RCD protection	Palazzoli code	Pack Qty
4			2P+≐ - 16A	16A 30mA	<b>670040</b>	1
3	1		3P+N+≐ - 16A	16A 30mA	<b>670041</b>	1
2	2		3P+N+≐ - 16A	16A 30mA	<b>670042</b>	1
	4		3P+≐ - 16A	16A 30mA	<b>670043</b>	1
2		2	2P+≐ - 16A	16A 30mA	<b>670044</b>	1

**Equipment included:** 4 m of H 07 RN-F cable for connection to the plug. Insulated handle for transport. Stainless steel plates for wall-mounting.  
**Features:** padlockable modular door.



**Portable boards with 6 sockets MCB and RCD protection 50-60Hz IP66**

16A 2P+≐ 230V	Sockets 16A 3P+≐ 400V	32A 3P+≐ 400V	Plug type	MCB - RCD protection	Palazzoli code	Pack Qty
4	2		3P+N+≐ - 32A	32A 30mA	<b>670060</b>	1
3	3		3P+N+≐ - 32A	32A 30mA	<b>670061</b>	1
3	2	1	3P+N+≐ - 32A	32A 30mA	<b>670062</b>	1
6			3P+N+≐ - 32A	32A 30mA	<b>670063</b>	1

**Equipment included:** 4 m of H 07 RN-F cable for connection to the plug. Insulated handle for transport. Stainless steel plates for wall-mounting.  
**Features:** padlockable modular door.

**NOTES**



The boards can be customised with lateral emergency push-button.



### Portable transformation boards 50-60Hz IP66

With transformer 2P 24V 150VA	Industrial 2P+ $\neq$ 230V	MCB - RCD	Palazzoli code	Pack Qty
2	2	2P 16A	<b>670130</b>	1
2		2P 16A	<b>670140</b>	1

**Equipment included:** self-protected safety transformer, 4 m H 07 RN-F cable for connection to the plug, handle made of insulating material for transport.

**Uses:** indispensable in confined conductive areas such as pits, wells, chimneys, tanks and metallic or humid narrow passages and confined excavations in the ground.

**Features:** padlockable modular door.

#### Technical accessories:



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### Universal support for topTER, PRIMA and Energy Go distribution boards

Manufacturing material	Palazzoli code	Pack Qty
width 239 mm and above	<b>570010</b>	1

**Equipment included:** 4 stainless steel screws for fastening the item to the distribution board.



### Interlocked extension with **rotoswitch** and 20 m cable **IP66/IP67**

Rated current (A)	Rated voltage (V)	Voltage colour	Poles	h ref.	Palazzoli code	Pack Qty
16	110	Yellow	2P+ $\neq$	4	<b>670013</b>	1
	230	Blue	2P+ $\neq$	6	<b>670010</b>	1
	400	Red	3P+ $\neq$	6	<b>670011</b>	1
		Red	3P+N+ $\neq$	6	<b>670012</b>	1

**Equipment included:** 20 m of H 07 RN-F 2.5 mm<sup>2</sup> cable for connection to the plug.

### THE ONLY PORTABLE INTERLOCKED EXTENSION





The ENERGY METAL BOX range consists of construction site distribution boards in metal cabinets with technopolymer socket-outlets. The steel sheet enclosure is fitted with with double closure doors to prevent non-authorized persons from accessing connection and disconnection operations.

Compliance with standards	<b>IEC/EN 61439-1</b> <b>IEC/EN 61439-4</b>
Material	<b>15/10mm steel sheet (enclosure)</b> <b>25/10mm steel sheet (back plate)</b>
Paint	<b>Hot-polymerised non-toxic polyester</b>
Protection rating (IP according to IEC/EN 60529)	<b>IP65</b>
Colour	<b>RAL5015</b>
Impact resistance (IK grade according to IEC/EN 62262)	<b>IK10</b>
Rated current	<b>63A - 80A - 100A - 125A - 200A</b>
Operating voltage	<b>400V</b>
Operating frequency	<b>50-60Hz</b>
Insulation voltage	<b>500V</b>
Storage temperature	<b>-30°C - +70°C</b>
Operating temperature	<b>-25°C - +50°C</b>

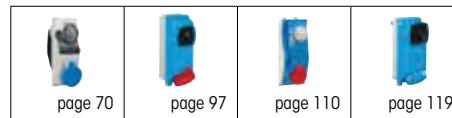


**Cabinet**  
in painted galvanised steel

Outer dimensions (mm)	Usable inner dimensions (mm)	Palazzoli code	Pack Qty
1160x740x430	1065x685	<b>500884</b>	1
1530x740x430	1430x685	<b>500885</b>	1

**Equipment included:** emergency push-button external to the distribution board.  
**Notes:** power supply from below.

**Technical accessories:**



**Pair of supports**  
for ACS assemblies

Dimensions (mm)	Palazzoli code	Pack Qty
590x690	<b>500886</b>	1





**Assemblies for Construction Sites (ACS)** in metal cabinet with **direct outlets** protected by **MCB** entry with **terminal block** 50-60Hz **IP65**

Main switch A/kW	MCBs					Palazzoli code	Pack Qty
	230V 2P		400V 4P				
	16A	25A	16A	32A	63A		
63/40	2		2	1		<b>675101</b>	1
80/50	2		1	2		<b>675102</b>	1
125/78			2	2	2	<b>676101</b>	1
125/78				4	2	<b>676102</b>	1
100/62	2		1	4		<b>677101</b>	1
125/78		2		3	2	<b>677102</b>	1
100/62	3		1	4		<b>678101</b>	1
125/78		3		3	2	<b>678102</b>	1

**Equipment included:** emergency push-button external to the distribution board.

**Features:** padlockable modular door.

**Notes:** power supply from below.



**Assemblies for Construction Sites (ACS)** in metal cabinet with **interlocked socket-outlets** protected by **MCB** entry with **terminal block** 50-60Hz **IP65**

Main switch A/kW	Interlocked socket-outlets						Palazzoli code	Pack Qty
	16A 2P+≐ 230V	16A 3P+≐ 400V	32A 3P+≐ 400V	32A 3P+N+≐ 400V	63A 3P+≐ 400V	63A 3P+N+≐ 400V		
63/30	3	1	1				<b>675001</b>	1
100/60	1	2	1	1			<b>675002</b>	1
100/50	3	2	1				<b>676001</b>	1
100/50	3	2		1			<b>676002</b>	1
100/50	2	3		1			<b>676003</b>	1
100/60	2	2	2				<b>676004</b>	1
100/60	3	2	2				<b>677001</b>	1
100/60	2	2	3				<b>677002</b>	1
200/100	2	2	2			1	<b>677003</b>	1
100/60	2	2		3			<b>677004</b>	1
200/100	3	2	2			1	<b>678001</b>	1
200/100	2	2		2	1	1	<b>678002</b>	1

**Equipment included:** emergency push-button external to the distribution board.

**Features:** padlockable modular door.

**Notes:** power supply from below.



**Assemblies for Construction Sites (ACS)** in metal cabinet with **interlocked socket-outlets** protected by **fuses** entry with **terminal block** 50-60Hz **IP65**

Main switch A/kW	Interlocked socket-outlets						Palazzoli code	Pack Qty
	16A 2P+≐ 230V	16A 3P+≐ 400V	32A 3P+≐ 400V	32A 3P+N+≐ 400V	63A 3P+≐ 400V	63A 3P+N+≐ 400V		
63/100	3	1	1				<b>685001</b>	1
100/60	1	2	1	1			<b>685002</b>	1
100/50	3	2	1				<b>686001</b>	1
100/50	3	2		1			<b>686002</b>	1
100/50	2	3		1			<b>686003</b>	1
100/60	2	2	2				<b>686004</b>	1
100/60	3	2	2				<b>687001</b>	1
100/60	2	2	3				<b>687002</b>	1
200/100	2	2	2			1	<b>687003</b>	1
100/60	2	2		3			<b>687004</b>	1
200/100	3	2	2			1	<b>688001</b>	1
200/100	2	2		2	1	1	<b>688002</b>	1

**Equipment included:** emergency push-button external to the distribution board.

**Features:** padlockable modular door.

**Notes:** power supply from below.



ENERGY TAIS is a highly professional range of pre-wired ACS distribution boards for installation on stands with IP65 protection rating.

The interlocked socket-outlets are made in reinforced thermosetting GRP with excellent resistance to hydrocarbons, mineral oils, alcohol and corrosive atmospheres.

In the ENERGY TAIS series individual outlets are protected by means of MCBs or fuses, general protection is ensured by means of MCB and RCD, and the illuminated emergency push-button acts on the main switch by means of a release coil.

Compliance with standards	<b>IEC/EN 61439-1</b> <b>IEC/EN 61439-4</b>
Material	<b>Palazzoli Thermosetting GRP (boards on plates)</b> <b>AISI 304 stainless steel (plate and canopy)</b>
Protection rating (IP according to IEC/EN 60529)	<b>IP65</b>
Impact resistance (IK grade according to IEC/EN 62262)	<b>IK10</b>
Rated current	<b>63A - 100A - 200A</b>
Operating voltage	<b>400V</b>
Operating frequency	<b>50-60Hz</b>
RCD protection type	<b>AC</b>
Insulation voltage	<b>500V</b>
Storage temperature	<b>-50°C - +80°C</b>
Operating temperature	<b>-25°C - +50°C</b>



**Junction box**  
with terminal block  
and canopy  
for installation on stand  
with stainless steel plate  
50-60Hz **IP65**

Enclosure dimensions (mm)	For boards type	Terminal block	No. of entries	Entry type	Palazzoli code	Pack Qty
185x185	MT1/FS1	4x25mm <sup>2</sup>	3	Pg36	<b>500601</b>	1
250x250	MT2/FS2	4x70mm <sup>2</sup>	3	Pg42	<b>500602</b>	1
370x500	MT3/FS3	4x200mm <sup>2</sup>	3	Pg48	<b>500603</b>	1

**Equipment included:** complete with canopy, cable glands and terminal block.

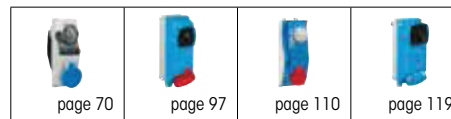
**Uses:** it is fixed in a special seat behind the stand. Suitable for the distribution of large loads.



**Frames on stand**  
with AISI 304 stainless steel  
plate and canopy

Outer dimensions (mm)	Internal usable dimensions (mm)	Weight (kg)	Palazzoli code	Pack Qty
803x1335x565	700x600	38	<b>501500</b>	1
1118x1335x565	1000x600	58	<b>501501</b>	1
1313x1335x565	1200x600	51	<b>501502</b>	1
1853x1685x748	1750x840	93	<b>501503</b>	1

**Technical accessories:**





**Assemblies**  
for construction sites (ACS)  
on stand with stainless steel  
plate with **direct outlets**  
protected by **MCB**  
50-60Hz **IP65**

Main switch A/kW	MCBs 400V 4P				Frame type	Palazzoli code	Pack Qty
	16A	25A	32A	63A			
100/60		1	4		MT1	<b>500890</b>	1
200/120		1	3	1	MT1	<b>500891</b>	1
200/120		1	4	1	MT2	<b>500892</b>	1
200/150		1	2	3	MT2	<b>500893</b>	1
200/120	1	2	3	1	MT2	<b>500894</b>	1
200/150		2	3	2	MT2	<b>500895</b>	1
200/120	1	3	3	1	MT3	<b>500896</b>	1
200/150		3	3	2	MT3	<b>500897</b>	1

**Features:** emergency mushroom button and warning light. Voltage indicator lamp.



**Assemblies**  
for construction sites (ACS)  
on stand with stainless steel  
plate with **interlocked  
socket-outlets** protected  
by **MCB**  
50-60Hz **IP65**

Main switch A/kW	Interlocked socket-outlets							Transf. 16A 2P 24V	Frame type	Palazzoli code	Pack Qty
	16A 2P+≐ 230V	16A 3P+≐ 400V	16A 3P+N+≐ 400V	32A 3P+≐ 400V	32A 3P+N+≐ 400V	63A 3P+≐ 400V	63A 3P+N+≐ 400V				
63/35	3	1			1				MT1	<b>500770</b>	1
63/35	2	2		1					MT1	<b>500767</b>	1
63/35	2	2			1				MT1	<b>500766</b>	1
63/35	2		2		1				MT1	<b>500768</b>	1
63/35	3	1		1					MT1	<b>500753</b>	1
63/35	4	2							MT1	<b>500762</b>	1
100/50	2	2		2					MT2	<b>500817</b>	1
100/50	2	2			2				MT2	<b>500816</b>	1
63/35	2	2			1			1	MT1	<b>500750</b>	1
100/50	2			4				1	MT2	<b>500792</b>	1
100/50	2	2		3					MT2	<b>500802</b>	1
100/50	2	2		2				1	MT2	<b>500800</b>	1
100/50	2	2			3				MT2	<b>500801</b>	1
100/50	2	2		2	2			1	MT2	<b>500790</b>	1
100/50	2	2			2			1	MT3	<b>500843</b>	1
200/100	2	2		2			1	1	MT3	<b>500841</b>	1
200/100	2	2			2		1	1	MT3	<b>500840</b>	1
200/100	3	3		2			1		MT3	<b>500835</b>	1
200/100	3	3			2		1		MT3	<b>500833</b>	1
200/100	2	2		2			1	2	MT3	<b>500831</b>	1
200/100	2	2			2		1	2	MT3	<b>500830</b>	1

**Features:** emergency mushroom button and warning light. Voltage indicator lamp.



**Assemblies**  
for construction sites (ACS)  
on stand with stainless steel  
plate with **interlocked  
socket-outlets** protected  
by **fuses**  
50-60Hz **IP65**

Main switch A/kW	Interlocked socket-outlets							Transf. 16A 2P 24V	Frame type	Palazzoli code	Pack Qty
	16A 2P+≐ 230V	16A 3P+≐ 400V	16A 3P+N+≐ 400V	32A 3P+≐ 400V	32A 3P+N+≐ 400V	63A 3P+≐ 400V	63A 3P+N+≐ 400V				
63/35	3	2							FS1	<b>500874</b>	1
63/35	3	1		1					FS1	<b>500863</b>	1
63/35	2	3							FS1	<b>500872</b>	1
63/35	2	2		1					FS1	<b>500860</b>	1
63/35	2	2			1				FS1	<b>500861</b>	1
100/50	2					2		2	MT2	<b>500918</b>	1
100/50	3	3			2				MT2	<b>500916</b>	1
100/50	3	2		2				1	MT2	<b>500903</b>	1
100/50	3	2			2			1	MT2	<b>500904</b>	1
100/50	2	2		2				2	MT2	<b>500900</b>	1
200/100	3	3			2		1		MT3	<b>500949</b>	1
200/100	4	2		2		1		1	MT3	<b>500941</b>	1
200/100	4	2			2		1	1	MT3	<b>500943</b>	1
200/100	4	2		2		1		2	MT3	<b>500930</b>	1
200/100	4	4		2		1			MT3	<b>500933</b>	1
200/100	4	4			2		1		MT3	<b>500934</b>	1
200/100	4	4		2			1		MT3	<b>500935</b>	1
200/100	4	2	2		2		1		MT3	<b>500936</b>	1

**Features:** emergency mushroom button and warning light. Voltage indicator lamp.





**TIGUA LED**  
street lighting systems in  
painted die-cast aluminium  
page 236



**TIGUA LED**  
tunnel light fixtures in painted  
die-cast aluminium  
page 238



**T54**  
tunnel light fixtures in  
anodised extruded aluminium  
page 242



**TUNNEL54**  
junction boxes  
with insulation-piercing  
page 244



**TUNNEL54**  
fire-resistant junction boxes  
with terminal block  
page 248



## TUNNEL54

For ventilation systems



### TUNNEL54

fire-resistant sockets  
for fans up to 47kW

page 250



### TUNNEL54

fire-resistant sockets  
for fans up to 117kW

page 253



### TUNNEL54

fire-resistant  
reducers

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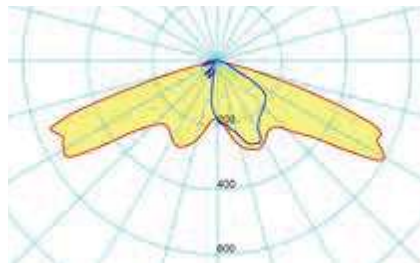


# TIGUA LED



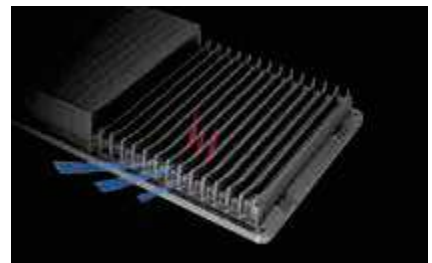
## Lights up more

The high power LEDs ensure maximum optimisation of the light output.



## Lights up everywhere

This range of lighting systems enables to develop any lighting project for streets, squares, pedestrian precincts, etc.



## Reliable

Heat sinks are designed to increase heat conduction while preserving luminous flux.



TIGUA LED Street is Palazzoli's new range of lighting systems that represents the best solution for the lighting of roads, crossings, roundabouts, motorway junctions and car parks. The body is in die-cast aluminium EN 44300 with a very low copper content and anti-corrosion treatment for maximum resistance in harsh environments.

Compliance with standards  
**Directive 2014/35/EU**  
**EN 60598-1**  
**EN 60598-2-3**  
**EN 62471**  
**EN 62493**  
**IEC/TR 62778**  
**Directive 2014/30/EU**  
**EN 55015**  
**EN 61547**  
**EN 61000-3-2**  
**EN 61000-3-3**  
**Directive 2011/65/EU**  
**EN 50581**

Body material	<b>Die-cast aluminium EN 44300</b>
Surface treatment	<b>Fluoro-zirconium treatment</b>
Diffuser material	<b>Extra clear tempered glass</b>
Protection rating (IP according to IEC/EN 60529)	<b>IP66</b>
Paint	<b>Hot-polymerised non-toxic polyester</b>
Colour	<b>RAL 7011</b>
Impact resistance (IK rating according to IEC/EN 62262)	<b>IK08</b>
Corrosion class	<b>C4 according to ISO9223</b>
Weight	<b>7.5kg</b>
Side surface exposed to the wind	<b>0.031m<sup>2</sup></b>
LED device efficiency	<b>115 lm/W</b>
Colour temperature	<b>4000k</b> <b>(other temperatures on request)</b>
CRI	<b>≥ 70</b>
Insulation class	<b>II (I on request)</b>
Supply voltage	<b>200 -240 V 50-60 Hz</b>
Input surge protection	<b>8kV common mode</b> <b>10 kV differential mode</b> <b>EN 61000</b>
Residual flicker	<b>&lt; 1%</b>
Photobiological risk	<b>Exempt</b>
Power factor	<b>&gt; 0.98</b>
Max conductor cross-section	<b>1.5 mm<sup>2</sup></b>
Entry cable diameter	<b>7-13 mm</b>
Driving current	<b>700mA</b> <b>(from 350 to 750mA on request)</b>
Estimated device lifetime	<b>L90 B10 @ 110,000h</b> <b>Tq=-30 °C - +40 °C</b>
Storage temperature	<b>-40 °C - +70 °C</b>
Operating temperature	<b>-30 °C - +45 °C</b>

The photometric curves (LDT files) are available on [www.palazzolilux.com](http://www.palazzolilux.com)



LED roadway lighting systems for 42-60 mm pole-top with **ST1** roadway wide beam optics **IP66**

No. of LEDs	Device power (W)	Rated flux (lm) T <sub>j</sub> = 25 °C	Photometric curves	Palazzoli code	Pack Qty
4	35	5220	24	<b>811954</b>	1
6	51	7830	24	<b>811956</b>	1
9	75	11745	24	<b>811959</b>	1
12	100	15660	24	<b>811962</b>	1
15	124	19575	24	<b>811965</b>	1

**Equipment included:** 42-60 mm pole mounting bracket.  
Power supply with quick-coupling 2P connector.

**Features:** adjustment for pole-top application from 0° to +15°.  
Wall mount arm adjustment from 0° to -20°.

**Notes:** stated values are intended as having +/- 7% tolerances.  
Dimmable version on request



LED roadway lighting systems for 42-60 mm pole-top with **ST2** roadway narrow beam optics **IP66**

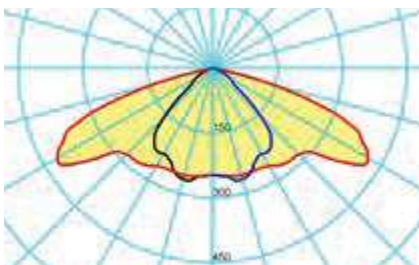
No. of LEDs	Device power (W)	Rated flux (lm) T <sub>j</sub> = 25 °C	Photometric curves	Palazzoli code	Pack Qty
4	35	5220	25	<b>811974</b>	1
6	51	7830	25	<b>811976</b>	1
9	75	11745	25	<b>811579</b>	1
12	100	15660	25	<b>811582</b>	1
15	124	19575	25	<b>811590</b>	1

**Equipment included:** 42-60 mm pole mounting bracket.  
Power supply with quick-coupling 2P connector.

**Features:** adjustment for pole-top application from 0° to +15°.  
Wall mount arm adjustment from 0° to -20°.

**Notes:** stated values are intended as having +/- 7% tolerances.  
Dimmable version on request

# TIGUA LED



## High performance

State-of-the-art LEDs allow economical and technical advantages to the product.



## High flexibility

Dedicated fixing systems allow the use of TIGUA in any installation.



## Maximum luminance

The variety of optics used allows for maximum versatility of customised solutions.



TIGUA LED TUNNEL is the new tunnel light fixture that represents the best solution for permanent and reinforced lighting in road, railway and underground tunnels. The body is in die-cast aluminium EN 44300 with a very low copper content and anti-corrosion treatment for maximum resistance in harsh environments. All versions are available on request with dimming and/or control system.

Compliance with standards  
**Directive 2014/35/EU**  
**EN 60598-1**  
**EN 60598-2-3**  
**EN 62471**  
**EN 62493**  
**IEC/TR 62778**  
**Directive 2014/30/EU**  
**EN 55015**  
**EN 61547**  
**EN 61000-3-2**  
**EN 61000-3-3**  
**Directive 2011/65/EU**  
**EN 50581**

Body material	<b>Die-cast aluminium EN 44300</b>
Surface treatment	<b>Fluoro-zirconium treatment</b>
Diffuser material	<b>Extra clear tempered glass</b>
Protection rating (IP according to IEC/EN 60529)	<b>IP66</b>
Paint	<b>Hot-polymerised non-toxic polyester</b>
Colour	<b>RAL 7011</b>
Impact resistance (IK rating according to IEC/EN 62262)	<b>IK08</b>
Corrosion class	<b>C4 according to ISO 9223</b>
LED device efficiency	<b>115 lm/W</b>
Colour temperature	<b>4000K (5000K on request)</b>
CRI	<b>≥ 70 (CRI 75-CRI 80 on request)</b>
Insulation class	<b>II (I on request)</b>
Supply voltage	<b>200 -240 V 50-60 Hz</b>
Power cable	<b>FTG10(O)M1 L1.5m</b>
Power plug	<b>16A 2P IP66 IEC EN 60309-1; IEC EN 60309-2</b>
Input surge protection	<b>8kV common mode 10 kV differential mode EN 61000</b>
Residual flicker	<b>&lt; 1%</b>
Photobiological risk	<b>Exempt</b>
Power factor	<b>&gt; 0.98</b>
Driving current	<b>700mA (from 350 to 750mA on request)</b>
Estimated device lifetime	<b>L90 B10 @ 110,000h Tq= -30 °C to +40 °C</b>
Storage temperature	<b>-40 °C - +70 °C</b>
Operating temperature	<b>-30 °C - +45 °C</b>

The photometric curves (LDT files) are available on [www.palazzolilux.com](http://www.palazzolilux.com)



LED tunnel floodlights with **axially symmetrical** and **transversally symmetrical** optics **PS1 IP66**

No. of LEDs	Device power (W)	Rated flux (lm) Tj= 25 °C	Photometric curves	Palazzoli code	Pack Qty
4	35	5220	26	<b>811304</b>	1
8	67	10440	26	<b>811308</b>	1
12	100	15660	26	<b>811312</b>	1
8+8	134	20880	26	<b>811316</b>	1
8+12	167	26100	26	<b>811320</b>	1
12+12	200	31320	26	<b>811324</b>	1
14+14	232	36.540	26	<b>811328</b>	1
12+12+12	300	46980	26	<b>811336</b>	1
14+14+14	349	54810	26	<b>811342</b>	1

Notes: stated values are intended as having +/- 7% tolerances.  
Dimmable version on request



LED tunnel floodlights with **axially symmetrical** and **transversally symmetrical** optics **PS3 IP66**

No. of LEDs	Device power (W)	Rated flux (lm) Tj= 25 °C	Photometric curves	Palazzoli code	Pack Qty
4	35	5220	27	<b>811404</b>	1
6	51	7830	27	<b>811406</b>	1
8	67	10440	27	<b>811408</b>	1
12	100	15660	27	<b>811412</b>	1
14	116	18270	27	<b>811414</b>	1
8+8	134	20880	27	<b>811416</b>	1
8+12	167	26100	27	<b>811420</b>	1
12+12	200	31320	27	<b>811424</b>	1
14+14	232	36.540	27	<b>811428</b>	1
12+12+12	300	46980	27	<b>811436</b>	1
14+14+14	349	54810	27	<b>811442</b>	1

Notes: stated values are intended as having +/- 7% tolerances.  
Dimmable version on request



LED tunnel floodlights with **axially symmetrical** and **transversally symmetrical optics 20° PA1 IP66**

No. of LEDs	Device power (W)	Rated flux (lm) Tj= 25 °C	Photometric curves	Palazzoli code	Pack Qty
6	51	7830	28	<b>811356</b>	1
12	100	15660	28	<b>811362</b>	1
9+9	150	23490	28	<b>811368</b>	1
12+12	200	31320	28	<b>811374</b>	1
15+15	249	39150	28	<b>811380</b>	1
12+12+12	300	46980	28	<b>811386</b>	1
14+14+14	349	54810	28	<b>811392</b>	1

**Notes:** stated values are intended as having +/- 7% tolerances.  
Dimmable version on request



LED tunnel floodlights with **axially counter-beam** and **transversally symmetrical optics RS1 IP66**

No. of LEDs	Device power (W)	Rated flux (lm) Tj= 25 °C	Photometric curves	Palazzoli code	Pack Qty
9	75	11745	30	<b>811509</b>	1
12	100	15660	30	<b>811512</b>	1
15	124	19575	30	<b>811515</b>	1
9+9	150	23490	30	<b>811518</b>	1
12+12	200	31320	30	<b>811524</b>	1
15+15	249	39150	30	<b>811530</b>	1
12+12+12	300	46980	30	<b>811536</b>	1
15+15+15	373	58.725	30	<b>811545</b>	1

**Notes:** stated values are intended as having +/- 7% tolerances.  
Dimmable version on request



LED tunnel floodlights with **axially symmetrical** and **transversally symmetrical optics 25° PA3 IP66**

No. of LEDs	Device power (W)	Rated flux (lm) Tj= 25 °C	Photometric curves	Palazzoli code	Pack Qty
6	51	7830	29	<b>811456</b>	1
12	100	15660	29	<b>811462</b>	1
9+9	150	23490	29	<b>811468</b>	1
12+12	200	31320	29	<b>811474</b>	1
15+15	249	39150	29	<b>811480</b>	1
12+12+12	300	46980	29	<b>811486</b>	1
14+14+14	349	54810	29	<b>811492</b>	1

**Notes:** stated values are intended as having +/- 7% tolerances.  
Dimmable version on request



LED tunnel floodlights with **axially 50° counter-beam** and **transversally symmetrical optics RS2 IP66**

No. of LEDs	Device power (W)	Rated flux (lm) Tj= 25 °C	Photometric curves	Palazzoli code	Pack Qty
6	51	7830	31	<b>811556</b>	1
9	75	11745	31	<b>811559</b>	1
12	100	15660	31	<b>811562</b>	1
15	124	19.660	31	<b>811565</b>	1
9+9	150	23490	31	<b>811568</b>	1
12+12	200	31320	31	<b>811574</b>	1
15+15	249	39150	31	<b>811580</b>	1
12+12+12	300	46980	31	<b>811586</b>	1
15+15+15	373	58.725	31	<b>811595</b>	1

**Notes:** stated values are intended as having +/- 7% tolerances.  
Dimmable version on request





**Pair of quick fitting**  
AISI 304 stainless steel  
supports

Manufacturing material	Channel dimensions	Palazzoli code	Pack Qty
AISI 304 stainless steel	100X75	<b>811900</b>	1
	200X75	<b>811901</b>	1
	300X75	<b>811902</b>	1
	100X100	<b>811903</b>	1
	200X100	<b>811904</b>	1
	300X100	<b>811905</b>	1



**Pair of quick fitting**  
AISI 304 stainless steel  
supports for transversal  
adjustment

Manufacturing material	Channel dimensions	Palazzoli code	Pack Qty
AISI 304 stainless steel	100X75	<b>811925</b>	1
	200X75	<b>811926</b>	1
	300X75	<b>811927</b>	1
	100X100	<b>811928</b>	1
	200X100	<b>811929</b>	1
	300X100	<b>811930</b>	1



**Pair of quick fitting**  
AISI 304 stainless steel  
supports for  
axial adjustment

Manufacturing material	Axial adjustment	Channel dimensions	Palazzoli code	Pack Qty
AISI 304 stainless steel	6°	100X75	<b>811931</b>	1
		200X75	<b>811932</b>	1
		300X75	<b>811933</b>	1
		100X100	<b>811934</b>	1
		200X100	<b>811935</b>	1
		300X100	<b>811936</b>	1
	8°	100X75	<b>811937</b>	1
		200X75	<b>811938</b>	1
		300X75	<b>811939</b>	1
		100X100	<b>811940</b>	1
		200X100	<b>811941</b>	1
		300X100	<b>811942</b>	1
	10°	100X75	<b>811943</b>	1
		200X75	<b>811944</b>	1
		300X75	<b>811945</b>	1
		100X100	<b>811946</b>	1
		200X100	<b>811947</b>	1
		300X100	<b>811948</b>	1



**Pair of supports**  
in AISI 304 stainless steel  
direct screw mounting

Manufacturing material	Palazzoli code	Pack Qty
AISI 304 stainless steel	<b>811906</b>	1



**Pair of adjustable supports**  
in AISI 304 stainless steel  
direct screw mounting

Manufacturing material	Palazzoli code	Pack Qty
AISI 304 stainless steel	<b>811907</b>	1



The T54 LED range is the system of light fixtures for entrances and central parts of the tunnels. The T54 LED range has great installation flexibility thanks to the broad selection of accessories. All versions are available on request with dimming and/or control system.

Compliance with standards  
**Directive 2014/35/EU**  
**EN 60598-1**  
**EN 60598-2-3**  
**EN 62471**  
**EN 62493**  
**IEC/TR 62778**  
**Directive 2014/30/EU**  
**EN 55015**  
**EN 61547**  
**EN 61000-3-2**  
**EN 61000-3-3**  
**Directive 2011/65/EU**  
**EN 50581**

Body material	<b>Black anodised extruded aluminium alloy</b>
Support material	<b>AISI 304 stainless steel (AISI 316L on request)</b>
Diffuser material	<b>Extra clear tempered glass</b>
Protection rating (IP according to IEC/EN 60529)	<b>IP66</b>
Impact resistance (IK grade according to IEC/EN 62262)	<b>IK08</b>
Corrosion class	<b>C4 according to ISO 9223</b>
LED device efficiency	<b>115 lm/W</b>
Colour temperature	<b>4000K (5000K on request)</b>
CRI	<b>≥ 70 (CRI 75-CRI 80 on request)</b>
Insulation class	<b>II (class I on request)</b>
Supply voltage	<b>200-240V 50/60Hz</b>
Power cable	<b>FTG10(O)M1 L.1.5m</b>
Power plug	<b>16A 2P IP66 IEC EN 60309-1; IEC EN 60309-2</b>
Input surge protection	<b>8kV common mode 10kV differential mode EN 61000</b>
Residual flicker	<b>&lt; 1%</b>
Photobiological risk	<b>Exempt</b>
Power factor	<b>&gt; 0.98</b>
Driving current	<b>700mA (from 350 to 750mA on request)</b>
Estimated device lifetime	<b>L90 B10 @110,000h Tq=-30 °C - +40 °C</b>
Storage temperature	<b>-40 °C - +70 °C</b>
Operating temperature	<b>-30°C - +45°C</b>

The photometric curves (LDT files) are available on [www.palazzolilux.com](http://www.palazzolilux.com)



LED tunnel floodlights with **axially symmetrical** and **transversally symmetrical optics PS1 IP66**

No. of LEDs	Device power (W)	Rated flux (lm) Tj= 25 °C	Photometric curves	Palazzoli code	Pack Qty
4	35	5220	26	<b>154304</b>	1
8	67	10440	26	<b>154308</b>	1
12	100	15660	26	<b>154312</b>	1

Notes: stated values are intended as having +/- 7% tolerances.  
Dimmable version on request



LED tunnel floodlights with **axially symmetrical** and **transversally symmetrical optics PS3 IP66**

No. of LEDs	Device power (W)	Rated flux (lm) Tj= 25 °C	Photometric curves	Palazzoli code	Pack Qty
4	35	5220	27	<b>154704</b>	1
6	51	7830	27	<b>154706</b>	1
8	67	10440	27	<b>154708</b>	1
12	100	15660	27	<b>154712</b>	1
18	150	23490	27	<b>154718</b>	1
24	200	31320	27	<b>154724</b>	1
30	249	39150	27	<b>154730</b>	1
36	300	46980	27	<b>154736</b>	1
42	349	54810	27	<b>154742</b>	1
48	398	62640	27	<b>154748</b>	1
54	448	70.470	27	<b>154754</b>	1

Notes: stated values are intended as having +/- 7% tolerances.  
Dimmable version on request



LED tunnel floodlights with axially symmetrical and **20° transversally symmetrical optics PA1 IP66**

No. of LEDs	Device power (W)	Rated flux (lm) Tj= 25 °C	Photometric curves	Palazzoli code	Pack Qty
6	51	7830	28	<b>154406</b>	1
12	100	15660	28	<b>154412</b>	1
18	150	23490	28	<b>154418</b>	1
24	200	31320	28	<b>154424</b>	1
30	249	39150	28	<b>154430</b>	1
36	300	46980	28	<b>154436</b>	1
42	349	54810	28	<b>154442</b>	1
48	398	62640	28	<b>154448</b>	1
54	448	70.470	28	<b>154454</b>	1

Notes: stated values are intended as having +/- 7% tolerances.  
Dimmable version on request





LED tunnel floodlights with axially symmetrical and **25° transversally symmetrical optics PA3 IP66**

No. of LEDs	Device power (W)	Rated flux (lm) Tj= 25 °C	Photometric curves	Palazzoli code	Pack Qty
6	51	7830	29	<b>154806</b>	1
12	100	15660	29	<b>154812</b>	1
18	150	23490	29	<b>154818</b>	1

**Notes:** stated values are intended as having +/- 7% tolerances.  
Dimmable version on request



**Pair of quick fitting AISI 304 stainless steel supports for fixing of LED light fixtures**

Manufacturing material	Channel dimensions	Palazzoli code	Pack Qty
AISI 304 stainless steel	100x75	<b>151910</b>	1
	200x75	<b>151911</b>	1
	300x75	<b>151912</b>	1
	100x100	<b>151913</b>	1
	200x100	<b>151914</b>	1
	300x100	<b>151915</b>	1



LED tunnel floodlights with axially **60° counter-beam** and **transversally symmetrical optics RS1 IP66**

No. of LEDs	Device power (W)	Rated flux (lm) Tj= 25 °C	Photometric curves	Palazzoli code	Pack Qty
4	35	5220	30	<b>154604</b>	1
6	51	7830	30	<b>154606</b>	1
8	67	10440	30	<b>154608</b>	1
12	100	15660	30	<b>154612</b>	1
18	150	23490	30	<b>154618</b>	1
24	200	31320	30	<b>154624</b>	1
30	249	39150	30	<b>154630</b>	1
36	300	46980	30	<b>154636</b>	1
42	349	54810	30	<b>154642</b>	1
48	398	62640	30	<b>154648</b>	1
54	448	70.470	30	<b>154654</b>	1

**Notes:** stated values are intended as having +/- 7% tolerances.  
Dimmable version on request



**Pair of quick fitting AISI 304 stainless steel supports for fixing of LED light fixtures**

Manufacturing material	Channel dimensions	Palazzoli code	Pack Qty
AISI 304 stainless steel	100x75	<b>151920</b>	1
	200x75	<b>151921</b>	1
	300x75	<b>151922</b>	1
	100x100	<b>151923</b>	1
	200x100	<b>151924</b>	1
	300x100	<b>151925</b>	1

# TUNNEL54





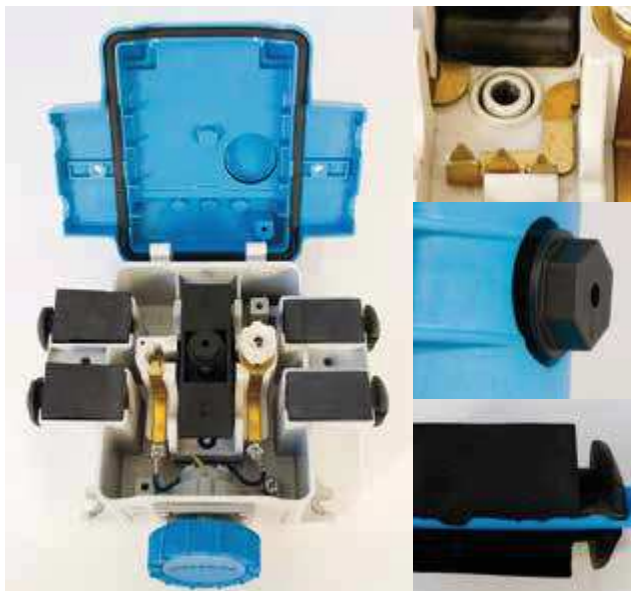
## TUNNEL54

You can wire them in less than a minute thanks to the calibrated breaking system and universal gaskets



TUNNEL54 boxes in aluminium alloy have been tested under severe temperature conditions in order to be used in emergency circuits of roadway tunnels.

In both the technopolymer and aluminium alloy versions the protection fuse can be replaced with maximum safety, as access to it does not require opening the box.



The three-blade perforating system avoids cutting and section reductions.

The pre-set screw guarantees the connection without the need of torque wrenches.

The universal gasket allows acceptance of all cables from 6 to 35 mm<sup>2</sup>, avoiding the need for specifically sized glands.

Suitable for ordinary and emergency lighting in roadway, railway and underground tunnels.





The TUNNEL54 series is a range of devices dedicated to lighting systems. It includes specific products for junctions made in aluminium alloy or in reinforced self-extinguishing technopolymer, with IP66 protection rating.

They consist of quick wiring insulation-piercing boxes, with universal entry of cables up to 35mm<sup>2</sup> or with ceramic terminal block.

The junction boxes for emergency systems guarantee continuity of service at 850°C for 90 minutes, are processed with ecological fluorizirconic passivation treatment and painted with hot-polymerised non-toxic polyester powders. The connections can be achieved by means of a plug-type socket IEC/EN 60309-1 and IEC/EN 60309-2, or by means of a cable gland.



Compliance with standards	<b>CEI EN 50200</b> <b>CEI EN 50362</b> <b>European Directive 2004/54/EC</b> <b>ANAS 7735 memorandum</b> <b>Guidelines for safety planning in road tunnels</b> <b>IEC/EN 60309-1</b> <b>IEC/EN 60309-2</b>
Material	<b>Aluminium alloy</b> <b>(emergency circuit boxes)</b> <b>Reinforced halogen free technopolymer</b> <b>(boxes for ordinary circuits)</b>
Protection rating (IP according to IEC/EN 60529)	<b>IP66</b>
Colour	<b>RAL5012 (box cover)</b> <b>RAL7035 (box base)</b>
Resistance to abnormal heat and fire ("Glow wire" according to IEC/EN 60695-2-10)	<b>960°C</b> <b>(ordinary circuit boxes)</b>
Flammability rating (according to UL94)	<b>V0</b> <b>(ordinary circuit boxes)</b>
Operating temperature resistance	<b>850°C for 90'</b> <b>(emergency circuit boxes)</b>
Impact resistance (IK grade according to IEC/EN 62262)	<b>IK10</b>
Insulation class	<b>I and II</b>
Fuse type	<b>E14 - D01 (boxes for emergency circuits)</b> <b>Cylindrical 5x20</b> <b>(boxes for ordinary circuits)</b>
Cable gland type	<b>In nickered brass with metric ISO threading</b>



**Resistance to chemical agents**

WATER	SALINE SOLUTION	ACIDS		BASES		SOLVENTS			
		CONCENTRATED	DILUTED	CONCENTRATED	DILUTED	ALCOHOL	ACETONE	PERCHLORO-ETHYLENE	BENZENE
↑	↑	↓	→	→	↑	↑	↑	↑	↑
OILS		FATS		AMMONIA	OXIDISERS	INORGANIC SALTS	GASOLINE	DETERGENTS	U.V. RAYS
MINERAL	VEGETABLE	ANIMAL	SYNTHETIC						
↑	↑	↑	↑	↑	→	↑	↑	↑	↑

Legend: ↑ high resistance    → partial resistance    ↓ low resistance



**Junction boxes** in reinforced **insulation-piercing** technopolymer for single-pole cables with **socket** for **ordinary circuits IP66**

2P+  
230V

Line cable cross-section (mm <sup>2</sup> )	Class	Outer dimensions (mm)	Protections	Palazzoli code	Pack Qty
4 - 16	II	164x242x135	-	<b>158201</b>	1
4 - 16	II	164x242x135	1 4A fuse (L)	<b>158211</b>	1

**Note:** special configurations on request.



**Junction boxes** in aluminium alloy with **insulation-piercing** for single-pole cables with **2 cable glands** for **emergency circuits IP66 - 850°C 90'**

2xM20  
Ø 7-13mm

Line cable cross-section (mm <sup>2</sup> )	Class	Outer dimensions (mm)	Protections	Palazzoli code	Pack Qty
4-35	I	247x225x130	1 6A fuse (L)	<b>157012</b>	1
4-35	I	247x225x130	2 6A fuses (L+N)	<b>157112</b>	1
4-35	II	247x225x130	1 6A fuse (L)	<b>158012</b>	1
4-35	II	247x225x130	2 6A fuses (L+N)	<b>158112</b>	1

**Note:** special configurations on request.



**Junction boxes** in aluminium alloy with **insulation-piercing** for single-pole cables with **socket** for **emergency circuits IP66 - 850°C 90'**

2P+  
230V

Line cable cross-section (mm <sup>2</sup> )	Class	Outer dimensions (mm)	Protections	Palazzoli code	Pack Qty
4-35	I	247x225x130	1 4A fuse (L)	<b>157001</b>	1
4-35	I	247x225x130	2 4A fuses (L+N)	<b>157101</b>	1
4-35	II	247x225x130	1 fuse 4A (L)	<b>158001</b>	1
4-35	II	247x225x130	2 4A fuses (L+N)	<b>158101</b>	1

**Note:** special configurations on request.



**Supports** for insulation-piercing boxes in aluminium alloy

Manufacturing material	Palazzoli code	Pack Qty
AISI 304 stainless steel	<b>157050</b>	20
Galvanised and RAL 7035 painted steel	<b>157051</b>	20

**Notes:** suitable for channels with maximum height of 100 mm.



**Junction boxes** in aluminium alloy with **insulation-piercing** for single-pole cables with **cable gland** for **emergency circuits IP66 - 850°C 90'**

M20  
Ø 7-13mm

Line cable cross-section (mm <sup>2</sup> )	Class	Outer dimensions (mm)	Protections	Palazzoli code	Pack Qty
4-35	I	247x225x130	1 4A fuse (L)	<b>157011</b>	1
4-35	I	247x225x130	2 4A fuses (L+N)	<b>157111</b>	1
4-35	II	247x225x130	1 fuse 4A (L)	<b>158011</b>	1
4-35	II	247x225x130	2 4A fuses (L+N)	<b>158111</b>	1

**Note:** special configurations on request.



**Screws** for fixing the junction boxes in aluminium alloy to a bracket

Manufacturing material	Palazzoli code	Pack Qty
Stainless steel	<b>157060</b>	100



The aluminium alloy boxes of the TUNNEL54 series are suitable for ordinary and emergency lighting systems. The fire resistance guarantees continuity of service at 850°C for 90 minutes according to standard IEC/EN 50362.

The terminal block is made with brass conducting bars and double screw anti-loosening terminals on a ceramic base.

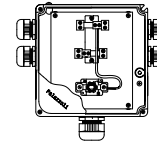
The radially clamped tear-proof cable glands in nickel-plated brass have IP68 protection rating and are fixed on threaded holes without the aid of the locknut. The minimum wall thickness is 3.5 mm. Grounding is ensured by the M6 screw terminal, both internally and externally.

Compliance with standards  
**CEI EN 50200**  
**CEI EN 50362**  
**European Directive 2004/54/EC**  
**ANAS 7735 memorandum**  
**Guidelines for safety planning in road tunnels**  
**IEC/EN 60309-1**  
**IEC/EN 60309-2**

Boxes material	<b>Aluminium alloy</b>
Terminal blocks material	<b>Ceramic (base)</b> <b>Brass (terminals)</b>
Protection rating (IP according to IEC/EN 60529)	<b>IP66</b>
Colour	<b>RAL5012 (box cover)</b> <b>RAL7035 (box base)</b>
Operating temperature resistance	<b>850° C for 90'</b>
Impact resistance (IK grade according to IEC/EN 62262)	<b>IK10</b>
Insulation class	<b>I</b>
Fuse type	<b>E14 - D01</b>
Cable gland type	<b>In nicked brass with metric ISO threading</b>



**Junction boxes** in aluminium alloy with **terminal block** for **multi-pole cables** with **cable glands** for emergency circuits  
**IP66 - 850°C 90'**

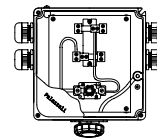


Line cable cross-section (mm <sup>2</sup> )	Terminals poles/section (mm <sup>2</sup> )	Outer dimensions (mm)	Line cable glands (ømm)	Palazzoli code	Pack Qty
2x (1x4)-2x (1x6)	2x6	185x185x105	M16 (4-9,5)	<b>151011</b>	1
2x (1x10)-2x (1x16)	2x16	185x185x105	M20 (7-13)	<b>151022</b>	1
2x (1x25)-2x (1x35)	2x40	185x252x152	M25 (8-16)	<b>151034</b>	1
2x (1x50)-2x (1x70)	2x70	252x315x193	M32 (11-21)	<b>151045</b>	1

**Equipment included:** reduction inserts for cable glands.  
**Notes:** special configurations on request.



**Junction boxes** in aluminium alloy with **terminal block** for **single-pole cables** with **socket** for emergency circuits  
**IP66 - 850°C 90'**



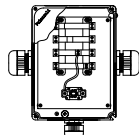
Line cable cross-section (mm <sup>2</sup> )	Terminals poles/section (mm <sup>2</sup> )	Outer dimensions (mm)	Line cable glands (ømm)	Palazzoli code	Pack Qty
2x (1x4)-2x (1x6)	2x6	185x185x105	M16 (4-9,5)	<b>151311</b>	1
2x (1x10)-2x (1x16)	2x16	185x185x105	M20 (7-13)	<b>151322</b>	1
2x (1x25)-2x (1x35)	2x40	185x252x152	M25 (8-16)	<b>151334</b>	1
2x (1x50)-2x (1x70)	2x70	252x315x193	M32 (11-21)	<b>151345</b>	1

**Equipment included:** reduction inserts for cable glands.  
**Notes:** special configurations on request.



M25  
Ø 8-16mm

**Junction boxes** in aluminium alloy with **terminal block** for **multi-pole cables** with **cable glands** for emergency circuits **IP66 - 850°C 90°**



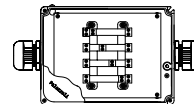
Line cable cross-section (mm <sup>2</sup> )	Terminals poles/section (mm <sup>2</sup> )	Outer dimensions (mm)	Line cable glands (ømm)	Palazzoli code	Pack Qty
4x4 - 4x6	4x6	185x252x152	M32 (11-21)	<b>151241</b>	1
4x10	4x16	185x252x152	M32 (11-21)	<b>151242</b>	1
4x16	4x16	185x252x152	M40 (15-27)	<b>151252</b>	1
4x25 - 4x35	4x40	185x252x152	M40 (15-27)	<b>151264</b>	1
3x50+25 - 3x70+35	4x70	252x315x193	M50 (22-35)	<b>151275</b>	1
70	4x70	252x315x193	M63 (35-48)	<b>151285</b>	1

**Equipment included:** reduction inserts for cable glands.

**Notes:** special configurations on request.



**Line junction boxes** for power supply lines for tunnel light fixtures **IP66 - 850°C 90°**



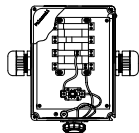
Line cable cross-section (mm <sup>2</sup> )	Terminals poles/section (mm <sup>2</sup> )	Outer dimensions (mm)	Line cable glands (ømm)	Palazzoli code	Pack Qty
4x4 - 4x6	4x6	252x185x152	M32 (11-21)	<b>151641</b>	1
4x10	4x16	252x185x152	M32 (11-21)	<b>151642</b>	1
4x16	4x16	252x185x152	M40 (15-27)	<b>151652</b>	1
4x25 - 4x35	4x40	252x185x152	M40 (15-27)	<b>151664</b>	1
3x50+25 - 3x70+35	4x70	315x252x193	M50 (22-35)	<b>151675</b>	1
70	4x70	315x252x193	M63 (35-48)	<b>151685</b>	1

**Note:** special configurations on request.



2P+≡  
230V

**Junction boxes** in aluminium alloy with **terminal block** for **multi-pole cables** with **socket** for emergency circuits **IP66 - 850°C 90°**



Line cable cross-section (mm <sup>2</sup> )	Terminals poles/section (mm <sup>2</sup> )	Outer dimensions (mm)	Line cable glands (ømm)	Palazzoli code	Pack Qty
4x4 - 4x6	4x6	185x252x152	M32 (11-21)	<b>151441</b>	1
4x10	4x16	185x252x152	M32 (11-21)	<b>151442</b>	1
4x16	4x16	185x252x152	M40 (15-27)	<b>151452</b>	1
4x25 - 4x35	4x40	185x252x152	M40 (15-27)	<b>151464</b>	1
3x50+25 - 3x70+35	4x70	252x315x193	M50 (22-35)	<b>151475</b>	1
70	4x70	252x315x193	M63 (35-48)	<b>151485</b>	1

**Equipment included:** reduction inserts for cable glands.

**Notes:** special configurations on request.



**Supports** for mounting of junction boxes

Manufacturing material	For box dimensions	Palazzoli code	Pack Qty
AlSi 304 stainless steel	185x185 - 252x185	<b>151901</b>	10
AlSi 304 stainless steel	185x252 - 315x252	<b>151902</b>	10
AlSi 304 stainless steel	252x315	<b>151903</b>	10

**Equipment included:** screws for fixing the boxes.

# TUNNEL54



**Easy installation  
in tight spaces**  
Thanks to compact  
dimensions and reduced  
weight.



**High Index  
Protection (IP) Rating**  
Thanks to the IP66 protection rating  
it is protected against water jets  
used to clean the tunnels.



**No  
limits**  
Thanks to the AC3-AC23A  
category at rated current.





The interlocked socket-outlets with plug of the TUNNEL 54 series are suitable for powering tunnel fans. The system is made in aluminium alloy and built to ensure continuity of service at 400 °C for 120 minutes in accordance with IEC/EN 12101-3 and 2004/54/EC. The socket is equipped with an isolator switch of AC3-AC23A category, with silver alloy contacts and contact holder discs in Palazzoli's high-thickness thermosetting GRP, to ensure non-deformability in the case of temperature changes due to temporary overloads. The cover is opened and closed using stainless steel captive screws. The isolator-switch operation is padlockable. The cable entry of the socket allows the connection of power lines with single-pole or three-pole cables up to a section of 35 mm<sup>2</sup>, and with an additional box up to 185 mm<sup>2</sup>. The system can be installed on the wall, in a channel, or with brackets by means of special kits.

Compliance  
with standards

**CEI EN 50200**  
**CEI EN 50362**  
**European Directive 2004/54/EC**  
**ANAS 7735 memorandum**  
**Guidelines for safety planning**  
**in road tunnels**  
**IEC/EN 60309-1**  
**IEC/EN 60309-2**  
**IEC/EN 60309-4**

Material	<b>Aluminium alloy</b>
Surface treatment	<b>Passivation with fluoro-zirconium treatment</b>
Paint	<b>Hot-polymerised non-toxic polyester</b>
Protection rating (IP according to IEC/EN 60529)	<b>IP66</b>
Colour	<b>RAL5012 (cover)</b> <b>RAL7035 (base)</b>
Operating temperature resistance	<b>400°C for 120'</b>
Impact resistance (IK grade according to IEC/EN 62262)	<b>IK10</b>
Rated current	<b>63A - 125A</b>
Operating voltage	<b>400V - 690V</b>
Operating frequency	<b>50-60Hz</b>
Insulation class	<b>I</b>



**Interlocked socket-outlets for fans up to 47kW for single-pole cables with plug 50-60Hz IP66 400°C 120'**

Rated current (A)	Rated operating voltage	Poles	Auxiliary contact (AUX)	Palazzoli code	Pack Qty
63	380-415V	3P+⊕	1 NO	<b>151611</b>	1
	600-690V	3P+⊕	1 NO	<b>151612</b>	1

**Equipment included:** 1 63A 3P+⊕ IP67 plug in aluminium alloy. Complete with cable glands. External earthing terminal.  
**Features:** padlockable handle.  
**Note:** special configurations on request.



**Interlocked socket-outlets for fans up to 47kW for multi-pole cables with plug 50-60Hz IP66 400°C 120'**

Rated current (A)	Rated operating voltage	Poles	Auxiliary contact (AUX)	Palazzoli code	Pack Qty
63	380-415V	3P+⊕	1 NO	<b>151613</b>	1
	600-690V	3P+⊕	1 NO	<b>151614</b>	1

**Equipment included:** 1 63A 3P+⊕ IP67 plug in aluminium alloy. Complete with cable glands. External earthing terminal.  
**Features:** padlockable handle.  
**Note:** special configurations on request.

#### WEB - TUNNEL54

The website dedicated to systems for road, motorway, railway and underground tunnels is available on [www.palazzoli.com](http://www.palazzoli.com)





**Reducers for large-section  
single-pole cables**  
400°C 120'  
850°C 90'  
IP66

M40  
Ø 15-27mm

Line cable cross-section (mm <sup>2</sup> )	Terminals poles/section (mm <sup>2</sup> )	Outer dimensions (mm)	Line cable glands (ømm)	Palazzoli code	Pack Qty
from 50 to 70	3x70	185x252x152	M32 (11-21)	<b>151533</b>	1
from 95 to 120	3x125	252x315x193	M40 (15-27)	<b>151534</b>	1
from 150 to 185	3x200	315x315x193	M40 (15-27)	<b>151535</b>	1

**Features:** provision for internal and external earth connection.  
M40 exit for 3x25mm<sup>2</sup> or 3x16mm<sup>2</sup> cables.

**Notes:** special configurations on request.



**Reducers for large-section  
multi-pole cables**  
400°C 120'  
850°C 90'  
IP66

M40  
Ø 15-27mm

Line cable cross-section (mm <sup>2</sup> )	Terminals poles/section (mm <sup>2</sup> )	Outer dimensions (mm)	Line cable glands (ømm)	Palazzoli code	Pack Qty
50	3x70	185x252x152	M50 (22-35)	<b>151531</b>	1
70	3x70	185x252x152	M63 (35-48)	<b>151532</b>	1

**Features:** provision for internal and external earth connection.  
M40 exit for 3x25mm<sup>2</sup> or 3x16mm<sup>2</sup> cables.

**Notes:** special configurations on request.



**Pair of brackets**  
in AISI 304 stainless steel  
for wall-mounting  
of sockets for fans

Applications	Palazzoli code	Pack Qty
wall-mounting with bracket	<b>151541</b>	1



**Pair of brackets**  
in AISI 304 stainless steel  
for wall-mounting  
of sockets for fans

Applications	Palazzoli code	Pack Qty
for channel L 200mm	<b>151542</b>	1
for channel L 300mm	<b>151543</b>	1



**Kit of screws** in stainless steel  
AISI 304 for **fastening sockets**  
for fans to channel rod

Applications	Palazzoli code	Pack Qty
fixing on channel rod	<b>151544</b>	1



Interlocked socket-outlets  
for fans up to **117kW**  
in enclosure designed  
to accommodate flanges  
50-60Hz **IP66 400°C 120'**

Rated current (A)	Rated operating voltage	Poles	Palazzoli code	Pack Qty
63	400-690V	3P+⊕	<b>151880</b>	1
125	400-690V	3P+⊕	<b>151881</b>	1

**Note:** special configurations on request.



Plugs for fans  
up to **117kW**  
50-60Hz **IP66 400°C 120'**

M32  
Ø 11-21mm

Rated current (A)	Rated operating voltage	Poles	Entry type	Palazzoli code	Pack Qty
63	400-690V	3P+⊕	M32	<b>151890</b>	1
125	400-690V	3P+⊕	M50	<b>151891</b>	1



Supports for ceiling mounting  
of sockets for fans up to  
117kW

Manufacturing material	Palazzoli code	Pack Qty
AISI 304 stainless steel	<b>151900</b>	1

**Features:** complete with adjustable support for ceiling, 50x30mm profile and socket fixing screws.



Flanges in aluminium alloy  
for **multi-pole cables**  
with **cable gland**  
in brass **400°C 120'**  
**850°C 90'**  
**IP66**

Line cable glands	Tightening diameter (mm)	Palazzoli code	Pack Qty
M32	11-21	<b>151930</b>	1
M40	15-27	<b>151931</b>	1
M50	22-35	<b>151932</b>	1
M63	35-48	<b>151933</b>	1

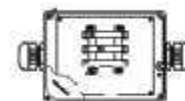


Flanges in aluminium alloy  
for **single-pole cables**  
with **cable gland**  
in brass **400°C 120'**  
**850°C 90'**  
**IP66**

Line cable glands	Tightening diameter (mm)	Palazzoli code	Pack Qty
3 x M25	8-16	<b>151940</b>	1
3 x M32	11-21	<b>151941</b>	1
3 x M40	15-27	<b>151942</b>	1



Line junction boxes  
for power supply lines  
for tunnel fans  
**400°C 120'**  
**850°C 90'**  
**IP66**



Line cable cross-section (mm²)	Terminals poles/section (mm²)	Outer dimensions (mm)	Line cable glands (ømm)	Palazzoli code	Pack Qty
3x10					
3x16	3x25	185x185x105	M40 (15-27)	<b>151553</b>	1
3x25					
3x35	3x40	252x185x152	M40 (15-27)	<b>151564</b>	1
3x50	3x70	252x185x152	M50 (22-35)	<b>151575</b>	1
3x70	3x70	252x185x152	M63 (35-48)	<b>151585</b>	1

**Note:** special configurations on request.









# LIGHTING SECTION



LIGHTING



**LIGHT FIXTURES AND SUSPENSIONS**

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floodlights  
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suspended fixtures  
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**LIGHT FIXTURES AND WELL GLASS FIXTURES**

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light fixtures  
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**RINO**  
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roadway lighting systems  
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**TUNNEL LIGHT FIXTURES**

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**LIGHT FIXTURES AND WELL GLASS FIXTURES FOR MARINE USE**

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 UNAV light fixtures  
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 LED light fixtures  
 for marine use  
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**RINO**  
 fluorescent light fixtures  
 for marine use  
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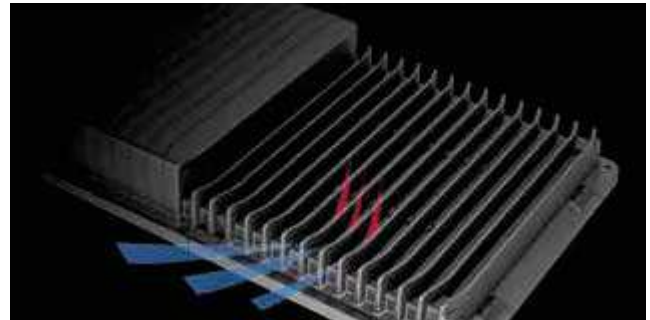
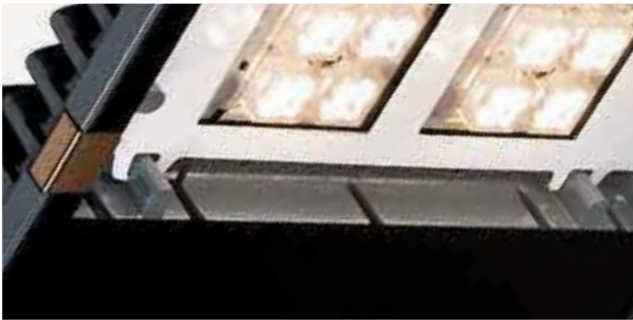
# TIGUA LED





# TIGUA LED

Lighting to save

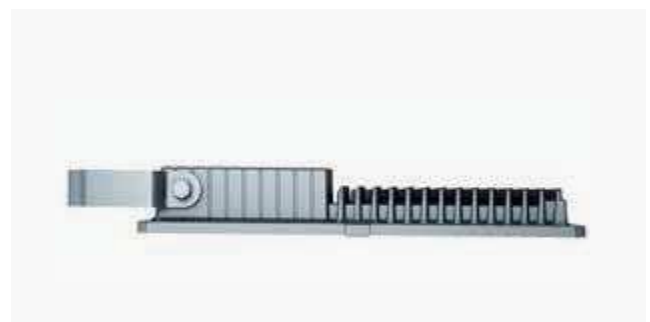


Special measures are taken to achieve a low level of glare. Colour rendering is ensured by the use of light sources with CRI > 80.

The long life of the TIGUA Led is ensured by:

- selected electronic components
- high efficiency dissipating materials
- built-in air recirculation valve
- strict 100% testing with 24 hour burn-in cycles

Tigua LED is free from photobiological risks according to EN 62471.



The use of flicker-free power supplies and the latest generation LEDs enable Tigua LED to achieve an efficiency of more than 110 lumens per watt. Tigua LED is equipped with a connector for a quick connection to the electric grid, without opening the unit.

Tigua LED is very powerful and, at the same time, compact and easy to handle. 6,5 Kg only.

Suitable for use in industrial buildings, warehouses, body shops, rolling mills, thermoelectric power plants, logistics centres, sports facilities, shopping centres, food industries, livestock industry and outdoor areas.



TIGUA LED is the new floodlight by Palazzoli that represents the best solution for the lighting of industrial sites, facades, signs, commercial spaces and green areas. The EN 44300 aluminium alloy body is suitable for maximum resistance in harsh environments. The upper cooling fins and the electronic components used increase the service life of the unit.

Compliance  
with standards

**Directive 2014/35/EU**  
**EN 60598-1**  
**EN 60598-2-1**  
**EN 60598-2-5**  
**EN 60598-2-22**  
**EN 62471**  
**EN 62493**  
**IEC/TR 62778**  
**Directive 2014/30/EU**  
**EN 55015**  
**EN 61547**  
**EN 61000-3-2**  
**EN 61000-3-3**  
**Directive 2011/65/EU**  
**EN 50581**  
**DIN 18032-3**  
**EN 13964 Annex D**  
**EN 60598-2-24**

Body material	<b>EN 44300 die-cast aluminium</b>
Surface treatment	<b>Fluoro-zirconium treatment</b>
Diffuser material	<b>Extra clear tempered glass</b>
Protection rating (IP according to IEC/EN 60529)	<b>IP66</b>
Paint	<b>Hot-polymerised non-toxic polyester</b>
Colour	<b>RAL 7011</b>
Impact resistance (IK rating according to IEC/EN 62262)	<b>IK08</b>
Corrosion class	<b>C4 according to ISO 9223</b>
Weight	<b>6.5 kg</b>
Device tilting angle	<b>-135° to +135°</b>
LED device efficiency	<b>≥ 110lm/W</b>
Colour temperature	<b>4000K (other temperatures on request)</b>
CRI	<b>≥ 80</b>
Insulation class	<b>II</b>
Supply voltage	<b>200-240 V 50-60 Hz</b>
Input surge protection	<b>8 kV common mode 6 kV differential mode EN 61000</b>
Residual flicker	<b>&lt; 1%</b>
Photobiological risk	<b>Exempt</b>
Power factor	<b>≥ 0.95</b>
Max conductor cross-section	<b>1.5 mm<sup>2</sup></b>
Entry cable diameter	<b>7-13 mm</b>
Estimated device lifetime	<b>L80 B20 @ 100,000h Tq= -30 °C to +40 °C</b>
Storage temperature	<b>-40 °C - +70 °C</b>
Operating temperature	<b>-30°C to +40°C (up to +55°C or other special configurations on request)</b>

The photometric curves (LDT files) are available on [www.palazzolilux.com](http://www.palazzolilux.com)



Professional LED floodlights  
**symmetrical extra wide beam optics**  
**IP66**

No. of LEDs	Device power (W)	Rated flux (lm) Tj= 25 °C	Version	Photometric curves	Palazzoli code	Pack Qty
8	67	9250	standard on-off	34	<b>817008</b>	1
12	99	13875		34	<b>817012</b>	1
16	132	18500		34	<b>817016</b>	1
20	164	23125		34	<b>817020</b>	1
24	196	27750		34	<b>817024</b>	1

**Equipment included:** wall-mounting bracket. Power supply with 2P quick connector.  
**Notes:** the stated values may be subject to a +/- 7% tolerance.

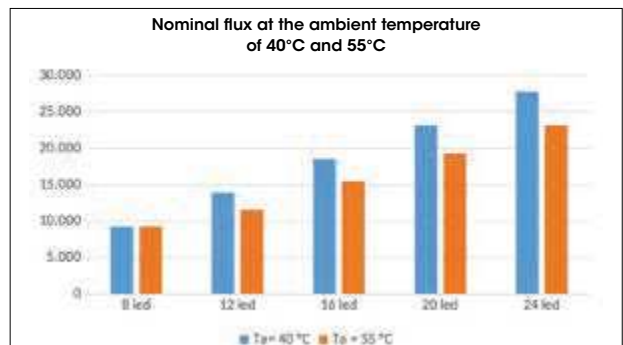
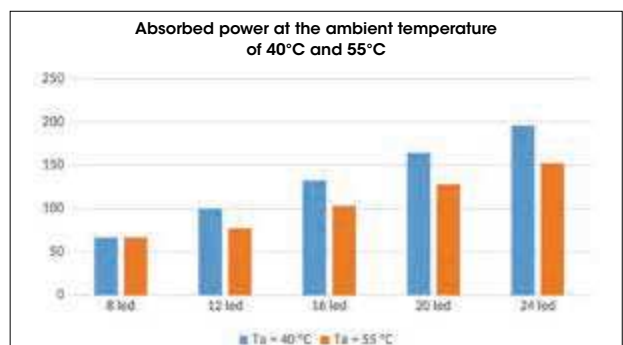


Professional LED floodlights  
**symmetrical narrow beam optics**  
**IP66**

No. of LEDs	Device power (W)	Rated flux (lm) Tj= 25 °C	Version	Photometric curves	Palazzoli code	Pack Qty
8	67	9250	standard on-off	2	<b>817058</b>	1
12	99	13875		2	<b>817062</b>	1
16	132	18500		2	<b>817066</b>	1
20	155	23125		2	<b>817070</b>	1
24	188	27750		2	<b>817074</b>	1

**Equipment included:** wall-mounting bracket. Power supply with 2P quick connector.  
**Notes:** the stated values may be subject to a +/- 7% tolerance.

**POWER AND FLUX AT 40°C AND 55°C**







Professional LED floodlights  
**asymmetrical extra wide beam optics**  
IP66

No. of LEDs	Device power (W)	Rated flux (lm) Tj= 25 °C	Version	Photometric curves	Palazzoli code	Pack Qty
8	67	9250	standard on-off	3	<b>817108</b>	1
12	99	13875		3	<b>817112</b>	1
16	132	18500		3	<b>817116</b>	1
20	155	23125		3	<b>817120</b>	1
24	188	27750		3	<b>817124</b>	1

**Equipment included:** wall-mounting bracket. Power supply with 2P quick connector.  
**Notes:** the stated values may be subject to a +/- 7% tolerance.



Professional LED floodlights  
**asymmetrical narrow beam optics**  
IP66

No. of LEDs	Device power (W)	Rated flux (lm) Tj= 25 °C	Version	Photometric curves	Palazzoli code	Pack Qty
8	67	9250	standard on-off	4	<b>817158</b>	1
12	99	13875		4	<b>817162</b>	1
16	132	18500		4	<b>817166</b>	1
20	155	23125		4	<b>817170</b>	1
24	188	27750		4	<b>817174</b>	1

**Equipment included:** wall-mounting bracket. Power supply with 2P quick connector.  
**Notes:** the stated values may be subject to a +/- 7% tolerance.



Professional LED floodlights  
**roadway wide beam optics**  
IP66

No. of LEDs	Device power (W)	Rated flux (lm) Tj= 25 °C	Version	Photometric curves	Palazzoli code	Pack Qty
8	67	9250	standard on-off	5	<b>817208</b>	1
12	99	13875		5	<b>817212</b>	1
16	132	18500		5	<b>817216</b>	1
20	155	23125		5	<b>817220</b>	1
24	188	27750		5	<b>817224</b>	1

**Equipment included:** wall-mounting bracket. Power supply with 2P quick connector.  
**Notes:** the stated values may be subject to a +/- 7% tolerance.



**Protection grid**  
for floodlights  
of the Tigua LED series

Manufacturing material	Palazzoli code	Pack Qty
galvanised steel	<b>811911</b>	1



**Universal mount**  
for pole head installation  
and pole projecting arm  
bracket Ø 60 mm  
and Ø 76 mm

Manufacturing material	Palazzoli code	Pack Qty
painted galvanised steel	<b>811908</b>	1



**Projecting arm mounting bracket**  
750 mm projection

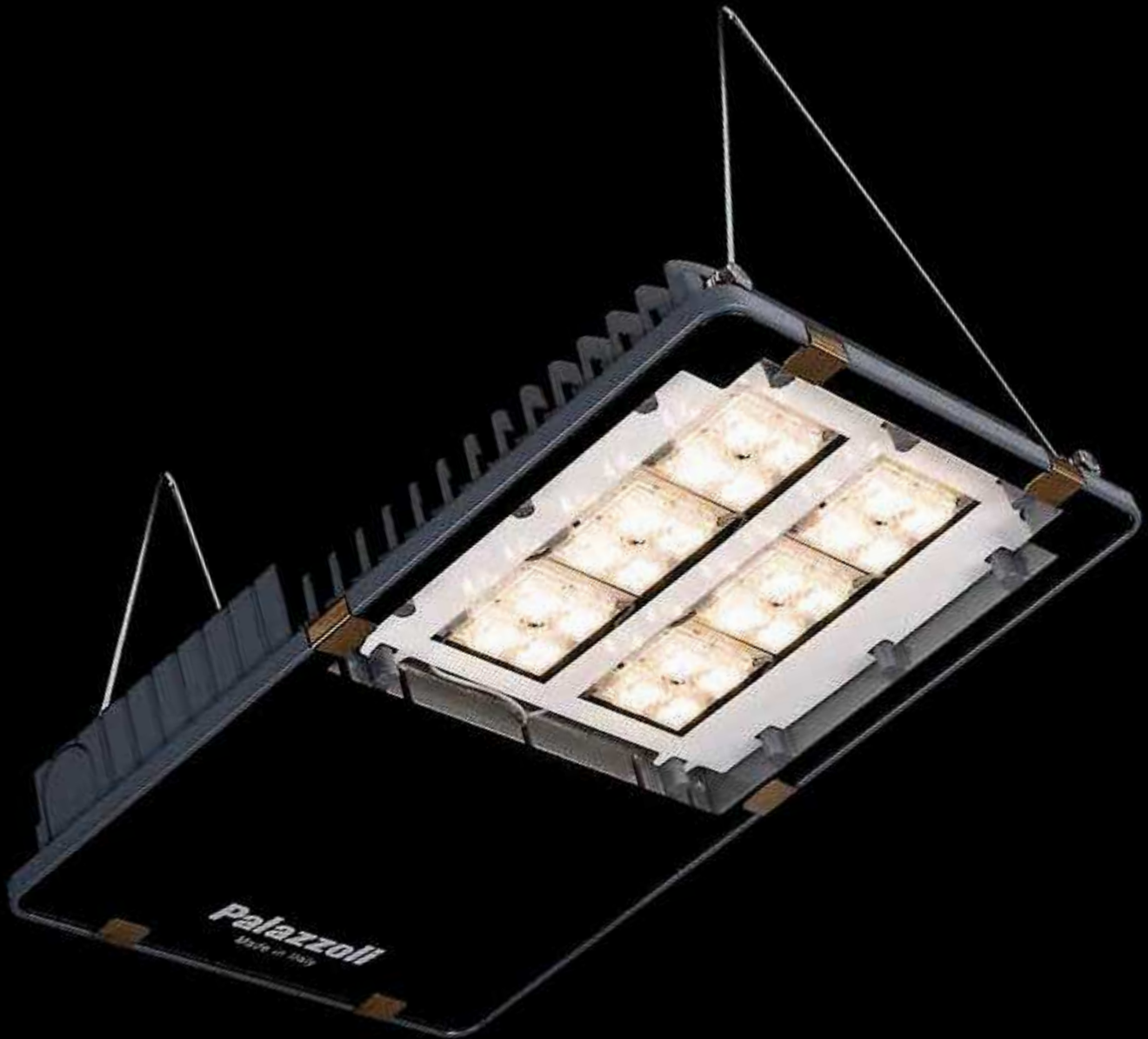
Manufacturing material	Palazzoli code	Pack Qty
painted galvanised steel	<b>811914</b>	1



**Kit** consisting  
of collar and plate  
for Ø 60 mm to Ø 80 mm  
pole mounting

Manufacturing material	Palazzoli code	Pack Qty
painted galvanised steel	<b>811912</b>	1

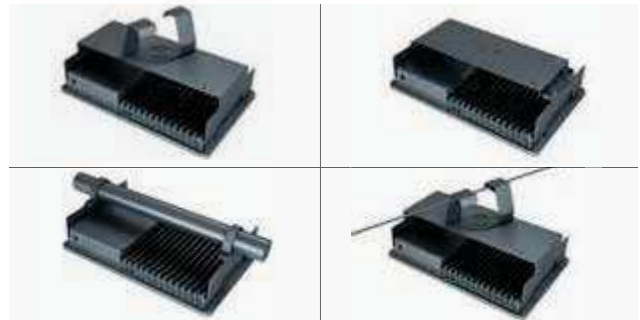
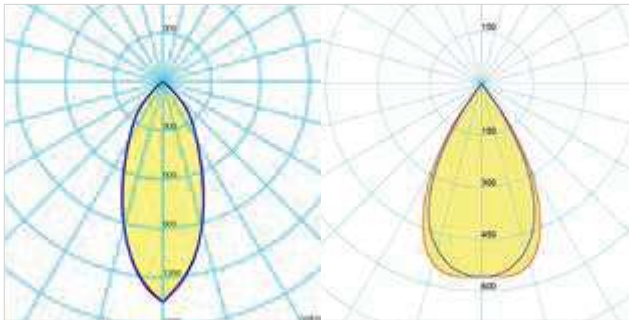
# TIGUA LED





# TIGUA LED

Lighting to save



The versatility of the available optics guarantees the ideal solution for every application.

Complete range of accessories available for adjustable bracket mounting, ceiling mounting, horizontal pole mounting and catenary cable mounting.

Tigua LED is free from photobiological risks according to EN 62471.



The extra clear tempered glass diffuser is suitable for lighting commercial and industrial areas. The polycarbonate diffuser, in compliance with HACCP standards, is suitable for applications in food environments.

The expected lifetime is 120,000 hours: over 10 years with 8 hours of light per day.

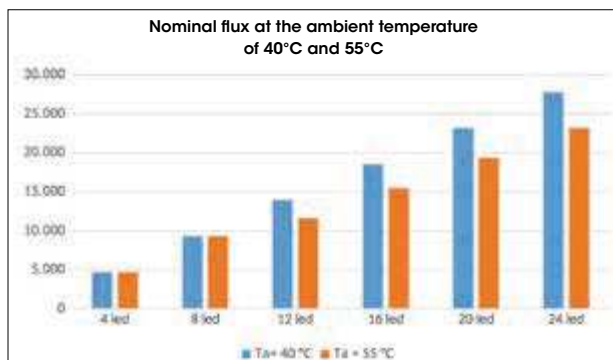
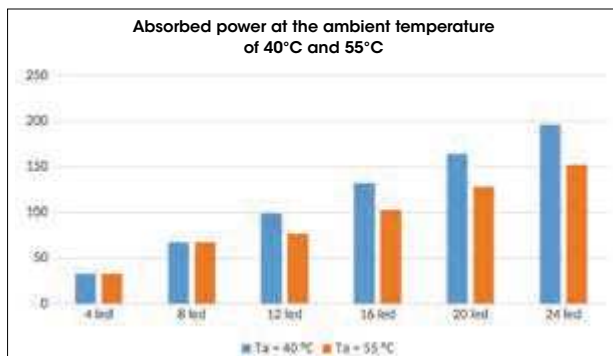
Suitable for use in industrial buildings, warehouses, body shops, rolling mills, thermoelectric power plants, logistics centres, sports facilities, shopping centres, food industries and livestock industry.

TIGUA LED is the best solution for lighting commercial and industrial areas.

The body is in die-cast aluminium EN 44300 with a very low copper content and anti-corrosion treatment for maximum resistance in harsh environments.

The upper cooling fins and the electronic components used increase the service life of the unit.

**POWER AND FLUX AT 40°C AND 55°C**



Compliance with standards	<b>Directive 2014/35/EU</b> <b>EN 60598-1</b> <b>EN 60598-2-1</b> <b>EN 60598-2-5</b> <b>EN 60598-2-22</b> <b>EN 62471</b> <b>EN 62493</b> <b>IEC/TR 62778</b> <b>Directive 2014/30/EU</b> <b>EN 55015</b> <b>EN 61547</b> <b>EN 61000-3-2</b> <b>EN 61000-3-3</b> <b>Directive 2011/65/EU</b> <b>EN 50581</b> <b>DIN 18032-3</b> <b>EN 13964 Annex D</b> <b>EN 60598-2-24</b>
Body material	<b>EN 44300 die-cast aluminium</b>
Surface treatment	<b>Fluoro-zirconium treatment</b>
Diffuser material	<b>Extra clear tempered glass or polycarbonate</b>
Protection rating (IP according to IEC/EN 60529)	<b>IP66</b>
Paint	<b>Hot-polymerised non-toxic polyester</b>
Colour	<b>RAL 7011</b>
Impact resistance (IK rating according to IEC/EN 62262)	<b>IK08</b>
Corrosion class	<b>C4 according to ISO 9223</b>
Weight	<b>6.5 kg</b>
LED device efficiency	<b>≥ 110 lm/W</b>
Colour temperature	<b>4000K</b> <b>(other temperatures on request)</b>
CRI	<b>≥ 80</b>
Insulation class	<b>I</b>
Supply voltage	<b>200-240 V 50-60 Hz</b>
Input surge protection	<b>8 kV common mode</b> <b>6 kV differential mode</b> <b>EN 61000 (10kV on request)</b>
Residual flicker	<b>&lt; 1%</b>
Photobiological risk	<b>Exempt</b>
Glare index	<b>UGR ≤ 22</b>
Power factor	<b>≥ 0.95</b>
Max conductor cross-section	<b>1.5 mm<sup>2</sup></b>
Entry cable diameter	<b>7-13 mm</b>
Emergency battery lifetime	<b>1-3 h</b>
Emergency battery charging time	<b>30 h</b>
Estimated device lifetime	<b>L80 B20 @ 120.000h</b> <b>Tq= -30 °C to +40 °C</b>
Storage temperature	<b>-40 °C - +70 °C</b>
Operating temperature	<b>-30°C to +40°C</b> <b>(up to +55°C or other special configurations on request)</b>

The photometric curves (LDT files) are available on [www.palazzolilux.com](http://www.palazzolilux.com)





Suspension  
LED light fixtures  
**glass diffuser**  
**extra wide beam optics**  
**IP66**

No. of LEDs	Device power (W)	Rated flux (lm) Tj= 25 °C	Version	Photometric curves	Palazzoli code	Pack Qty
4	33	4625	dimmable standard 1-10 V	34	<b>817304</b>	1
8	67	9250		34	<b>817308</b>	1
12	99	13875		34	<b>817312</b>	1
16	132	18500		34	<b>817316</b>	1
20	164	23125		34	<b>817320</b>	1
24	196	27750		34	<b>817324</b>	1
4	33	4625	emergency	34	<b>817305</b>	1
8	67	9250		34	<b>817309</b>	1
12	99	13875		34	<b>817313</b>	1
16	132	18500		34	<b>817317</b>	1
20	164	23125		34	<b>817321</b>	1
24	196	27750		34	<b>817325</b>	1

**Equipment included:** double chain bracket and busbar. Power supply with 5P quick connector (2 connectors for the versions in emergency).

**Features:** typical installation height between 4 and 7 m.

**Notes:** the stated values may be subject to a +/- 7% tolerance.  
Other DALI or wireless control systems are available on request.



Suspension  
LED light fixtures  
**glass diffuser**  
**narrow beam optics**  
**IP66**

No. of LEDs	Device power (W)	Rated flux (lm) Tj= 25 °C	Version	Photometric curves	Palazzoli code	Pack Qty
4	33	4625	dimmable standard 1-10 V	2	<b>817404</b>	1
8	67	9250		2	<b>817408</b>	1
12	99	13875		2	<b>817412</b>	1
16	132	18500		2	<b>817416</b>	1
20	155	23125		2	<b>817420</b>	1
24	188	27750		2	<b>817424</b>	1
4	33	4625	emergency	2	<b>817405</b>	1
8	67	9250		2	<b>817409</b>	1
12	99	13875		2	<b>817413</b>	1
16	132	18500		2	<b>817417</b>	1
20	155	23125		2	<b>817421</b>	1
24	188	27750		2	<b>817425</b>	1

**Equipment included:** double chain bracket and busbar. Power supply with 5P quick connector (2 connectors for the versions in emergency).

**Features:** typical installation height over 6 m.

**Notes:** the stated values may be subject to a +/- 7% tolerance.  
Other DALI or wireless control systems are available on request.



Suspension  
LED light fixtures  
**glass diffuser**  
**medium beam optics**  
**IP66**

No. of LEDs	Device power (W)	Rated flux (lm) Tj= 25 °C	Version	Photometric curves	Palazzoli code	Pack Qty
4	33	4625	dimmable standard 1-10 V	6	<b>817354</b>	1
8	67	9250		6	<b>817358</b>	1
12	99	13875		6	<b>817362</b>	1
16	132	18500		6	<b>817366</b>	1
20	155	23125		6	<b>817370</b>	1
24	188	27750		6	<b>817374</b>	1
4	33	4625	emergency	6	<b>817355</b>	1
8	67	9250		6	<b>817359</b>	1
12	99	13875		6	<b>817363</b>	1
16	132	18500		6	<b>817367</b>	1
20	155	23125		6	<b>817371</b>	1
24	188	27750		6	<b>817375</b>	1

**Equipment included:** double chain bracket and busbar. Power supply with 5P quick connector (2 connectors for the versions in emergency).

**Features:** typical installation height between 5 and 8 m.

**Notes:** the stated values may be subject to a +/- 7% tolerance.  
Other DALI or wireless control systems are available on request.



Suspension  
LED light fixtures  
**glass diffuser**  
**elliptical beam optics**  
**IP66**

No. of LEDs	Device power (W)	Rated flux (lm) Tj= 25 °C	Version	Photometric curves	Palazzoli code	Pack Qty
4	33	4625	dimmable standard 1-10 V	7	<b>817454</b>	1
8	67	9250		7	<b>817458</b>	1
12	99	13875		7	<b>817462</b>	1
16	132	18500		7	<b>817466</b>	1
20	164	23125		7	<b>817470</b>	1
24	196	27750		7	<b>817474</b>	1
4	33	4625	emergency	7	<b>817455</b>	1
8	67	9250		7	<b>817459</b>	1
12	99	13875		7	<b>817463</b>	1
16	132	18500		7	<b>817467</b>	1
20	164	23125		7	<b>817471</b>	1
24	196	27750		7	<b>817475</b>	1

**Equipment included:** double chain bracket and busbar. Power supply with 5P quick connector (2 connectors for the versions in emergency).

**Features:** suitable for installation between the aisles of industrial warehouses etc..

**Notes:** the stated values may be subject to a +/- 7% tolerance.  
Other DALI or wireless control systems are available on request.



**EMERGENCY** When using emergency light fixtures on standard lines, the following kit is required:  
code 811923 for 1h; or code 811924 for 3h.





Suspension LED light fixtures  
**HACCP-compliant**  
**polycarbonate diffuser**  
**extra wide beam optics**  
**IP66**

No. of LEDs	Device power (W)	Rated flux (lm) Tj= 25 °C	Version	Photometric curves	Palazzoli code	Pack Qty
4	33	4625	dimmable standard 1-10 V	34	<b>817504</b>	1
8	67	9250		34	<b>817508</b>	1
12	99	13875		34	<b>817512</b>	1
16	132	18500		34	<b>817516</b>	1
20	164	23125		34	<b>817520</b>	1
24	196	27750		34	<b>817524</b>	1
4	33	4625	emergency	34	<b>817505</b>	1
8	67	9250		34	<b>817509</b>	1
12	99	13875		34	<b>817513</b>	1
16	132	18500		34	<b>817517</b>	1
20	164	23125		34	<b>817521</b>	1
24	196	27750		34	<b>817525</b>	1

**Equipment included:** double chain bracket and busbar. Power supply with 5P quick connector (2 connectors for the versions in emergency).  
**Features:** typical installation height between 4 and 7 m.  
**Notes:** the stated values may be subject to a +/- 7% tolerance. Other DALI or wireless control systems are available on request.



Suspension LED light fixtures  
**HACCP-compliant**  
**for food industry**  
**polycarbonate diffuser**  
**narrow beam optics**  
**IP66**

No. of LEDs	Device power (W)	Rated flux (lm) Tj= 25 °C	Version	Photometric curves	Palazzoli code	Pack Qty
4	33	4625	dimmable standard 1-10 V	2	<b>817604</b>	1
8	67	9250		2	<b>817608</b>	1
12	99	13875		2	<b>817612</b>	1
16	132	18500		2	<b>817616</b>	1
20	155	23125		2	<b>817620</b>	1
24	188	27750		2	<b>817624</b>	1
4	33	4625	emergency	2	<b>817605</b>	1
8	67	9250		2	<b>817609</b>	1
12	99	13875		2	<b>817613</b>	1
16	132	18500		2	<b>817617</b>	1
20	155	23125		2	<b>817621</b>	1
24	188	27750		2	<b>817625</b>	1

**Equipment included:** double chain bracket and busbar. Power supply with 5P quick connector (2 connectors for the versions in emergency).  
**Features:** typical installation height over 6 m.  
**Notes:** the stated values may be subject to a +/- 7% tolerance. Other DALI or wireless control systems are available on request.



Suspension LED light fixtures  
**HACCP-compliant**  
**for food industry**  
**polycarbonate diffuser**  
**medium beam optics**  
**IP66**

No. of LEDs	Device power (W)	Rated flux (lm) Tj= 25 °C	Version	Photometric curves	Palazzoli code	Pack Qty
4	33	4625	dimmable standard 1-10 V	6	<b>817554</b>	1
8	67	9250		6	<b>817558</b>	1
12	99	13875		6	<b>817562</b>	1
16	132	18500		6	<b>817566</b>	1
20	155	23125		6	<b>817570</b>	1
24	188	27750		6	<b>817574</b>	1
4	33	4625	emergency	6	<b>817555</b>	1
8	67	9250		6	<b>817559</b>	1
12	99	13875		6	<b>817563</b>	1
16	132	18500		6	<b>817567</b>	1
20	155	23125		6	<b>817571</b>	1
24	188	27750		6	<b>817575</b>	1

**Equipment included:** double chain bracket and busbar. Power supply with 5P quick connector (2 connectors for the versions in emergency).  
**Features:** typical installation height between 5 and 8 m.  
**Notes:** the stated values may be subject to a +/- 7% tolerance. Other DALI or wireless control systems are available on request.



Suspension LED light fixtures  
**HACCP-compliant**  
**for food industry**  
**polycarbonate diffuser**  
**elliptical beam optics**  
**IP66**

No. of LEDs	Device power (W)	Rated flux (lm) Tj= 25 °C	Version	Photometric curves	Palazzoli code	Pack Qty
4	33	4625	dimmable standard 1-10 V	7	<b>817654</b>	1
8	67	9250		7	<b>817658</b>	1
12	99	13875		7	<b>817662</b>	1
16	132	18500		7	<b>817666</b>	1
20	164	23125		7	<b>817670</b>	1
24	196	27750		7	<b>817674</b>	1
4	33	4625	emergency	7	<b>817655</b>	1
8	67	9250		7	<b>817659</b>	1
12	99	13875		7	<b>817663</b>	1
16	132	18500		7	<b>817667</b>	1
20	164	23125		7	<b>817671</b>	1
24	196	27750		7	<b>817675</b>	1

**Equipment included:** double chain bracket and busbar. Power supply with 5P quick connector (2 connectors for the versions in emergency).  
**Features:** suitable for installation between the aisles of warehouses.  
**Notes:** the stated values may be subject to a +/- 7% tolerance. Other DALI or wireless control systems are available on request.



**EMERGENCY** When using emergency light fixtures on standard lines, the following kit is required:  
code 811923 for 1h; or code 811924 for 3h.



**Emergency kit**

Manufacturing material	Emergency duration	Palazzoli code	Pack Qty
aluminium alloy box and galvanised steel bracket	1h	<b>811923</b>	1
	3h	<b>811924</b>	1

**Equipment included:** the emergency kit comes complete with junction box, battery and inverter and interface bracket.

**Features:** 1 M20 entry and 1 exit with connector.

**Notes:** the interface bracket is suitable for a double fixed chain connection.

When performing the horizontal pole mounting, adjustable mounting and ceiling mounting, the emergency kit must be mounted close to the unit (max. 1.5 m).



**0 - 90° adjustable bracket for mounting on double chain**

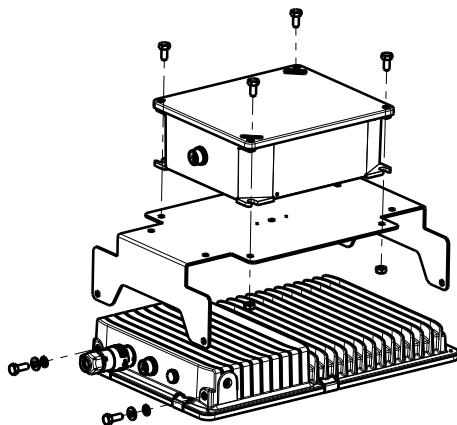
Manufacturing material	Palazzoli code	Pack Qty
galvanised steel	<b>811919</b>	1



**Kit with bracket for ceiling mounting**

Manufacturing material	Palazzoli code	Pack Qty
galvanised steel	<b>811916</b>	1

**MOUNTING THE EMERGENCY KIT ON THE LIGHT FIXTURE**



**Set of bracket for horizontal pole mounting**  
Ø 60 mm

Manufacturing material	Palazzoli code	Pack Qty
galvanised steel	<b>811920</b>	1

**EMERGENCY FLUX**

Rated flux (lm) Tj= 25 °C	Rated flux in emergency 1-3 h (lm)
4625	995
9250	
13875	
18500	
23125	
27750	

**Notes:** the emergency flux is obtained with a dedicated LED source.



**0 - 90° adjustable bracket for mounting on catenary cable**

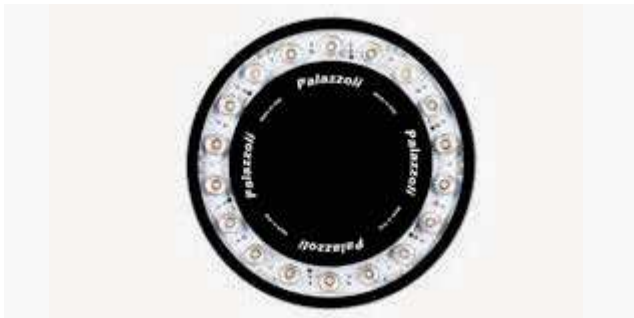
Manufacturing material	Palazzoli code	Pack Qty
galvanised steel	<b>811921</b>	1

# MITO LED



# MITO LED

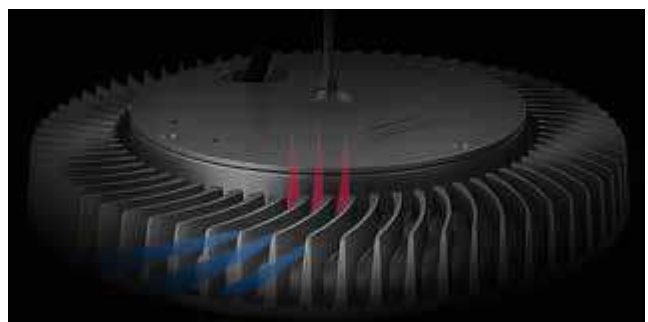
Lighting to save



Thanks to the rotosymmetrical photometry, with the LEDs placed on the perimeter, the devices are always aligned.

Thanks to easy and quick suspension connection, installation times are short.

MITO LED is free from photobiological risks according to EN 62471.

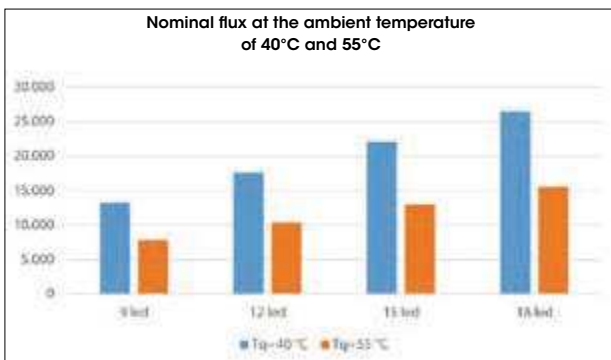
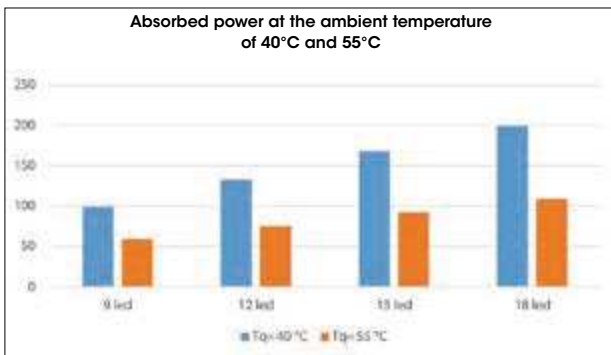


Thanks to the external connector, it is not necessary to open the device during the relamping phases.

High heat dissipation and the built-in air recirculation valve ensure a long lifetime of the electronic devices.

Suitable for use in industrial buildings, warehouses, body shops, rolling mills, thermoelectric power plants, logistics centres, sports facilities, shopping centres, food industries, livestock industry and outdoor areas.

MITO LED guarantees specific lighting and mechanical characteristics for installation in industrial environments, food industries, sports facilities and outdoor areas. The body is made of die-cast aluminium with anti-corrosion treatment, finished with a scratch-resistant powder coating. The diffuser, made of extra-clear tempered glass with 4 mm thickness, guarantees maximum resistance in harsh environments with chemical substances. The polycarbonate diffuser makes the appliance suitable for use in food industries that comply with HACCP standards.

**POWER AND FLUX AT 40°C AND 55°C**


Compliance with standards	<b>Directive 2014/35/EU</b> <b>EN 60598-1</b> <b>EN 60598-2-1</b> <b>EN 60598-2-5</b> <b>EN 60598-2-22</b> <b>EN 62471</b> <b>EN 62493</b> <b>IEC/TR 62778</b> <b>Directive 2014/30/EU</b> <b>EN 55015</b> <b>EN 61547</b> <b>EN 61000-3-2</b> <b>EN 61000-3-3</b> <b>Directive 2011/65/EU</b> <b>EN 50581</b> <b>DIN 18032-3</b> <b>EN 13964 Annex D</b> <b>EN 60598-2-24</b>
Body material	<b>EN 46100 aluminium alloy</b>
Surface treatment	<b>Fluoro-zirconium treatment</b>
Diffuser material	<b>Extra clear tempered glass or polycarbonate</b>
Protection rating (IP according to IEC/EN 60529)	<b>IP66/IP67</b>
Paint	<b>Hot-polymerised non-toxic polyester</b>
Colour	<b>RAL 7011</b>
Impact resistance (IK rating according to IEC/EN 62262)	<b>IK08</b>
Corrosion class	<b>C3 according to ISO9223</b>
Weight	<b>max 9.5 kg</b>
LED device efficiency	<b>≥ 106 lm/W</b>
Colour temperature	<b>4000K</b> (other temperatures on request)
CRI	<b>≥ 80</b>
Insulation class	<b>I (II on request)</b>
Supply voltage	<b>200-240 V 50-60 Hz</b>
Input surge protection	<b>10kV common mode</b> <b>6 kV differential mode</b> <b>EN 61000</b>
Residual flicker	<b>&lt; 1%</b>
Photobiological risk	<b>Exempt</b>
Glare index	<b>UGR ≤ 22</b>
Power factor	<b>≥ 0.95</b>
Max conductor cross-section	<b>1.5 mm<sup>2</sup></b>
Entry cable diameter	<b>7-13 mm</b>
Emergency battery lifetime	<b>1-3 h</b>
Emergency battery charging time	<b>30 h</b>
Estimated device lifetime	<b>L80 B20 @110.000h</b> <b>Tq= -30 °C to +40 °C</b>
Storage temperature	<b>-40 °C - +70 °C</b>
Operating temperature	<b>-30°C to +40°C</b> (up to +55°C or other special configurations on request)

The photometric curves (LDT files) are available on [www.palazzolilux.com](http://www.palazzolilux.com)







Suspension LED light fixtures **glass diffuser**  
**roto-symmetrical**  
**extra wide beam optics**  
**IP66/IP67**

No. of LEDs	Device power (W)	Rated flux (lm) Tj= 25 °C	Version	Photometric curves	Palazzoli code	Pack Qty
9	99	13230	1-10 V dimmable standard	1	<b>810090</b>	1
12	133	17640		1	<b>810020</b>	1
15	168	22050		1	<b>810050</b>	1
18	199	26460		1	<b>810080</b>	1
9	99	13230	emergency	1	<b>810190</b>	1
12	133	17640		1	<b>810120</b>	1
15	168	22050		1	<b>810150</b>	1
18	199	26460		1	<b>810180</b>	1

**Equipment included:** quick connection for suspension. Power supply with 5P quick connector (2 connectors for the versions in emergency).

**Features:** UGR>22. Typical installation height between 5 and 9 m.



Suspension LED light fixtures **HACCP-compliant**  
for food industry  
**polycarbonate diffuser**  
**roto-symmetrical**  
**extra wide beam optics**  
**IP66/IP67**

No. of LEDs	Device power (W)	Rated flux (lm) Tj= 25 °C	Version	Photometric curves	Palazzoli code	Pack Qty
9	99	13230	1-10 V dimmable standard	1	<b>810093</b>	1
12	133	17640		1	<b>810023</b>	1
15	168	22050		1	<b>810053</b>	1
18	199	26460		1	<b>810083</b>	1
9	99	13230	emergency	1	<b>810193</b>	1
12	133	17640		1	<b>810123</b>	1
15	168	22050		1	<b>810153</b>	1
18	199	26460		1	<b>810183</b>	1

**Equipment included:** quick connection for suspension. Power supply with 5P quick connector (2 connectors for the versions in emergency).

**Features:** UGR>22. Typical installation height between 5 and 9 m.



Suspension LED light fixtures **glass diffuser**  
**roto-symmetrical narrow**  
**beam optics**  
**IP66/IP67**

No. of LEDs	Device power (W)	Rated flux (lm) Tj= 25 °C	Version	Photometric curves	Palazzoli code	Pack Qty
9	99	13230	1-10 V dimmable standard	2	<b>810091</b>	1
12	133	17640		2	<b>810021</b>	1
15	168	22050		2	<b>810051</b>	1
18	199	26460		2	<b>810081</b>	1
9	99	13230	emergency	2	<b>810191</b>	1
12	133	17640		2	<b>810121</b>	1
15	168	22050		2	<b>810151</b>	1
18	199	26460		2	<b>810181</b>	1

**Equipment included:** quick connection for suspension. Power supply with 5P quick connector (2 connectors for the versions in emergency).

**Features:** typical installation height over 9 m.



Suspension LED light fixtures **HACCP-compliant**  
for food industry  
**polycarbonate diffuser**  
**roto-symmetrical**  
**narrow beam optics**  
**IP66/IP67**

No. of LEDs	Device power (W)	Rated flux (lm) Tj= 25 °C	Version	Photometric curves	Palazzoli code	Pack Qty
9	99	13230	1-10 V dimmable standard	2	<b>810094</b>	1
12	133	17640		2	<b>810024</b>	1
15	168	22050		2	<b>810054</b>	1
18	199	26460		2	<b>810084</b>	1
9	99	13230	emergency	2	<b>810194</b>	1
12	133	17640		2	<b>810124</b>	1
15	168	22050		2	<b>810154</b>	1
18	199	26460		2	<b>810184</b>	1

**Equipment included:** quick connection for suspension. Power supply with 5P quick connector (2 connectors for the versions in emergency).

**Features:** typical installation height over 9 m.



Suspension LED light fixtures **glass diffuser**  
**elliptical beam optics**  
**IP66/IP67**

No. of LEDs	Device power (W)	Rated flux (lm) Tj= 25 °C	Version	Photometric curves	Palazzoli code	Pack Qty
9	99	13230	1-10 V dimmable standard	8	<b>810092</b>	1
12	133	17640		8	<b>810022</b>	1
15	168	22050		8	<b>810052</b>	1
18	199	26460		8	<b>810082</b>	1
9	99	13230	emergency	8	<b>810192</b>	1
12	133	17640		8	<b>810122</b>	1
15	168	22050		8	<b>810152</b>	1
18	199	26460		8	<b>810182</b>	1

**Equipment included:** connection with double chain bracket. Power supply with 5P quick connector (2 connectors for the versions in emergency).

**Features:** suitable for installation between the aisles of warehouses.



Suspension LED light fixtures **HACCP-compliant**  
for food industry  
**polycarbonate diffuser**  
**elliptical beam optics**  
**IP66/IP67**

No. of LEDs	Device power (W)	Rated flux (lm) Tj= 25 °C	Version	Photometric curves	Palazzoli code	Pack Qty
9	99	13230	1-10 V dimmable standard	8	<b>810095</b>	1
12	133	17640		8	<b>810025</b>	1
15	168	22050		8	<b>810055</b>	1
18	199	26460		8	<b>810085</b>	1
9	99	13230	emergency	8	<b>810195</b>	1
12	133	17640		8	<b>810125</b>	1
15	168	22050		8	<b>810155</b>	1
18	199	26460		8	<b>810185</b>	1

**Equipment included:** connection with double chain bracket. Power supply with 5P quick connector (2 connectors for the versions in emergency).

**Features:** suitable for installation between the aisles of warehouses.

**Common notes:** the stated values may be subject to a +/- 7% tolerance. Other DALI or wireless control systems are available on request.



**EMERGENCY** When using emergency light fixtures on standard lines, the following kit is required:  
code 810992 for 1h; or code 810991 for 3h.



CONNECTOR

**Emergency kit**

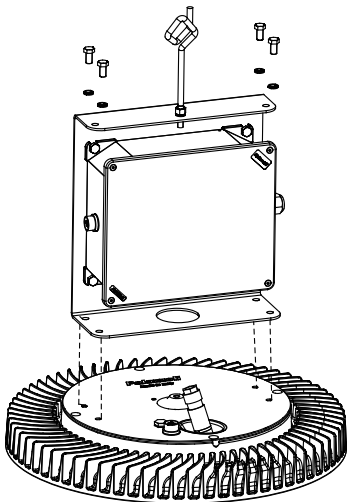
Manufacturing material	Emergency duration	Palazzoli code	Pack Qty
aluminium alloy	1h	<b>810992</b>	1
	3h	<b>810991</b>	1

**Equipment included:** the emergency kit comes complete with junction box, battery and inverter and interface bracket.

**Features:** 1 M20 entry and 1 exit with connector.

**Notes:** the interface bracket is suitable for a double fixed chain connection and for quick suspension connection. When performing the horizontal pole mounting, adjustable mounting, ceiling mounting and adjustable bracket mounting, the emergency kit must be mounted close to the unit (max. 1.5 m).

**MOUNTING THE EMERGENCY KIT ON THE LIGHT FIXTURE**



**EMERGENCY FLUX**

Rated flux (lm) Tj= 25 °C	Rated flux in emergency 1-3 h (lm)
13230	967
17640	
22050	
26460	

**Notes:** the emergency flux is obtained with a LED source dedicated for extra wide beam light distribution.



**Pair of brackets for mounting on double chain and busbar**

Manufacturing material	Palazzoli code	Pack Qty
galvanised steel	<b>810997</b>	1



**0 - 90° adjustable bracket for mounting on double chain**

Manufacturing material	Palazzoli code	Pack Qty
galvanised steel	<b>810996</b>	1



**Kit with bracket for ceiling mounting**

Manufacturing material	Palazzoli code	Pack Qty
galvanised steel	<b>810998</b>	1



**Set of brackets for horizontal pole mounting Ø 60 mm**

Manufacturing material	Palazzoli code	Pack Qty
galvanised steel	<b>810995</b>	1



**Adjustable bracket for wall-mounting pole mounting and light tower mounting**

Manufacturing material	Palazzoli code	Pack Qty
painted galvanised steel	<b>810999</b>	1



**0 - 90° adjustable bracket for mounting on catenary cable**

Manufacturing material	Palazzoli code	Pack Qty
galvanised steel	<b>810994</b>	1



LED floodlights **asymmetrical narrow beam optics IP66/IP67**

No. of LEDs	Device power (W)	Rated flux (lm)	Version	Photometric curves	Palazzoli code	Pack Qty
9	99	13230	1-10 V dimmable standard	4	<b>810296</b>	1
12	133	17640		4	<b>810226</b>	1
15	168	22050		4	<b>810256</b>	1
18	199	26460		4	<b>810286</b>	1

**Equipment included:** adjustable bracket for wall-mounting or mounting on load-bearing structures (poles, light towers).  
Power supply with 5P quick connector.

**Features:** suitable for illuminating outdoor areas and sports facilities.

**Notes:** the stated values may be subject to a +/- 7% tolerance.



**Universal mount for pole head installation**  
for Ø 60 mm and Ø 76 mm poles

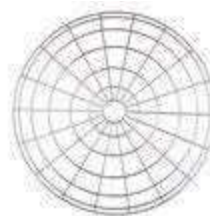
Manufacturing material	Palazzoli code	Pack Qty
painting galvanised steel	<b>811908</b>	1



**Kit consisting of collar and plate**  
for Ø 60 mm to Ø 80 mm pole mounting

Manufacturing material	Palazzoli code	Pack Qty
painting galvanised steel	<b>811912</b>	1

**COMMON ACCESSORY**



**Protection guard**

Manufacturing material	Palazzoli code	Pack Qty
galvanised steel	<b>810993</b>	1

**PALAZZOLI LUX SITE**

The website dedicated to floodlight and suspension lighting systems is available on [www.palazzolilux.com](http://www.palazzolilux.com)



# RINO LED



## Watertightness

Thanks to the use of AISI 304 stainless steel and the absence of welds.



## Energy saving

LED technology enables to achieve savings of over 40%.



**RISK  
GROUP  
EXEMPT**

## RISK GROUP EXEMPT

Thanks to LEDs with a photobiological risk of 0, visual comfort is assured.



RINO LED is the new series of watertight ceiling light fixture which use LED technology. Visual comfort, thanks to the use of specific anti-glare diffusers, is guaranteed at excellent levels. RINO LED, made in steel, is particularly recommended for environments where significant mechanical resistance is required.

Compliance with standards

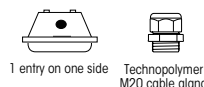
**Directive 2014/35/EU**  
**EN 60598-1**  
**EN 60598-2-1**  
**EN 62471**  
**EN 60598-2-22**  
**EN 62493**  
**IEC/TR 62778**  
**Directive 2014/30/EU**  
**EN 55015**  
**EN 61547**  
**EN 61000-3-2**  
**EN 61000-3-3**  
**Directive 2011/65/EU**  
**EN 50581**  
**EN 60598-2-24**

Body material	<b>AISI 304 stainless steel</b> <b>Painted galvanised steel</b>
Diffuser material	<b>Tempered glass and polycarbonate</b>
Protection rating (IP according to IEC/EN 60529)	<b>IP66/IP67 glass diffuser</b> <b>IP66 polycarbonate diffuser</b>
Paint	<b>Non-toxic polyester resistant to weather conditions and UV rays</b>
Colour	<b>RAL 9003 (painted galvanised steel version)</b>
Impact resistance (IK rating according to IEC/EN 62262)	<b>IK09</b>
Colour temperature	<b>4000K</b>
CRI	<b>≥ 80</b>
Insulation class	<b>I</b>
Supply voltage	<b>220V-240V 50-60Hz</b>
Input surge protection	<b>2 kV</b> <b>EN 61000</b>
Photobiological risk	<b>Exempt</b>
Power factor	<b>≥ 0.95</b>
Max conductor cross-section	<b>2.5 mm<sup>2</sup></b>
Entry cable diameter	<b>7-14 mm</b>
Emergency battery lifetime	<b>1h (3h on request)</b>
Emergency battery charging time	<b>24h</b>
Estimated device lifetime	<b>L80 B20 @50.000h Tq=25°C</b>
Storage temperature	<b>-40°C - +70°C</b>
Operating temperature	<b>-20°C - +40°C</b> <b>(Special solutions for low temperature applications available on request)</b>

The photometric curves (LDT files) are available on [www.palazzolilux.com](http://www.palazzolilux.com)



LED light fixtures  
stainless steel - **satin-finish**  
**glass with extra wide beam optics**  
**IP66/IP67**

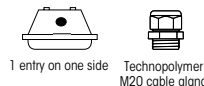


Device power (W)	Length (mm)	Rated flux (lm) Tj= 25 °C	Version	Photometric curves	Palazzoli code	Pack Qty
22	690	3170	standard	9	<b>822142</b>	1
48	1300	5900		9	<b>822242</b>	1
58	1600	8000		9	<b>822342</b>	1
22	690	3170	emergency	9	<b>822140</b>	1
48	1300	5900		9	<b>822240</b>	1
58	1600	8000		9	<b>822340</b>	1

**Equipment included:** fixing kit consisting of gaskets and washers.  
**Notes:** the stated values may be subject to a +/- 7% tolerance.



LED light fixtures  
stainless steel - **transparent**  
**glass with narrow beam optics**  
**IP66/IP67**



Device power (W)	Length (mm)	Rated flux (lm) Tj= 25 °C	Version	Photometric curves	Palazzoli code	Pack Qty
48	1300	5900	standard	10	<b>820242</b>	1
58	1600	8000		10	<b>820342</b>	1
48	1300	5900	emergency	10	<b>820240</b>	1
58	1600	8000		10	<b>820340</b>	1

**Equipment included:** fixing kit consisting of gaskets and washers.  
**Notes:** the stated values may be subject to a +/- 7% tolerance.

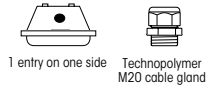
EMERGENCY FLUX	
Rated flux (lm) Tj= 25 °C	Rated flux in emergency (lm)
3170	887
5900	944
8000	960

**Notes:** the emergency flux is achieved by reducing the rated flux of the unit.





LED light fixtures  
**stainless steel - polycarbonate**  
with **extra wide beam optics**  
**IP66**

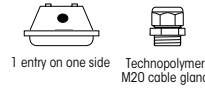


Device power (W)	Length (mm)	Rated flux (lm) Tj= 25 °C	Version	Photometric curves	Palazzoli code	Pack Qty
22	690	3170	standard	9	<b>828142</b>	1
48	1300	5900		9	<b>828242</b>	1
22	690	3170	emergency	9	<b>828140</b>	1
48	1300	5900		9	<b>828240</b>	1

**Equipment included:** fixing kit consisting of gaskets and washers.  
**Notes:** the stated values may be subject to a +/- 7% tolerance.



LED light fixtures  
painted **galvanised steel**  
**satin-finish glass**  
with **extra wide beam optics**  
**IP66/IP67**

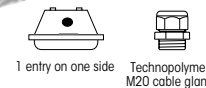


Device power (W)	Length (mm)	Rated flux (lm) Tj= 25 °C	Version	Photometric curves	Palazzoli code	Pack Qty
22	690	3170	standard	9	<b>842142</b>	1
48	1300	5900		9	<b>842242</b>	1
22	690	3170	emergency	9	<b>842140</b>	1
48	1300	5900		9	<b>842240</b>	1

**Equipment included:** fixing kit consisting of gaskets and washers.  
**Notes:** the stated values may be subject to a +/- 7% tolerance.



LED light fixtures  
**stainless steel - polycarbonate**  
with **narrow beam optics**  
**IP66**

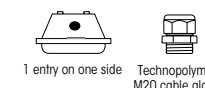


Device power (W)	Length (mm)	Rated flux (lm) Tj= 25 °C	Version	Photometric curves	Palazzoli code	Pack Qty
48	1300	5900	standard	10	<b>825242</b>	1
48	1300	5900	emergency	10	<b>825240</b>	1

**Equipment included:** fixing kit consisting of gaskets and washers.  
**Notes:** the stated values may be subject to a +/- 7% tolerance.



LED light fixtures  
painted **galvanised steel**  
**transparent glass**  
with **narrow beam optics**  
**IP66/IP67**



Device power (W)	Length (mm)	Rated flux (lm) Tj= 25 °C	Version	Photometric curves	Palazzoli code	Pack Qty
48	1300	5900	standard	10	<b>843242</b>	1
48	1300	5900	emergency	10	<b>843240</b>	1

**Equipment included:** fixing kit consisting of gaskets and washers.  
**Notes:** the stated values may be subject to a +/- 7% tolerance.



LED light fixtures painted **galvanised steel polycarbonate** with **extra wide beam optics IP66**



1 entry on one side



Technopolymer M20 cable gland

Device power (W)	Length (mm)	Rated flux (lm) Tj= 25 °C	Version	Photometric curves	Palazzoli code	Pack Qty
22	690	3170	standard	9	<b>847142</b>	1
48	1300	5900		9	<b>847242</b>	1
22	690	3170	emergency	9	<b>847140</b>	1
48	1300	5900		9	<b>847240</b>	1

**Equipment included:** fixing kit consisting of gaskets and washers.

**Notes:** the stated values may be subject to a +/- 7% tolerance.



Pair of **hooks** for **suspended** installations of steel light fixtures

Manufacturing material	Palazzoli code	Pack Qty
AISI 304 stainless steel	<b>820001</b>	1



Pair of **adjustable supports** for **wall** and **ceiling** installations of steel light fixtures

Manufacturing material	Rotation angle	Palazzoli code	Pack Qty
AISI 304 stainless steel	± 75°	<b>820000</b>	1



LED light fixtures painted **galvanised steel polycarbonate** with **narrow beam optics IP66**



1 entry on one side



Technopolymer M20 cable gland

Device power (W)	Length (mm)	Rated flux (lm) Tj= 25 °C	Version	Photometric curves	Palazzoli code	Pack Qty
48	1300	5900	standard	10	<b>845242</b>	1
48	1300	5900	emergency	10	<b>845240</b>	1

**Equipment included:** fixing kit consisting of gaskets and washers.

**Notes:** the stated values may be subject to a +/- 7% tolerance.



Pair of **collars** for mounting steel light fixtures on **tube**

Manufacturing material	Tube diameter ø (mm)	Palazzoli code	Pack Qty
AISI 304 stainless steel	60	<b>820006</b>	1

# RINO



## Watertightness

The special reinforced gasket provides additional protection throughout the range.



## Efficient

The aluminium reflector enables optimum recovery of the luminous flux and ensures even distribution.



## Resistant

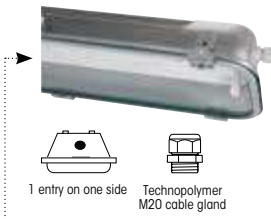
The non-deformable structure makes RINO suitable for installation even in the presence of vibrations.



Suitable for use in the food industry, cooker hoods, chemical industries, mining industries and environments with the presence of cutting oils. The RINO range of light fixtures meet the highest quality standards to ensure reliability and superior performance, such as the construction of the body in a single cold-drawn piece with high photometric performance.

Compliance with standards	<b>Directive 2014/35/EU</b> <b>EN 60598-1</b> <b>EN 60598-2-1</b> <b>EN 60598-2-22</b> <b>EN 62493</b> <b>Directive 2014/30/EU</b> <b>EN 55015</b> <b>EN 61547</b> <b>EN 61000-3-2</b> <b>EN 61000-3-3</b> <b>Directive 2011/65/EU</b> <b>EN 50581</b>
Body material	<b>AISI 304 stainless steel</b> <b>painting galvanised steel</b>
Diffuser material	<b>Tempered glass and polycarbonate</b>
Protection rating (IP according to IEC/EN 60529)	<b>IP66/IP67 glass diffuser</b> <b>IP66 polycarbonate diffuser</b>
Paint	<b>Non-toxic polyester resistant to weather conditions and UV rays</b>
Colour	<b>RAL 9003 (painted galvanised steel version)</b>
Impact resistance (IK rating according to IEC/EN 62262)	<b>IK09</b>
Insulation class	<b>I</b>
Fuse type	<b>Cylindrical 5x20</b>
Lamp holder	<b>G13 T8 / G5 T5</b>
Supply voltage	<b>220V-240V</b> <b>0-50-60Hz</b>
Power factor	<b>≥ 0.9</b>
Max conductor cross-section	<b>2.5 mm<sup>2</sup></b>
Entry cable diameter	<b>7-14 mm</b>
Emergency battery lifetime	<b>1h (3h on request)</b>
Emergency battery charging time	<b>24h</b>
Storage temperature	<b>-40°C - +70°C</b>
Operating temperature	<b>-25°C - +50°C</b> <b>(Special solutions for low temperature applications available on request)</b>

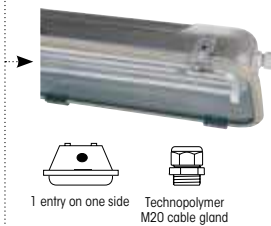
The photometric curves (LDT files) are available on [www.palazzolilux.com](http://www.palazzolilux.com)



Light fixtures in **stainless steel-glass** with **white reflector** **IP66/IP67**

Power (W)	Length (mm)	For tubes type	Version	Photometric curves	Palazzoli code	Pack Qty
1x18	690	T8	standard	11	<b>822131</b>	1
1x36	1300			11	<b>822231</b>	1
1x58	1600			11	<b>822331</b>	1
2x18	690			12	<b>822132</b>	1
2x36	1300			12	<b>822232</b>	1
2x58	1600			12	<b>822332</b>	1
1+1x36	1300	T8	emergency	12	<b>822211</b>	1
1+1x58	1600			12	<b>822311</b>	1
2x54	1300			13	<b>822962</b>	1
2x49	1600	T5	standard	13	<b>822762</b>	1
2x80	1600			13	<b>822862</b>	1

**Equipment included:** fixing kit consisting of gaskets and washers.  
**Features:** fluorescent tubes are not included.



Light fixtures in **stainless steel-glass** with **asymmetrical aluminium reflector** **IP66/IP67**

Power (W)	Length (mm)	For tubes type	Version	Photometric curves	Palazzoli code	Pack Qty
1x18	690	T8	standard	17	<b>824131</b>	1
1x36	1300			17	<b>824231</b>	1
1x58	1600			17	<b>824331</b>	1
1x24	690			18	<b>824561</b>	1
1x54	1300			18	<b>824961</b>	1
1x49	1600			18	<b>824761</b>	1
1x80	1600	T5	standard	18	<b>824861</b>	1

**Equipment included:** fixing kit composed of gaskets and washers.  
**Features:** fluorescent tubes are not included.

**Technical accessories:**



**Correspondence between light fixture length and tube type**

Light fixture length (mm)	Tube length (mm)	Tubes T8	Tubes T5
690	550	18W	24W HO
1300	1150	36W	28W HE
			54W HO
1600	1450	58W	35W HE
			49W HO
			80W HO



Light fixtures in **stainless steel-glass** with **symmetrical reflector** in aluminium **IP66/IP67**



1 entry on one side M20 cable gland in brass

Power (W)	Length (mm)	For tubes type	Version	Photometric curves	Palazzoli code	Pack Qty
1x18	690			14	<b>820131</b>	1
1x36	1300			14	<b>820231</b>	1
1x58	1600			14	<b>820331</b>	1
2x18	690	T8	standard	15	<b>820132</b>	1
2x36	1300			15	<b>820232</b>	1
2x58	1600			15	<b>820332</b>	1
3x18	690			15	<b>820133</b>	1
3x36	1300			15	<b>820233</b>	1
1x18	690	T8	dimnable standard	14	<b>820151</b>	1
1x36	1300			14	<b>820251</b>	1
2x18	690			15	<b>820152</b>	1
2x36	1300			15	<b>820252</b>	1
1+1x18	690	T8	emergency	15	<b>820111</b>	1
1+1x36	1300			15	<b>820211</b>	1
1+1x58	1600			15	<b>820311</b>	1
2x24	690	T5	standard	16	<b>820562</b>	1
2x28	1300			16	<b>820462</b>	1
2x54	1300			16	<b>820962</b>	1
2x35	1600			16	<b>820662</b>	1
2x49	1600			16	<b>820762</b>	1
2x80	1600			16	<b>820862</b>	1
1+1x24	690	T5	emergency	16	<b>820511</b>	1
1+1x54	1300			16	<b>820911</b>	1
1+1x49	1600			16	<b>820711</b>	1

**Equipment included:** fixing kit composed of gaskets and washers.  
**Features:** fluorescent tubes are not included.

**Technical accessories:**



Light fixtures in **stainless steel-polycarbonate** with **white reflector** **IP66**



1 entry on one side Technopolymer M20 cable gland

Power (W)	Length (mm)	For tubes type	Version	Photometric curves	Palazzoli code	Pack Qty
2x18	690	T8	standard	12	<b>828132</b>	1
2x36	1300			12	<b>828232</b>	1

**Equipment included:** fixing kit composed of gaskets and washers.  
**Features:** fluorescent tubes are not included.



Light fixtures in **stainless steel-polycarbonate** with **symmetrical reflector** in aluminium **IP66**



1 entry on one side Technopolymer M20 cable gland

Power (W)	Length (mm)	For tubes type	Version	Photometric curves	Palazzoli code	Pack Qty
2x18	690	T8	standard	15	<b>825132</b>	1
2x36	1300			15	<b>825232</b>	1
1+1x18	690	T8	emergency	15	<b>825111</b>	1
1+1x36	1300			15	<b>825211</b>	1
2x24	690	T5	standard	16	<b>825562</b>	1
2x54	1300			16	<b>825962</b>	1

**Equipment included:** fixing kit composed of gaskets and washers.  
**Features:** fluorescent tubes are not included.

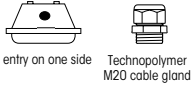
**Technical accessories:**







Light fixtures in **painted galvanised steel-glass** with **white reflector IP66/IP67**

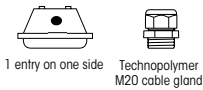


Power (W)	Length (mm)	For tubes type	Version	Photometric curves	Palazzoli code	Pack Qty
2x18	690	T8	standard	12	<b>842132</b>	1
2x36	1300			12	<b>842232</b>	1
2x54	1300			13	<b>842962</b>	1

**Equipment included:** fixing kit consisting of gaskets and washers.  
**Features:** fluorescent tubes are not included.



**Galvanised and painted steel-glass** light fixtures with **symmetrical reflector in aluminium IP66/IP67**



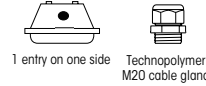
Power (W)	Length (mm)	For tubes type	Version	Photometric curves	Palazzoli code	Pack Qty
2x18	690	T8	standard	15	<b>843132</b>	1
2x36	1300			15	<b>843232</b>	1
1+1x18	690			15	<b>843111</b>	1
1+1x36	1300	T8	emergency	15	<b>843211</b>	1
2x24	690	T5	standard	16	<b>843562</b>	1
2x28	1300			16	<b>843462</b>	1
2x54	1300			16	<b>843962</b>	1
1+1x24	690	T5	emergency	16	<b>843511</b>	1
1+1x54	1300			16	<b>843911</b>	1

**Equipment included:** fixing kit composed of gaskets and washers.  
**Features:** fluorescent tubes are not included.

**Technical accessories:**



Light fixtures in **painted galvanised steel-polycarbonate** with **white reflector IP66**

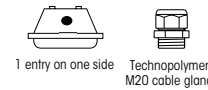


Power (W)	Length (mm)	For tubes type	Version	Photometric curves	Palazzoli code	Pack Qty
2x18	690	T8	standard	12	<b>847132</b>	1
2x36	1300			12	<b>847232</b>	1
1+1x36	1300			T8	emergency	12

**Equipment included:** fixing kit composed of gaskets and washers.  
**Features:** fluorescent tubes are not included.



Light fixtures in **painted galvanised steel-polycarbonate** with **symmetrical reflector in aluminium IP66**



Power (W)	Length (mm)	For tubes type	Version	Photometric curves	Palazzoli code	Pack Qty
2x18	690	T8	standard	15	<b>845132</b>	1
2x36	1300			15	<b>845232</b>	1
1+1x18	690			15	<b>845111</b>	1
1+1x36	1300	T8	emergency	15	<b>845211</b>	1
2x24	690	T5	standard	16	<b>845562</b>	1
2x28	1300			16	<b>845962</b>	1
2x54	1300			16	<b>845962</b>	1

**Equipment included:** fixing kit composed of gaskets and washers.  
**Features:** fluorescent tubes are not included.

**Technical accessories:**



**Symmetrical reflectors in aluminium** for steel light fixtures

Manufacturing material	For light fixtures (W)	Palazzoli code	Pack Qty
aluminium	18, 24	<b>820002</b>	1
	28, 36, 54	<b>820003</b>	1
	35, 49, 58, 80	<b>820008</b>	1

# RINO



## High resistance

Thanks to the low copper content aluminium alloy.



## Guaranteed protection

Thanks to the eyelets for external fixing.



## Maximum security

Thanks to the protective cage.



RINO series round and oval light fixtures are manufactured with high quality standards for industrial use. The shockproof tempered glass diffuser, the porcelain lamp holder, the surface treatment of passivation with fluoro-zirconium and hot polymerised polyester painting of the body guarantee great resistance of the product in any application environment.

We recommend to install these fixtures in those places, such as arcades, electrical substations, cold rooms and in any restricted space where you may need a long-term resistant light fixture.

Compliance with standards	<b>Directive 2014/35/EU EN 60598-1 EN 60598-2-1 Directive 2011/65/EU EN 50581</b>
Material	<b>Aluminium alloy (body), prismatic tempered glass (diffuser)</b>
Surface treatment	<b>Passivation with fluoro-zirconium</b>
Protection rating (IP as per EN 60598-1)	<b>IP66</b>
Paint	<b>Non-toxic polyester resistant to weather conditions and UV rays</b>
Colour	<b>RAL 7035 (body)</b>
Impact resistance (IK rating according to IEC/EN 62262)	<b>IK10</b>
Insulation class	<b>I</b>
Lamp holder	<b>Type E27 in porcelain Type G23 in technopolymer</b>
Supply voltage	<b>230V 50-60Hz</b>
Max conductor cross-section	<b>2.5 mm<sup>2</sup></b>
Entry cable diameter	<b>5 - 13 mm</b>
Storage temperature	<b>-50°C - +80°C</b>
Operating temperature	<b>-40°C - +70°C</b>



**Resistance to chemical agents**

WATER	SALINE SOLUTION	ACIDS		BASES		SOLVENTS			
		CONCENTRATED	DILUTED	CONCENTRATED	DILUTED	ALCOHOL	ACETONE	PERCHLORO-ETHYLENE	BENZENE
↑	↑	↓	→	→	↑	↑	↑	↑	↑
OILS		FATS		AMMONIA	OXIDISERS	INORGANIC SALTS	GASOLINE	DETERGENTS	U.V. RAYS
MINERAL	VEGETABLE	ANIMAL	SYNTHETIC						
↑	↑	↑	↑	↑	→	↑	↑	↑	↑

Legend: ↑ high resistance    → partial resistance    ↓ low resistance



Technopolymer  
M20 cable gland

### Oval light fixtures in aluminium alloy with glass diffuser IP66

Lamp max power (W)	Dimensions (mm)	Lamp holder type	No. of entries	Palazzoli code	Pack Qty
60	199x112	E27	1	<b>831071</b>	1
60	199x112		2	<b>831091</b>	1
75	226x130		1	<b>831171</b>	1
75	226x130		2	<b>831191</b>	1
100	295x170		1	<b>831271</b>	1
100	295x170		2	<b>831291</b>	1
5-7-9	295x170	G23	1	<b>831914</b>	1

**Equipment included:** internal earth screw and cable gland.  
**Features:** E27 lamp holder in porcelain.



Technopolymer  
M20 cable gland

### Oval light fixtures in aluminium alloy with protective cage in steel IP66

Lamp max power (W)	Dimensions (mm)	Lamp holder type	No. of entries	Palazzoli code	Pack Qty
60	199x112	E27	1	<b>831072</b>	1
60	199x112		2	<b>831092</b>	1
75	226x130		1	<b>831172</b>	1
75	226x130		2	<b>831192</b>	1
100	295x170		1	<b>831272</b>	1
100	295x170		2	<b>831292</b>	1
5-7-9	295x170	G23	1	<b>831934</b>	1

**Equipment included:** internal earth screw and cable gland.  
**Features:** E27 lamp holder in porcelain.



Technopolymer  
M20 cable gland

### Oval light fixtures in aluminium alloy with protective cage in aluminium IP66

Lamp max power (W)	Dimensions (mm)	Lamp holder type	No. of entries	Palazzoli code	Pack Qty
60	199x112	E27	1	<b>831075</b>	1
60	199x112		2	<b>831095</b>	1
75	226x130		1	<b>831175</b>	1
75	226x130		2	<b>831195</b>	1
100	295x170		1	<b>831275</b>	1
100	295x170		2	<b>831295</b>	1
5-7-9	295x170	G23	1	<b>831954</b>	1

**Equipment included:** internal earth screw and cable gland.  
**Features:** E27 lamp holder in porcelain.



Technopolymer  
M20 cable gland

### Round light fixtures in aluminium alloy with glass diffuser IP66

Lamp max power (W)	Dimensions (mm)	Lamp holder type	No. of entries	Palazzoli code	Pack Qty
75	200x182	E27	1	<b>830071</b>	1

**Equipment included:** internal earth screw and cable gland.  
**Features:** E27 lamp holder in porcelain.



Technopolymer  
M20 cable gland

### Round light fixtures in aluminium alloy with protective cage in steel IP66

Lamp max power (W)	Dimensions (mm)	Lamp holder type	No. of entries	Palazzoli code	Pack Qty
75	200x182	E27	1	<b>830072</b>	1

**Equipment included:** internal earth screw and cable gland.  
**Features:** E27 lamp holder in porcelain.



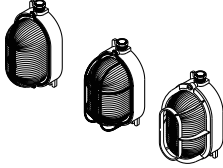

### Anti-vibrating bayonet lamp holder type Swann for RINO light fixtures

Type	Lamp holder material	Palazzoli code	Pack Qty
B22d 4A 250V	brass	<b>859412</b>	1

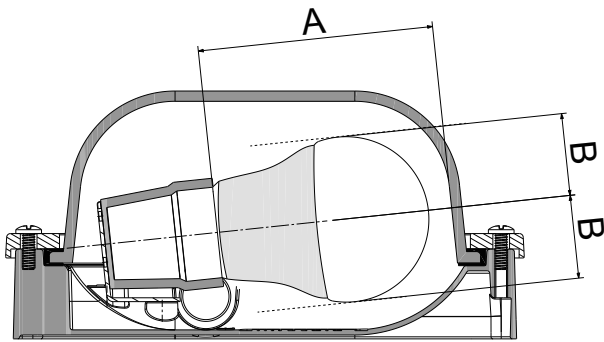
**Equipment included:** fixing support.

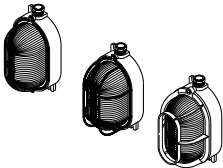



**LIGHT FIXTURE/LAMP SELECTION - MAXIMUM POWER**





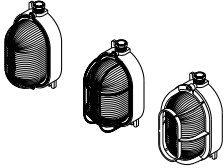

	Maximum power (W)	LED (W)	Rated flux (Lm)		Halogen (W)	Electronic fluorescent compact E27 max (W)
			Warm white 3000K	Neutral white 4000K		
	60	8.7	630	640	42	15
	75	8.7	940	960	53	20
	100	13	1200	1250	72	23
	75	17	1530	1590	53	15

**LIGHT FIXTURE/LAMP SELECTION - DIMENSIONS**



	Maximum power (W)	A	B
	60	90	38
	75	110	40
	100	168	43
	75	90	38

**LIGHT FIXTURE/LAMP SELECTION - SPARE PARTS**

	Maximum power (W)	Diffusers	Gaskets	Lamp holders	
				 E27	 Swann
	60	<b>831512</b>	<b>831540</b>	<b>819056</b>	<b>859412</b>
	75	<b>831612</b>	<b>831640</b>		
	100	<b>831712</b>	<b>831740</b>	-	-
	75	<b>830512</b>	<b>830540</b>	<b>819056</b>	<b>859412</b>



The well glass fixtures can be installed on the ceiling, suspended by means of a threaded pipe, mounted squarely on a wall or on an inclined wall with an angle of 35°. Made to very high quality standards, they are characterised by a diffuser in impact-resistant striped glass with high luminous efficiency that can be replaced with diffusers available in different shades of colour.

Supplied with E27 safety lampholder in porcelain and RAL 7035 grey colour, a portable version is available with insulating body in thermosetting material reinforced with glass fibre.

All versions are IP65 watertight.

A wide range of technical accessories is provided, including protection cages.



Compliance with standards	<b>Directive 2014/35/EU EN 60598-1 EN 60598-2-1 Directive 2011/65/EU EN 50581</b>
Material	<b>Aluminium alloy (body) Prismatic tempered glass (diffuser)</b>
Surface treatment	<b>Passivation with fluoro-zirconium treatment</b>
Protection rating (IP according to EN 60598-1)	<b>IP65</b>
Paint	<b>Hot-polymerised non-toxic polyester</b>
Colour	<b>RAL 7035 (body)</b>
Impact resistance (IK rating according to IEC/EN 62262)	<b>IK10</b>
Insulation class	<b>I</b>
Lamp holder	<b>Type E27 in porcelain</b>
Supply voltage	<b>230V 50-60Hz</b>
Max conductor cross-section	<b>2.5 mm<sup>2</sup></b>
Entry cable diameter	<b>5-13 mm</b>
Storage temperature	<b>-50°C - +80°C</b>
Operating temperature	<b>-40°C - +70°C</b>



### Resistance to chemical agents

WATER	SALINE SOLUTION	ACIDS		BASES		SOLVENTS			
		CONCENTRATED	DILUTED	CONCENTRATED	DILUTED	ALCOHOL	ACETONE	PERCHLORO-ETHYLENE	BENZENE
↑	↑	↓	→	→	↑	↑	↑	↑	↑
OILS		FATS		AMMONIA	OXIDISERS	INORGANIC SALTS	GASOLINE	DETERGENTS	U.V. RAYS
MINERAL	VEGETABLE	ANIMAL	SYNTHETIC						
↑	↑	↑	↑	↑	→	↑	↑	↑	↑

Legend: ↑ high resistance → partial resistance ↓ low resistance



**Well glass fixtures**  
in aluminium alloy  
with glass diffuser  
**IP65**

Technopolymer M20  
cable gland

Lamp max power (W)	Lamp holder type	No. of entry cable glands	Palazzoli code	Pack Qty
60	E27	1	<b>810071</b>	1
75		1	<b>810171</b>	1
100		1	<b>810271</b>	1

**Equipment included:** cable gland.  
**Features:** lamp holder in porcelain.



**Well glass fixtures**  
90° angled in aluminium alloy  
with glass diffuser  
for wall-mounting  
**IP65**

Technopolymer M20  
cable gland

Lamp max power (W)	Lamp holder type	No. of entry cable glands	Palazzoli code	Pack Qty
60	E27	1	<b>811071</b>	1
75		1	<b>811171</b>	1
100		1	<b>811271</b>	1

**Equipment included:** cable gland.  
**Features:** lamp holder in porcelain.



**Well glass fixtures**  
pendant in aluminium alloy  
with glass diffuser  
**IP65**

Lamp max power (W)	Lamp holder type	No. of entry cable glands	Palazzoli code	Pack Qty
60	E27	1	<b>812071</b>	1
75		1	<b>812171</b>	1
100		1	<b>812271</b>	1

**Features:** with M20 threaded hole for pendant tube.  
Lamp holder in porcelain.



**Well glass fixtures**  
in aluminium alloy  
with glass diffuser angled  
for wall-mounting  
**IP65**

Technopolymer M20  
cable gland

Lamp max power (W)	Lamp holder type	No. of entry cable glands	Palazzoli code	Pack Qty
60	E27	1	<b>813071</b>	1
75		1	<b>813171</b>	1
100		1	<b>813271</b>	1

**Equipment included:** cable gland.  
**Features:** lamp holder in porcelain.



**Junction box**  
in aluminium alloy  
for ceiling mounting  
of pendant light fixtures  
**IP65**

Technopolymer M20  
cable gland

Inner dimensions	No. of entry cable glands	Front thread type	Palazzoli code	Pack Qty
Ø 62	2	1/2"	<b>812988</b>	1

**Equipment included:** internal and external earth screws and cable gland.  
**Features:** cover with M20 threaded central hole for light fixture pendant tube.



**Portable well glass fixture**  
in thermosetting GRP  
with protection cage in steel  
**IP65**

Technopolymer M20  
cable gland

Lamp max power (W)	Lamp holder type	Palazzoli code	Pack Qty
60	E27	<b>814052</b>	1

**Equipment included:** cable entry with 1 cable gland with M20 threading and internal cable clamp.  
**Features:** diffuser in ribbed clear glass Lamp holder in porcelain.



**Bodies for cylindrical well glass fixtures in aluminium alloy for ceiling installation IP65**

Technopolymer M20 cable gland

Lamp max power (W)	Lamp holder type	No. of cable glands 1/2 entry	Palazzoli code	Pack Qty
60	E27	1	<b>810060</b>	5
75		1	<b>810100</b>	1
100		1	<b>810200</b>	2

**Equipment included:** globe-holder ring, gasket, E27 safety lamp holder and cable gland.



**Bodies for cylindrical well glass fixtures in aluminium alloy for 90° wall-mounting IP65**

Technopolymer M20 cable gland

Lamp max power (W)	Lamp holder type	No. of cable glands entry 1/2	Palazzoli code	Pack Qty
60	E27	1	<b>811060</b>	5
75		1	<b>811100</b>	1
100		1	<b>811200</b>	2

**Equipment included:** globe-holder ring, gasket, E27 safety lamp holder and cable gland.



**Bodies for cylindrical well glass fixtures in aluminium alloy for pendant mounting IP65**

Technopolymer M20 cable gland

Lamp max power (W)	Lamp holder type	No. of cable glands entry 1/2	Palazzoli code	Pack Qty
60	E27	1	<b>812060</b>	5
75		1	<b>812100</b>	5
100		1	<b>812200</b>	2

**Equipment included:** globe-holder ring, gasket, E27 safety lamp holder and cable gland.  
**Features:** with M20 threaded hole for porcelain tube.



**Bodies for cylindrical well glass fixtures in aluminium alloy for angled wall-mounting IP65**

Technopolymer M20 cable gland

Lamp max power (W)	Lamp holder type	No. of cable glands entry 1/2	Palazzoli code	Pack Qty
60	E27	1	<b>813060</b>	1
75		1	<b>813100</b>	2
100		1	<b>813200</b>	2

**Equipment included:** globe-holder ring, gasket, E27 safety lamp holder and cable gland.

**LIGHT FIXTURE/LAMP SELECTION - MAXIMUM POWER**

	Maximum power (W)	LED (W)	Electronic fluorescent compact E27 max (W)
	60	10	15
	75	11	20
	100	16	23



Clear ribbed glass **diffusers** for cylindrical well glass fixtures

Lamp max power (W)	Colour	Palazzoli code	Pack Qty
60	transparent	<b>819012</b>	1
75		<b>819112</b>	1
100		<b>819212</b>	1



**UNAV 1268 diffusers** in smooth coloured glass for cylindrical well glass fixtures

Lamp max power (W)	Colour	Palazzoli code	Pack Qty
60	transparent	<b>850060</b>	1
	blue	<b>850061</b>	1
40	yellow	<b>850062</b>	1
	red	<b>850063</b>	1
	green	<b>850064</b>	1



**Diffusers** in coloured polycarbonate for 60W cylindrical well glass fixtures

Lamp max power (W)	Colour	Palazzoli code	Pack Qty
40	transparent	<b>819015</b>	1
	yellow	<b>819017</b>	1
	red	<b>819018</b>	1
	green	<b>819019</b>	1



Anti-vibrating bayonet **lamp holder** Swann type with fins for cylindrical well glass fixtures

Type	Lamp holder material	Palazzoli code	Pack Qty
B22d 4A 250V	brass	<b>859400</b>	1

**Equipment included:** fixing support.



**Protection cages** in galvanised and tropicalised steel wire for cylindrical well glass fixtures

Lamp max power (W)	Palazzoli code	Pack Qty
60	<b>819020</b>	1
75	<b>819120</b>	1
100	<b>819220</b>	1



**Protection cages** in stainless steel wire for cylindrical well glass fixtures

Lamp max power (W)	Palazzoli code	Pack Qty
60	<b>819022</b>	1
75	<b>850172</b>	1



**Reflectors** in painted galvanised steel for cylindrical well light fixtures

Lamp max power (W)	Colour	Palazzoli code	Pack Qty
60	white	<b>819030</b>	5
75		<b>819130</b>	5
100		<b>819230</b>	5

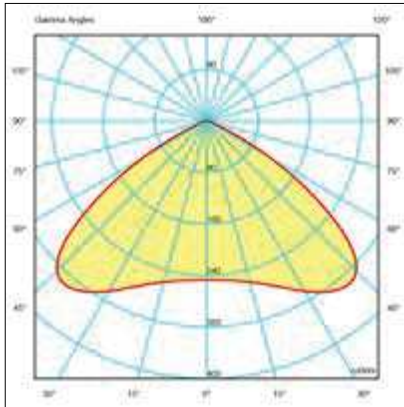


**Shade** in painted galvanised steel for directing the light output of cylindrical well glass fixtures

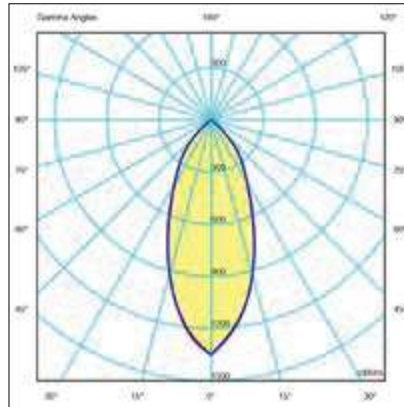
Lamp max power (W)	Colour	Palazzoli code	Pack Qty
60	aluminium	<b>819035</b>	1
75		<b>819135</b>	1
100		<b>819235</b>	1

Assessed in accredited laboratories in compliance with UNI EN 13032-1-4 and IES LM 79-08 standards

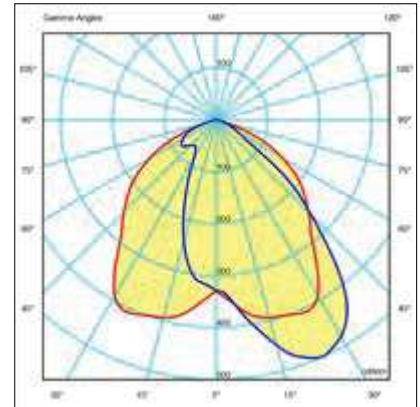
## LED - FLOODLIGHTS AND SUSPENSIONS



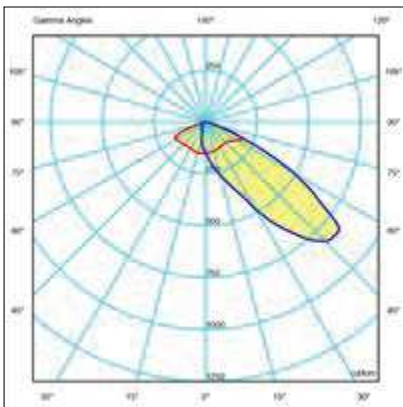
**1** - Symmetrical extra wide beam



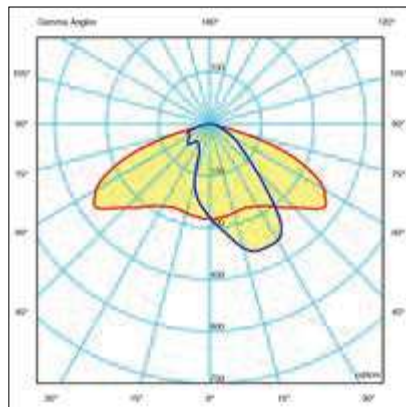
**2** - Symmetrical narrow beam



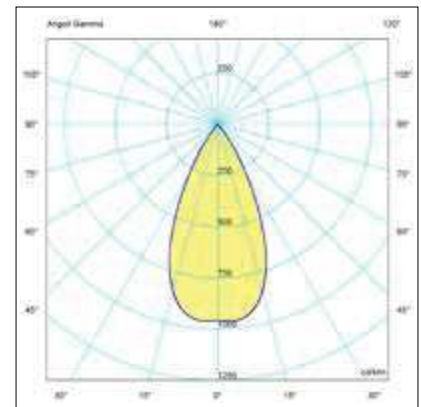
**3** - Asymmetrical extra wide beam



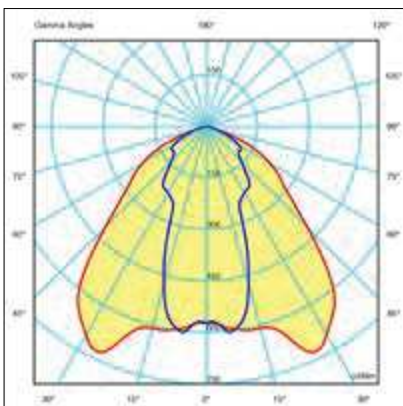
**4** - Asymmetrical narrow beam



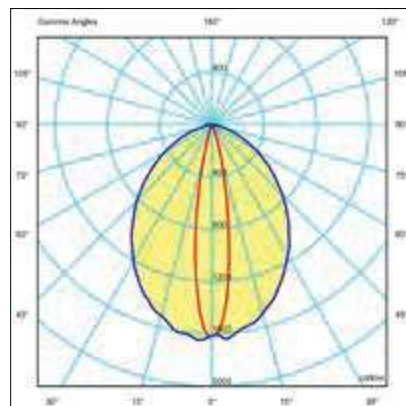
**5** - Roadway wide beam



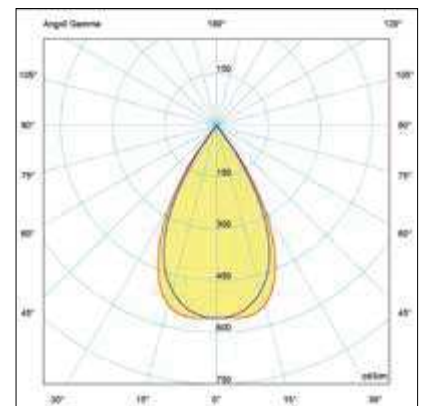
**6** - Symmetrical medium beam



**7** - Elliptical



**8** - Elliptical

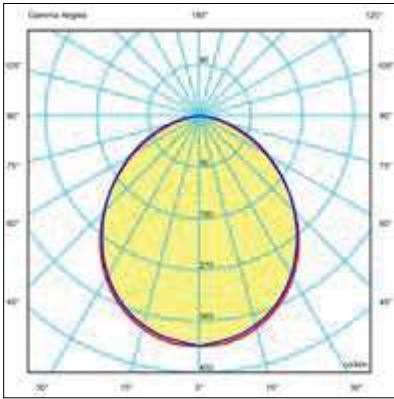


**34** - Symmetrical extra wide beam

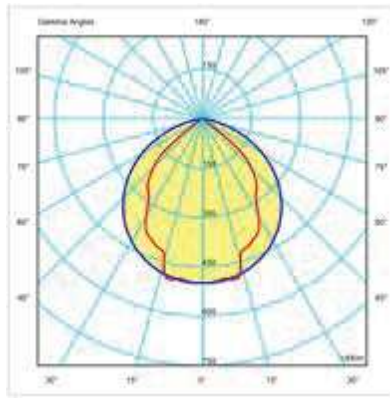


Assessed in accredited laboratories in compliance with UNI EN 13032-1-4 and IES LM 79-08 standards

## LED - LIGHT FIXTURES

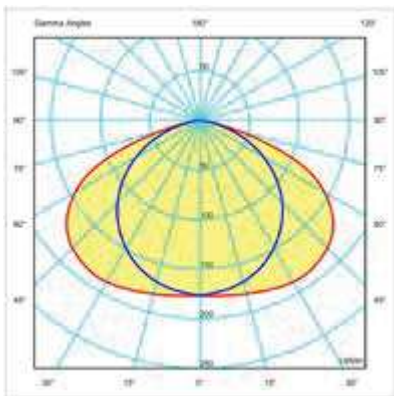


**9** - Symmetrical extra wide beam

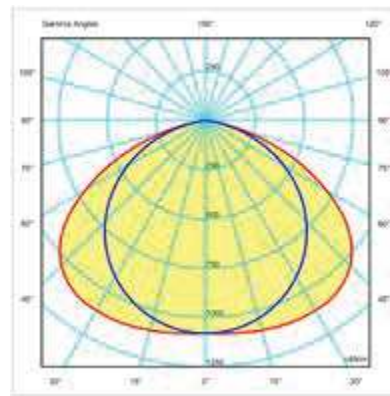


**10** - Symmetrical narrow beam

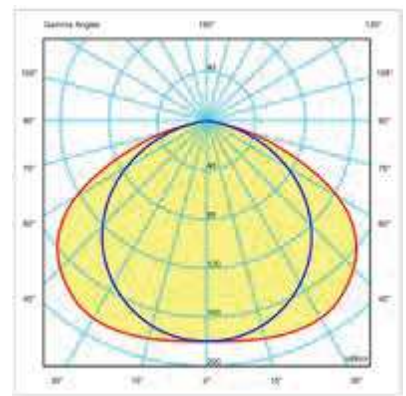
## FLUORESCENT - LIGHT FIXTURES



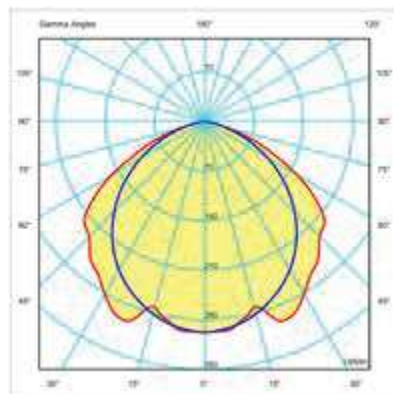
**11** - T8 - 1 tube - White reflector



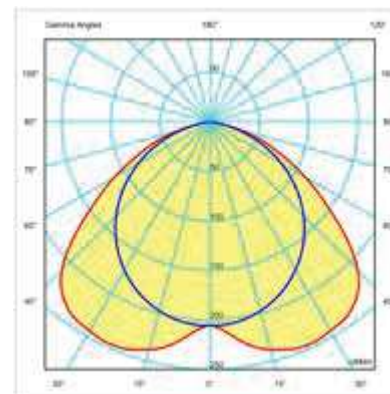
**12** - T8 - 2 tubes - White reflector



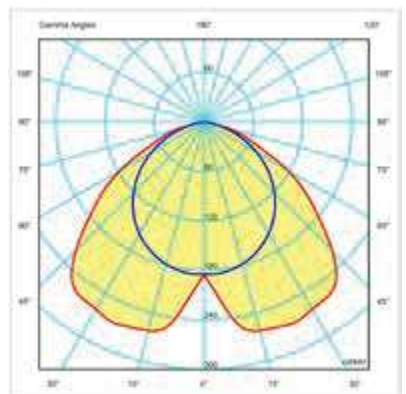
**13** - T5 - 2 tubes - White reflector



**14** - T8 - 1 tube - Symmetrical beam



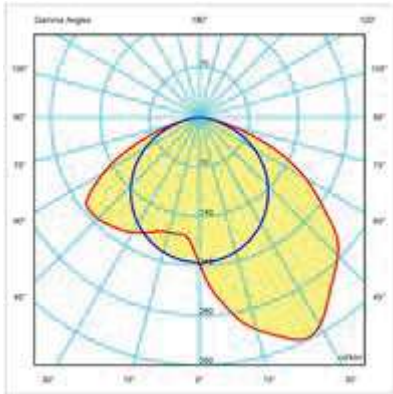
**15** - T8 - 2 tubes - Symmetrical beam



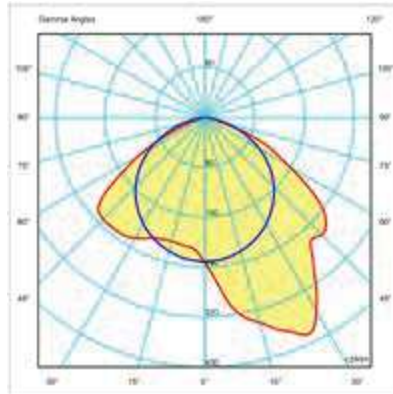
**16** - T5 - 2 tubes - Symmetrical beam

Assessed in accredited laboratories in compliance with UNI EN 13032-1-4 and IES LM 79-08 standards

## FLUORESCENT - LIGHT FIXTURES

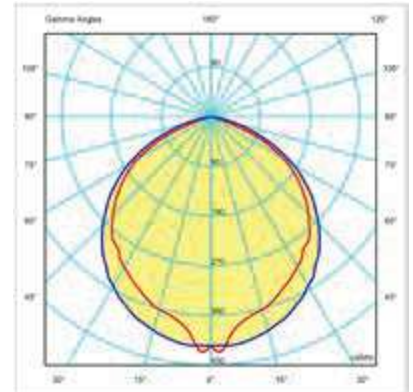


**17 - T8 - Asymmetrical beam**



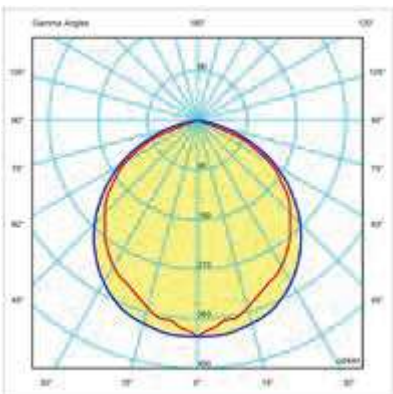
**18 - T5 - Asymmetrical beam**

## LED ATEX - LIGHT FIXTURES

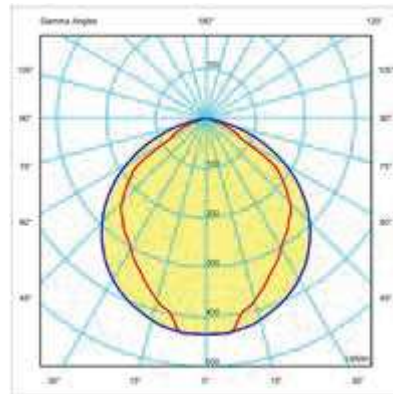


**19 - Extra wide beam - 24W**

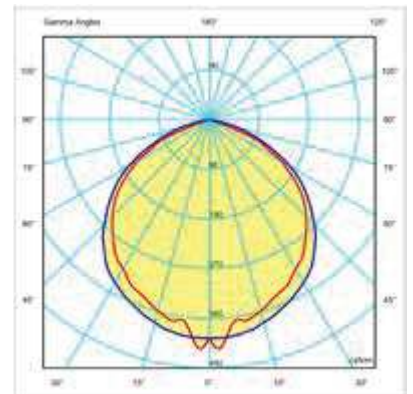
## LED ATEX - LIGHT FIXTURES



**20 - Extra wide beam - 38W**

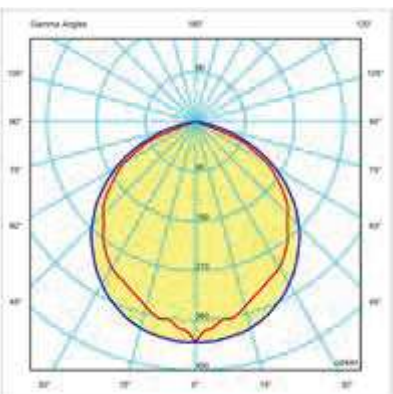


**21 - Extra wide beam - 44W**



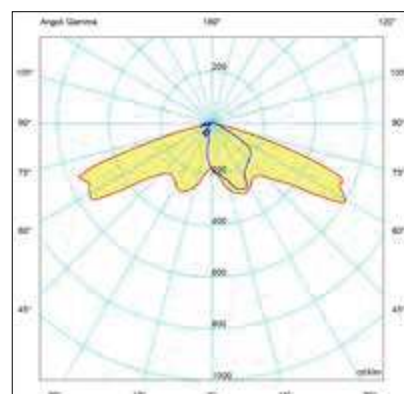
**22 - Extra wide beam - 19W**

## LED ATEX - LIGHT FIXTURES

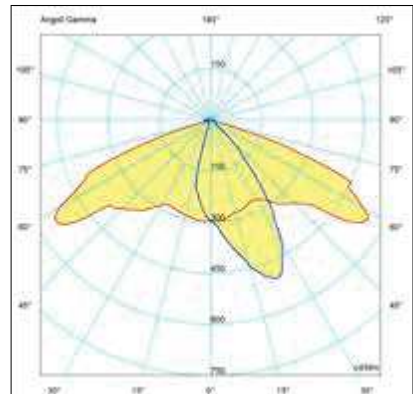


**23 - Extra wide beam - 36W**

## LED - ROADWAY LIGHTING SYSTEM



**24 - Roadway wide beam ST1**

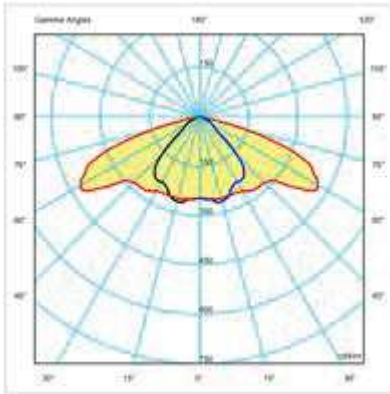


**25 - Roadway narrow beam ST2**

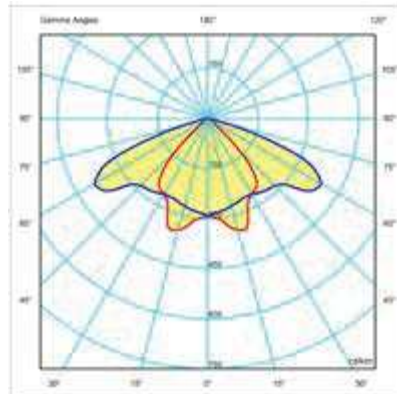


Assessed in accredited laboratories in compliance with UNI EN 13032-1-4 and IES LM 79-08 standards

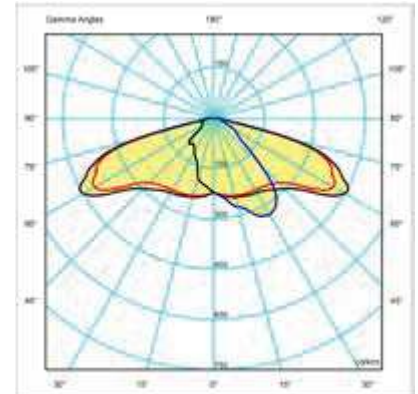
## LED - TUNNEL



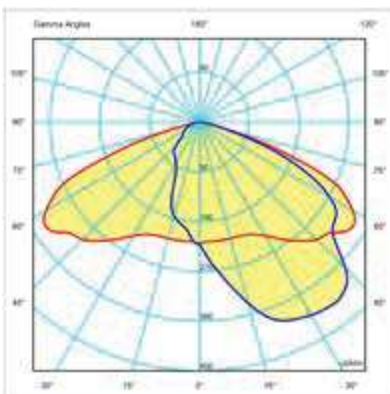
**26** - Symmetrical beam PS1



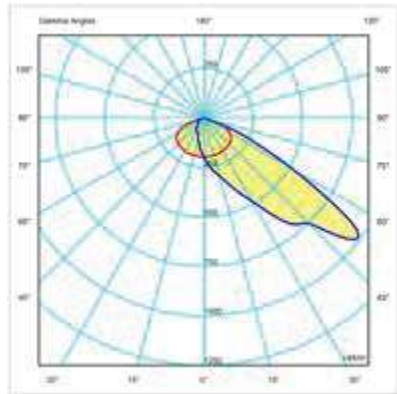
**27** - Symmetrical and transversal beam PS3



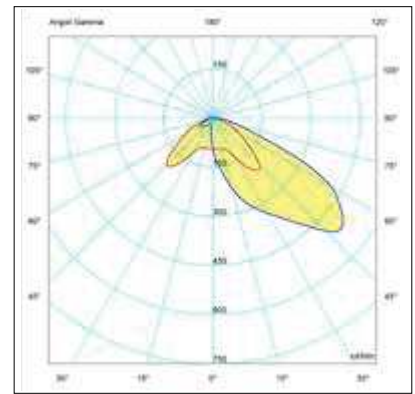
**28** - Asymmetrical 20° beam PA1



**29** - Asymmetrical 25° beam PA3

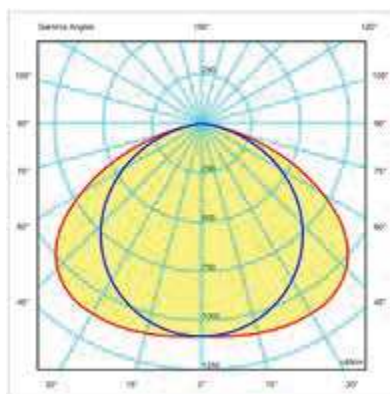


**30** - Counter-beam RS1

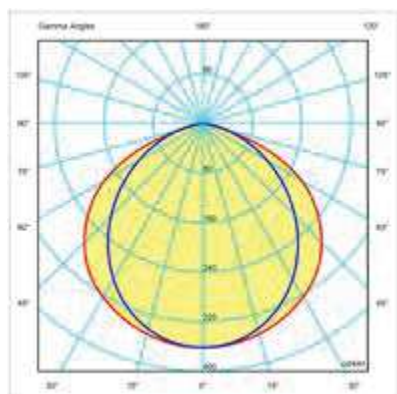


**31** - Counter-beam 50° RS2

## FLUORESCENT - MARINE LIGHT FIXTURES



**32** - T5 -2 tubes - Transparent



**33** - T5 - 2 tubes - Opaline







# ATEX

## SECTION



ATEX





## MOBILE PLUGS

### X-CEE-EX

plugs in antistatic insulating material

page 298



zone 2-21-22

## INTERLOCKED SOCKET-OUTLETS

### TAIS-EX

interlocked socket-outlets in antistatic thermosetting GRP

page 300



zone 2-21-22

### TAIS-EX

boxes in antistatic thermosetting GRP for combinations

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zone 2-21-22

### ALUPRES-EX

interlocked socket-outlets in aluminium alloy

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zone 2-21-22

### ALUPRES-EX

boxes in aluminium alloy for combinations

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zone 2-21-22

## JUNCTION BOXES

### TAIS-EX

boxes in antistatic thermosetting GRP

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zone 1-2-21-22

### ALUPRES-EX

boxes in aluminium alloy

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zone 1-2-21-22

### UNI-EX

Cable glands and adaptors

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zone 1-2-21-22

### UNI-EX

cable glands for armoured cables

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zone 1-2-21-22



CONTROL DEVICES


**CAM-EX**  
rotary devices in antistatic  
thermosetting GRP



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zone 2-21-22

**CAM-EX**  
rotary devices  
in aluminium alloy



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zone 2-21-22

SMALL CONTROL AND SIGNALLING DEVICES

**TAIS MIGNON-EX**  
small devices in antistatic  
thermosetting GRP



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zone 2-22


**RONDÓ-EX**  
small devices  
in aluminium alloy



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zone 2-22


**ALARM-EX**  
sirens



page 328

zone 2-21-22

**ALARM-EX**  
bells



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zone 2-22

LIGHTING DEVICES

**RINO-EX**  
fluorescent light fixtures  
stainless steel



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zone 1-2-21-22

**RINO-EX**  
fluorescent light fixtures  
stainless steel



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zone 2-21-22

**RINO-EX**  
oval and round light  
fixtures in aluminium alloy



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zone 2-21-22

**RINO-EX**  
LED light fixtures  
stainless steel



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zone 2-22

**MITO-EX**  
devices in aluminium alloy



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zone 22



ZONE	GAS			DUST		
	0	1	2	20	21	22
USABLE			X		X	X

Low-voltage straight mobile plugs, standard type EN 60309-1 and EN 60309-2, suitable for use in explosion hazardous areas, as defined by the ATEX Directive 2014/34/EU.

The quality of the materials, the terminals with cage clamps throughout the range, the broad entry cable clamping, the total protection rating, the resistance to impacts and crushing make this range suitable for use in the harshest environments.


The range offers maximum ease of use, with details such as easy cable coupling, the possibility of use in suspension, the absence of screws to fix the grips and ergonomic shapes.

**Cable features:**

Rated current (A)	Poles	Entry cable diameter (mm)	Cable cross-section range (mm <sup>2</sup> )
16	2P+⚡	6.3 - 18	1 - 10
	3P+⚡		
	3P+N+⚡	9 - 23	
32	2P+⚡	9 - 23	1 - 10
	3P+⚡		
	3P+N+⚡	13 - 27	
63	2P+⚡	14 - 36	6 - 25
	3P+⚡		
	3P+N+⚡		

Compliance with standards  
**Directive ATEX 2014/34/EU**  
**EN 60079-0**  
**EN 60079-15**  
**EN 60079-31**

**Directive LVD 2014/35/EU**  
**EN 60309-1**  
**EN 60309-2**

Atex execution   
**Ex nA IIC T6 Gc**  
**Ex tb IIIC T 90°C Db**

Casing material **High-thickness antistatic technopolymer**

Surface resistance **<10<sup>9</sup> Ω**  
**(prevention of electrostatic charge accumulation)**

Protection rating (IP according to IEC/EN 60529) **IP66/IP67**

Colour **RAL 9005 (black)**

Rated current **16A - 32A - 63A**

Operating voltage **50V - 500V**

Operating frequency **50 - 60Hz**

Insulation voltage **500V**

Operating temperature **-40°C - +60°C**





### SUITABLE FOR ZONE 2 (GAS) AND 21 - 22 (DUST)



High-performance straight mobile plugs 50-60Hz **IP66/IP67**

Rated current (A)	Rated voltage (V)	Voltage colour	Poles	h ref.	Palazzoli code	Pack Qty
16	110	Yellow	2P+⊕	4	<b>760124EX</b>	1
	110	Yellow	3P+⊕	4	<b>760134EX</b>	1
	110	Yellow	3P+N+⊕	4	<b>760144EX</b>	1
	230	Blue	2P+⊕	6	<b>760126EX</b>	1
	230	Blue	3P+⊕	9	<b>760139EX</b>	1
	230	Blue	3P+N+⊕	9	<b>760149EX</b>	1
	400	Red	2P+⊕	9	<b>760129EX</b>	1
	400	Red	3P+⊕	6	<b>760136EX</b>	1
	400	Red	3P+N+⊕	6	<b>760146EX</b>	1
	500	Black	3P+⊕	7	<b>760137EX</b>	1
	500	Black	3P+N+⊕	7	<b>760147EX</b>	1
	32	110	Yellow	2P+⊕	4	<b>760224EX</b>
110		Yellow	3P+⊕	4	<b>760234EX</b>	1
110		Yellow	3P+N+⊕	4	<b>760244EX</b>	1
230		Blue	2P+⊕	6	<b>760226EX</b>	1
230		Blue	3P+⊕	9	<b>760239EX</b>	1
230		Blue	3P+N+⊕	9	<b>760249EX</b>	1
400		Red	2P+⊕	9	<b>760229EX</b>	1
400		Red	3P+⊕	6	<b>760236EX</b>	1
400		Red	3P+N+⊕	6	<b>760246EX</b>	1
500		Black	3P+⊕	7	<b>760237EX</b>	1
500		Black	3P+N+⊕	7	<b>760247EX</b>	1
63		110	Yellow	2P+⊕	4	<b>760324EX</b>
	110	Yellow	3P+⊕	4	<b>760334EX</b>	1
	110	Yellow	3P+N+⊕	4	<b>760344EX</b>	1
	230	Blue	2P+⊕	6	<b>760326EX</b>	1
	230	Blue	3P+⊕	9	<b>760339EX</b>	1
	230	Blue	3P+N+⊕	9	<b>760349EX</b>	1
	400	Red	2P+⊕	9	<b>760329EX</b>	1
	400	Red	3P+⊕	6	<b>760336EX</b>	1
	400	Red	3P+N+⊕	6	<b>760346EX</b>	1
	500	Black	3P+⊕	7	<b>760337EX</b>	1
	500	Black	3P+N+⊕	7	<b>760347EX</b>	1



Watertight caps for plugs **IP66/IP67**

Rated current (A)	Poles	Palazzoli code	Pack Qty
16A	2P+⊕	<b>476903EX</b>	1
	3P+⊕	<b>476913EX</b>	1
	3P+N+⊕	<b>476923EX</b>	1
32A	2P+⊕ / 3P+⊕	<b>476905EX</b>	1
	3P+N+⊕	<b>476925EX</b>	1
63A	2P+⊕ / 3P+⊕ / 3P+N+⊕	<b>476907EX</b>	1
125A	2P+⊕ / 3P+⊕ / 3P+N+⊕	<b>476909EX</b>	1

Features: ensures the IP67 protection rating when the plug is not in use.



ZONE	GAS			DUST		
	0	1	2	20	21	22
USABLE			X		X	X

Watertight wall-mounted interlocked socket-outlets with housing in Palazzoli antistatic thermosetting GRP for use in explosion hazardous areas, as defined in the ATEX Directive 2014/34/EU.

The cover is attached to the body by means of stainless steel screws, while the sealing is ensured by a reinforced gasket in non-ageing elastomer which ensures an IP66 protection rating.

The interlock mechanism is made of metal, and the operation handle is category AC23A-AC3 at rated current with conditional short-circuit current  $\geq 10kA$ .

Rated operating current:		16A	20A 32A	40A 63A
<b>Thermal current Ith</b>	<b>A</b>	<b>16</b>	<b>32</b>	<b>63</b>
AC21A	415V	A	16	32
	500V			
AC22A	415V	A	16	32
	500V			
AC23A	230V	A	16	32
	400V			
	500V			
AC23A	230V	kW	4.5	8.5
	400V		7.5	15
	500V		8.5	17
AC3	230V	kW	4.5	8.5
	400V		7.5	15
	500V		8.5	17

Wiring data:		16A	20A 32A	40A 63A
Entry cable diameter	mm	12 - 18	16 - 25	22 - 32
Entry cable sections	mm <sup>2</sup>	1 - 10		6 - 16
Tightening torque	Nm	2		

Compliance with standards  
**Directive ATEX 2014/34/EU**  
**EN 60079-0**  
**EN 60079-15**  
**EN 60079-31**

**Directive LVD 2014/35/EU**  
**EN 60309-1**  
**EN 60309-2**  
**EN 60309-4**

**II 3G 2D**

Atex execution  
**(sockets)**  
**Ex nR IIC T5/T6 Gc**  
**Ex tb IIIC T 80°C...140 °C Db**  
**(table on page 301)**  
**(boxes)**  
**Ex nR IIC Gc**  
**Ex tb IIIC Db**

Casing material **Palazzoli antistatic thermosetting GRP**

Surface resistance **<10<sup>9</sup> Ω**  
**(prevention of electrostatic charge accumulation)**

Protection rating (IP according to IEC/EN 60529) **IP66**

Colour **RAL 9005 (black)**

Resistance to abnormal heat and fire ("Glow wire" according to IEC/EN 60695-2-10) **960°C**

Flammability rating (according to UL94) **V0**

Rated current **16A - 32A - 63A**

Operating Voltage **50V - 500V**

Operating frequency **50 - 60Hz**

Conditional short-circuit current isolator switch  **$\geq 10kA$**

Insulation voltage **500V**

Insulation class **II**

Operating temperature **-40°C - +65°C**  
**-40°C ÷ +40°C sockets with fuses and MCB**  
**(table on page 301)**







**TABLE OF AMBIENT TEMPERATURES AND ATEX MARKINGS**

Version	In	Ambient temperature	Temperature class	Maximum surface temperature	Cable temperature
<b>DUST</b>					
Direct	16A	-40°C+50°C	-	T90°C	-
		-40°C+65°C		T105°C	95°C
	32A	-40°C+50°C		T110°C	-
		-40°C+65°C		T125°C	95°C
	63A	-40°C+50°C		T125°C	-
		-40°C+65°C		T140°C	95°C
Fuse	16A	-40°C - +40°C	T80°C	-	
	32A		T100°C	-	
	63A		T115°C	105°C	
MCB	16A	-40°C - +40°C	T80°C	-	
	32A		T100°C	-	
	63A		T115°C	105°C	
<b>GAS</b>					
Direct	16A	-40°C+50°C	T6	-	-
		-40°C+65°C	T5	-	95°C
	32A	-40°C+50°C	T6	-	-
		-40°C+65°C	T5	-	95°C
	63A	-40°C+50°C	T6	-	-
		-40°C+65°C	T5	-	95°C
Fuse	16A	-40°C - +40°C	T6	-	-
	20A			-	-
	40A			-	-
MCB	16A	-40°C - +40°C	T6	-	-
	32A			-	-
	40A			-	-

**TABLE OF THE MAXIMUM DISSIPATED POWER OF THE BOXES FOR SETS OF SOCKETS**

Palazzoli code	-40 - +40°C (W)	-40 - +50°C (W)	-40 - +65°C (W)
<b>DUST</b>			
532240EX	18	12	6
532242EX	23	22	11
532244EX	25	25	23
<b>GAS</b>			
532240EX	8	8	6
532242EX	8	7	7
532244EX	9	8	8

Boxes on page 304

**TABLE FOR THE SELECTION OF PLUGS THAT CAN BE COMBINED WITH THE SOCKETS FOR ZONE 2**

Rated current			
Socket-outlet with fuses	Socket-outlet with MCB	Socket-outlet without protection	Plug
16A	16A	16A	16A
20A	32A	32A	32A
40A	40A	63A	63A

**SUITABLE FOR ZONES 21-22 (DUST)**

MODULE 125



**Modular interlocked socket-outlets** in thermosetting GRP for wall-mounting 50-60Hz IP66

Rated current (A)	Rated voltage (V)	Voltage colour	Poles	h ref.	Palazzoli code	Pack Qty	
16	110	Yellow	2P+⊕	4	<b>467124EX</b>	1	
	110	Yellow	3P+⊕	4	<b>467134EX</b>	1	
	110	Yellow	3P+N+⊕	4	<b>467144EX</b>	1	
	230	Blue	2P+⊕	6	<b>467126EX</b>	1	
	230	Blue	3P+⊕	9	<b>467139EX</b>	1	
	230	Blue	3P+N+⊕	9	<b>467149EX</b>	1	
	M25 entry	400	Red	2P+⊕	9	<b>467129EX</b>	1
		400	Red	3P+⊕	6	<b>467136EX</b>	1
		400	Red	3P+N+⊕	6	<b>467146EX</b>	1
		500	Black	3P+⊕	7	<b>467137EX</b>	1
		500	Black	3P+N+⊕	7	<b>467147EX</b>	1
		32	110	Yellow	2P+⊕	4	<b>470224EX</b>
110			Yellow	3P+⊕	4	<b>470234EX</b>	1
110			Yellow	3P+N+⊕	4	<b>470244EX</b>	1
230			Blue	2P+⊕	6	<b>470226EX</b>	1
230			Blue	3P+⊕	9	<b>470239EX</b>	1
230			Blue	3P+N+⊕	9	<b>470249EX</b>	1
M32 entry			400	Red	2P+⊕	9	<b>470229EX</b>
	400		Red	3P+⊕	6	<b>470236EX</b>	1
	400		Red	3P+N+⊕	6	<b>470246EX</b>	1
	500		Black	3P+⊕	7	<b>470237EX</b>	1
	500		Black	3P+N+⊕	7	<b>470247EX</b>	1
	63		110	Yellow	2P+⊕	4	<b>470324EX</b>
		110	Yellow	3P+⊕	4	<b>470334EX</b>	1
		110	Yellow	3P+N+⊕	4	<b>470344EX</b>	1
		230	Blue	2P+⊕	6	<b>470326EX</b>	1
		230	Blue	3P+⊕	9	<b>470339EX</b>	1
		230	Blue	3P+N+⊕	9	<b>470349EX</b>	1
		M40 entry	400	Red	2P+⊕	9	<b>470329EX</b>
400			Red	3P+⊕	6	<b>470336EX</b>	1
400			Red	3P+N+⊕	6	<b>470346EX</b>	1
500			Black	3P+⊕	7	<b>470337EX</b>	1
500			Black	3P+N+⊕	7	<b>470347EX</b>	1

Equipment included: cable gland in technopolymer.

Technical accessories:





SUITABLE FOR ZONE 21-22 (DUST)

MODULE 125



Modular interlocked socket-outlets in thermosetting GRP with fuse holder base for wall-mounting 50-60Hz IP66

Table with 7 columns: Rated current (A), Rated voltage (V), Voltage colour, Poles, h ref., Palazzoli code, Pack Qty. Rows include configurations for 16, 32, and 63 M25/M40 entries with various pole and current ratings.

Equipment included: cable gland in technopolymer. Features: fuses not included. Codes 472612EX, 472622EX, 472632EX have a cable gland with entry diameter of 16-26 mm.

Technical accessories:



MODULE 125



Modular interlocked socket-outlets in thermosetting GRP with MCB for wall-mounting 50-60Hz IP66

Table with 7 columns: Rated current (A), Rated voltage (V), Voltage colour, Poles, h ref., Palazzoli code, Pack Qty. Rows include configurations for 16, 32, and 63 M25/M40 entries with various pole and current ratings, including switch options.

Equipment included: cable gland in technopolymer. Features: voltage presence indicator light. Code 464722EX has a cable gland with an entry diameter of 16-26 mm.

Technical accessories:



Software for the design and cost estimation of distribution boards

For any application need you can create your own distribution boards online with TAIS-EX sockets for use in explosion hazardous areas



The Tais-EX software is active on www.palazzoli.com

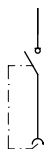


### SUITABLE FOR ZONE 2 (GAS)

MODULE 125



**Modular interlocked socket-outlets** in thermosetting GRP for wall-mounting 50-60Hz IP66

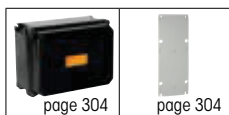


Rated current (A)	Rated voltage (V)	Voltage colour	Poles	h ref.	Palazzoli code	Pack Qty
16 M25 entry	110	Yellow	2P+⊕	4	<b>467124EX</b>	1
	110	Yellow	3P+⊕	4	<b>467134EX</b>	1
	110	Yellow	3P+N+⊕	4	<b>467144EX</b>	1
	230	Blue	2P+⊕	6	<b>467126EX</b>	1
	230	Blue	3P+⊕	9	<b>467139EX</b>	1
	230	Blue	3P+N+⊕	9	<b>467149EX</b>	1
	400	Red	2P+⊕	9	<b>467129EX</b>	1
	400	Red	3P+⊕	6	<b>467136EX</b>	1
	400	Red	3P+N+⊕	6	<b>467146EX</b>	1
	500	Black	3P+⊕	7	<b>467137EX</b>	1
500	Black	3P+N+⊕	7	<b>467147EX</b>	1	
32 M32 entry	110	Yellow	2P+⊕	4	<b>470224EX</b>	1
	110	Yellow	3P+⊕	4	<b>470234EX</b>	1
	110	Yellow	3P+N+⊕	4	<b>470244EX</b>	1
	230	Blue	2P+⊕	6	<b>470226EX</b>	1
	230	Blue	3P+⊕	9	<b>470239EX</b>	1
	230	Blue	3P+N+⊕	9	<b>470249EX</b>	1
	400	Red	2P+⊕	9	<b>470229EX</b>	1
	400	Red	3P+⊕	6	<b>470236EX</b>	1
	400	Red	3P+N+⊕	6	<b>470246EX</b>	1
	500	Black	3P+⊕	7	<b>470237EX</b>	1
500	Black	3P+N+⊕	7	<b>470247EX</b>	1	
63 M40 entry	110	Yellow	2P+⊕	4	<b>470324EX</b>	1
	110	Yellow	3P+⊕	4	<b>470334EX</b>	1
	110	Yellow	3P+N+⊕	4	<b>470344EX</b>	1
	230	Blue	2P+⊕	6	<b>470326EX</b>	1
	230	Blue	3P+⊕	9	<b>470339EX</b>	1
	230	Blue	3P+N+⊕	9	<b>470349EX</b>	1
	400	Red	2P+⊕	9	<b>470329EX</b>	1
	400	Red	3P+⊕	6	<b>470336EX</b>	1
	400	Red	3P+N+⊕	6	<b>470346EX</b>	1
	500	Black	3P+⊕	7	<b>470337EX</b>	1
500	Black	3P+N+⊕	7	<b>470347EX</b>	1	

**Equipment included:** cable gland in technopolymer.

**Notes:** the 63A socket-outlets installed side by side in combination can be used only up to 50A.

**Technical accessories:**



MODULE 125



**Modular interlocked socket-outlets** in thermosetting GRP with **fuse holder base** for wall-mounting 50-60Hz IP66



Rated current (A)	Rated voltage (V)	Voltage colour	Poles	h ref.	Palazzoli code	Pack Qty
16 M25 entry fuses 10.3x38	110	Yellow	2P+⊕	4	<b>463124EX</b>	1
	110	Yellow	3P+⊕	4	<b>463134EX</b>	1
	110	Yellow	3P+N+⊕	4	<b>463144EX</b>	1
	230	Blue	2P+⊕	6	<b>463126EX</b>	1
	230	Blue	3P+⊕	9	<b>463139EX</b>	1
	230	Blue	3P+N+⊕	9	<b>463149EX</b>	1
	400	Red	2P+⊕	9	<b>463129EX</b>	1
	400	Red	3P+⊕	6	<b>463136EX</b>	1
	400	Red	3P+N+⊕	6	<b>463146EX</b>	1
	500	Black	3P+⊕	7	<b>463137EX</b>	1
500	Black	3P+N+⊕	7	<b>463147EX</b>	1	
20 M32 entry fuses 14x51	110	Yellow	2P+⊕	4	<b>472611EX</b>	1
	110	Yellow	3P+⊕	4	<b>472711EX</b>	1
	110	Yellow	3P+N+⊕	4	<b>472811EX</b>	1
	230	Blue	2P+⊕	6	<b>472621EX</b>	1
	230	Blue	3P+⊕	9	<b>472721EX</b>	1
	230	Blue	3P+N+⊕	9	<b>472821EX</b>	1
	400	Red	2P+⊕	9	<b>472631EX</b>	1
	400	Red	3P+⊕	6	<b>472731EX</b>	1
	400	Red	3P+N+⊕	6	<b>472831EX</b>	1
	500	Black	3P+⊕	7	<b>472751EX</b>	1
500	Black	3P+N+⊕	7	<b>472841EX</b>	1	
40 M32 entry fuses 14x51	110	Yellow	2P+⊕	4	<b>463324EX</b>	1
	110	Yellow	3P+⊕	4	<b>463334EX</b>	1
	110	Yellow	3P+N+⊕	4	<b>463344EX</b>	1
	230	Blue	2P+⊕	6	<b>463326EX</b>	1
	230	Blue	3P+⊕	9	<b>463339EX</b>	1
	230	Blue	3P+N+⊕	9	<b>463349EX</b>	1
	400	Red	2P+⊕	9	<b>463329EX</b>	1
	400	Red	3P+⊕	6	<b>463336EX</b>	1
	400	Red	3P+N+⊕	6	<b>463346EX</b>	1
	500	Black	3P+⊕	7	<b>463337EX</b>	1
500	Black	3P+N+⊕	7	<b>463347EX</b>	1	

**Equipment included:** cable gland in technopolymer.

**Features:** fuses not included.

**Technical accessories:**





**SUITABLE FOR ZONE 2 (GAS)**

**SUITABLE FOR ZONE 2 (GAS) AND 21-22 (DUST)**

MODULE 125



**Modular interlocked socket-outlets** in thermosetting GRP with **MCB** for wall-mounting 50-60Hz **IP66**

Rated current (A)	Rated voltage (V)	Voltage colour	Poles	h ref.	Palazzoli code	Pack Qty
16 M25 entry switch 4.5 kA curve C	110	Yellow	2P+⊕	4	<b>464210EX</b>	1
	110	Yellow	3P+⊕	4	<b>464310EX</b>	1
	110	Yellow	3P+N+⊕	4	<b>464410EX</b>	1
	230	Blue	2P+⊕	6	<b>464220EX</b>	1
	230	Blue	3P+⊕	9	<b>464320EX</b>	1
	230	Blue	3P+N+⊕	9	<b>464420EX</b>	1
	400	Red	2P+⊕	9	<b>464230EX</b>	1
	400	Red	3P+⊕	6	<b>464330EX</b>	1
	400	Red	3P+N+⊕	6	<b>464430EX</b>	1
	32 M32 entry switch 6 kA curve C	110	Yellow	3P+⊕	4	<b>464711EX</b>
110		Yellow	3P+N+⊕	4	<b>464811EX</b>	1
230		Blue	2P+⊕	6	<b>464621EX</b>	1
230		Blue	3P+⊕	9	<b>464721EX</b>	1
400		Red	3P+⊕	6	<b>464731EX</b>	1
40 M32 entry switch 10kA curve C	230	Blue	3P+⊕	9	<b>464339EX</b>	1
	400	Red	3P+⊕	6	<b>464336EX</b>	1
	400	Red	3P+N+⊕	6	<b>464346EX</b>	1

**Equipment included:** cable gland in technopolymer.  
**Features:** voltage presence indicator light.



Device for testing the **restricted breathing** of the sockets

Socket rated current	No. of poles	Palazzoli code	Pack Qty
16A	2P+⊕	<b>478126</b>	1
	3P+⊕	<b>478136</b>	1
	3P+N+⊕	<b>478146</b>	1
20A/32A	2P+⊕/3P+⊕	<b>478206</b>	1
	3P+N+⊕	<b>478246</b>	1
40A/63A	2P+⊕/3P+⊕/3P+N+⊕	<b>478306</b>	1

**Equipment included:** transparent tube to be applied to the testing device.  
**Instructions:** insert the testing device into the socket-outlet (test port), tighten the device's ring nut and do the testing according to Art. 33.7.1 of EN60079-15 standards with the suitable measuring device.



**Boxes** in thermosetting GRP with blind cover for the creation of multiple socket boards **IP66**

Outer dimensions (mm)	Power dissipation Ta = +40°C* (W)		No. of installable devices	Palazzoli code	Pack Qty
	Gas	Dust			
125x185x125	8	18	1	<b>532240EX</b>	1
250x185x125	8	23	2	<b>532242EX</b>	1
380x185x125	9	25	3	<b>532244EX</b>	1

**Features:** supplied with drilling template. The protection rating and the consequent certification of the distribution board are guaranteed if the holes in the boxes are made with the special set of hole cutters of the TAIS series, code 538410 according to the instructions provided with the product.  
\*For Ta values >40°C see the table on page 301.



**Mounting plates** in thermosetting GRP with guided system for the creation of multiple socket boards

Outer dimensions (mm)	No. of installable devices	Palazzoli code	Pack Qty
125x630	1	<b>538800</b>	1
250x630	2	<b>538802</b>	1
380x630	3	<b>538804</b>	1

**Equipment included:** pre-arranged with brass grub screws and stainless steel screws for fastening devices.  
**Features:** the guided positioning system simplifies the assembly of the devices onto the plate.



**Fittings** for coupling sockets with boxes **IP66**

From hole	To hole	Palazzoli code	Pack Qty
M25	M25	<b>538421EX</b>	1
M32	M32	<b>538429EX</b>	1
M40	M40	<b>538436EX</b>	1

**Features:** they are required to couple sockets with boxes.



**Set of hole cutters** cup shaped in steel for quick drill connection tungsten carbide teeth specific for thermosetting GRP

Hole type	Diameter (mm)	Palazzoli code	Pack Qty
M20 - M25 - M32 - M40	20.5 - 25.5 - 32.5 - 40.5	<b>538410</b>	1

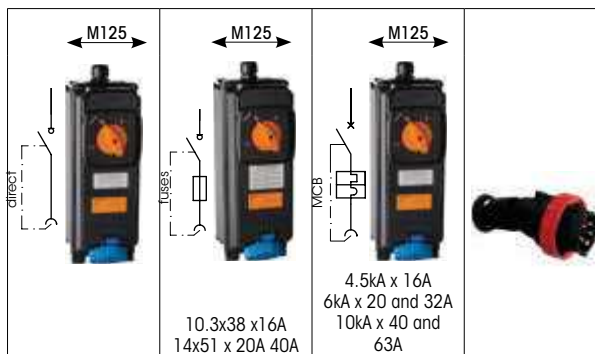


**GUIDE TO THE CREATION OF COMPOSITIONS WITH TAIS-EX SOCKETS**

**ATEX**  
 II 2D Ex tb IIC  
 T 80°...140°C  
 Db  


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 II 3G Ex nR IIC  
 T5/T6 Gc



**TUV CERTIFICATES WIRED BY THE INSTALLER**

**Dusts zone 21 - 22**

**538800**  
 1 socket

**538802**  
 2 sockets

DUST ZONE 21-22								
<b>16A</b>	230V	2P+⊕	M25	●	<b>467126EX</b>	<b>463126EX</b>	<b>464220EX</b>	<b>760126EX</b>
	400V	3P+⊕	M25	●	<b>467136EX</b>	<b>463136EX</b>	<b>464330EX</b>	<b>760136EX</b>
	400V	3P+N+⊕	M25	●	<b>467146EX</b>	<b>463146EX</b>	<b>464430EX</b>	<b>760146EX</b>
<b>32A</b>	230V	2P+⊕	M32	●	<b>470226EX</b>	<b>472621EX</b>	<b>464621EX</b>	<b>760226EX</b>
	400V	3P+⊕	M32	●	<b>470236EX</b>	<b>472731EX</b>	<b>464731EX</b>	<b>760236EX</b>
	400V	3P+N+⊕	M32	●	<b>470246EX</b>	<b>472831EX</b>	<b>464831EX</b>	<b>760246EX</b>
<b>63A</b>	400V	3P+⊕	M40	●	<b>470336EX</b>	<b>472732EX</b>	<b>464732EX</b>	<b>760336EX</b>
	400V	3P+N+⊕	M40	●	<b>470346EX</b>	<b>472832EX</b>	<b>464832EX</b>	<b>760346EX</b>

**Gas Zone 2 from 16A to 20A**

**538800**  
 1 socket

**538802**  
 2 sockets

Common equipment for dust and gas: cable gland in technopolymer

GAS ZONE 2								
<b>16A</b>	230V	2P+⊕	M25	●	<b>467126EX</b>	<b>463126EX</b>	<b>464220EX</b>	<b>760126EX</b>
	400V	3P+⊕	M25	●	<b>467136EX</b>	<b>463136EX</b>	<b>464330EX</b>	<b>760136EX</b>
	400V	3P+N+⊕	M25	●	<b>467146EX</b>	<b>463146EX</b>	<b>464430EX</b>	<b>760146EX</b>
<b>20A</b>	230V	2P+⊕	M32	●		<b>472621EX</b>		<b>760226EX</b>
	400V	3P+⊕	M32	●		<b>472731EX</b>		<b>760236EX</b>
	400V	3P+N+⊕	M32	●		<b>472831EX</b>		<b>760246EX</b>
<b>32A</b>	230V	2P+⊕	M40	●	<b>470226EX</b>		<b>464621EX</b>	<b>760226EX</b>
	400V	3P+⊕	M40	●	<b>470236EX</b>		<b>464731EX</b>	<b>760236EX</b>
	400V	3P+N+⊕	M40	●	<b>470246EX</b>		<b>464831EX</b>	<b>760246EX</b>
<b>40A</b>	400V	3P+⊕	M40	●		<b>463336EX</b>	<b>464336EX</b>	<b>760336EX</b>
	400V	3P+N+⊕	M40	●		<b>463346EX</b>	<b>464346EX</b>	<b>760346EX</b>
<b>63A</b>	400V	3P+⊕	M40	●	<b>470336EX</b>			<b>760336EX</b>
	400V	3P+N+⊕	M40	●	<b>470346EX</b>			<b>760346EX</b>

**Gas Zone 2 32A to 63A**

**538800**  
 1 socket

**538804**  
 2 sockets

**COMMON ACCESSORIES**

**Fitting**

**538421EX** M25

**538429EX** M32

**538436EX** M40

**Box**

**532240EX** 125x185 x 1 socket

**532242EX** 250x185 x 2 sockets

**532244EX\*** 380x185 x 2 sockets

**Plate**

**538800** 125x360 x 1 socket

**538802** 250x630 x 2 sockets

**538804\*** 380x630 x 2 sockets

\* For 3 sockets only certified and wired by Palazzoli





ZONE	GAS			DUST		
	0	1	2	20	21	22
USABLE			X		X	X

Wall-mounted interlocked socket-outlets in aluminium alloy suitable for applications in explosion hazardous areas as defined in ATEX Directive 2014/34/UE. Back box and cover are treated with ecological anticorrosion passivation with fluoro-zirconium treatment and finished with hot polymerised scratch-resistant, non-ageing, non-toxic polyester painting. The colour of the socket is RAL 9005 black. The interlock mechanism is made of metal, and the switch is an AC23A-AC3 class switch at rated current with conditional short-circuit current  $\geq 10\text{kA}$ . The cover is attached to the back box by means of stainless steel screws, the sealing is guaranteed by a gasket in non-ageing elastomer. Supplied with flange with cable gland in thermoplastic material.

Rated operating current:		16A	32A	40A 63A	
Thermal current I <sub>th</sub>	A	16	32	63	
AC21A	415V	A	16	32	
	500V				
AC22A	415V	A	16	32	
	500V				
AC23A	230V	A	16	32	
	400V				
	500V				
AC23A	230V	kW	4.5	8.5	20
	400V		7.5	15	34
	500V		8.5	17	44
AC3	230V	kW	4.5	8.5	18
	400V		7.5	15	31
	500V		8.5	17	40

Wiring data:		16A	32A	40A 63A
Entry cable diameter	mm	12 - 18	16 - 25	
Entry cable sections	mm <sup>2</sup>	1 - 10		6 - 16
Tightening torque	Nm	2		

Compliance with standards  
Directive ATEX 2014/34/EU  
EN 60079-0  
EN 60079-15  
EN 60079-31

Directive LVD 2014/35/EU  
EN 60309-1  
EN 60309-2  
EN 60309-4

II 3G 2D

Atex execution  
(sockets)  
Ex nR IIC T6 Gc  
Ex tb IIIC T 65°C...85 °C Db  
(Table on page 307)

(boxes)  
Ex nR IIC Gc  
Ex tb IIIC Db

Material Aluminium alloy

Surface treatment Passivation with fluoro-zirconium treatment

Paint Hot polymerised non-toxic, non-ageing polyester

Colour RAL 9005 (black)

Protection rating (IP according to IEC/EN 60529) IP66

Rated current 16A - 32A - 63A

Operating Voltage 50V - 500V

Operating frequency 50-60Hz

Conditional short-circuit current isolator switch  $\geq 10\text{kA}$

Insulation voltage 500V

Insulation class I

Operating temperature -40°C - +65°C  
-40°C - +40°C sockets with fuses  
(Table on page 307)





**TABLE OF AMBIENT TEMPERATURES AND ATEX MARKINGS**

Version	In	Ambient temperature	Temperature class	Maximum surface temperature	Cable temperature
<b>DUST</b>					
Direct	16A	-40°C - +60°C	-	T70°C	-
		-40°C - +65°C		T75°C	85°C
	32A	-40°C - +50°C		T70°C	-
		-40°C - +65°C		T85°C	95°C
	63A	-40°C - +45°C		T70°C	-
		-40°C - +55°C		T80°C	90°C
Fuse	16A	-40°C - +40°C	T65°C	-	
	32A		T75°C	-	
	63A		T80°C	105°C	
<b>GAS</b>					
Direct	16A	-40°C - +60°C	T6	-	-
		-40°C - +65°C			85°C
	32A	-40°C - +50°C			-
		-40°C - +65°C			95°C
	63A	-40°C - +45°C			-
		-40°C - +55°C			90°C
Fuse	16A	-40°C - +40°C	-	-	
	20A		-		
	40A		-		

**TABLE OF THE MAX. POWER DISSIPATION ALLOWED FOR SOCKET BOARD BOXES**

Palazzoli code	-40 - +40°C (W)	-40 - +45°C (W)	-40 - +50°C (W)	-40 - +55°C (W)	-40 da +60°C (W)	-40 - +65°C (W)
<b>DUST</b>						
511914EX	20	17	13	10	7	3
511919EX	42	35	28	21	14	7
<b>GAS</b>						
511914EX	13	13	13	10	7	3
511919EX	25	24	24	21	14	7

Boxes on page 309

**TABLE FOR THE SELECTION OF PLUGS THAT CAN BE COMBINED WITH THE SOCKETS FOR ZONE 2**

Rated current		
Socket with fuses	Socket-outlet without protection	Plug
16A	16A	16A
32A	32A	32A
40A	63A	63A

**SUITABLE FOR ZONE 21-22 (DUST)**

MODULE 125



**Modular interlocked socket-outlets** in aluminium alloy for wall-mounting 50-60Hz IP66

Rated current (A)	Rated voltage (V)	Voltage colour	Poles	h ref.	Palazzoli code	Pack Qty	
16	110	Yellow	2P+⊕	4	<b>466124EX</b>	1	
	110	Yellow	3P+⊕	4	<b>466134EX</b>	1	
	110	Yellow	3P+N+⊕	4	<b>466144EX</b>	1	
	230	Blue	2P+⊕	6	<b>466126EX</b>	1	
	230	Blue	3P+⊕	9	<b>466139EX</b>	1	
	230	Blue	3P+N+⊕	9	<b>466149EX</b>	1	
	M25 entry	400	Red	2P+⊕	9	<b>466129EX</b>	1
		400	Red	3P+⊕	6	<b>466136EX</b>	1
		400	Red	3P+N+⊕	6	<b>466146EX</b>	1
		500	Black	3P+⊕	7	<b>466137EX</b>	1
		500	Black	3P+N+⊕	7	<b>466147EX</b>	1
		32	110	Yellow	2P+⊕	4	<b>460224EX</b>
110	Yellow		3P+⊕	4	<b>460234EX</b>	1	
110	Yellow		3P+N+⊕	4	<b>460244EX</b>	1	
230	Blue		2P+⊕	6	<b>460226EX</b>	1	
230	Blue		3P+⊕	9	<b>460239EX</b>	1	
230	Blue		3P+N+⊕	9	<b>460249EX</b>	1	
M32 entry	400		Red	2P+⊕	9	<b>460229EX</b>	1
	400		Red	3P+⊕	6	<b>460236EX</b>	1
	400		Red	3P+N+⊕	6	<b>460246EX</b>	1
	500		Black	3P+⊕	7	<b>460237EX</b>	1
	500		Black	3P+N+⊕	7	<b>460247EX</b>	1
	63		110	Yellow	2P+⊕	4	<b>460324EX</b>
110		Yellow	3P+⊕	4	<b>460334EX</b>	1	
110		Yellow	3P+N+⊕	4	<b>460344EX</b>	1	
230		Blue	2P+⊕	6	<b>460326EX</b>	1	
230		Blue	3P+⊕	9	<b>460339EX</b>	1	
230		Blue	3P+N+⊕	9	<b>460349EX</b>	1	
M32 entry		400	Red	2P+⊕	9	<b>460329EX</b>	1
		400	Red	3P+⊕	6	<b>460336EX</b>	1
		400	Red	3P+N+⊕	6	<b>460346EX</b>	1
		500	Black	3P+⊕	7	<b>460337EX</b>	1
		500	Black	3P+N+⊕	7	<b>460347EX</b>	1

**Equipment included:** flange F1 with technopolymer cable gland on the upper side. Steel blind flange on bottom side.

**Technical accessories:**





**SUITABLE FOR ZONE 21-22 (DUST)**

**SUITABLE FOR ZONES 2 (GAS)**

MODULE 125



**Modular interlocked socket-outlets**  
in aluminium alloy  
with fuse-holder base  
for wall-mounting  
50-60Hz IP66



Rated current (A)	Rated voltage (V)	Voltage colour	Poles	h ref.	Palazzoli code	Pack Qty
16 M25 entry fuses 10.3x38	110	Yellow	2P+⊕	4	465124EX	1
	110	Yellow	3P+⊕	4	465134EX	1
	110	Yellow	3P+N+⊕	4	465144EX	1
	230	Blue	2P+⊕	6	465126EX	1
	230	Blue	3P+⊕	9	465139EX	1
	230	Blue	3P+N+⊕	9	465149EX	1
	400	Red	2P+⊕	9	465129EX	1
	400	Red	3P+⊕	6	465136EX	1
	400	Red	3P+N+⊕	6	465146EX	1
	500	Black	3P+⊕	7	465137EX	1
500	Black	3P+N+⊕	7	465147EX	1	
32 M32 entry fuses 14x51	110	Yellow	2P+⊕	4	472236EX	1
	110	Yellow	3P+⊕	4	472246EX	1
	110	Yellow	3P+N+⊕	4	472256EX	1
	230	Blue	2P+⊕	6	472336EX	1
	230	Blue	3P+⊕	9	472346EX	1
	230	Blue	3P+N+⊕	9	472356EX	1
	400	Red	2P+⊕	9	472436EX	1
	400	Red	3P+⊕	6	472446EX	1
	400	Red	3P+N+⊕	6	472456EX	1
	500	Black	3P+⊕	7	472546EX	1
500	Black	3P+N+⊕	7	472556EX	1	
63 M32 entry fuses E33 Dill	110	Yellow	2P+⊕	4	472237EX	1
	110	Yellow	3P+⊕	4	472247EX	1
	110	Yellow	3P+N+⊕	4	472257EX	1
	230	Blue	2P+⊕	6	472337EX	1
	230	Blue	3P+⊕	9	472347EX	1
	230	Blue	3P+N+⊕	9	472357EX	1
	400	Red	2P+⊕	9	472437EX	1
	400	Red	3P+⊕	6	472447EX	1
	400	Red	3P+N+⊕	6	472457EX	1
	500	Black	3P+⊕	7	472547EX	1
500	Black	3P+N+⊕	7	472557EX	1	

**Equipment included:** flange F1 with technopolymer cable gland on the upper side.  
Steel blind flange on bottom side.  
**Features:** fuses not included.

**Technical accessories:**



MODULE 125



**Modular interlocked socket-outlets**  
in aluminium alloy  
for wall-mounting  
50-60Hz IP66



Rated current (A)	Rated voltage (V)	Voltage colour	Poles	h ref.	Palazzoli code	Pack Qty
16 M25 entry	110	Yellow	2P+⊕	4	466124EX	1
	110	Yellow	3P+⊕	4	466134EX	1
	110	Yellow	3P+N+⊕	4	466144EX	1
	230	Blue	2P+⊕	6	466126EX	1
	230	Blue	3P+⊕	9	466139EX	1
	230	Blue	3P+N+⊕	9	466149EX	1
	400	Red	2P+⊕	9	466129EX	1
	400	Red	3P+⊕	6	466136EX	1
	400	Red	3P+N+⊕	6	466146EX	1
	500	Black	3P+⊕	7	466137EX	1
500	Black	3P+N+⊕	7	466147EX	1	
32 M32 entry	110	Yellow	2P+⊕	4	460224EX	1
	110	Yellow	3P+⊕	4	460234EX	1
	110	Yellow	3P+N+⊕	4	460244EX	1
	230	Blue	2P+⊕	6	460226EX	1
	230	Blue	3P+⊕	9	460239EX	1
	230	Blue	3P+N+⊕	9	460249EX	1
	400	Red	2P+⊕	9	460229EX	1
	400	Red	3P+⊕	6	460236EX	1
	400	Red	3P+N+⊕	6	460246EX	1
	500	Black	3P+⊕	7	460237EX	1
500	Black	3P+N+⊕	7	460247EX	1	
63 M32 entry	110	Yellow	2P+⊕	4	460324EX	1
	110	Yellow	3P+⊕	4	460334EX	1
	110	Yellow	3P+N+⊕	4	460344EX	1
	230	Blue	2P+⊕	6	460326EX	1
	230	Blue	3P+⊕	9	460339EX	1
	230	Blue	3P+N+⊕	9	460349EX	1
	400	Red	2P+⊕	9	460329EX	1
	400	Red	3P+⊕	6	460336EX	1
	400	Red	3P+N+⊕	6	460346EX	1
	500	Black	3P+⊕	7	460337EX	1
500	Black	3P+N+⊕	7	460347EX	1	

**Equipment included:** flange F1 with technopolymer cable gland on the upper side.  
Steel blind flange on bottom side.

**Technical accessories:**



**EX-AGENCIA CERTIFIED AND WIRED BY THE INSTALLER**

<p><b>Dusts Zone 21 - 22</b> <b>Gas Zone 2</b> <b>from 16A to 63A</b></p> <p>1 socket</p>	<p><b>Dusts Zone 21 - 22</b> <b>from 16A-32A</b></p> <p>2 sockets</p>	<p><b>Gas Zone 2</b> <b>from 16A-25A</b></p> <p>2 sockets</p>	<p><b>Dusts Zone 21 - 22</b> <b>Gas Zone 2</b> <b>from 16A to 63A</b></p> <p>2 sockets</p>
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**SUITABLE FOR ZONES 2 (GAS)**

**Suitable for ZONE 2 (GAS) and 21-22 (DUST)**

MODULE 125



**Modular interlocked socket-outlets** in aluminium alloy with **fuse-holder base** for wall-mounting **50-60Hz IP66**

Rated current (A)	Rated voltage (V)	Voltage colour	Poles	h ref.	Palazzoli code	Pack Qty	
16	110	Yellow	2P+⊕	4	<b>465124EX</b>	1	
	110	Yellow	3P+⊕	4	<b>465134EX</b>	1	
	110	Yellow	3P+N+⊕	4	<b>465144EX</b>	1	
	230	Blue	2P+⊕	6	<b>465126EX</b>	1	
	230	Blue	3P+⊕	9	<b>465139EX</b>	1	
	230	Blue	3P+N+⊕	9	<b>465149EX</b>	1	
	M25 entry fuses 10.3x38	400	Red	2P+⊕	9	<b>465129EX</b>	1
		400	Red	3P+⊕	6	<b>465136EX</b>	1
		400	Red	3P+N+⊕	6	<b>465146EX</b>	1
		500	Black	3P+⊕	7	<b>465137EX</b>	1
		500	Black	3P+N+⊕	7	<b>465147EX</b>	1
		500	Black	3P+N+⊕	7	<b>465147EX</b>	1
32	110	Yellow	2P+⊕	4	<b>472236EX</b>	1	
	110	Yellow	3P+⊕	4	<b>472246EX</b>	1	
	110	Yellow	3P+N+⊕	4	<b>472256EX</b>	1	
	230	Blue	2P+⊕	6	<b>472336EX</b>	1	
	230	Blue	3P+⊕	9	<b>472346EX</b>	1	
	230	Blue	3P+N+⊕	9	<b>472356EX</b>	1	
	M32 entry fuses 14x51	400	Red	2P+⊕	9	<b>472436EX</b>	1
		400	Red	3P+⊕	6	<b>472446EX</b>	1
		400	Red	3P+N+⊕	6	<b>472456EX</b>	1
		500	Black	3P+⊕	7	<b>472546EX</b>	1
		500	Black	3P+N+⊕	7	<b>472556EX</b>	1
		500	Black	3P+N+⊕	7	<b>472556EX</b>	1
40	110	Yellow	2P+⊕	4	<b>465324EX</b>	1	
	110	Yellow	3P+⊕	4	<b>465334EX</b>	1	
	110	Yellow	3P+N+⊕	4	<b>465344EX</b>	1	
	230	Blue	2P+⊕	6	<b>465326EX</b>	1	
	230	Blue	3P+⊕	9	<b>465339EX</b>	1	
	230	Blue	3P+N+⊕	9	<b>465349EX</b>	1	
	M32 entry fuses 14x51	400	Red	2P+⊕	9	<b>465329EX</b>	1
		400	Red	3P+⊕	6	<b>465336EX</b>	1
		400	Red	3P+N+⊕	6	<b>465346EX</b>	1
		500	Black	3P+⊕	7	<b>465337EX</b>	1
		500	Black	3P+N+⊕	7	<b>465347EX</b>	1
		500	Black	3P+N+⊕	7	<b>465347EX</b>	1

**Equipment included:** flange F1 with technopolymer cable gland on the upper side. Steel blind flange on bottom side.

**Features:** fuses not included.

**Notes:** 2 32A sockets side by side in combination can be used only up to 25A.



Device for testing the **restricted breathing** of the sockets

Socket rated current	No. of poles	Palazzoli code	Pack Qty
16A	2P+⊕	<b>478126</b>	1
	3P+⊕	<b>478136</b>	1
	3P+N+⊕	<b>478146</b>	1
20A/32A	2P+⊕/3P+⊕	<b>478206</b>	1
	3P+N+⊕	<b>478246</b>	1
40A/63A	2P+⊕/3P+⊕/3P+N+⊕	<b>478306</b>	1

**Equipment included:** transparent tube to be applied to the testing device.

**Instructions:** insert the testing device into the socket-outlet (test port), tighten the device's shade ring and do the testing according to Art. 33.7.1 of EN60079-15 Standards with the suitable measuring device.



**Boxes** in aluminium alloy with blind cover for composition of socket boards **IP66**

Outer dimensions (mm)	Power dissipation Ta = +40°C* (W)		Window type	Palazzoli code	Pack Qty
	Gas	Dust			
125x125	13	20	F1	<b>511914EX</b>	1
252x125	25	42	F2	<b>511919EX</b>	1

**Equipment included:** the code 511919Ex is equipped with windowed flange and M32 cable gland.

Back plate in galvanised steel.

Screws for internal and external earth connection.

\*For Ta values >40°C see table on page 307.



**Mounting plate** in painted steel for composition of socket boards

Outer dimensions (mm)	No. of installable devices	Palazzoli code	Pack Qty
125x558	1	<b>532876</b>	1
250x558	2	<b>532836</b>	1



**Flanges** in aluminium alloy with metric threading for windowed boxes **IP67**

For windows	Threading type	Projection (mm)	Palazzoli code	Pack Qty
F1	M25	18	<b>541055EX</b>	1
F1	M32	51	<b>540180EX</b>	1
F2	M32	51	<b>540185EX</b>	1
F2	M40	51	<b>540186EX</b>	1

**Technical accessories:**



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ZONE	GAS			DUST		
	0	1	2	20	21	22
USABLE		X	X		X	X

Modular watertight boxes in Palazzoli antistatic thermosetting GRP, suitable for use in explosion hazardous areas as provided for in the ATEX Directive ATEX 2014/34/EU.

The cover is attached to the back box by means of stainless steel screws while the sealing is guaranteed by a gasket in non-ageing elastomer.

The boxes are prepared for the installation of a DIN EN50022 rail for mounting modular terminal blocks and a back plate in anti-corrosion galvanised-tropicalised steel.

Table of the max. power dissipation allowed for TAIS-EX boxes

Code	-40°C - +40°C (W)	-40°C - +50°C (W)	-40°C - +60°C (W)	-40°C - +70°C (W)	-40°C - +75°C (W)
532200EX	18	12	8	4	2
532201EX	19	17	11	6	3
532202EX	23	22	15	7	4
532203EX	24	22	17	8	4
532204EX	25	25	23	15	8
532035EX*	8	6	4	2	1
532045EX	10	6	4	2	1
532055EX	12	9	6	3	1
532116EX	13	10	7	3	2
532117EX	15	10	7	3	2
532118EX	20	14	9	5	2
532005EX	11	10	7	3	2
532006EX	11	7	4	2	1
532015EX	16	9	6	3	2
532016EX	15	10	7	3	2
532017EX	17	13	8	4	2
532018EX	22	22	15	7	4

\*The minimum operating temperature is -20 °C.

Compliance with standards	Directive ATEX 2014/34/EU EN 60079-0 EN 60079-7 EN 60079-31
Atex execution	Directive ATEX 2014/35/EU EN 62208  II 2G 2D Ex e IIC Gb Ex tb IIIC Db
Material	Palazzoli antistatic thermosetting GRP
Surface resistance (prevention of electrostatic charge accumulation)	< 10 <sup>9</sup> Ω
Protection rating (IP according to IEC/EN 60529)	IP66
Colour	RAL 9005 (black)
Resistance to abnormal heat and fire ("Glow wire" according to IEC/EN 60695-2-10)	960°C
Flammability rating (according to UL94)	V0
Insulation class	II
Operating temperature	-40°C - +40°C -40°C - +50°C -40°C - +60°C -40°C - +70°C -40°C - +75°C (please consult the table)







SUITABLE FOR ZONE 1-2 (GAS) AND 21-22 (DUST)



**Junction boxes**  
in thermosetting GRP  
with **high cover**  
**IP66**

Outer dimensions (mm)	Max. power dissipation (W)	Palazzoli code	Pack Qty
125x185x125	18	<b>532200EX</b>	1
190x185x125	19	<b>532201EX</b>	1
250x185x125	23	<b>532202EX</b>	1
290x185x125	24	<b>532203EX</b>	1
380x185x125	25	<b>532204EX</b>	1

**Notes:** the maximum power dissipation is for the maximum ambient temperature of 40°C.



**Junction boxes**  
in thermosetting GRP  
with **low cover**  
**IP66**

Outer dimensions (mm)	Max. power dissipation (W)	Palazzoli code	Pack Qty
92x92x68	8	<b>532035EX*</b>	1
125x92x68	10	<b>532045EX</b>	1
185x92x68	12	<b>532055EX</b>	1
125x125x100	13	<b>532116EX</b>	1
185x125x100	15	<b>532117EX</b>	1
250x125x100	20	<b>532118EX</b>	1

**Notes:** the maximum power dissipation is for the maximum ambient temperature of 40°C.  
\*The minimum operating temperature is -20 °C.



**Junction boxes**  
in thermosetting GRP  
with **high cover**  
**IP66**

Outer dimensions (mm)	Max. power dissipation (W)	Palazzoli code	Pack Qty
92x92x100	11	<b>532005EX</b>	1
125x92x100	11	<b>532006EX</b>	1
185x92x100	16	<b>532015EX</b>	1
125x125x125	15	<b>532016EX</b>	1
185x125x125	17	<b>532017EX</b>	1
250x125x125	22	<b>532018EX</b>	1

**Notes:** the maximum power dissipation is for the maximum ambient temperature of 40°C.



**Back plates**  
in galvanised steel  
for TAIS boxes

For enclosure code	Plate dimensions (mm)	Palazzoli code	Pack Qty
532035EX-532005EX	59x59	<b>532705</b>	1
532045EX-532006EX	92x58	<b>532714</b>	1
532055EX-532015EX	142x62	<b>532715</b>	1
532116EX-532016EX	86x86	<b>532716</b>	1
532117EX-532017EX	100x86	<b>532717</b>	1
532118EX-532018EX	175x86	<b>532718</b>	1
532200EX-532240EX	95x145	<b>532700</b>	1
532201EX	160x145	<b>532701</b>	1
532202EX-532242EX	220x145	<b>532702</b>	1
532203EX	260x145	<b>532703</b>	1
532204EX-532244EX	333x145	<b>532704</b>	1



**Milling cutters**  
cup shaped in steel  
for quick drill connection  
tungsten carbide  
gear teeth specific  
for thermosetting GRP

Hole type	Diameter (mm)	Palazzoli code	Pack Qty
M20 - M25 - M32 - M40	20.5 - 25.5 - 32.5 - 40.5	<b>538410</b>	1



ZONE	GAS			DUST		
	0	1	2	20	21	22
USABLE		X	X		X	X

Watertight boxes in aluminium alloy suitable for applications in explosion hazardous areas as defined in ATEX Directive 2014/34/UE.

Back box and cover are treated with ecological anticorrosion passivation with fluoro-zirconium treatment and finished with hot polymerised scratch-resistant, non-ageing, non-toxic polyester painting. The colour of the box is RAL 9005 black.

The cover is attached to the back box by means of stainless steel screws while the sealing is guaranteed by a gasket in non-ageing elastomer.

Designed to enable internal and external earthing.

Table of the max. power dissipation allowed for ALUPRES-EX boxes

Code	-40°C - +40°C (W)	-40°C - +50°C (W)	-40°C - +60°C (W)	-40°C - +65°C (W)
511910EX*	10	7	4	2
511913EX	20	13	7	3
150021EX	30	16	8	4
511920EX	40	24	12	6
511921EX	42	28	14	7
511911EX	12	10	5	2
511912EX	23	13	6	3
511917EX	40	23	11	6
511922EX	45	25	13	6
511923EX	65	40	20	10

\*The minimum operating temperature is -20 °C.

Compliance with standards  
**Directive ATEX 2014/34/EU**  
**EN 60079-0**  
**EN 60079-7**  
**EN 60079-31**

**Directive ATEX 2014/35/EU**  
**EN 62208**

Atex execution  
**II 2G 2D**  
**Ex e IIC Gb**  
**Ex tb IIIC Db**

Material **Aluminium alloy**

Surface treatment **Passivation with fluoro-zirconium treatment**

Paint **Hot polymerised non-toxic, non-ageing polyester**

Colour **RAL 9005 (black)**

Protection rating (IP according to IEC/EN 60529) **IP66**

Insulation class **I**

Operating temperature  
**-40°C - +40°C**  
**-40°C - +50°C**  
**-40°C - +60°C**  
**-40°C - +65°C**  
**(please consult the table)**





SUITABLE FOR ZONE 1-2 (GAS) AND 21-22 (DUST)



**Junction boxes**  
in aluminium alloy  
with **blind walls** and back plate  
**IP66**

Outer dimensions (mm)	Max. power dissipation (W)	Palazzoli code	Pack Qty
92x92x77	10	<b>511910EX*</b>	1
125x125x113	20	<b>511913EX</b>	1
155x155x73	30	<b>150021EX</b>	1
185x185x145	40	<b>511920EX</b>	1
252x185x145	42	<b>511921EX</b>	1

**Equipment included:** earth screws inside and outside the box.

Back plate (except code 511910EX).

**Notes:** the maximum power dissipation is for the maximum ambient temperature of 40°C.

\*The minimum operating temperature is -20 °C.



**Flanges** in aluminium alloy  
with metric threading  
for windowed boxes  
**IP66**

For windows	Threading type	Projection (mm)	Palazzoli code	Pack Qty
F0	M25x1.5	18	<b>541050EX</b>	1
F1	M25x1.5	18	<b>541055EX</b>	1
F1	M32x1,5	51	<b>540180EX</b>	1
F3	M40x1.5	51	<b>540190EX</b>	1
F5	M50x1.5	51	<b>540195EX</b>	1

**Technical accessories:**



**Junction boxes**  
in aluminium alloy  
with **flanged walls**  
and back plates  
**IP66**

Outer dimensions (mm)	Max. power dissipation (W)	Window type	Palazzoli code	Pack Qty
125x92x77	12		<b>511911EX</b>	1
185x92x77	23		<b>511912EX</b>	1
252x125x113	40		<b>511917EX</b>	1
220x220x108	45		<b>511922EX</b>	1
252x252x197	65		<b>511923EX</b>	1

**Equipment included:** earth screws inside and outside the box. Blind flat flanges.

Back plate (except codes 511911EX and 511912EX).

**Notes:** the maximum power dissipation is for the maximum ambient temperature of 40°C.



**Closing flanges** raised  
in aluminium alloy  
for windowed boxes  
**IP66**

For windows	Projection (mm)	Palazzoli code	Pack Qty
F1	32	<b>540061EX</b>	1
F3	50	<b>540063EX</b>	1
F5	80	<b>540065EX</b>	1

**Technical accessories:**





TAIS-EX thermosetting GRP enclosures and ALUPRES-EX aluminium enclosures can be completed with cable glands and terminals, to create customised terminal enclosures, suitable to be installed in zone 1,2, 21 and 22, in compliance with the ATEX Directive 2014/34/EU. The configurations customised and certified by a Notified Organism can be made by Palazzoli upon specifications of the customer.

To make the configurations it is necessary to know:

## 1. Number and type of modular terminal blocks.

The EN50022 rail inside the box can be completed with modular terminal blocks complying with the Atex Directive and certified according to protection mode Ex-e. The maximum number of usable terminals depends on the physical dimensions of the box, according to the table below, and on the maximum power dissipation.

## 2. Number, type e positions of the cable glands.

Each enclosure can be drilled on the 4 sides using a max. number of entries that depends on the dimensions of the cable glands and on side area. Cable glands from Palazzoli or any other brand, from M12 to M50, may be used. They must comply with the Atex Directive and certified with the Ex-e/Ex-ib protection mode. If windowed boxes are used, it is possible to complete them with suitable perforated flanges or blind raised flanges (Table below).

SERIES	CODE OF EMPTY BOX	DIMENSIONS (BxHxD)	DIN GUIDE LENGTH (mm)	MAXIMUM NUMBER OF CABLE GLANDS THAT CAN BE INSTALLED ON EACH SIDE													
				LONG SIDE OF THE BOX (B)							SHORT SIDE OF THE BOX (H)						
				M12	M16	M20	M25	M32	M40	M50	M12	M16	M20	M25	M32	M40	M50
TAIS-EX	532200EX	185x125x125	145	12	8	6	3	2	2	-	6	4	3	2	1	1	-
	532201EX	190x185x125	160	12	8	6	3	2	2	-	12	8	6	3	2	2	-
	532202EX	250x185x125	220	16	14	12	5	4	3	-	12	8	6	3	2	2	-
	532203EX	290x185x125	260	20	16	14	6	5	4	-	12	8	6	3	2	2	-
	532204EX	380x185x125	333	26	24	22	9	7	6	-	12	8	6	3	2	2	-
	532035EX	92x92x68	59	2	1	1	-	-	-	-	2	1	1	-	-	-	-
	532045EX	125x92x68	92	4	3	3	2	-	-	-	2	1	1	-	-	-	-
	532055EX	185x92x68	142	6	4	4	2	-	-	-	2	1	1	-	-	-	-
	532116EX	125x125x100	86	7	4	3	2	1	1	-	6	4	3	2	1	1	-
	532117EX	185x125x100	100	12	8	6	3	2	2	1	6	4	3	2	1	1	-
	532118EX	250x125x100	175	16	14	12	6	4	3	-	6	4	3	2	1	1	-
	532005EX	92x92x100	59	2	1	1	-	-	-	-	2	1	1	-	-	-	-
	532006EX	125x92x100	92	4	3	3	2	-	-	-	2	1	1	-	-	-	-
	532015EX	185x92x100	142	6	4	4	2	-	-	-	2	1	1	-	-	-	-
	532016EX	125x125x125	86	7	5	4	2	1	-	-	6	5	4	2	1	-	-
532017EX	185x125x125	100	12	7	6	4	3	-	-	6	5	4	2	1	-	-	
532018EX	250x125x125	175	16	10	8	5	4	-	-	6	5	4	2	1	-	-	
ALUPRES-EX	511910EX	92x92x77	69	3	2	2	1	-	-	3	2	2	1	-	-	-	
	511913EX	125x125x113	100	8	5	4	2	2	-	8	5	4	2	2	-	-	
	150021EX	155x155x73	122	10	6	5	3	1	-	10	6	5	3	1	-	-	
	511920EX	185x185x145	160	18	12	10	8	4	3	2	18	12	10	8	4	3	2
	511921EX	252x185x145	200	24	16	14	10	5	4	3	18	12	10	8	4	3	2
	511911EX	125x92x77	100	3	3	2	-	-	-	-	-	-	-	-	-	-	-
	511912EX	185x92x77	150	6	5	4	-	-	-	-	-	-	-	-	-	-	-
	511917EX	252x125x113	200	16	14	6	5	4	-	-	2	1	-	-	-	-	-
	511922EX	220x220x108	190	3	3	2	2	-	-	-	3	3	2	2	-	-	-
	511923EX	252x252x197	210	32	28	18	10	8	6	3	15	8	6	6	2	2	1

## 3. Maximum utilisation current for each terminal.

By specifying this detail it is possible to calculate more precisely the maximum power dissipation and use optimised boxes with more compact dimensions. If this detail cannot be supplied, the maximum rated current should be considered and larger boxes will have to be used.

## 4. Ambient temperature

Palazzoli's thermosetting GRP boxes of the TAIS-EX series and aluminium alloy boxes of the ALUPRES-EX series can be used at different temperatures. The complete tables are on page 310 for the TAIS-EX series and page 312 for the ALUPRES-EX series. Also in this case, by carefully choosing the temperature range, it is possible to use optimised boxes with more compact dimensions.



## DATA REQUIRED

CODE OF EMPTY PALAZZOLI BOX: \_\_\_\_\_

QUANTITY TO BE PRODUCED: \_\_\_\_\_

MAX AMBIENT TEMPERATURE (°C): \_\_\_\_\_

BRAND OF TERMINAL: \_\_\_\_\_

(if not expressly indicated, the terminals are the responsibility of Palazzoli)

INTERNAL COMPOSITION	TERMINAL RATED CROSS-SECTION (mm <sup>2</sup> )						
	2.5	4	6	10	16	25	35
NUMBER OF TERMINALS							
CURRENT PER TERMINAL (A)							

Indicate in the table the number of terminals and the current required for each terminal.

CABLE GLAND MATERIAL: Insulating  Brass

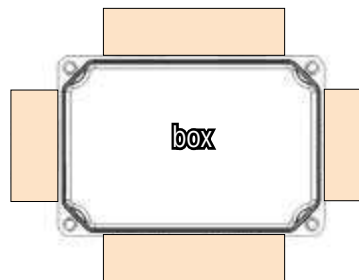
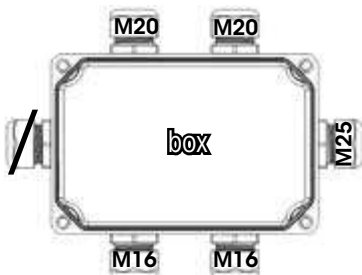
BRAND OF CABLE GLAND: \_\_\_\_\_

(if not expressly indicated, the cable glands are the responsibility of Palazzoli)

EXTERNAL COMPOSITION	CABLE GLAND THREAD						
	M12	M16	M20	M25	M32	M40	M50
NUMBER OF CABLE GLANDS							

Indicate in the table the number of cable glands and their positions on the four sides of the box as in the example below.

Example:



The form must be sent to [export@palazzoli.com](mailto:export@palazzoli.com) or by fax to +39 030 2015.258.





ZONE	GAS			DUST		
	0	1	2	20	21	22
USABLE		X	X		X	X

Cable glands in technopolymer and nickel-plated brass with neoprene gaskets.

Galvanised steel adaptors with Pg or Gas male thread and female metric thread to connect devices of different standards.

The products are suitable for use in explosion hazardous areas according to ATEX directive 2014/34/EU.

Compliance with standards

Directive ATEX 2014/34/EU  
EN 60079-0  
EN 60079-7  
EN 60079-31

IEC/EN 60079-0  
IEC/EN 60079-1  
IEC/EN 60079-7  
IEC/EN 60079-31  
ISO 965-1  
ISO 965-3

II 2G 2D

(cable glands)  
Ex e IIC, Ex tb IIIC

(cable glands for armoured cables)  
Ex db/eb IIC, Ex tb IIIC

(adaptors)  
Ex d IIC, Ex e IIC, Ex tb IIIC

(technopolymer cable glands)  
Polyamide body  
Neoprene gaskets

(brass cable glands)  
Nickel-plated brass body  
Neoprene gaskets

(cable glands for armoured cables)  
Nickel-plated brass body  
Graphite gasket

(adaptors)  
Galvanised steel

Colour Technopolymer cable gland  
RAL 9005 (black)

Protection rating IP66/IP68 (cable glands)  
IP66/IP67 (adaptors)

Operating temperature

(technopolymer cable glands)  
-20°C - +80°C (M12)  
-35°C - +95°C

(brass cable glands)  
-40°C - +100°C

(cable glands for armoured cables)  
-60°C - +80°C

(adaptors)  
-40°C - +150°C





SUITABLE FOR ZONE 1-2 (GAS) AND 21-22 (DUST)



**Cable glands**  
in insulating material  
with **Pg threading**  
**IP66/IP68**

Pg	Mounting hole (mm)	Fastening diameter (mm)	Thread length (mm)	Palazzoli code	Pack Qty
9	16	3.5-8.5	8	<b>571009EX</b>	50
11	19	4-10.5	8	<b>571011EX</b>	50
13.5	21	5-12.5	9	<b>571013EX</b>	50
16	23	6.5-14	10	<b>571016EX</b>	50
21	29	8-18.5	11	<b>571021EX</b>	20
29	38	10-25	12	<b>571029EX</b>	20
36	48	24-34	15	<b>571036EX</b>	10
42	55	34-42	15	<b>571042EX</b>	5
48	61	40-48	15	<b>571048EX</b>	5



**Locknuts**  
in insulating material  
with **Pg threading**

Pg	Palazzoli code	Pack Qty
9	<b>571209</b>	50
11	<b>571211</b>	50
13.5	<b>571213</b>	50
16	<b>571216</b>	50
21	<b>571221</b>	25
29	<b>571229</b>	20
36	<b>571236</b>	10
42	<b>571242</b>	5
48	<b>571248</b>	5



**Cable glands**  
in insulating material  
with **Pg pitch**  
with **long thread**  
**IP66/IP68**

Pg	Mounting hole (mm)	Fastening diameter (mm)	Thread length (mm)	Palazzoli code	Pack Qty
9	16	3.5-5.5	15	<b>571109EX</b>	50
11	19	4-10.5	15	<b>571111EX</b>	50
13.5	21	5-12.5	15	<b>571113EX</b>	50
16	23	6.5-14	15	<b>571116EX</b>	50
21	29	8-18.5	15	<b>571121EX</b>	20
29	38	10-25	15	<b>571129EX</b>	20
36	48	24-34	18	<b>571136EX</b>	10
42	55	34-42	18	<b>571142EX</b>	5
48	61	40-48	18	<b>571148EX</b>	5



SUITABLE FOR ZONE 1-2 (GAS) AND 21-22 (DUST)



**Cable glands**  
in insulating material  
with **metric threading**  
**IP66/IP68**

Threading	Mounting hole (mm)	Fastening diameter (mm)	Thread length (mm)	Palazzoli code	Pack Qty
M12x1.5	12.5	4-6.5	8	<b>581012EX</b>	50
M16x1.5	16.5	5-10	10	<b>581016EX</b>	50
M20x1.5	20.5	10-14	10	<b>581020EX</b>	50
M25x1.5	25.5	12-18	10	<b>581025EX</b>	20
M32x1.5	32.5	16-25	10	<b>581032EX</b>	20
M40x1.5	40.5	22-32	10	<b>581040EX</b>	20
M50x1.5	50.5	28-38.5	12	<b>581050EX</b>	10
M63x1.5	63.5	40-48	12	<b>581063EX</b>	5



**Locknuts**  
in insulating material  
with **metric threading**

Threading	Palazzoli code	Pack Qty
M12x1.5	<b>581212</b>	50
M16x1.5	<b>581216</b>	50
M20x1.5	<b>581220</b>	50
M25x1.5	<b>581225</b>	50
M32x1.5	<b>581232</b>	50
M40x1.5	<b>581240</b>	20
M50x1.5	<b>581250</b>	10
M63x1.5	<b>581263</b>	5



**Cable glands**  
in insulating material  
with **metric pitch**  
with **long thread**  
**IP66/IP68**

Threading	Mounting hole (mm)	Fastening diameter (mm)	Thread length (mm)	Palazzoli code	Pack Qty
M12x1.5	12.5	4-6.5	15	<b>581112EX</b>	50
M16x1.5	16.5	5-10	15	<b>581116EX</b>	50
M20x1.5	20.5	10-14	15	<b>581120EX</b>	50
M25x1.5	25.5	12-18	15	<b>581125EX</b>	20
M32x1.5	32.5	16-25	15	<b>581132EX</b>	20
M40x1.5	40.5	22-32	16	<b>581140EX</b>	20
M50x1.5	50.5	28-38.5	16	<b>581150EX</b>	10
M63x1.5	63.5	40-48	16	<b>581163EX</b>	5



SUITABLE FOR ZONE 1-2 (GAS) AND 21-22 (DUST)



**Cable glands**  
in nickel-plated brass  
with **metric threading**  
**IP66/IP68**

Threading	Mounting hole (mm)	Fastening diameter (mm)	Thread length (mm)	Palazzoli code	Pack Qty
M12x1,5	12.5	4.5-6.5	15	<b>582112EX</b>	50
M16x1.5	16.5	5-9.5	15	<b>582116EX</b>	50
M20x1.5	20.5	8-13	15	<b>582120EX</b>	50
M25x1.5	25.5	9-16	15	<b>582125EX</b>	20
M32x1,5	32.5	12-21	15	<b>582132EX</b>	20
M40x1.5	40.5	16-27	15	<b>582140EX</b>	20
M50x1.5	50.5	23-35	15	<b>582150EX</b>	10
M63x1.5	63.5	36-48	15	<b>582163EX</b>	5



**Gas/metric adaptors**  
in galvanised steel  
for tube/box connections  
**IP67**

Male thread	Female thread	Palazzoli code	Pack Qty
3/8" Gas	M16x1.5	<b>580360EX</b>	1
1/2" Gas	M20x1.5	<b>580361EX</b>	1
3/4" Gas	M25x1.5	<b>580364EX</b>	1
1" Gas	M32x1,5	<b>580365EX</b>	1



**Cable glands for armoured cables**  
in nickel-plated brass  
with **metric threading**  
**IP66/IP68**

Threading	Mounting hole (mm)	Sheath outer diameter (mm)	Sheath inner diameter (mm)	Thread length (mm)	Palazzoli code	Pack Qty
M16	16.5	7-11.5	4-8	15	<b>580416EX</b>	1
M20	20.5	9-15.5	7-12	15	<b>580420EX</b>	1
M25	25.5	13-20	9.5-15.5	15	<b>580425EX</b>	1
M32	32.5	18-27	14-20.5	15	<b>580432EX</b>	1
M40	40.5	23-33.5	17-27	15	<b>580440EX</b>	1
M50	50.5	29-40.5	22-33.5	15	<b>580450EX</b>	1
M63	63.5	40-54	34-47.5	15	<b>580463EX</b>	1

**Notes:** earthing tab available on request.



**Pg/metric adaptors**  
in galvanised steel  
for tube/box connections  
**IP67**

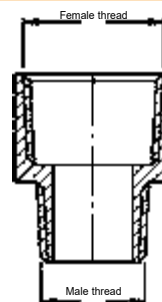
Male thread	Female thread	Palazzoli code	Pack Qty
Pg21	M25x1.5	<b>580394EX</b>	1
Pg29	M32x1.5	<b>580395EX</b>	1
Pg36	M40x1.5	<b>580396EX</b>	1



**Locknuts**  
in nickel-plated brass  
with **metric threading**

Threading	Palazzoli code	Pack Qty
M12x1,5	<b>582212</b>	50
M16x1.5	<b>582216</b>	50
M20x1.5	<b>582220</b>	50
M25x1.5	<b>582225</b>	25
M32x1,5	<b>582232</b>	20
M40x1.5	<b>582240</b>	10
M50x1.5	<b>582250</b>	10
M63x1.5	<b>582263</b>	5

**SELECTION GUIDE**





ZONE	GAS			DUST		
	0	1	2	20	21	22
USABLE			X		X	X

Watertight control devices in Palazzoli antistatic thermosetting GRP suitable for use in explosion hazardous areas as provided for in the ATEX Directive 2014/34/EU.

The cover is attached to the body with stainless steel screws while the sealing is ensured by a gasket in non-ageing elastomer.

Complete with earthing terminal inside the box.

The load is of AC23A-AC3 type with rated current with short-circuit conditional current  $\geq 10\text{kA}$ .

Mechanical life of over one million operations.

Rated operating current:		16A	25A	40A	63A	
Thermal current Ith	A	16	25	40	63	
AC21A	415V	A	16	25	40	63
	500V					
AC22A	415V	A	16	25	40	63
	500V					
AC23A	230V	A	16	25	40	63
	400V					
	500V					
AC23A	230V	kW	4.5	7	11	20
	400V		7.5	12	19	34
	500V		8.5	14	23	44
AC3	230V	kW	4.5	7	11	18
	400V		7.5	12	19	31
	500V		8.5	14	23	40

Wiring data:		16A	25A	40A	63A
Entry cable diameter	mm	12-18		16-25	
Entry cable sections	mm <sup>2</sup>	1-10		4-10	6-16
Tightening torque	Nm	2			

Compliance with standards  
Directive ATEX 2014/34/EU  
EN 60079-0  
EN 60079-15  
EN 60079-31

Directive LVD 2014/35/EU  
EN 60947-3  
EN 60947-1

Atex execution  
II 3G 2D  
Ex nR IIC T5/T6 Gc  
Ex Ib IIIC T 85 °C Db  
(Table on page 321)

Casing material  
Palazzoli antistatic thermosetting GRP

Surface resistance  
<10<sup>9</sup> Ω  
(prevention of electrostatic charge accumulation)

Protection rating (IP according to IEC/EN 60529)  
IP66

Colour  
RAL 9005 (black)

Resistance to abnormal heat and fire ("Glow wire" according to IEC/EN 60695-2-10)  
960°C

Flammability rating (according to UL94)  
V0

Rated current  
16A - 25A - 40A - 63A

Operating voltage  
500V

Operating frequency  
50-60Hz

Conditional short-circuit current isolator switch  
 $\geq 10\text{kA}$

Mechanical duration  
>1,000,000 operations

Insulation class  
II

Operating temperature  
-40°C - +65°C  
(Table on page 321)







**SUITABLE FOR ZONE 2 (GAS) AND 21-22 (DUST)**

**TABLE OF AMBIENT TEMPERATURES AND ATEX MARKINGS**

In	Poles	Ambient temperature	Temperature class	Maximum surface temperature	Cable temperature
DUST and GAS					
16A	2,3,4	-40°C - +60°C	T6	T85°C	-
		-40°C-+65°C			85°C
25A		-40°C - +55°C	T5		-
		-40°C+65°C			90°C
40A		-40°C+50°C	T6		-
		-40°C+65°C	T5		95°C
63A		-40°C - +45°C	T6		-
		-40°C - +60°C			95°C



**Isolator switches**  
in technopolymer  
for wall-mounting  
50-60Hz **IP66**



Rated current (A)	Poles	CAM schemes	Enclosure dimensions (mm)	Hole type	Palazzoli code	Pack Qty
16	2	2	92x125	M25 ↓ M25 ↑ M25	<b>292101EX</b>	1
	3	3	92x125	M25 ↓ M25 ↑ M25	<b>292102EX</b>	1
	4	4	92x125	M25 ↓ M25 ↑ M25	<b>292103EX</b>	1
25	2	2	92x125	M25 ↓ M25 ↑ M25	<b>292201EX</b>	1
	3	3	92x125	M25 ↓ M25 ↑ M25	<b>292202EX</b>	1
	4	4	92x125	M25 ↓ M25 ↑ M25	<b>292203EX</b>	1
40	2	2	125x185	M32 ↓ M32 ↑ M32	<b>292301EX</b>	1
	3	3	125x185	M32 ↓ M32 ↑ M32	<b>292302EX</b>	1
	4	4	125x185	M32 ↓ M32 ↑ M32	<b>292303EX</b>	1
63	2	2	125x185	M32 ↓ M32 ↑ M32	<b>292411EX</b>	1
	3	3	125x185	M32 ↓ M32 ↑ M32	<b>292412EX</b>	1
	4	4	125x185	M32 ↓ M32 ↑ M32	<b>292413EX</b>	1

**Equipment included:** cable gland in technopolymer. Earthing terminal inside the box.  
**Features:** designed for restricted breathing testing.  
**Notes:** the padlockable version is available on request.



ZONE	GAS			DUST		
	0	1	2	20	21	22
USABLE			X		X	X

Watertight control devices in aluminium alloy suitable for applications in explosion hazardous areas as defined in ATEX 2014/34/UE Directive.

Box and cover are treated with ecological anticorrosion passivation with fluoro-zirconium treatment and finished with hot polymerised, scratch-resistant, non-ageing, non-toxic polyester paint. The cover is attached to the back box by means of stainless steel screws while the sealing is guaranteed by a gasket in non-ageing elastomer. Designed to enable internal and external earthing. The shaft is made of metal, and the switch is of AC23A-AC3 class at rated current with conditional short-circuit current  $\geq 10\text{kA}$ . Mechanical life of over one million operations.


**Rated operating current:**

			16A	25A	40A	63A
Thermal current Ith	A		16	25	40	63
AC21A	415V	A	16	25	40	63
	500V					
AC22A	415V	A	16	25	40	63
	500V					
AC23A	230V	A	16	25	40	63
	400V					
	500V					
AC23A	230V	kW	4.5	7	11	20
	400V		7.5	12	19	34
	500V		10	14	23	44
AC3	230V	kW	4.5	7	11	18
	400V		7.5	12	19	31
	500V		10	14	23	40

**Wiring data:**

		16A	25A	40A	63A
Entry cable diameter	mm	12-18		16-25	
Entry cable sections	mm <sup>2</sup>	1-4	1.5-6	4-10	6-16
Tightening torque	Nm	1.5		2	

Compliance with standards  
**Directive ATEX 2014/34/EU**  
**EN 60079-0**  
**EN 60079-15**  
**EN 60079-31**  
**Directive 2014/35/EU**  
**EN 60947-3**  
**EN 60947-1**

Atex execution  
 **II 3G 2D**  
**Ex nR IIC T5/T6 Gc**  
**Ex tb IIIC T 85 °C Db**  
**(Table on page 323)**

Material **Aluminium alloy**

Surface treatment **Passivation with fluoro-zirconium treatment**

Paint **Hot polymerised non-toxic, non-ageing polyester**

Colour **RAL 9005 (black)**

Protection rating (IP according to IEC/EN 60529) **IP66/IP67**

Rated current **16A - 25A - 40A - 63A**

Operating voltage **500V**

Operating frequency **50-60Hz**

Conditional short-circuit current isolator switch  **$\geq 10\text{kA}$**

Mechanical duration **>1,000,000 operations**

Insulation class **I**

Operating temperature **-40°C - +65°C**  
**(Table on page 323)**





**SUITABLE FOR ZONE 2 (GAS) AND 21-22 (DUST)**

**TABLE OF AMBIENT TEMPERATURES AND ATEX MARKINGS**

In	Poles	Ambient temperature	Temperature class	Maximum surface temperature	Cable temperature
DUST and GAS					
16A	2,3,4,6	-40°C - +55°C	T6	T85°C	-
		-40°C +65°C			90°C
25A	2,3,4	-40°C - +45°C	T6	T85°C	-
		-40°C +65°C			100°C
	6	-40°C - +40°C	T5	T85°C	-
		-40°C - +60°C			100°C
40A	2,3,4	-40°C - +55°C	T6	T85°C	-
		-40°C +65°C			95°C
	6	-40°C +50°C	T6	T85°C	-
		-40°C +65°C			95°C
63A	3,4,6	-40°C - +40°C	T6	T85°C	-
		-40°C - +55°C			100°C



**Selector switches**  
in aluminium alloy  
for wall-mounting  
50-60Hz IP66/IP67



Rated current (A)	Poles	CAM schemes	Enclosure dimensions (mm)	Entry type	Palazzoli code	Pack Qty
16	3	9	125x185	M25 2xM25	<b>272146EX</b>	1
	4	10	125x185	M25 2xM25	<b>272147EX</b>	1
25	3	9	125x185	M25 2xM25	<b>272246EX</b>	1
	4	10	125x185	M25 2xM25	<b>272247EX</b>	1
40	3	9	125x185	M32 2xM32	<b>272306EX</b>	1
	4	10	125x185	M32 2xM32	<b>272307EX</b>	1
63	3	9	125x185	M32 2xM32	<b>282406EX</b>	1
	4	10	252x185	M32 2xM32	<b>282407EX*</b>	1

**Equipment included:** cable gland in technopolymer. Earthing terminal inside and outside the box.  
**Features:** designed for restricted breathing testing.  
**Notes:**\*the protection rating is IP65.



**Isolator switches**  
in aluminium alloy  
for wall-mounting  
50-60Hz IP66/IP67



Rated current (A)	Poles	CAM schemes	Enclosure dimensions (mm)	Entry type	Palazzoli code	Pack Qty
16	2	2	92x92	M25 M25	<b>272141EX</b>	1
	3	3	92x92	M25 M25	<b>272142EX</b>	1
	4	4	92x92	M25 M25	<b>272143EX</b>	1
25	6	6	125x185	2xM25 2xM25	<b>272144EX</b>	1
	2	2	92x92	M25 M25	<b>272241EX</b>	1
	3	3	92x92	M25 M25	<b>272242EX</b>	1
40	4	4	92x92	M25 M25	<b>272243EX</b>	1
	6	6	125x185	2xM25 2xM25	<b>272244EX</b>	1
	2	2	125x125	M32 M32	<b>272301EX</b>	1
63	3	3	125x125	M32 M32	<b>272302EX</b>	1
	4	4	125x125	M32 M32	<b>272303EX</b>	1
	6	6	125x185	2xM32 2xM32	<b>272304EX</b>	1
63	3	3	125x185	M32 M32	<b>282402EX</b>	1
	4	4	125x185	M32 M32	<b>282403EX</b>	1
	6	6	125x185	2xM32 2xM32	<b>282404EX</b>	1

**Equipment included:** cable glands in technopolymer. Earthing terminal inside and outside the box.  
**Features:** designed for restricted breathing testing.  
**Notes:** the padlockable version is available on request.




ZONE	GAS			DUST		
	0	1	2	20	21	22
USABLE			X			X

Small devices and watertight boxes in Palazzoli antistatic thermosetting GRP, suitable for use in explosion hazardous areas as provided for in the ATEX Directive 2014/34/EU.

The cover is attached to the back box by means of stainless steel screws while the sealing is guaranteed by a gasket in non-ageing elastomer.

The degree of protection is IP66 on the whole series.

Compliance with standards  
**Directive ATEX 2014/34/EU**  
**EN 60079-0**  
**EN 60079-15**  
**EN 60079-31**  
**Directive 2014/35/EU**  
**EN 60669-1**  
**EN 60947-5-1 (Push-buttons)**

Atex execution  
 **II 3G 3D**  
**Ex nR IIC T6 Gc**  
**Ex tc IIIC T 70 °C Dc**

Casing material **Palazzoli antistatic thermosetting GRP**

Surface resistance **<10<sup>9</sup> Ω**  
**(prevention of electrostatic charge accumulation)**

Protection rating (IP according to IEC/EN 60529) **IP66**

Colour **RAL 9005 (black)**

Resistance to abnormal heat and fire ("Glow wire" according to IEC/EN 60695-2-10) **960°C**

Flammability rating (according to UL94) **V0**

Operating frequency **50 - 60Hz**

Insulation class **II**

Entry cable diameter **10 - 14 mm**

Operating temperature **-20°C - +40°C**








SUITABLE FOR ZONE 2 (GAS) AND 22 (DUST)





**Isolator switches and two-way switches** in thermosetting GRP for wall-mounting **IP66**

Electrical scheme	Poles	Entry type	Rated current/voltage	Palazzoli code	Pack Qty
switch	1P		16A 250V~ / 10A 400V~	<b>202271EX</b>	1
switch	2P		16A 250V~ / 10A 400V~	<b>202282EX</b>	1
two-way switch	1P		16A 250V~ / 10A 400V~	<b>202276EX</b>	1

**Equipment included:** cable gland in technopolymer type M20.  
**Features:** the lower entry is the predisposition for restricted breathing test.




**Push-buttons** in thermosetting GRP for wall-mounting **IP66**

Poles	Entry type	Rated current/voltage	Palazzoli code	Pack Qty
1 NO		10A 400V~	<b>261435EX</b>	1
1 NC		10A 400V~	<b>261445EX</b>	1

**Equipment included:** cable gland in technopolymer type M20.  
**Features:** the lower entry is the predisposition for restricted breathing test.




**Selector switch** in thermosetting GRP for wall-mounting **IP66**

Poles	Entry type	Rated current/voltage	Palazzoli code	Pack Qty
1P		16A 250V~ / 10A 400V~	<b>202275EX</b>	1

**Equipment included:** cable gland in technopolymer type M20.  
**Features:** the lower entry is the predisposition for restricted breathing test. By removing the internal jumper, the device can be used as two independent one-pole switches.




**Start-stop push button panel** in thermosetting GRP for wall-mounting **IP66**

Poles	Entry type	Rated current/voltage	Palazzoli code	Pack Qty
1 NO + 1 NC		10A 400V~	<b>261432EX</b>	1

**Equipment included:** cable gland in technopolymer type M20.  
**Features:** the lower entry is the predisposition for restricted breathing test.



**On-off push button panel** in thermosetting GRP for wall-mounting **IP66**

Poles	Entry type	Rated current/voltage	Palazzoli code	Pack Qty
1 NO + 1 NC		10A 400V~	<b>261433EX</b>	1

**Equipment included:** cable gland in technopolymer type M20.  
**Features:** the lower entry is ready for the restricted breathing test.






ZONE	GAS			DUST		
	0	1	2	20	21	22
USABLE			X			X

Small devices and watertight boxes in aluminium alloy suitable for applications in explosion hazardous areas as defined in ATEX Directive 2014/34/EU.

Box and cover are treated with ecological anticorrosion passivation with fluoro-zirconium treatment and finished with hot polymerised, scratch-resistant, non-ageing, non-toxic polyester painting. The cover is attached to the back box by means of stainless steel screws while the sealing is guaranteed by a gasket in non-ageing elastomer. Designed to enable internal and external earthing.

Compliance with standards  
**Directive ATEX 2014/34/EU**  
**EN 60079-0**  
**EN 60079-15**  
**EN 60079-31**  
**Directive 2014/35/EU**  
**EN 60669-1**  
**EN 60947-5-1 (Button)**

Atex execution  
 **II 3G 3D**  
**Ex nR IIC T6 Gc**  
**Ex tc IIIC T 70 °C Dc**

Material **Aluminium alloy**

Surface treatment **Passivation with fluoro-zirconium treatment**

Paint **Hot polymerised non-toxic, non-ageing polyester**

Colour **RAL 9005 (black)**

Protection rating (IP according to IEC/EN 60529) **IP66**

Operating frequency **50 - 60Hz**

Insulation class **I**

Entry cable diameter **10 - 14 mm**

Operating temperature **-20°C - +40°C**





SUITABLE FOR ZONE 2 (GAS) AND 22 (DUST)



**Switches**  
in aluminium alloy  
for wall-mounting  
**IP66**

Poles	Entry type	Rated current/voltage	Palazzoli code	Pack Qty
1P	M20	16A 250V~ / 10A 400V~	<b>201151EX</b>	1
2P	M20	16A 250V~ / 10A 400V~	<b>201152EX</b>	1

**Equipment included:** cable gland in technopolymer type M20.  
Earthing terminal inside and outside the box.

**Features:** the lower entry is the predisposition for restricted breathing test.



**Push-button**  
in aluminium alloy  
for wall-mounting  
**IP66**

Poles	Entry type	Rated current/voltage	Palazzoli code	Pack Qty
1NA	M20	10A 400V~	<b>261021EX</b>	1

**Equipment included:** cable gland in technopolymer type M20.  
Earthing terminal inside and outside the box.

**Features:** the lower entry is the predisposition for restricted breathing test.



**Two-way switch**  
in aluminium alloy  
for wall-mounting  
**IP66**

Poles	Entry type	Rated current/voltage	Palazzoli code	Pack Qty
1P	M20	16A 250V~ / 10A 400V~	<b>201156EX</b>	1

**Equipment included:** cable gland in technopolymer type M20.  
Earthing terminal inside and outside the box.

**Features:** the lower entry is ready for the restricted breathing test.



ZONE	GAS			DUST		
	0	1	2	20	21	22
USABLE			X		X	X

Sirens and bells in aluminium alloy for continuous operation, suitable for applications in explosion hazardous areas as defined in ATEX Directive 2014/34/EU.

The internal terminal block is in self-extinguishing thermosetting GRP insulating material and contributes to the non-sparking protection mode. Earth screws inside and outside the box.

Back box and cover are treated with ecological anticorrosion passivation with fluoro-zirconium treatment and finished with hot polymerised scratch-resistant non-toxic polyester painting.

The colour of the box is RAL 9005 black while the cover is RAL 2011 deep orange with high recognisability.

The gaskets in non-ageing elastomer and the stainless steel screws guarantee the watertight sealing with IP66 protection rating for the sirens and IP55 for the bells.

Compliance with standards  
**Directive ATEX 2014/34/EU  
EN 60079-0  
EN 60079-15  
EN 60079-31**

**Directive LVD 2014/35/EU  
EN 62080**

**II 3G 2D/3D**

Atex execution  
**(sirens)  
II 3G Ex nA IIC T3 Gc  
II 2D Ex tb IIIC T 65 °C Db**

**(bells)  
II 3G Ex nA IIC T3 Gc  
II 3D Ex tc IIIC T 65 °C Dc**

Casing material **Aluminium alloy**

Bell drum material **Painted galvanised steel**

Colour  
**RAL 9005  
(black) - Box  
RAL 2011  
(deep orange) - Cover**

Protection rating **IP66 (sirens)  
IP55 (bells)**

Operating voltage **24VAC - 230VAC**

Operating frequency **50-60Hz**

Insulation class **I**

Entry cable diameter **10 - 14 mm**

Operating temperature **-20°C - +40°C**





# ALARM-EX series

Watertight sirens and BELLS for signalling and alarming

ATEX solutions for explosive atmospheres

## SUITABLE FOR ZONE 2 (GAS) AND 21-22 (DUST)



**Sirens** in aluminium alloy with vibrating membrane 50-60Hz **IP66**



Technopolymer M20 cable gland

Rated voltage (V)	Sound level (dB)	Initial power (VA)	Vibrating power (VA)	Palazzoli code	Pack Qty
24	105	60	25	<b>900453EX</b>	1
110	105	60	25	<b>900463EX</b>	1
230	105	60	25	<b>900473EX</b>	1

**Equipment included:** cable gland in technopolymer type M20. Terminal block in insulating thermosetting GRP. Earthing terminal inside and outside the box.

## SUITABLE FOR ZONE 2 (GAS) AND 22 (DUST)



**Bells** in aluminium alloy with steel drum 50-60Hz **IP55**



Technopolymer M20 cable gland

Rated voltage (V)	Sound level (dB)	Initial power (VA)	Vibrating power (VA)	Palazzoli code	Pack Qty
24	101	13	11	<b>900253EX</b>	1
110	101	13	11	<b>900263EX</b>	1
230	101	13	11	<b>900273EX</b>	1

**Equipment included:** cable gland in technopolymer type M20. Terminal block in insulating thermosetting GRP. Earthing terminal inside and outside the box.



**Directional horn** for sirens

Max. diameter (mm)	Projection siren+horn (mm)	Palazzoli code	Pack Qty
112	238	<b>900449</b>	1

**Equipment included:** complete with stainless steel fixing screws.



ZONE	GAS			DUST		
	0	1	2	20	21	22
USABLE		X	X		X	X

Watertight light fixtures in AISI 304 stainless steel for applications in explosion hazardous areas as defined in ATEX 2014/34/EU Directive.


The diffuser is made of tempered glass. The fixing hooks are in AISI 304 stainless steel.

The sealing is guaranteed by a gasket reinforced in non-ageing elastomer.

Complete with corrosion resistant non-loosening terminals and non-sparking lamp holders. Supplied with M20 cable gland.

Complete with internal and external earth connection.

Compliance with standards  
**Directive ATEX 2014/34/EU**  
**EN 60079-0**  
**EN 60079-7**  
**EN 60079-18**  
**EN 60079-31**  
**Directive 2014/35/EU**  
**EN 60598-1**  
**EN 60598-2-1**  
**EN 62493**  
**Directive 2014/30/EU**  
**EN 55015**  
**EN 61547**  
**EN 61000-3-2**  
**EN 61000-3-3**  
**Directive 2011/65/EU**  
**EN 50581**

Atex execution  
 **II 2G 2D**  
**Ex and mb IIC T4 Gb**  
**Ex tb IIIC T 70 °C Db**

Casing material **AISI 304 stainless steel**

Diffuser material **Tempered glass**

Protection rating (IP according to IEC/EN 60529) **IP66**

Supply voltage **110 - 240 Vac-dc**

Operating frequency **0-50-60Hz**

Power factor **≥ 0.9**

Lamp holder **G13 T8 preventing the unhooking**

Max conductor cross-section **4 mm<sup>2</sup>**

Entry cable diameter **7-12 mm**

Insulation class **I**

Operating temperature **-40°C - +55°C**



The photometric curves (LDT files) are available on [www.palazzoli.com](http://www.palazzoli.com)

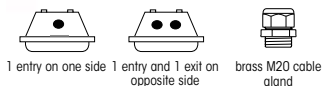




SUITABLE FOR ZONE 1-2 (GAS) AND 21-22 (DUST)



**Light fixtures**  
in stainless steel-glass  
with white reflector  
IP66



Power (W)	Length (mm)	For tubes type	Version	Photometric curves	Palazzoli code	Pack Qty
1X18	690	T8	standard	8	<b>822181EX</b>	1
1X36	1300			8	<b>822281EX</b>	1
2X18	690			9	<b>822182EX</b>	1
2X36	1300			9	<b>822282EX</b>	1

**Features:** fluorescent tubes are not included.  
Light fixture predisposed with 2+1 M20 holes for in-out connection.  
2 M8 threaded holes for fixing the accessories.



**Pair of eyebolts**  
for pendant mounting  
of steel light fixtures  
with screw coupling

Manufacturing material	Palazzoli code	Pack Qty
AISI 304 stainless steel	<b>820011</b>	1

**Equipment included:** screws and accessories for fixing.



**Pair of adjustable supports**  
for wall or ceiling mounting  
of steel light fixtures  
with screw coupling

Rotation angle	Manufacturing material	Palazzoli code	Pack Qty
± 75°	AISI 304 stainless steel	<b>820010</b>	1

**Equipment included:** screws and accessories for fixing.



**Pair of collars**  
for mounting on tube  
of steel light fixtures  
with screw coupling

Manufacturing material	Tube diameter ø (mm)	Palazzoli code	Pack Qty
AISI 304 stainless steel	60	<b>820016</b>	1

**Equipment included:** screws and accessories for fixing.



**Pair of brackets**  
for ceiling mounting  
of steel light fixtures  
with screw coupling

Manufacturing material	Palazzoli code	Pack Qty
AISI 304 stainless steel	<b>820017</b>	1

**Equipment included:** screws and accessories for fixing.



**Symmetrical reflectors**  
in aluminium  
for steel light fixtures

Manufacturing material	For light fixtures (W)	Palazzoli code	Pack Qty
aluminium	18	<b>820002</b>	1
	36	<b>820003</b>	1



ZONE	GAS			DUST		
	0	1	2	20	21	22
USABLE			X		X	X

Watertight light fixtures in AISI 304 stainless steel for applications in explosion hazardous areas as defined in ATEX 2014/34/EU Directive.

The diffuser is made of tempered glass. The fixing hooks are in AISI 304 stainless steel.

The sealing is guaranteed by a gasket reinforced in non-ageing elastomer.

Complete with corrosion resistant non-loosening terminals and non-sparking lamp holders. Supplied with M20 cable gland.

Complete with internal and external earth connection.

Compliance with standards

Directive ATEX 2014/34/EU  
EN 60079-0  
EN 60079-15  
EN 60079-31  
Directive 2014/35/EU  
EN 60598-1  
EN 60598-2-1  
EN 60598-2-22  
EN 62493  
Directive 2014/30/EU  
EN 55015  
EN 61547  
EN 61000-3-2  
EN 61000-3-3  
Directive 2011/65/EU  
EN 50581

Atex execution

II 3G 2D  
Ex nA IIC T4 Gc  
Ex tb IIIC T 85 °C Db  
  
 II 3G 3D  
Ex nR IIC T6 Gc  
Ex tc IIIC T 70 °C Dc  
(emergency)

Casing material **AISI 304 stainless steel**

Diffuser material **Tempered glass**

Protection rating  
(IP according to  
IEC/EN 60529) **IP66**

Supply voltage **230 Vac-dc**

Operating frequency **0-50-60Hz**

Power factor **≥ 0.9**

Lamp holder **G13 T8**

Max conductor  
cross-section **2.5 mm<sup>2</sup>**

Entry cable diameter **10 - 14 mm**

Emergency  
battery lifetime **1h**

Emergency battery  
charging time **24h**

Insulation class **I**

Operating  
temperature **-20°C - +40°C (2 tubes)**  
**-20°C - +50°C (1 tube)**



The photometric curves (LDT files) are available on [www.palazzoli.com](http://www.palazzoli.com)

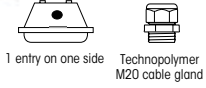
Technical data sheets updated to new standards  
on [palazzoli.com](http://palazzoli.com) website



**SUITABLE FOR ZONE 2 (GAS) AND 21-22 (DUST)**



**Light fixtures**  
in stainless steel-glass  
with **white reflector**  
**IP66**



Power (W)	Length (mm)	For tubes type	Version	Photometric curves	Palazzoli code	Pack Qty
1X18	690	T8	standard	8	<b>822131EX</b>	1
1X36	1300			8	<b>822231EX</b>	1
1X58	1600			8	<b>822331EX</b>	1
2X18	690			9	<b>822132EX</b>	1
2X36	1300			9	<b>822232EX</b>	1
2X58	1600			9	<b>822332EX</b>	1
(1+1)x18	690	T8	emergency	9	<b>822111EX</b>	1
(1+1)x36	1300			9	<b>822211EX</b>	1
(1+1)x58	1600			9	<b>822311EX</b>	1

**Equipment included:** pair of hooks in AISI 304 steel for pendant mounting, code 820001.  
**Features:** fluorescent tubes are not included.  
**Notes:** emergency light fixtures are suitable for zone 2-22.

**Technical accessories:**



**Light fixtures**  
in stainless steel - glass  
with **symmetrical aluminium reflector**  
**IP66**



Power (W)	Length (mm)	For tubes type	Version	Photometric curves	Palazzoli code	Pack Qty
1X18	690	T8	standard	10	<b>820131EX</b>	1
1X36	1300			10	<b>820231EX</b>	1
1X58	1600			10	<b>820331EX</b>	1
2X18	690			11	<b>820132EX</b>	1
2X36	1300			11	<b>820232EX</b>	1
2X58	1600			11	<b>820332EX</b>	1
(1+1)x18	690	T8	emergency	11	<b>820111EX</b>	1
(1+1)x36	1300			11	<b>820211EX</b>	1
(1+1)x58	1600			11	<b>820311EX</b>	1

**Equipment included:** pair of hooks in AISI 304 steel for pendant mounting, code 820001.  
**Features:** fluorescent tubes are not included.  
**Notes:** emergency light fixtures are suitable for zone 2-22.

**Technical accessories:**





ZONE	GAS			DUST		
	0	1	2	20	21	22
USABLE			X		X	X

Watertight light fixtures in aluminium alloy suitable for applications in explosion hazardous areas as defined in ATEX Directive 2014/34/EU.

The body of the light fixture is treated with ecological anti-corrosion passivation with fluoro-zirconium and finished with hot polymerised scratch-resistant non-toxic non-ageing polyester painting.

The colour of the body is light grey RAL 7035.


The diffuser is in prismatic tempered glass.

The steel wire protection cage is RAL 2011 deep orange and is attached to the body by means of stainless steel screws while the sealing is guaranteed by a reinforced gasket in non-ageing elastomer.

Predisposed for entry through an M20 cable gland.

Complete with internal and external earth screw.

Compliance with standards  
**Directive ATEX 2014/34/EU**  
**EN 60079-0**  
**EN 60079-15**  
**EN 60079-31**  
**Directive 2014/35/EU**  
**EN 60598-1**  
**EN 60598-2-1**  
**Directive 2011/65/EU**  
**EN 50581**

Atex execution  
 **II 3G 2D**  
**Ex nA IIC T3 Gc**  
**Ex tb IIIC T 75/85/90 °C Db**

Casing material **Aluminium alloy**

Surface treatment **Passivation with fluoro-zirconium treatment**

Paint **Hot polymerised non-toxic, non-ageing polyester**

Colour  
**RAL 7035 (light grey)**  
**Body**  
**RAL 2011 (deep orange)**  
**Protection cage**

Diffuser material **Prismatic tempered glass**

Protection rating (IP according to IEC/EN 60529) **IP65**

Protection cage material **Painted tropicalised steel wire**

Supply voltage **230V**

Operating frequency **50-60Hz**

Max conductor cross-section **2.5 mm<sup>2</sup>**

Entry cable diameter **10 - 14 mm**

Lamp holder type **Type E27 in porcelain**

Insulation class **I**

Operating temperature **-20°C - +40°C**





**SUITABLE FOR ZONE 2 (GAS) AND 21-22 (DUST)**



**Oval light fixtures**  
in aluminium alloy  
with steel protective cage  
**IP65**



Power (W)	Dimensions (mm)	Palazzoli code	Pack Qty
18	199x112	<b>831072EX</b>	1
28	226x130	<b>831172EX</b>	1
53	295x170	<b>831272EX</b>	1

**Equipment included:** internal and external earth screw and cable gland.



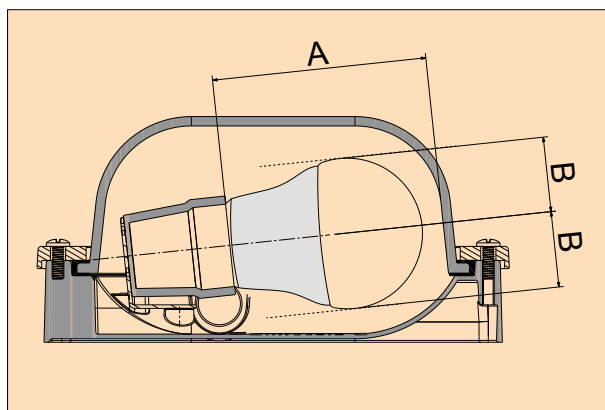
**Round light fixtures**  
in aluminium alloy  
with steel protective cage  
**IP65**



Power (W)	Dimensions (mm)	Palazzoli code	Pack Qty
28	200x182	<b>830072EX</b>	1

**Equipment included:** internal and external earth screw and cable gland.

**Light fixture/lamp selection**



**Dimensions**

Type bulb	Power (W)	A (mm)	B (mm)
	18	90	38
	28	110	40
	53	168	43
	28	90	38





ZONE	GAS			DUST		
	0	1	2	20	21	22
USABLE			X			X


Watertight light fixtures in AISI 2014/34 stainless steel for applications in explosion hazardous areas as defined in ATEX Directive 304/EU.

The light fixture is equipped with LED strips, 4000K colour temperature and CRI $\geq$ 80, installed on an ultra-bright aluminium reflector.

The body is cold-drawn in a single piece.

The diffuser is in tempered glass without metallic frame. The IP66 rating is guaranteed by a reinforced gasket in non-ageing elastomer and hooks in stainless steel AISI304.

The cable entry is made with an M20 cable gland in technopolymer.

Compliance with standards	<b>Directive ATEX 2014/34/EU</b> <b>EN60079-0</b> <b>EN60079-15</b> <b>EN60079-31</b> <b>Directive 2014/35/EU</b> <b>EN 60598-1</b> <b>EN 60598-2-1</b> <b>EN 62471</b> <b>EN 60598-2-22</b> <b>EN 62493</b> <b>IEC/TR 62778</b> <b>Directive 2014/30/EU</b> <b>EN 55015</b> <b>EN 61547</b> <b>EN 61000-3-2</b> <b>EN 61000-3-3</b> <b>Directive 2011/65/EU</b> <b>EN 50581</b>
Atex execution	 <b>II 3G 3D</b> <b>Ex nR IIC T6 Gc</b> <b>Ex tc IIIC T 70 °C Dc</b>
Body material	<b>AISI 304 stainless steel</b> <b>Painted galvanised steel</b>
Diffuser material	<b>Tempered glass</b>
Protection rating (IP according to IEC/EN 60529)	<b>IP66</b>
Paint	<b>Non-toxic polyester resistant to weather conditions and UV rays</b>
Colour	<b>RAL 9016 (painted galvanised steel version)</b>
Impact resistance (IK rating according to IEC/EN 62262)	<b>IK09</b>
Colour temperature	<b>4000K</b>
CRI	<b><math>\geq</math> 80</b>
Insulation class	<b>I</b>
Supply voltage	<b>220V - 240V</b>
Operating frequency	<b>50-60Hz</b>
Input surge protection	<b>2 kV</b> <b>EN 61000</b>
Photobiological risk	<b>Exempt</b>
Power factor	<b><math>\geq</math> 0.95</b>
Max conductor cross-section	<b>2.5 mm<sup>2</sup></b>
Entry cable diameter	<b>10-14 mm</b>
Emergency battery lifetime	<b>1h</b>
Emergency battery charging time	<b>24h</b>
Estimated device lifetime	<b>L80 B20 @50.000h Tq=25°C</b>
Storage temperature	<b>-40°C - +70°C</b>
Operating temperature	<b>-25°C - +40°C</b>



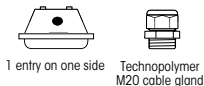
The photometric curves (LDT files) are available on [www.palazzoli.com](http://www.palazzoli.com)



SUITABLE FOR ZONE 2 (GAS) AND 22 (DUST)



LED light fixtures in **stainless steel - glass** with **extra wide beam optics IP66**



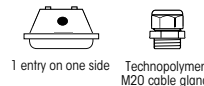
Device power (W)	Length (mm)	Rated flux (lm) Tj= 25 °C	Version	Photometric curves	Palazzoli code	Pack Qty
24	690	3.300	standard	19	<b>822142EX</b>	1
38	1300	5.600		20	<b>822242EX</b>	1
44	1600	6.500		21	<b>822342EX</b>	1
19	690	2.750	emergency	22	<b>822140EX</b>	1
36	1300	5.250		23	<b>822240EX</b>	1
44	1600	6.500		21	<b>822340EX</b>	1

**Equipment included:** pair of hooks in AISI 304 steel for pendant mounting, code 820001.  
**Notes:** the stated values may be subject to a +/- 7% tolerance.

**Technical accessories:**



LED light fixtures in **painted galvanised steel-glass** with **extra wide beam optics IP66**



Device power (W)	Length (mm)	Rated flux (lm) Tj= 25 °C	Version	Photometric curves	Palazzoli code	Pack Qty
24	690	3.300	standard	19	<b>842142EX</b>	1
38	1300	5.600		20	<b>842242EX</b>	1
19	690	2.750	emergency	22	<b>842140EX</b>	1
36	1300	5.250		23	<b>842240EX</b>	1

**Equipment included:** pair of hooks in AISI 304 steel for pendant mounting, code 820001.  
**Notes:** the stated values may be subject to a +/- 7% tolerance.

**Technical accessories:**



**EMERGENCY FLUX**

Rated flux (lm) Tj= 25 °C	Rated flux in emergency (lm)
2.750	962
5.250	945
6.500	975

**Notes:** the emergency flux is achieved by reducing the rated flux of the unit.



ZONE	GAS			DUST		
	0	1	2	20	21	22
USABLE						X

MITO LED-EX is suitable for use in explosion hazardous areas according to ATEX directive 2014/34/EU.

MITO LED-EX guarantees specific lighting and mechanical characteristics for installation in industrial environments, food industries and outdoor areas. The body is made of die-cast aluminium with anti-corrosion treatment, finished with a scratch-resistant powder coating.

The diffuser, made of 4 mm extra-clear tempered glass, guarantees maximum resistance in harsh environments with chemical substances.

Thanks to the different optics available in the catalogue (extra wide beam, narrow beam, elliptical beam and asymmetrical beam), the working areas can be illuminated in the best possible way, guaranteeing visual comfort and the best lighting performance.

Compliance with standards

Directive ATEX 2014/34/EU  
EN 60079-0  
EN 60079-31  
Directive 2014/35/EU  
EN 60598-1  
EN 60598-2-1  
EN 62471  
EN 62493  
IEC/TR 62778  
Directive 2014/30/EU  
EN 55015  
EN 61547  
EN 61000-3-2  
EN 61000-3-3  
Directive 2011/65/EU  
EN 50581

Atex execution	II 3D Ex tc IIIC T100 °C Dc
Body material	EN 46100 aluminium alloy
Surface treatment	Fluoro-zirconium treatment
Diffuser material	Extra clear tempered glass
Protection rating (IP according to IEC/EN 60529)	IP66
Paint	Hot-polymerised non-toxic polyester
Colour	RAL 9005
Impact resistance (IK rating according to IEC/EN 62262)	IK08
Corrosion class	C3 according to ISO 9223
Weight	max 9.5 kg
LED device efficiency	≥ 106 lm/W
Colour temperature	4000K (other temperatures on request)
CRI	≥ 80
Insulation class	I
Supply voltage	200-240V
Operating frequency	50-60 Hz
Input surge protection	10kV common mode 6 kV differential mode EN 61000
Residual flicker	< 1%
Photobiological risk	Exempt
Glare index	UGR ≤ 22
Power factor	≥ 0.95
Max conductor cross-section	1.5 mm <sup>2</sup>
Entry cable diameter	7-13 mm
Cable entry	ATEX cable gland M20
Estimated device lifetime	L80 B20 @110.000h Tq= -30 °C to +40 °C
Storage temperature	-40 °C - +70 °C
Operating temperature	-30 °C to + 40 °C (up to +55 °C or other special configurations on request. Table on page 270)





### SUITABLE FOR ZONE 22 (DUST)



Suspension LED light fixtures  
glass diffuser  
roto-symmetrical  
extra wide beam optics  
IP66

No. of LEDs	Device power (W)	Rated flux (lm) Tj= 25 °C	Version	Photometric curves	Palazzoli code	Pack Qty
9	99	13230	1-10 V dimmable standard	1	<b>810090EX</b>	1
12	133	17640		1	<b>810020EX</b>	1
15	168	22050		1	<b>810050EX</b>	1
18	199	26460		1	<b>810080EX</b>	1

**Equipment included:** quick connection for suspension.  
**Features:** UGR>22. Typical installation height between 5 and 9 m.  
**Notes:** the stated values may be subject to a +/- 7% tolerance. Other DALI or wireless control systems are available on request.

**Technical accessories:**



Suspension LED light fixtures  
glass diffuser  
elliptical beam optics  
IP66

No. of LEDs	Device power (W)	Rated flux (lm) Tj= 25 °C	Version	Photometric curves	Palazzoli code	Pack Qty
9	99	13230	1-10 V dimmable standard	8	<b>810092EX</b>	1
12	133	17640		8	<b>810022EX</b>	1
15	168	22050		8	<b>810052EX</b>	1
18	199	26460		8	<b>810082EX</b>	1

**Equipment included:** connection with double chain bracket.  
**Features:** suitable for installation between the aisles of industrial warehouses etc.  
**Notes:** the stated values may be subject to a +/- 7% tolerance. Other DALI or wireless control systems are available on request.

**Technical accessories:**

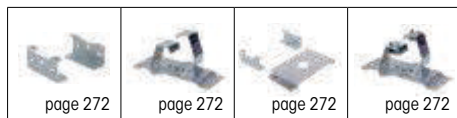


Suspension LED light fixtures  
glass diffuser  
roto-symmetrical  
narrow beam optics  
IP66

No. of LEDs	Device power (W)	Rated flux (lm) Tj= 25 °C	Version	Photometric curves	Palazzoli code	Pack Qty
9	99	13230	1-10 V dimmable standard	2	<b>810091EX</b>	1
12	133	17640		2	<b>810021EX</b>	1
15	168	22050		2	<b>810051EX</b>	1
18	199	26460		2	<b>810081EX</b>	1

**Equipment included:** quick connection for suspension.  
**Features:** typical installation height over 9 m.  
**Notes:** the stated values may be subject to a +/- 7% tolerance. Other DALI or wireless control systems are available on request.

**Technical accessories:**



LED floodlights  
glass diffuser  
asymmetrical optics  
IP66

No. of LEDs	Device power (W)	Rated flux (lm) Tj= 25 °C	Version	Photometric curves	Palazzoli code	Pack Qty
9	99	13230	1-10 V dimmable standard	4	<b>810296EX</b>	1
12	133	17640		4	<b>810226EX</b>	1
15	168	22050		4	<b>810256EX</b>	1
18	199	26460		4	<b>810286EX</b>	1

**Equipment included:** adjustable bracket for wall-mounting or mounting on load-bearing structures (walls, poles, pylons).  
**Features:** suitable for illuminating outdoor areas.  
**Notes:** the stated values may be subject to a +/- 7% tolerance. Other DALI or wireless control systems are available on request.

**Technical accessories:**











# MARINE SECTION



**Palazzoli**

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**DISTRIBUTION TURRETS**

**B-SMART**  
distribution turrets  
with 2 sockets

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**B-SMART**  
distribution turrets  
with 4 sockets

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**CONTAINER SOCKETS**

**CONTAINER**  
interlocked socket-outlets  
in thermosetting GRP

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**CONTAINER**  
interlocked socket-outlets  
in thermoplastic material

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**X-CEE**  
technopolymer sockets,  
plugs and rotoswitches

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**CONTAINER**  
panel-mounted  
thermoplastic sockets

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**UNAV DEVICES**

**NAVE**  
UNAV boxes

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**NAVE**  
UNAV interlocked  
socket-outlets

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**NAVE**  
UNAV rotary switches and  
two-way switches

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**NAVE**  
UNAV bells and sirens


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UNAV LIGHTING DEVICES

**NAVE**  
UNAV light fixtures  
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**NAVE**  
UNAV cylindrical well glass fixtures  
page 356

**NAVE**  
UNAV brass bodies  
page 357




**NAVE**  
UNAV diffusers and cages  
page 357

**NAVE**  
UNAV large light fixtures  
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**NAVE**  
UNAV portable light fixture  
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LIGHT FIXTURES FOR MARINE USE

**RINO**  
LED light fixtures in painted galvanised steel  
page 360




**RINO**  
fluorescent light fixtures in painted galvanised steel  
page 363

**RINO**  
LED light fixtures for bulkheads  
page 362




**RINO**  
fluorescent light fixtures for bulkhead  
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**RINO**  
LED light fixtures in painted AISI 316L stainless steel  
page 362




**RINO**  
fluorescent light fixtures in painted AISI 316L stainless steel  
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# B-SMART



## Stainless

Thanks to AISI 316L stainless steel, it can be installed in any environment.



## Visible

Thanks to the backlighting system of the socket-outlets.



## Customisable

Contact the Palazzoli Technical Service to explore your requirements.



The turrets are made of AISI 316L stainless steel, class II, for the distribution of electricity from 16A to 63A, water and, on request, other services (data, TV, compressed air, etc..).

They are used in port areas, campsites, urban areas and also in industrial areas.

They are available in the standard versions with a width of 276 mm and in the compact 208 mm version; the latter is particularly suitable for wharfs and where it is necessary to reduce the overall dimensions to a minimum. The range is completed by the versions for fire-fighting and for wharf end.

Compliance with standards	<b>IEC/EN 61439-1</b>
Material	<b>AISI 316L stainless steel</b>
Protection rating (IP according to IEC/EN 60529)	<b>IP56</b>
Colour	<b>RAL7035 (body)</b>
Impact resistance (IK rating according to IEC/EN 62262)	<b>IK10</b>
Lamp lighting	<b>Fluorescent 11W 230V</b>
Power terminal block	<b>3P+N+<math>\neq</math> 35mm<sup>2</sup></b>
Lighting circuit terminal block	<b>2P 6mm<sup>2</sup></b>
Lamp holder	<b>Type E27</b>
Insulation class	<b>II <math>\square</math></b>
Storage temperature	<b>-30°C - +70°C</b>
Operating temperature	<b>-25°C - +50°C</b>



**Turrets for wharf end**  
in AISI 316L stainless steel  
with **2 fixed socket-outlets**  
and **2 taps**  
50-60Hz **IP56**

Dimensions (mm)	Industrial socket-outlets		No. of taps	Palazzoli code	Pack Qty
	16A 2P+ $\neq$ 230V	32A 2P+ $\neq$ 230V			
360x895x208	2		2	<b>576100</b>	1
	1	1	2	<b>576101</b>	1

**Features:** switch compartment door with triangular safety lock. Cable strain relief device. Suitable for fastening onto concrete using max M10 threaded pins (not included).



**Turrets for wharf end**  
in AISI 316L stainless steel  
with **2 interlocked socket-outlets**  
and **2 taps**  
50-60Hz **IP56**

Dimensions (mm)	Industrial interlocked socket-outlets				No. of taps	Palazzoli code	Pack Qty
	16A 2P+ $\neq$ 230V	32A 2P+ $\neq$ 230V	32A 3P+N+ $\neq$ 400V	63A 3P+N+ $\neq$ 400V			
360x895x208	2				2	<b>576110</b>	1
	1	1			2	<b>576111</b>	1
360x895x276				2	2	<b>576112</b>	1
			1	1	2	<b>576113</b>	1

**Features:** switch compartment door with triangular safety lock. Cable strain relief device. Suitable for fastening onto concrete using max M10 threaded pins (not included).





**Turrets for wharf end**  
in AISI 316L stainless steel with  
**4 interlocked socket-outlets**  
and **4 taps**  
50-60Hz **IP56**

Dimensions (mm)	Industrial interlocked socket-outlets					No. of taps	Palazzoli code	Pack Qty	
	16A 2P+≐ 230V	16A 3P+≐ 400V	16A 3P+N+≐ 400V	32A 2P+≐ 230V	32A 3P+N+≐ 400V				
360x895x276	4					4	<b>576200</b>	1	
						4	<b>576201</b>	1	
	2	2				4	<b>576202</b>	1	
	2			2			4	<b>576203</b>	1
	2	2				4	<b>576205</b>	1	
2	1				1	4	<b>576206</b>	1	

**Features:** switch compartment door with triangular safety lock. Cable strain relief device. Suitable for fastening onto concrete using max M10 threaded pins (not included).



**Turrets for campsites**  
in AISI 316L stainless steel  
with **4 fixed socket-outlets**  
50-60Hz **IP56**

Dimensions (mm)	Industrial socket-outlets 16A 2P+≐ 230V	Palazzoli code	Pack Qty
360x895x276	4	<b>576401</b>	1

**Features:** switch compartment door with triangular safety lock. Cable strain relief device. Suitable for fastening onto concrete using max M10 threaded pins (not included).



**Turret for wharf end**  
in AISI 316L  
stainless steel  
**IP56**

No. of modules EN50022	Dimensions (mm)	Palazzoli code	Pack Qty
36 (12x3)	360x895x276	<b>576800</b>	1

**Features:** the protection devices can be mounted on EN50022 rail in 3 separate watertight insulating enclosures. The input and output of the power supply lines can be made from below. Suitable for fastening onto concrete using max M10 threaded pins (not included).



**Turrets for campsites**  
in AISI 316L stainless steel with  
**4 interlocked socket-outlets**  
50-60Hz **IP56**

Dimensions (mm)	Interlocked industrial socket-outlets 16A 2P+≐ 230V	Palazzoli code	Pack Qty
360x895x276	4	<b>576400</b>	1

**Features:** switch compartment door with triangular safety lock. Cable strain relief device. Suitable for fastening onto concrete using max M10 threaded pins (not included).

**Fire prevention turret**  
in AISI 316L stainless steel  
for an **extinguisher**  
**IP56**

Housable extinguisher	Dimensions (mm)	Palazzoli code	Pack Qty
No. 1 extinguisher 6 or 9 Kg	360x895x276	<b>576600</b>	1

**Features:** patented "SAFE CRASH" flat breakable glass  
Suitable for fastening onto concrete using max M10 threaded pins (not included).  
**Notes:** extinguisher not included.

**Support base**  
for turrets

For turret dimensions type	Application	Material	Palazzoli code	Pack Qty
360x895x208	Raising 65 mm and floor flush-mounted	stainless steel	<b>575701</b>	1
360x895x276			<b>575702</b>	1

**Decorative and containment frame**  
in AISI 316L stainless steel  
for B-SMART turrets

Description	For turret dimensions type	Palazzoli code	Pack Qty
stainless steel frame complete with fixing screws	360x895x208	<b>575711</b>	1
stainless steel frame complete with fixing screws	360x895x276	<b>575710</b>	1

**Fire prevention turret**  
in AISI 316L stainless steel  
with **fire hose and nozzle**  
**IP56**

Equipment	Dimensions (mm)	Palazzoli code	Pack Qty
fire hose and nozzle	360x895x276	<b>576601</b>	1

**Features:** fire hose type 'gornel', Ø 45mm, 20 m. Lance type AWG UNI45 with 3 effects, complete with 1"1/2 UNI45 brass tap. Features: patented "SAFE CRASH" flat breakable glass  
Suitable for fastening onto concrete using max M10 threaded pins (not included).

**Breakable glass**  
**SAFE CRASH**  
for fire prevention turrets

Description	Palazzoli code	Pack Qty
patented "SAFE CRASH" flat breakable glass	<b>575706</b>	1

**Door lock kit** for pier  
and camping turrets

Description	Palazzoli code	Pack Qty
kit with 2 unified code keys	<b>575708</b>	1

# CONTAINER



## Total protection

Thanks to resistance to salty atmosphere, UV rays and overtemperatures.



## AC3-AC23A

Thanks to the isolator switch at rated current.

Palazzoli - Via Palazzoli 31, 25128 Brescia Italy  
32A-3h/380V 50Hz-440V 60Hz  
50-60Hz X-CEE  
3P+G IP68/IP67/IP66/IP69  
770233  
Made in Italy



## Per container

Thanks to 380/440V, 3h, 32A plugs and sockets, the power supply of refrigerated containers is guaranteed.



Compliance with standards	<b>IEC/EN 60309-1 IEC/EN 60309-2 CEI EN 60309-4</b>
Protection rating (IP according to IEC/EN 60529)	<b>Thermosetting GRP page 96 Aluminium page 118 Thermoplastic material page 69 Technopolymer page 46</b>
Rated current	<b>32A 3P+<math>\neq</math> 3h</b>
Operating voltage	<b>380/440V</b>
Operating frequency	<b>50-60Hz</b>
Storage temperature	<b>Thermosetting GRP page 96 Aluminium page 118 Thermoplastic material page 69 Technopolymer page 46</b>
Operating temperature	<b>Thermosetting GRP page 96 Aluminium page 118 Thermoplastic material page 69 Technopolymer page 46</b>



Rated operating currentswitch:			32A
Thermal current Ith		A	32
AC21A	400V	A	32
AC22A	400V	A	32
AC23A	400V	A	32
AC23A	400V	kW	15
AC3	400V	kW	15

**THERMOSETTING GRP**

M32 ENTRY



**Interlocked socket-outlet**  
in thermosetting GRP  
with **MCB** for wall-mounting  
50-60Hz **IP67**

Rated current (A)	Rated voltage	Voltage colour	Poles	h ref.	Palazzoli code	Pack Qty
32	380/440V	●	3P+ $\neq$	3	<b>474771</b>	1

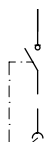
M25 ENTRY



**Interlocked socket-outlet**  
in thermosetting GRP  
for wall-mounting  
50-60Hz **IP66/IP67**

Rated current (A)	Rated voltage	Voltage colour	Poles	h ref.	Palazzoli code	Pack Qty
32	380/440V	●	3P+ $\neq$	3	<b>469233</b>	1

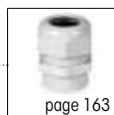
M32 ENTRY



**Interlocked socket-outlet**  
in thermosetting GRP  
for wall-mounting  
and **DIN rail**  
50-60Hz **IP67**

Rated current (A)	Rated voltage	Voltage colour	Poles	h ref.	Palazzoli code	Pack Qty
32	380/440V	●	3P+ $\neq$	3	<b>472133</b>	1

Technical accessories:



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**ALUMINIUM**

WINDOW F1



**Interlocked socket-outlet**  
in aluminium alloy  
with **MCB**  
for wall-mounting  
50-60Hz **IP67**

Rated current (A)	Rated voltage	Voltage colour	Poles	h ref.	Palazzoli code	Pack Qty
32	380/440V	●	3P+≐	3	<b>474486</b>	1

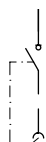
WINDOW F1



**Interlocked socket-outlet**  
in aluminium alloy  
for wall-mounting  
50-60Hz **IP67**

Rated current (A)	Rated voltage	Voltage colour	Poles	h ref.	Palazzoli code	Pack Qty
32	380/440V	●	3P+≐	3	<b>460233</b>	1

WINDOW F1



**Interlocked socket-outlet**  
in aluminium alloy  
with **DIN rail**  
for wall-mounting  
50-60Hz **IP67**

Rated current (A)	Rated voltage	Voltage colour	Poles	h ref.	Palazzoli code	Pack Qty
32	380/440V	●	3P+≐	3	<b>472735</b>	1

Technical accessories:



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**THERMOPLASTIC**



**Interlocked socket-outlet**  
for distribution boards  
50-60Hz **IP66/IP67**

Rated current (A)	Rated voltage	Voltage colour	Poles	h ref.	Palazzoli code	Pack Qty
32	380/440V	●	3P+≐	3	<b>491233</b>	1

Technical accessories:



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**15° angled**  
**flush-mounted fixed socket**  
50-60Hz **IP66/IP67**

Rated current (A)	Rated voltage	Voltage colour	Dimensions (mm)	Poles	h ref.	Palazzoli code	Pack Qty
32	380/440V	●	88x100	3P+≐	3	<b>489233</b>	1

Technical accessories:



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**TECHNOPOLYMER**



**Straight panel-mounted socket**  
50-60Hz  
**IP66/IP67/IP68/IP69**

Rated current (A)	Rated voltage	Voltage colour	Dimensions (mm)	Poles	h ref.	Palazzoli code	Pack Qty
32	380/440V	●	65x83	3P+≐	3	<b>772233</b>	1

Technical accessories:



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**Coupler**  
50-60Hz  
**IP66/IP67/IP68/IP69**

Rated current (A)	Rated voltage	Voltage colour	Dimensions (mm)	Poles	h ref.	Palazzoli code	Pack Qty
32	380/440V	●	88x100	3P+≐	3	<b>770233</b>	1



**Straight panel-mounted rotoswitched socket**  
50-60Hz  
**IP66/IP67/IP69**

Rated current (A)	Rated voltage	Voltage colour	Dimensions (mm)	Poles	h ref.	Palazzoli code	Pack Qty
32	380/440V	●	65x83	3P+≐	3	<b>412233</b>	1

Technical accessories:



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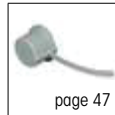
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**Plug**  
50-60Hz  
**IP66/IP67/IP68/IP69**

Rated current (A)	Rated voltage	Voltage colour	Poles	h ref.	Palazzoli code	Pack Qty
32	380/440V	●	3P+≐	3	<b>760233</b>	1

Technical accessories:



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# Nave



## Non ageing

Thanks to the stainless material.



## Guaranteed protection

Thanks to the external installation slots.



## Complete

Thanks to the included terminal blocks.



The electrical and lighting equipment of the NAVE SERIES was born to meet the specific plant requirements on board ships, merchant ships and military ships.

The series is characterised by materials with high technical properties (mainly solid die-cast brass and thermosetting polyester reinforced with fibreglass), and consists of small control, pick-up and light signalling devices, industrial sockets and plugs, brass sirens and ringtones, junction boxes and lighting fixtures in brass and stainless steel. All the equipments are rigorously made in watertight execution and meet the tables of UNAV naval unification.

Compliance with standards	<b>UNAV unification tables</b>
Material	<b>Painted solid brass or thermosetting GRP</b>
Protection rating (IP according to IEC/EN 60529)	<b>IP56 - IP66 - IP67</b>
Colour	<b>RAL7042</b>
Insulation class	<b>I</b>
Storage temperature	<b>50°C - +80°C</b>
Operating temperature	<b>-40°C - +70°C</b>



**UNAV 2181 boxes**  
in thermosetting GRP painted marine grey with terminal block **IP67**

Outer dimensions (mm)	Terminal type	Palazzoli code	Pack Qty
92x92x100	4x6 mm <sup>2</sup>	<b>115200</b>	1
125x92x100	2 rows of 4x6 mm <sup>2</sup>	<b>115201</b>	1
125x92x100	2 rows of 6x6 mm <sup>2</sup>	<b>115202</b>	4



**UNAV 1398 boxes**  
in painted marine grey brass with terminal block and UNAV 1948 cable gland **IP66**

Inner diameter (mm)	Terminal type	No. of cable glands	Palazzoli code	Pack Qty
70	4x6 mm <sup>2</sup>	2 opposites	<b>115125</b>	1
70	4x6 mm <sup>2</sup>	3 opposites	<b>115135</b>	1
70	4x6 mm <sup>2</sup>	4 opposites	<b>115145</b>	1

**Equipment included:** brass cable glands M24x1.5 complete with gasket.

Earth screws inside and outside the box

**Features:** terminal block with cage terminals.



**UNAV 2161 boxes**  
in painted marine grey brass with terminal block and UNAV 1948 cable gland **IP66**

Inner diameter (mm)	Terminal type	No. of cable glands	Palazzoli code	Pack Qty
62	4x6 mm <sup>2</sup>	2 opposites + 2 caps	<b>115628</b>	1
62	4x6 mm <sup>2</sup>	3 opposites + 1 cap	<b>115638</b>	1
62	4x6 mm <sup>2</sup>	4 opposites	<b>115648</b>	1

**Equipment included:** brass cable glands N24x1.5. Earth screws inside and outside the box

**Features:** terminal block with cage terminals.



**UNAV 1435 socket-outlets**  
in marine grey painted brass  
with terminal block and  
UNAV 1948 cable gland  
50-60Hz **IP66**

Rated current (A)	Rated voltage	Poles	No. of cable glands	Palazzoli code	Pack Qty
10	24V~	2P+⊕	1	<b>461121</b>	1
	127V~	2P+⊕	1	<b>461151</b>	1
	230V~	2P+⊕	1	<b>461131</b>	1

**Equipment included:** brass cable gland M24x1.5. Earth screws inside and outside the box.



**UNAV 1436 interlocked socket-outlets**  
in marine painted brass  
with UNAV 1948 cable gland  
50-60Hz **IP56**

Rated current (A)	Rated voltage	Poles	No. of cable glands	Palazzoli code	Pack Qty
10	127V~	2P+⊕	1	<b>462151</b>	1
	230V~	2P+⊕	1	<b>462131</b>	1

**Equipment included:** brass cable glands N24x1.5. Earth screws inside and outside the box.



**UNAV 1437 mobile plugs**  
with ring nut  
and rubber sleeve  
50-60Hz **IP56**

Rated current (A)	Rated voltage	Poles	Palazzoli code	Pack Qty
10	24V~	2P+⊕	<b>467021</b>	10
	127V~	2P+⊕	<b>467051</b>	10
	230V~	2P+⊕	<b>467031</b>	10



**UNAV 2169 interlocked socket-outlets**  
in marine grey painted brass  
with UNAV 1948 cable glands  
50-60Hz **IP66**

Rated current (A)	Rated voltage	Poles	h ref. (h)	No. of entries	Entry type	Palazzoli code	Pack Qty
32	380/440V	3P+⊕	3	1	330x18 M30x2 UNAV 1948	<b>472401</b>	1
					2 side ones, opposite	1" gas	<b>472411</b>

**Equipment included:** brass cable gland Terminal block 3x1.6mm<sup>2</sup> on ceramic support.  
**Features:** switch directly controlled by the plug connection/disconnection.



**UNAV 2172 plug**  
in marine grey painted brass  
50-60Hz **IP66**

Rated current (A)	Rated voltage	Voltage colour	Poles	h ref.	Palazzoli code	Pack Qty
32	380/440V	●	3P+⊕	3	<b>477411</b>	2

**Equipment included:** brass cable gland 36x21 UNAV 1948.



**UNAV 2166 socket-outlets**  
in marine grey painted brass  
with UNAV 1948 cable gland  
50-60Hz **IP66**

Rated current (A)	Rated voltage	Voltage colour	Poles	h ref.	Palazzoli code	Pack Qty
16	230V	●	2P+⊕	6	<b>478213</b>	1
	230V	●	3P+⊕	9	<b>478313</b>	1
	400V	●	3P+⊕	6	<b>478323</b>	1

**Equipment included:** brass cable gland M24x1.5.  
**Features:** contact holder insert in self-extinguishing thermosetting material.

**Technical accessories:**



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**UNAV 2162 rotary switches**  
in marine grey painted brass  
with UNAV 1948 cable glands  
250V **IP66**

Rated current (A)	Poles	No. of cable glands	Palazzoli code	Pack Qty
10	1	1	<b>232616</b>	1
	1	2 combined	<b>232626</b>	1
	1	2 opposites	<b>232636</b>	1
	2	2 combined	<b>232627</b>	1
	2	2 opposites	<b>232637</b>	1

**Equipment included:** brass cable glands N24x1.5. Earth screws inside and outside the box.



**UNAV 2162 rotary two-way switch sockets**  
in marine grey painted brass  
with UNAV 1948 cable glands  
250V **IP66**

Rated current (A)	Poles	No. of cable glands	Palazzoli code	Pack Qty
10	2	2 combined	<b>232628</b>	1

**Equipment included:** brass cable glands N24x1.5. Earth screws inside and outside the box.



**UNAV 2162 rotary switches in solid brass**  
with UNAV 1948 cable gland  
250V **IP66**

Rated current (A)	Poles	No. of cable glands	Palazzoli code	Pack Qty
10	1	1	<b>861550</b>	1

**Equipment included:** brass cable gland M24x1.5.



**UNAV 1384 bells**  
in marine grey painted brass  
with UNAV 1948 cable gland  
50-60Hz **IP66**

Rated voltage	Drum diameter (mm)	Sound level at 1 m. (dB)	Power (VA)	No. of cable glands	Palazzoli code	Pack Qty
24V~	155	101	13VA initial 11VA vibrating	1	<b>900355</b>	1
110V~	155	101	13VA initial 11VA vibrating	1	<b>900365</b>	1
230V~	155	101	13VA initial 11VA vibrating	1	<b>900375</b>	1

**Equipment included:** brass cable glands M24 x1.5, terminal block in thermosetting material.  
**Features:** they are suitable for continuous and extended operation. Earth screws inside and outside the box.



**UNAV 1382 socket-outlets**  
in marine grey painted brass  
with UNAV 1948 cable gland  
50-60Hz **IP66**

Rated voltage	Sound level at 1 m. (dB)	Power (VA)	No. of cable glands	Palazzoli code	Pack Qty
24V~	107/105	60VA initial 25VA vibrating	1	<b>900553</b>	1
110V~	107/105	60VA initial 25VA vibrating	1	<b>900563</b>	1
230V~	107/105	60VA initial 25VA vibrating	1	<b>900573</b>	1

**Equipment included:** brass cable glands M24 x1.5, terminal block in insulating thermosetting material.  
**Features:** fitted with vibrating membrane they are suitable for continuous operation and with a pause of 1h every 4h. Earth screws inside and outside the box.



**UNAV 1382 directional horn**  
in marine grey painted brass  
for sirens

Max. diameter (mm)	Siren+horn projection (mm)	Palazzoli code	Pack Qty
112	238	<b>900548</b>	1

**Equipment included:** stainless steel fixing screws.





**UNAV 2135 light fixtures**  
in marine grey painted brass  
with glass diffuser  
and UNAV 1948 cable gland  
230V **IP66**

Lamp max power (W)	Lamp holder type	No. of cable glands	Palazzoli code	Pack Qty
60	E27	1	<b>831069</b>	1
60	E27	2	<b>831089</b>	1
75	E27	1	<b>831109</b>	1
75	E27	2	<b>831189</b>	1
100	E27	1	<b>831209</b>	1
100	E27	2	<b>831289</b>	1

**Equipment included:** brass cable glands N24x1.5. Internal and external earth screws.



**Stainless steel protective cage**  
for UNAV 2135 oval light fixtures

Light fixture max. power (W)	Palazzoli code	Pack Qty
60	<b>831527</b>	1
75	<b>831627</b>	1
100	<b>831727</b>	1



**Anti-vibrating bayonet lamp holder**  
swann type  
for UNAV 2135 oval light fixtures

Type	Lamp holder material	Palazzoli code	Pack Qty
B22d 4A 250V	brass	<b>859412</b>	1

**Equipment included:** fixing support.



**UNAV 2132 well glass fixture**  
in marine grey painted brass  
with UNAV 1948 cable glands  
230V **IP66**

Lamp max power (W)	Lamp holder type	No. of cable glands	Palazzoli code	Pack Qty
75	E27	1	<b>850140</b>	1
75	E27	2 opposites	<b>850143</b>	1

**Equipment included:** brass cable glands N24x1.5. Internal and external earth screws.



**UNAV 2133 well glass fixture**  
in marine grey painted brass  
230V **IP66**

Lamp max power (W)	Lamp holder type	No. of cable glands	Palazzoli code	Pack Qty
60	E27	2 combined	<b>850054</b>	2

**Equipment included:** brass 3/4" feedthrough cable glands. Internal and external earth screws.



**Bodies** in marine grey painted brass with UNAV 1948 cable glands for UNAV 2133 cylindrical light fixtures **IP66**

Lamp max power (W)	Lamp holder type	No. of cable glands	Cable gland type	Palazzoli code	Pack Qty
60	E27	1	M24x1.5	<b>850042</b>	1
60	E27	2 opposites	M24x1.5	<b>850045</b>	1
60	E27	2 combined	3/4" bulkhead	<b>850065</b>	1

**Equipment included:** brass cable glands. Internal and external earth screws.



**Boxes** in marine grey painted brass with UNAV 1948 cable glands complete with holder rings for UNAV 2134 well glass fixtures **250V IP66**

Lamp max power (W)	Lamp holder type	No. of cable glands	Cable gland type	Palazzoli code	Pack Qty
60	E27	1	M24x1.5	<b>815141</b>	1
60	E27	2 opposites	M24x1.5	<b>815151</b>	1
60	E27	2 combined	M24x1.5	<b>815161</b>	1
60	E27	2 combined	3/4" bulkhead	<b>815181</b>	1

**Equipment included:** brass cable glands. Internal and external earth screws.  
**Features:** the item code 815181 is UNAV 1796.



**UNAV 1268 diffusers** in smooth coloured glass for cylindrical well glass fixtures

Lamp max power (W)	Colour	Palazzoli code	Pack Qty
60	transparent	<b>850060</b>	1
	blue	<b>850061</b>	1
40	yellow	<b>850062</b>	1
	red	<b>850063</b>	1
	green	<b>850064</b>	1



**UNAV 2133 globe-holder ring** in nickel-plated brass for well glass fixtures

Max power Well glass fixtures (W)	Palazzoli code	Pack Qty
60	<b>850050</b>	1



**UNAV 2133 globe-holder ring** in nickel-plated brass with stainless steel cage for well glass fixtures

Max power Well glass fixtures (W)	Palazzoli code	Pack Qty
60	<b>850058</b>	1



**Protection cages** in stainless steel wire for cylindrical well glass fixtures

Lamp max power (W)	Palazzoli code	Pack Qty
60	<b>819022</b>	1
75	<b>850172</b>	1



**Base for ceiling-mounting** in tropicalised steel for UNAV 2132, 2133, 2134 cylindrical well glass fixtures

Type	Palazzoli code	Pack Qty
A UNAV 1228	<b>850090</b>	1



**Base for wall-mounting** in tropicalised steel for UNAV 2132, 2133, 2134 cylindrical light fixtures

Type	Palazzoli code	Pack Qty
B UNAV 1228	<b>850091</b>	1



**Reflectors**  
in **painted galvanised steel**  
for cylindrical light fixtures

Lamp max power (W)	Colour	Palazzoli code	Pack Qty
60	white	<b>819030</b>	5
75		<b>819130</b>	5
100		<b>819230</b>	5



**Shade**  
in **painted galvanised steel**  
for directing lighting output  
of cylindrical light fixtures

Lamp max power (W)	Colour	Palazzoli code	Pack Qty
60	aluminium	<b>819035</b>	1
75		<b>819135</b>	1
100		<b>819235</b>	1



Anti-vibrating bayonet  
**lamp holder** swann type  
with fins for cylindrical well  
glass fixtures

Type	Lamp holder material	Palazzoli code	Pack Qty
B22d 4A 250V	brass	<b>859400</b>	1

**Equipment included:** fixing support.



**UNAV 2139 large light fixture**  
in marine grey painted brass  
with UNAV 1948 cable gland  
230V **IP66**

Lamp max power (W)	Lamp holder type	No. of cable glands	Palazzoli code	Pack Qty
3x75	3xE27	1	<b>850300</b>	1

**Equipment included:** brass cable gland M24x1.5. Internal and external earth screws.  
**Features:** hinged globe holder. Transparent glass diffuser.



**UNAV 2139 large light fixture**  
in marine grey painted brass  
with stainless steel protective  
cage with UNAV 1948  
cable gland  
230V **IP66**

Lamp max power (W)	Lamp holder type	No. of cable glands	Palazzoli code	Pack Qty
3x75	3xE27	1	<b>850301</b>	1

**Equipment included:** brass cable gland M24x1.5. Internal and external earth screws.  
**Features:** hinged globe holder. Transparent glass diffuser.



**Sprung installation base**  
for UNAV 2139  
large light fixtures

Type	Palazzoli code	Pack Qty
UNAV 1230 for 1/2" gas tube	<b>850391</b>	1

**Uses:** for pendant installation with 1"1/2 steel tube.



**UNAV 1948  
brass cable gland**  
with sleeve  
**IP66**

Type	Palazzoli code	Pack Qty
B2 24 UNAV 1948 - M24x1.5	<b>585410</b>	10

**Features:** supplied without washers and gaskets.



**Bushes in brass**  
for earth connection  
of cable reinforcement  
**IP66**

Inner diameter (mm)	Type	Palazzoli code	Pack Qty
8	B2 24 UNAV 1949	<b>585316</b>	10
9		<b>585317</b>	10
10.5		<b>585318</b>	10
13		<b>585319</b>	10

**Features:** supplied without washers and gaskets.



**UNAV 1062**  
brass cable gland

Type	Palazzoli code	Pack Qty
24 UNAV 1062	<b>585480</b>	10

**Features:** supplied without washers and gaskets.



**Brass washers**  
with gasket in non-ageing  
elastomer

Inner diameter (mm)	Palazzoli code	Pack Qty
8	<b>585406</b>	10
9	<b>585407</b>	10
10	<b>585408</b>	10
11	<b>585409</b>	10
12	<b>585411</b>	10
13	<b>585412</b>	10
14	<b>585413</b>	10
15	<b>585414</b>	10
16	<b>585415</b>	10
17	<b>585416</b>	10



**Screw cap in brass**  
with gaskets  
**IP66**

Threading	Palazzoli code	Pack Qty
M24x1.5	<b>585490</b>	10



**UNAV 2137**  
portable well glass fixture  
in thermosetting GRP with  
stainless steel protection cage  
250V **IP65**

Lamp max power (W)	Lamp holder type	Palazzoli code	Pack Qty
60	E27	<b>814052</b>	1

**Equipment included:** cable entry with 1 M20 cable gland and internal cable clamp.  
**Features:** diffuser in ribbed clear glass. Lamp holder in porcelain.



**Clear ribbed glass diffusers**  
for cylindrical well glass fixtures

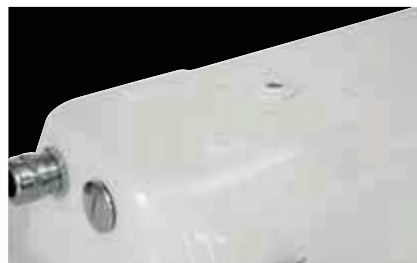
Well glass fixture max. power (W)	Colour	Palazzoli code	Pack Qty
60	transparent	<b>819012</b>	1

# RINO



## Corrosion resistant

Thanks to the total absence of welded joints.



## Vibration free

Thanks to the fixing pins and preassembled anti-vibration system.



## High performance over time

Thanks to the diffuser in unbreakable polycarbonate, with V2 self-extinguishing grade, anti yellowing, stabilised against UV rays.





The RINO light fixtures for marine use have been designed to be always the optimal product irrespectively of the type of boat to be illuminated. Versions are available for outdoor use, with body in AISI 316L stainless steel painted white and diffuser in transparent or opal polycarbonate, for indoor use, with body in white painted galvanised steel, diffuser in transparent or opal polycarbonate and for bulkheads.

The total absence of welds replaced by "buttons" guarantees the stainlessness of the light fixture and consequently an extremely long durability. The light fixtures are equipped with stainless steel fixing pins with anti-vibration system.

Stainless steel click connections guarantee perfect tightness and maximum impact resistance.

Compliance with standards	Directive 2014/35/EU EN 60598-1 EN 60598-2-1 EN 62471 EN 60598-2-22 EN 62493 IEC/TR 62778 Directive 2014/30/EU EN 55015 EN 61547 EN 61000-3-2 EN 61000-3-3 Directive 2011/65/EU EN 50581
Material	Painted AISI 316L stainless steel Painted galvanised steel
Paint	Non-toxic polyester resistant to weather conditions and UV rays
Colour	White RAL 9016
Diffuser material	Transparent polycarbonate and opal polycarbonate
Protection rating (IP according to IEC/EN 60529)	IP66/IP67
Impact resistance (IK rating according to IEC/EN 62262)	IK09
LED colour temperature	4000K (on request 3000K; 6500K)
CRI	90
Fluorescent lamp holder	G5 T5
Supply voltage	180V -260V
Frequency	0-50-60Hz
Input surge protection	2 kV EN 61000
Photobiological risk	RG0
Power factor	≥ 0.9
Max conductor cross-section	2.5 mm <sup>2</sup>
Entry cable diameter	7 - 15 mm
Emergency battery lifetime	3h
Emergency battery charging time	24h
Insulation class	I
Estimated device lifetime	L80 B20 @50.000h Tq=-25 °C to +50 °C
Storage temperature	-40°C - +70°C
Operating temperature	-25°C - +50°C (Special solutions for low temperature applications available on request)



The photometric curves (LDT files) are available on [www.palazzolilux.com](http://www.palazzolilux.com)

### Resistance to chemical agents

WATER	SALINE SOLUTION	ACIDS		BASES		SOLVENTS			
		CONCENTRATED	DILUTED	CONCENTRATED	DILUTED	ALCOHOL	ACETONE	PERCHLORO-ETHYLENE	BENZENE
↑	↑	→	↑	↑	↑	↑	↑	↑	↑
OILS		FATS		AMMONIA	OXIDISERS	INORGANIC SALTS	GASOLINE	DETERGENTS	U.V. RAYS
MINERAL	VEGETABLE	ANIMAL	SYNTHETIC						
↑	↑	↑	↑	↑	→	↑	↑	↑	↑

Legend: ↑ high resistance → partial resistance



LED light fixtures  
in **painted galvanised steel**  
**transparent polycarbonate**  
with extra wide beam optics  
**IP66/IP67**



Device power (W)	Length (mm)	Rated flux (lm) Tj= 25 °C	Version	Photometric curves	Palazzoli code	Pack Qty
20	690	2.200	standard	9	<b>849141</b>	1
40 (2x20)	690	4.400		9	<b>849142</b>	1
40 / 20+20	1300	4.400		9	<b>849243</b>	1
20	690	2.200	emergency	9	<b>849171</b>	1
40 (2x20)	690	4.400		9	<b>849172</b>	1
40 / 20+20	1300	4.400		9	<b>849273</b>	1

**Equipment included:** 2 terminal blocks 2P+ $\neq$  for supply line entry/exit.  
2 cable glands and 1 nickel-plated brass cap.

2 M8 threaded holes for fixing the accessories.

**Notes:** the stated values may be subject to a +/- 7% tolerance.



LED light fixtures  
in **painted galvanised steel**  
**opal polycarbonate**  
with extra wide beam optics  
**IP66/IP67**



Device power (W)	Length (mm)	Rated flux (lm) Tj= 25 °C	Version	Photometric curves	Palazzoli code	Pack Qty
20	690	2.200	standard	9	<b>841141</b>	1
40 (2x20)	690	4.400		9	<b>841142</b>	1
40 / 20+20	1300	4.400		9	<b>841243</b>	1
20	690	2.200	emergency	9	<b>841171</b>	1
40 / 20+20	1300	4.400		9	<b>841273</b>	1

**Equipment included:** 2 terminal blocks 2P+ $\neq$  for supply line entry/exit.  
2 cable glands and 1 nickel-plated brass cap.

2 M8 threaded holes for fixing the accessories.

**Notes:** the stated values may be subject to a +/- 7% tolerance.



LED light fixtures  
in **painted AISI 316L stainless steel**  
**opal polycarbonate**  
with extra wide beam optics  
**IP66/IP67**



Device power (W)	Length (mm)	Rated flux (lm) Tj= 25 °C	Version	Photometric curves	Palazzoli code	Pack Qty
20	690	2.200	standard	9	<b>878141</b>	1
40 (2x20)	690	4.400		9	<b>878142</b>	1
40 / 20+20	1300	4.400		9	<b>878243</b>	1

**Equipment included:** 2 terminal blocks 2P+ $\neq$  for supply line entry/exit.

2 cable glands and 1 nickel-plated brass cap.

2 M8 threaded holes for fixing the accessories.

**Notes:** the stated values may be subject to a +/- 7% tolerance.

#### EMERGENCY FLUX

Rated flux (lm) Tj= 25 °C	Rated flux in emergency (lm)
2.200	962
4.400	945

**Notes:** the emergency flux is achieved by reducing the rated flux of the unit.

#### LED LIGHT FIXTURES FOR BULKHEADS



LED light fixtures  
for bulkhead mounts  
in **painted AISI 316L stainless steel**  
**opal polycarbonate**  
with extra wide beam optics  
**IP66/IP67**

Device power (W)	Length (mm)	Rated flux (lm) Tj= 25 °C	Version	Photometric curves	Palazzoli code	Pack Qty
20	690	2.200	standard	9	<b>878741</b>	1
40 (2x20)	690	4.400		9	<b>878742</b>	1

**Equipment included:** 2 terminal blocks 2P+ $\neq$  for supply line entry/exit.

**Notes:** the light fixture is completed with the code 820007.

The stated values may be subject to a +/- 7% tolerance.

**Technical accessories:**





Fluorescent light fixtures  
in **painted galvanised steel**  
**transparent polycarbonate**  
**IP66/IP67**



Power (W)	Length (mm)	For tubes type	Version	Photometric curves	Palazzoli code	Pack Qty
2x14	690	T5	standard	32	<b>849062</b>	1
2x24	690			32	<b>849562</b>	1
2x28	1300			32	<b>849462</b>	1
1+1x14	690	T5	emergency	32	<b>849011</b>	1
1+1x24	690			32	<b>849511</b>	1
1+1x28	1300			32	<b>849411</b>	1

**Equipment included:** 2 terminal blocks 2P+ $\frac{1}{2}$  for supply line entry/exit.  
2 cable glands and 1 nickel-plated brass cap.  
Fixing kit with screws, gaskets and washers.

**Features:** fluorescent tubes are not included.



Fluorescent light fixtures  
in **painted galvanised steel**  
**opal polycarbonate**  
**IP66/IP67**



Power (W)	Length (mm)	For tubes type	Version	Photometric curves	Palazzoli code	Pack Qty
2x14	690	T5	standard	33	<b>841062</b>	1
2x24	690			33	<b>841562</b>	1
2x28	1300			33	<b>841462</b>	1
1+1x14	690	T5	emergency	33	<b>841011</b>	1
1+1x28	1300			33	<b>841411</b>	1

**Equipment included:** 2 terminal blocks 2P+ $\frac{1}{2}$  for supply line entry/exit.  
2 cable glands and 1 nickel-plated brass cap.  
Fixing kit with screws, gaskets and washers.

**Features:** fluorescent tubes are not included.



Fluorescent light fixtures  
in **painted AISI 316L**  
**stainless steel**  
**opal polycarbonate**  
**IP66/IP67**



Power (W)	Length (mm)	For tubes type	Version	Photometric curves	Palazzoli code	Pack Qty
2x14	690	T5	standard	33	<b>879062</b>	1
2x24	690			33	<b>879562</b>	1
2x28	1300			33	<b>879462</b>	1

**Equipment included:** 2 terminal blocks 2P+ $\frac{1}{2}$  for supply line entry/exit.  
2 cable glands and 1 nickel-plated brass cap.  
Fixing kit with screws, gaskets and washers.

**Features:** fluorescent tubes are not included.

## FLUORESCENT LIGHT FIXTURES FOR BULKHEAD



Fluorescent light fixtures  
for bulkhead installation  
in **painted AISI 316L**  
**stainless steel**  
**opal polycarbonate**  
**IP66/IP67**

Power (W)	Length (mm)	For tubes type	Version	Photometric curves	Palazzoli code	Pack Qty
2x14	690	T5	standard	33	<b>881062</b>	1
2x24	690			33	<b>881562</b>	1

**Equipment included:** 2 terminal blocks 2P+ $\frac{1}{2}$  for supply line entry/exit.

**Features:** fluorescent tubes are not included.

**Notes:** the light fixture is completed with the code 820007.



**Pair of stainless steel brackets**  
for bulkhead fixing

Manufacturing material	Palazzoli code	Pack Qty
AISI 316L stainless steel	<b>820007</b>	1









# SERVICES

## SECTION







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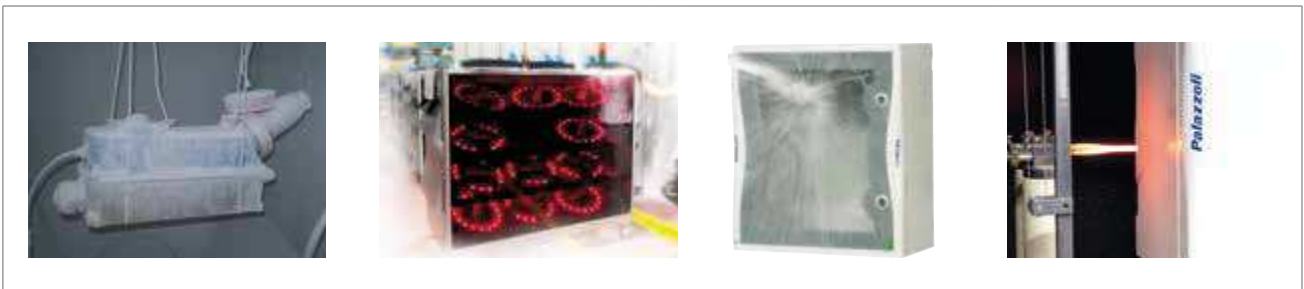
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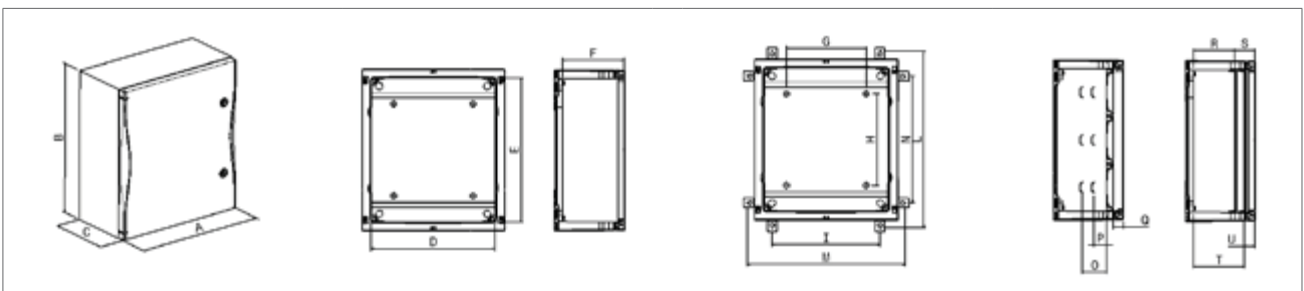
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## ITEMS TO BE DISCONTINUED



**Straight mobile plugs**  
for heavy-duty applications  
50-60Hz **IP44**

Rated current (A)	Rated voltage	Voltage colour	Poles	h ref.	Palazzoli code	Pack Qty
16	110V	Yellow	2P+ $\oplus$	4	<b>477202</b>	1
	230V	Blue	2P+ $\oplus$	6	<b>477302</b>	10
	400V	Red	3P+ $\oplus$	6	<b>477412</b>	10
	400V	Red	3P+N+ $\oplus$	6	<b>477422</b>	10
32	110V	Yellow	2P+ $\oplus$	4	<b>477205</b>	1
	230V	Blue	2P+ $\oplus$	6	<b>477305</b>	1
	400V	Red	3P+ $\oplus$	6	<b>477415</b>	10
	400V	Red	3P+N+ $\oplus$	6	<b>477425</b>	1



**Plugs**  
for heavy duty  
**IP67**

Rated current (A)	Frequency	Rated voltage	Voltage colour	Poles	h ref.	Palazzoli code	Pack Qty	
63	50-60Hz	110V	Yellow	2P+ $\oplus$	4	<b>477207</b>	1	
	50-60Hz	110V	Yellow	3P+ $\oplus$	4	<b>477217</b>	1	
	50-60Hz	110V	Yellow	3P+N+ $\oplus$	4	<b>477227</b>	1	
	50-60Hz	230V	Blue	2P+ $\oplus$	6	<b>477307</b>	1	
	50-60Hz	230V	Blue	3P+ $\oplus$	9	<b>477317</b>	1	
	50-60Hz	230V	Blue	3P+N+ $\oplus$	9	<b>477327</b>	1	
	50-60Hz	400V	Red	2P+ $\oplus$	9	<b>477407</b>	1	
	50-60Hz	400V	Red	3P+ $\oplus$	6	<b>477417</b>	1	
	50-60Hz	400V	Red	3P+N+ $\oplus$	6	<b>477427</b>	1	
	50-60Hz	500V	Black	3P+ $\oplus$	7	<b>477517</b>	1	
	50-60Hz	500V	Black	3P+N+ $\oplus$	7	<b>477527</b>	1	
	50-60Hz	690V	Black	3P+ $\oplus$	5	<b>477519</b>	1	
	50-60Hz	690V	Black	3P+N+ $\oplus$	5	<b>477529</b>	1	
	50-60Hz	>50V *	Grey	2P+ $\oplus$	12	<b>477827</b>	1	
	50-60Hz	>50V *	Grey	3P+ $\oplus$	12	<b>477367</b>	1	
	DC	>50-250V	Grey	2P+ $\oplus$	3	<b>477677</b>	1	
	60Hz	440-460V	Red	3P+ $\oplus$	11	<b>477457</b>	1	
	60Hz	440-460V	Red	3P+N+ $\oplus$	11	<b>477537</b>	1	
	125	50-60Hz	110V	Yellow	3P+ $\oplus$	4	<b>477218</b>	1
		50-60Hz	110V	Yellow	3P+N+ $\oplus$	4	<b>477228</b>	1
		50-60Hz	230V	Blue	3P+ $\oplus$	9	<b>477318</b>	1
		50-60Hz	230V	Blue	3P+N+ $\oplus$	9	<b>477328</b>	1
		50-60Hz	400V	Red	3P+ $\oplus$	6	<b>249538</b>	1
		50-60Hz	400V	Red	3P+N+ $\oplus$	6	<b>259538</b>	1
50-60Hz		500V	Black	3P+ $\oplus$	7	<b>249550</b>	1	
50-60Hz		500V	Black	3P+N+ $\oplus$	7	<b>259550</b>	1	
50-60Hz		690V	Black	3P+ $\oplus$	5	<b>477520</b>	1	
50-60Hz		690V	Black	3P+N+ $\oplus$	5	<b>477530</b>	1	
50-60Hz		>50V *	Grey	3P+ $\oplus$	12	<b>477368</b>	1	
60Hz		440-460V	Red	3P+ $\oplus$	11	<b>477458</b>	1	
60Hz		440-460V	Red	3P+N+ $\oplus$	11	<b>477538</b>	1	

\* For isolation transformer



**Plugs**  
for heavy duty  
**IP67**

Rated current (A)	Frequency	Rated voltage	Voltage colour	Poles	h ref.	Palazzoli code	Pack Qty
16	50-60Hz	110V	Yellow	2P+ $\oplus$	4	<b>477203</b>	1
	50-60Hz	230V	Blue	2P+ $\oplus$	6	<b>477303</b>	10
	50-60Hz	400V	Red	3P+ $\oplus$	6	<b>477413</b>	10
	50-60Hz	400V	Red	3P+N+ $\oplus$	6	<b>477423</b>	10
	50-60Hz	110V	Yellow	2P+ $\oplus$	4	<b>477206</b>	1
32	50-60Hz	230V	Blue	2P+ $\oplus$	6	<b>477306</b>	1
	50-60Hz	400V	Red	3P+ $\oplus$	6	<b>477416</b>	5
	50-60Hz	400V	Red	3P+N+ $\oplus$	6	<b>477426</b>	5



**90° angled plugs**  
for heavy-duty applications  
50-60Hz **IP67**

Rated current (A)	Rated voltage	Voltage colour	Poles	h ref.	Palazzoli code	Pack Qty
16	110V	Yellow	2P+ $\oplus$	4	<b>475203</b>	1
	110V	Yellow	3P+ $\oplus$	4	<b>475213</b>	1
	110V	Yellow	3P+N+ $\oplus$	4	<b>475223</b>	1
	230V	Blue	2P+ $\oplus$	6	<b>475303</b>	1
	230V	Blue	3P+ $\oplus$	9	<b>475313</b>	1
	230V	Blue	3P+N+ $\oplus$	9	<b>475323</b>	1
	400V	Red	2P+ $\oplus$	9	<b>475403</b>	1
	400V	Red	3P+ $\oplus$	6	<b>475413</b>	1
	400V	Red	3P+N+ $\oplus$	6	<b>475423</b>	1



## ITEMS TO BE DISCONTINUED



**90° angled wall-mounted plugs**  
for heavy-duty applications  
50-60Hz IP67

Rated current (A)	Rated voltage	Voltage colour	Poles	h ref.	Palazzoli code	Pack Qty
16	110V	●	2P+ ⚡	4	<b>476203</b>	1
	110V	●	3P+ ⚡	4	<b>476213</b>	1
	110V	●	3P+N+ ⚡	4	<b>476223</b>	1
	230V	●	2P+ ⚡	6	<b>476303</b>	10
	230V	●	3P+ ⚡	9	<b>476313</b>	1
	230V	●	3P+N+ ⚡	9	<b>476323</b>	1
	400V	●	2P+ ⚡	9	<b>476403</b>	1
	400V	●	3P+ ⚡	6	<b>476413</b>	1
	400V	●	3P+N+ ⚡	6	<b>476423</b>	1
32	110V	●	2P+ ⚡	4	<b>476206</b>	1
	110V	●	3P+ ⚡	4	<b>476216</b>	1
	110V	●	3P+N+ ⚡	4	<b>476226</b>	1
	230V	●	2P+ ⚡	6	<b>476306</b>	1
	230V	●	3P+ ⚡	9	<b>476316</b>	1
	230V	●	3P+N+ ⚡	9	<b>476326</b>	1
	400V	●	2P+ ⚡	9	<b>476406</b>	1
	400V	●	3P+ ⚡	6	<b>476416</b>	1
	400V	●	3P+N+ ⚡	6	<b>476426</b>	1
380/440V	●	3P+ ⚡	3	<b>476486</b>	1	



**90° angled wall-mounted plugs**  
for heavy-duty applications  
50-60Hz IP67

Rated current (A)	Rated voltage	Voltage colour	Poles	h ref.	Palazzoli code	Pack Qty
63	400V	●	3P+ ⚡	6	<b>744338</b>	1
	400V	●	3P+N+ ⚡	6	<b>754338</b>	1
125	400V	●	3P+ ⚡	6	<b>747538</b>	1
	400V	●	3P+N+ ⚡	6	<b>757538</b>	1

**Equipment included:** M40 cable gland.  
**Features:** box with blind walls.



**Flush-mounted plugs**  
for heavy duty  
IP67

Rated current (A)	Frequency	Rated voltage	Voltage colour	Poles	h ref.	Palazzoli code	Pack Qty
63	50-60Hz	110V	●	2P+ ⚡	4	<b>476207</b>	1
	50-60Hz	110V	●	3P+ ⚡	4	<b>476217</b>	1
	50-60Hz	110V	●	3P+N+ ⚡	4	<b>476227</b>	1
	50-60Hz	230V	●	2P+ ⚡	6	<b>476307</b>	1
	50-60Hz	230V	●	3P+ ⚡	9	<b>476317</b>	1
	50-60Hz	230V	●	3P+N+ ⚡	9	<b>476327</b>	1
	50-60Hz	400V	●	2P+ ⚡	9	<b>476407</b>	1
	50-60Hz	400V	●	3P+ ⚡	6	<b>746338</b>	1
	50-60Hz	400V	●	3P+N+ ⚡	6	<b>756338</b>	1
	50-60Hz	500V	●	3P+ ⚡	7	<b>476517</b>	1
	50-60Hz	500V	●	3P+N+ ⚡	7	<b>476527</b>	1
	50-60Hz	690V	●	3P+ ⚡	5	<b>476519</b>	1
	50-60Hz	690V	●	3P+N+ ⚡	5	<b>476529</b>	1
	50-60Hz	>50V *	●	2P+ ⚡	12	<b>476827</b>	1
	50-60Hz	>50V *	●	3P+ ⚡	12	<b>476837</b>	1
	60Hz	440-460V	●	3P+ ⚡	11	<b>476457</b>	1
	60Hz	440-460V	●	3P+N+ ⚡	11	<b>476537</b>	1
	125	50-60Hz	110V	●	3P+ ⚡	4	<b>476218</b>
50-60Hz		110V	●	3P+N+ ⚡	4	<b>476228</b>	1
50-60Hz		230V	●	3P+ ⚡	9	<b>476318</b>	1
50-60Hz		230V	●	3P+N+ ⚡	9	<b>476328</b>	1
50-60Hz		400V	●	3P+ ⚡	6	<b>749538</b>	1
50-60Hz		400V	●	3P+N+ ⚡	6	<b>759538</b>	1
50-60Hz		500V	●	3P+ ⚡	7	<b>749550</b>	1
50-60Hz		500V	●	3P+N+ ⚡	7	<b>759550</b>	1
50-60Hz		690V	●	3P+ ⚡	5	<b>476520</b>	1
50-60Hz		690V	●	3P+N+ ⚡	5	<b>476530</b>	1
50-60Hz		>50V *	●	3P+ ⚡	12	<b>476838</b>	1
60Hz		440-460V	●	3P+ ⚡	11	<b>476458</b>	1
60Hz		440-460V	●	3P+N+ ⚡	11	<b>476538</b>	1

\* For isolation transformer.



## ITEMS TO BE DISCONTINUED



**Sockets**  
for heavy-duty applications  
**IP67**

Rated current (A)	Frequency	Rated voltage	Voltage colour	Poles	h ref.	Palazzoli code	Pack Qty
16	50-60Hz	110V	Yellow	2P+⊕	4	<b>473203</b>	1
	50-60Hz	230V	Blue	2P+⊕	6	<b>473303</b>	10
	50-60Hz	400V	Red	3P+⊕	6	<b>473413</b>	10
	50-60Hz	400V	Red	3P+N+⊕	6	<b>473423</b>	1
32	50-60Hz	110V	Yellow	2P+⊕	4	<b>473206</b>	1
	50-60Hz	230V	Blue	2P+⊕	6	<b>473306</b>	1
	50-60Hz	400V	Red	3P+⊕	6	<b>473416</b>	5
	50-60Hz	400V	Red	3P+N+⊕	6	<b>473426</b>	5



**Sockets**  
for heavy-duty applications  
**IP67**



Rated current (A)	Frequency	Rated voltage	Voltage colour	Poles	h ref.	Palazzoli code	Pack Qty	
63	50-60Hz	110V	Yellow	2P+⊕	4	<b>473207</b>	1	
	50-60Hz	110V	Yellow	3P+⊕	4	<b>473217</b>	1	
	50-60Hz	110V	Yellow	3P+N+⊕	4	<b>473227</b>	1	
	50-60Hz	230V	Blue	2P+⊕	6	<b>473307</b>	1	
	50-60Hz	230V	Blue	3P+⊕	9	<b>473317</b>	1	
	50-60Hz	230V	Blue	3P+N+⊕	9	<b>473327</b>	1	
	50-60Hz	400V	Red	2P+⊕	9	<b>473407</b>	1	
	50-60Hz	400V	Red	3P+⊕	6	<b>346338</b>	1	
	50-60Hz	400V	Red	3P+N+⊕	6	<b>356338</b>	1	
	50-60Hz	500V	Black	3P+⊕	7	<b>346350</b>	1	
	50-60Hz	500V	Black	3P+N+⊕	7	<b>356350</b>	1	
	50-60Hz	690V	Black	3P+⊕	5	<b>473519</b>	1	
	50-60Hz	690V	Black	3P+N+⊕	5	<b>473529</b>	1	
	50-60Hz	>50V *	Grey	2P+⊕	12	<b>473827</b>	1	
	50-60Hz	>50V *	Grey	3P+⊕	12	<b>473837</b>	1	
	60Hz	440-460V	Red	3P+⊕	11	<b>473467</b>	1	
	60Hz	440-460V	Red	3P+N+⊕	11	<b>473537</b>	1	
	125	50-60Hz	110V	Yellow	3P+⊕	4	<b>473218</b>	1
		50-60Hz	110V	Yellow	3P+N+⊕	4	<b>473228</b>	1
		50-60Hz	230V	Blue	3P+⊕	9	<b>473318</b>	1
50-60Hz		230V	Blue	3P+N+⊕	9	<b>473328</b>	1	
50-60Hz		400V	Red	3P+⊕	6	<b>349538</b>	1	
50-60Hz		400V	Red	3P+N+⊕	6	<b>359538</b>	1	
50-60Hz		500V	Black	3P+⊕	7	<b>349550</b>	1	
50-60Hz		500V	Black	3P+N+⊕	7	<b>359550</b>	1	
50-60Hz		690V	Black	3P+⊕	5	<b>473520</b>	1	
50-60Hz		690V	Black	3P+N+⊕	5	<b>473530</b>	1	
50-60Hz		>50V *	Grey	3P+⊕	12	<b>473838</b>	1	
60Hz		440-460V	Red	3P+⊕	11	<b>473468</b>	1	
60Hz	440-460V	Red	3P+N+⊕	11	<b>473538</b>	1		

\* For isolation transformer



**90° angled wall-mounted socket-outlets**  
for heavy-duty applications  
**IP44**

Rated current (A)	Frequency	Rated voltage	Voltage colour	Poles	h ref.	Palazzoli code	Pack Qty
16	50-60Hz	110V	Yellow	2P+⊕	4	<b>471262</b>	1
	50-60Hz	230V	Blue	2P+⊕	6	<b>471362</b>	10
	50-60Hz	400V	Red	3P+⊕	6	<b>471472</b>	10
	50-60Hz	400V	Red	3P+N+⊕	6	<b>471482</b>	5
32	50-60Hz	110V	Yellow	2P+⊕	4	<b>471266</b>	1
	50-60Hz	230V	Blue	2P+⊕	6	<b>471366</b>	1
	50-60Hz	400V	Red	3P+⊕	6	<b>471476</b>	1
	50-60Hz	400V	Red	3P+N+⊕	6	<b>471486</b>	1



**90° angled wall-mounted sockets**  
for heavy-duty applications  
50-60Hz **IP67**



Rated current (A)	Rated voltage	Voltage colour	Poles	h ref.	Palazzoli code	Pack Qty
63	400V	Red	3P+⊕	6	<b>444338</b>	1
	400V	Red	3P+N+⊕	6	<b>454338</b>	1
125	400V	Red	3P+⊕	6	<b>447538</b>	1
	400V	Red	3P+N+⊕	6	<b>457538</b>	1

**Equipment included:** M40 cable gland.  
**Features:** box with blind walls.





## ITEMS TO BE DISCONTINUED



**Flush-mounted straight socket-outlets**  
for heavy-duty applications  
50-60Hz IP44

Rated current (A)	Rated voltage	Voltage colour	Poles	h ref.	Palazzoli code	Pack Qty
16	110V	Yellow	2P+⊕	4	<b>431611</b>	1
	230V	Blue	2P+⊕	6	<b>431622</b>	10
	400V	Red	3P+⊕	6	<b>441638</b>	1
	400V	Red	3P+N+⊕	6	<b>451638</b>	1
32	110V	Yellow	2P+⊕	4	<b>433211</b>	1
	230V	Blue	2P+⊕	6	<b>433222</b>	1
	400V	Red	3P+⊕	6	<b>443238</b>	1
	400V	Red	3P+N+⊕	6	<b>453238</b>	1



**15° angled flush-mounted fixed socket-outlets**  
for heavy-duty applications  
IP67

Rated current (A)	Frequency	Rated voltage	Voltage colour	Poles	h ref.	Palazzoli code	Pack Qty
16	50-60Hz	110V	Yellow	2P+⊕	4	<b>471263</b>	1
	50-60Hz	230V	Blue	2P+⊕	6	<b>471363</b>	10
	50-60Hz	400V	Red	3P+⊕	6	<b>471473</b>	1
	50-60Hz	400V	Red	3P+N+⊕	6	<b>471483</b>	1
32	50-60Hz	110V	Yellow	2P+⊕	4	<b>471267</b>	1
	50-60Hz	230V	Blue	2P+⊕	6	<b>471367</b>	1
	50-60Hz	400V	Red	3P+⊕	6	<b>471477</b>	1
	50-60Hz	400V	Red	3P+N+⊕	6	<b>471487</b>	1



**Flush-mounted sockets**  
for heavy-duty applications  
IP67



Rated current (A)	Frequency	Rated voltage	Voltage colour	Poles	h ref.	Palazzoli code	Pack Qty	
63	50-60Hz	110V	Yellow	2P+⊕	4	<b>436311</b>	1	
	50-60Hz	110V	Yellow	3P+⊕	4	<b>446311</b>	1	
	50-60Hz	110V	Yellow	3P+N+⊕	4	<b>456311</b>	1	
	50-60Hz	230V	Blue	2P+⊕	6	<b>436322</b>	1	
	50-60Hz	230V	Blue	3P+⊕	9	<b>446322</b>	1	
	50-60Hz	230V	Blue	3P+N+⊕	9	<b>456322</b>	1	
	50-60Hz	400V	Red	2P+⊕	9	<b>436338</b>	1	
	50-60Hz	400V	Red	3P+⊕	6	<b>446338</b>	1	
	50-60Hz	400V	Red	3P+N+⊕	6	<b>456338</b>	1	
	50-60Hz	500V	Black	3P+⊕	7	<b>446350</b>	1	
	50-60Hz	500V	Black	3P+N+⊕	7	<b>456350</b>	1	
	50-60Hz	690V	Black	3P+⊕	5	<b>476518</b>	1	
	50-60Hz	690V	Black	3P+N+⊕	5	<b>476528</b>	1	
	50-60Hz	>50V *	Grey	2P+⊕	12	<b>436312</b>	1	
	50-60Hz	>50V *	Grey	3P+⊕	12	<b>446312</b>	1	
	60Hz	440-460V	Red	3P+⊕	11	<b>446344</b>	1	
	60Hz	440-460V	Red	3P+N+⊕	11	<b>456344</b>	1	
	125	50-60Hz	110V	Yellow	3P+⊕	4	<b>449311</b>	1
		50-60Hz	110V	Yellow	3P+N+⊕	4	<b>459311</b>	1
		50-60Hz	230V	Blue	3P+⊕	9	<b>449322</b>	1
50-60Hz		230V	Blue	3P+N+⊕	9	<b>459322</b>	1	
50-60Hz		400V	Red	3P+⊕	6	<b>449538</b>	1	
50-60Hz		400V	Red	3P+N+⊕	6	<b>459538</b>	1	
50-60Hz		500V	Black	3P+⊕	7	<b>449550</b>	1	
50-60Hz		500V	Black	3P+N+⊕	7	<b>459550</b>	1	
50-60Hz		690V	Black	3P+⊕	5	<b>476521</b>	1	
50-60Hz		690V	Black	3P+N+⊕	5	<b>476531</b>	1	
50-60Hz		>50V *	Grey	3P+⊕	12	<b>449312</b>	1	
60Hz		440-460V	Red	3P+⊕	11	<b>449344</b>	1	
60Hz		440-460V	Red	3P+N+⊕	11	<b>459344</b>	1	

\* For isolation transformer



**15° angled flush-mounted fixed socket-outlets**  
for heavy-duty applications  
IP67



Rated current (A)	Frequency	Rated voltage	Voltage colour	Poles	h ref.	Palazzoli code	Pack Qty	
63	50-60Hz	110V	Yellow	2P+⊕	4	<b>536311</b>	1	
	50-60Hz	110V	Yellow	3P+⊕	4	<b>546311</b>	1	
	50-60Hz	110V	Yellow	3P+N+⊕	4	<b>556311</b>	1	
	50-60Hz	230V	Blue	2P+⊕	6	<b>536322</b>	1	
	50-60Hz	230V	Blue	3P+⊕	9	<b>546322</b>	1	
	50-60Hz	230V	Blue	3P+N+⊕	9	<b>556322</b>	1	
	50-60Hz	400V	Red	2P+⊕	9	<b>536338</b>	1	
	50-60Hz	400V	Red	3P+⊕	6	<b>546338</b>	1	
	50-60Hz	400V	Red	3P+N+⊕	6	<b>556338</b>	1	
	50-60Hz	500V	Black	3P+⊕	7	<b>546350</b>	1	
	50-60Hz	500V	Black	3P+N+⊕	7	<b>556350</b>	1	
	50-60Hz	690V	Black	3P+⊕	5	<b>471519</b>	1	
	50-60Hz	690V	Black	3P+N+⊕	5	<b>471529</b>	1	
	50-60Hz	>50V *	Grey	2P+⊕	12	<b>536312</b>	1	
	50-60Hz	>50V *	Grey	3P+⊕	12	<b>546312</b>	1	
	60Hz	440-460V	Red	3P+⊕	11	<b>546344</b>	1	
	60Hz	440-460V	Red	3P+N+⊕	11	<b>556344</b>	1	
	125	50-60Hz	110V	Yellow	3P+⊕	4	<b>549311</b>	1
		50-60Hz	110V	Yellow	3P+N+⊕	4	<b>559311</b>	1
		50-60Hz	230V	Blue	3P+⊕	9	<b>549322</b>	1
50-60Hz		230V	Blue	3P+N+⊕	9	<b>559322</b>	1	
50-60Hz		400V	Red	3P+⊕	6	<b>549538</b>	1	
50-60Hz		400V	Red	3P+N+⊕	6	<b>559538</b>	1	
50-60Hz		500V	Black	3P+⊕	7	<b>549550</b>	1	
50-60Hz		500V	Black	3P+N+⊕	7	<b>559550</b>	1	
50-60Hz		690V	Black	3P+⊕	5	<b>471520</b>	1	
50-60Hz		690V	Black	3P+N+⊕	5	<b>471531</b>	1	
50-60Hz		>50V *	Grey	3P+⊕	12	<b>549312</b>	1	
60Hz		440-460V	Red	3P+⊕	11	<b>549344</b>	1	
60Hz		440-460V	Red	3P+N+⊕	11	<b>559344</b>	1	

\* For isolation transformer



**Supports for flush-mounting at 90° of straight sockets and plugs IP65**

Support base dimensions (mm)	Installable sockets/plugs	Manufacturing material	Palazzoli code	Pack Qty
125x185	63A	thermosetting GRP	<b>471479</b>	2
125x185	63A/125A	thermoplastic	<b>501580*</b>	1

**Equipment included:** stainless steel screws

\*Adapting flange for 63A sockets/plugs. IP67 protection rating



**Back box for wall-mounting of the support for straight socket-outlets and plugs IP67**

Dimensions box (mm)	Manufacturing material	Palazzoli code	Pack Qty
125x185	thermosetting GRP	<b>471469</b>	1

**Equipment included:** cable gland M40.



**Panel-mounted bottom box for the installation of straight flush-mounted sockets and inlets IP67**

Dimensions (mm)	Installable sockets/plugs	Manufacturing material	Palazzoli code	Pack Qty
141x141x153	63A/125A	thermoplastic	<b>575500</b>	1

**Equipment included:** adapter flange for 63A plugs/socket-outlets.



**Bottom box for flush-mounting IP55**

Dimensions (mm)	For sockets type	Palazzoli code	Pack Qty
145x320	fuse holder base 16/32A	<b>579211</b>	1

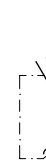


**Interlocked socket-outlets with fuse holder base for distribution boards 50-60Hz IP55**

Rated current (A)	Rated voltage	Voltage colour	Poles	h ref.	Palazzoli code	Pack Qty
16 fuses 10.3x38	110V	Yellow	2P+⊕	4	<b>480124</b>	1
	230V	Blue	2P+⊕	6	<b>480126</b>	1
	400V	Red	3P+⊕	6	<b>480136</b>	1
	400V	Red	3P+N+⊕	6	<b>480146</b>	1
32 fuses 10.3x38	110V	Yellow	2P+⊕	4	<b>480224</b>	1
	230V	Blue	2P+⊕	6	<b>480226</b>	1
	400V	Red	3P+⊕	6	<b>480236</b>	1
	400V	Red	3P+N+⊕	6	<b>480246</b>	1
	380/440V	Red	3P+⊕	3	<b>480233</b>	1

**Equipment included:** 6 stainless steel screws for fastening the item to the distribution board or box.

**Features:** padlockable handle. Fuses not included.

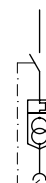


**Interlocked socket-outlets and DIN rail for flush-mounting 50-60Hz IP55**

Rated current (A)	Rated voltage	Voltage colour	Poles	h ref.	Palazzoli code	Pack Qty
16 3 modules	230V	Blue	2P+⊕	6	<b>483126</b>	1
	400V	Red	3P+⊕	6	<b>483136</b>	1
	400V	Red	3P+N+⊕	6	<b>483146</b>	1
32 3 modules	230V	Blue	2P+⊕	6	<b>483226</b>	1
	400V	Red	3P+⊕	6	<b>483236</b>	1
	400V	Red	3P+N+⊕	6	<b>483246</b>	1

**Equipment included:** 6 stainless steel screws for fastening the item to the distribution board or box.

**Features:** padlockable handle.



**Socket with safety transformer (SELV) for distribution boards 50-60Hz IP55**

Rated current (A)	Frequency	Rated voltage	Poles	Power (VA)	Palazzoli code	Pack Qty
16	50-60Hz	230/24V~	2P	150	<b>480024</b>	1

**Equipment included:** 6 stainless steel screws for fastening the item to the distribution board or box.



Blind front panel for PRIMA distribution boards

Description	Palazzoli code	Pack Qty
spare blind frontal part	<b>579592</b>	1



Cover with transparent door for PRIMA distribution boards

Description	No. of DIN modules	Palazzoli code	Pack Qty
spare blind frontal part	9	<b>579462</b>	1

**Equipment included:** stainless steel screws, DIN rail.  
**Uses:** RCDS can be installed for protection against indirect contacts.



Spacer kit for terminal blocks of PRIMA sockets with fuses in flush-mounted boxes

Description	Palazzoli code	Pack Qty
3 spacers thickness 1 mm	<b>579590</b>	1



Aesthetic frame for topTER sockets

Description	Palazzoli code	Pack Qty
reduces the flange hole from 88x100 to 65x83	<b>579846</b>	1



Spare knobs for switched socket-outlets and control devices

For socket-outlets and control devices of the TAIS - ALUPRES - CAM series	Block position	Palazzoli code	Pack Qty
16A/25A	0/1	<b>270922</b>	1
16A with MCB, 32A and 63A	0/1	<b>270932</b>	1

**Features:** they can be locked in positions 0 and 1.  
**Equipment included:** complete with front plate.



Emergency spare handles for sockets with lock switch and control devices

For socket-outlets and control devices of the TAIS - ALUPRES - CAM series	Block position	Palazzoli code	Pack Qty
16A/25A	0	<b>270934</b>	1
16A with MCB, 32A and 63A	0	<b>270936</b>	1

**Features:** they can be locked in positions 0.  
**Equipment included:** complete with front plate.



Padlockable spare knobs for switched socket-outlets and control devices

For socket-outlets and control devices of the TAIS - ALUPRES - CAM series	Block position	Palazzoli code	Pack Qty
module 92 - 95	0	<b>270902</b>	1
module 92 - 95	1	<b>270903</b>	1
module 125	0	<b>270912</b>	1
module 125	1	<b>270913</b>	1

**Uses:** prevents the operation of unqualified persons. Very useful during maintenance operations for the block in position 0.



Padlockable emergency spare knobs for switched socket-outlets and control devices

For socket-outlets and control devices of the TAIS - ALUPRES - CAM series	Block position	Palazzoli code	Pack Qty
module 92 - 95	0	<b>270914</b>	1
module 125	0	<b>270916</b>	1

**Features:** thermoplastic material.



Spare socket inserts for switched socket-outlets of the TAIS and ALUPRES series 50-60Hz

Rated current (A)	Rated voltage	Voltage colour	Poles	h ref.	Palazzoli code	Pack Qty
16	230V	■	2P+⊕	6	<b>472940</b>	1
	400V	■	3P+⊕	6	<b>472941</b>	1
	400V	■	3P+N+⊕	6	<b>472942</b>	1
	230V	■	2P+⊕	6	<b>472950</b>	1
	400V	■	3P+⊕	6	<b>472951</b>	1
	400V	■	3P+N+⊕	6	<b>472952</b>	1
32 module 95	110V	■	2P+⊕	4	<b>472964</b>	1
	230V	■	3P+⊕	9	<b>472965</b>	1
	400V	■	3P+⊕	6	<b>472966</b>	1
32	110V	■	2P+⊕	4	<b>472960</b>	1
	230V	■	2P+⊕	9	<b>472959</b>	1
	230V	■	3P+⊕	9	<b>472961</b>	1
	400V	■	3P+⊕	6	<b>472962</b>	1
	400V	■	3P+N+⊕	6	<b>472963</b>	1
63	230V	■	2P+⊕	6	<b>472970</b>	1
	400V	■	3P+⊕	6	<b>472971</b>	1
	400V	■	3P+N+⊕	6	<b>472972</b>	1
125	400V	■	3P+⊕	6	<b>472980</b>	1
	400V	■	3P+N+⊕	6	<b>472981</b>	1

**Notes:** codes 472940, 472941 and 472942 are only for TAIS sockets after 2005.



Spare socket inserts for socket-outlets with transformer

Series	Power (VA)	Palazzoli code	Pack Qty
TAIS M95 - ULYSSE	150	<b>472990</b>	1
ALUPRES	144	<b>472991</b>	1
TAIS M125	144	<b>472992</b>	1
topTER - PRIMA	150	<b>472993</b>	1



Replacement transformer for 24V and 48V sockets 50-60Hz

Rated current (A)	Rated voltage	Voltage colour	Power (VA)	Palazzoli code	Pack Qty
16	230/24V~	■	150	<b>471950</b>	1
	230/24V~	■	144	<b>471922</b>	1
	400/24V~	■	144	<b>471932</b>	1
32	230/48V~	■	720	<b>471908</b>	1
	400/48V~	■	720	<b>471909</b>	1



Spare signalling lamp for sockets with MCB of the TAIS and ALUPRES series



Rated current (A)	Rated voltage	Palazzoli code	Pack Qty
16-32-63	110V	<b>474951</b>	1
	230V	<b>474953</b>	1
	400V	<b>474955</b>	1

Spare CAM switches for sockets with switch of the TAIS and ALUPRES series



Rated current (A)	Poles	Type	Palazzoli code	Pack Qty
16	2P	CAM	<b>274834</b>	1
	3P	CAM	<b>274844</b>	1
	4P	CAM	<b>274854</b>	1
32	2P	CAM	<b>274837</b>	1
	3P	CAM	<b>274847</b>	1
	4P	CAM	<b>274857</b>	1
63	2P	CAM	<b>274808</b>	1
	3P	CAM	<b>274818</b>	1
	4P	CAM	<b>274828</b>	1
125	3P	CAM	<b>274938</b>	1
	4P	CAM	<b>274948</b>	1

Note: for 16A and 32A sockets manufactured before 1990.

Spare switches for sockets with switch of the ULYSSE TAIS and ALUPRES series



Rated current (A)	Poles	Palazzoli code	Pack Qty
16	2P	<b>274634</b>	1
	3P	<b>274644</b>	1
	4P	<b>274654</b>	1
32	2P	<b>274637</b>	1
	3P	<b>274647</b>	1
	4P	<b>274657</b>	1

Spare screwcaps for Diazed fuse-holder bases for TAIS and ALUPRES socket-outlets



Rated current (A)	Type fuses	Palazzoli code	Pack Qty
25	E16 (NDz) reduced	<b>347001</b>	10
25	E16 (NDz)*	<b>347002</b>	1
25	E27 (DII)	<b>347003</b>	50
63	E33 (DIII)	<b>347005</b>	50

\* only for the code 347082.

Junction boxes in thermosetting material with high cover IP65



Outer dimensions (mm)	Box height (mm)	Cover height (mm)	Hole type	Palazzoli code	Pack Qty
92x92	50	50		<b>532225</b>	8
125x92	50	50		<b>532295</b>	1
125x92	50	50		<b>532285</b>	1
185x92	50	50		<b>532325</b>	4
185x92	50	50		<b>532385</b>	1
125x125	75	50		<b>532346</b>	1
185x125	75	50		<b>532667</b>	1
250x125	75	50		<b>532618</b>	1
250x125	75	50		<b>532628</b>	1
250x125	75	50		<b>532638</b>	1
250x125	75	50		<b>532648</b>	1
185x125	75	25		<b>532677</b>	1











## SPARE PARTS



Boxes with inlet holes in thermosetting material with transparent door IP65

No. of DIN modules	Outer dimensions (mm)	Box height (mm)	Cover height (mm)	Hole type	Cover height (mm)	Palazzoli code	Pack Qty
6.5	185x125	75	50		30	<b>532567</b>	1
6.5	185x125	75	50		30	<b>532577</b>	1
9	250x125	75	50		30	<b>532668</b>	1
9	250x125	75	50		30	<b>532678</b>	1
9	250x125	75	50		30	<b>532688</b>	1
9	250x125	75	50		30	<b>532698</b>	1















Fittings with Pg threading in technopolymer for composition of socket boards IP67

Pg	Mounting hole (mm)	For cable Ø (mm)	Palazzoli code	Pack Qty
21	29	17	<b>580242</b>	5
29	38	24	<b>580243</b>	5
36	48	37	<b>580244</b>	1
13.5	21	15	<b>580245</b>	1
29/36	38 - 48	24	<b>580203</b>	1
13.5/36	21 - 48	15	<b>580205</b>	1



Junction boxes in thermosetting material with back plate IP65

Outer dimensions (mm)	Window type	Hole type	Palazzoli code	Pack Qty
185x185x115			<b>531213</b>	1
185x185x115			<b>531312</b>	1
250x185x115			<b>531223</b>	1
250x185x115			<b>531233</b>	1
250x185x115			<b>531322</b>	1
250x185x115			<b>531332</b>	1



Mounting plates in thermosetting material for composition of socket boards

Dimensions (mm)	No. of installable devices	Installable device module	Palazzoli code	Pack Qty
92x430	1	92	<b>538701</b>	1
185x430	2	2x92	<b>538702</b>	1



Spare gaskets in non-ageing elastomer for socket-outlets and boxes of the TAIS and ALUPRES series

For windows	Palazzoli code	Pack Qty
F0	<b>540000</b>	1
F1	<b>540001</b>	1
F2	<b>540002</b>	1
F3	<b>540003</b>	1
F4	<b>540004</b>	1
F5	<b>540005</b>	1
F6	<b>540006</b>	1



Spare socket/plug inserts with flat poles FP type

For socket/plug code	Palazzoli code	Pack Qty
422039, 421029	<b>421909</b>	1
427019	<b>427909</b>	1



Spare switch for socket-outlets with aligned poles of the ALUPRES series

For socket code	Switch type	Palazzoli code	Pack Qty
422039	3x400A	<b>274772</b>	1



Spare blind door for TAIS CUBE boards IP66

Size	Outer dimensions (mm)	Palazzoli code	Pack Qty
1	260x305	<b>550701</b>	1
2	340x430	<b>550702</b>	1
3	450x505	<b>550703</b>	1
4	450x655	<b>550704</b>	1
5	560x655	<b>550705</b>	1
6	630x810	<b>550706</b>	1
7	850x1060	<b>550707</b>	1



Spare transparent door for TAIS CUBE boards IP66

Size	Outer dimensions (mm)	Palazzoli code	Pack Qty
1	260x305	<b>550731</b>	1
2	340x430	<b>550732</b>	1
3	450x505	<b>550733</b>	1
4	450x655	<b>550734</b>	1
5	560x655	<b>550735</b>	1
6	630x810	<b>550736</b>	1
7	850x1060	<b>550737</b>	1



Spare standard lock kit

No. of locks	Size	Palazzoli code	Pack Qty
2	all TAIS CUBE series boards	<b>550689</b>	1



Domestic socket Italian standard bivalent P11/P17

Description	Pitch (mm)	Type	No. of modules	For pins (mm)	Palazzoli code	Pack Qty
2P+T 10/16A Dual	19/26	P11/P17	1	Ø 4/5	<b>641216</b>	1

**Features:** shuttered receptacles. Rear terminals equipped with cord grip plates and captive screws.



Schuko domestic socket Italian/German standard P30

Description	Pitch (mm)	Type	No. of modules	For pins (mm)	Palazzoli code	Pack Qty
2P+T 10/16A UNEL/P30 Schuko type (with lateral and central earth)	19	P30	2	Ø 4/4.8	<b>643216</b>	10

**Features:** shuttered receptacles. Rear terminals equipped with cord grip plates and captive screws.



Spare diffusers for signalling lamps of the TAIS MIGNON series

Colour	Palazzoli code	Pack Qty
red	<b>800091</b>	10
green	<b>800092</b>	10
yellow	<b>800094</b>	10
transparent	<b>800093</b>	10



Screwcaps with Gas threading IP67

Mounting hole type (mm)	Palazzoli code	Pack Qty
3/8"	<b>580051</b>	5
1/2"	<b>580052</b>	5
3/4"	<b>580054</b>	5

**Uses:** it closes unused Gas threaded holes.



Coupling fittings with Gas threading IP67

Mounting hole type (mm)	Internal hole Ø (mm)	Palazzoli code	Pack Qty
1/2"	16	<b>590002</b>	5
3/4"	20	<b>590004</b>	1

**Equipment included:** complete with gasket in elastomer.  
**Uses:** they are used to couple boxes with the same passage holes.



Spare coils for sirens ALARM and NAVE

Rated voltage	For siren code	Palazzoli code	Pack Qty
24V~	900453, 900553	<b>900459</b>	1
110V~	900463, 900563	<b>900469</b>	1
230V~	900473, 900573	<b>900479</b>	1



Spare coils for ALARM and NAVE bells

Rated voltage	For siren code	Palazzoli code	Pack Qty
24V~	900253, 900255, 900355	<b>900259</b>	1
110V~	900263, 900265, 900266, 900365	<b>900269</b>	1
230V~	900273, 900375	<b>900279</b>	1



Spare glass diffusers for oval bulk-head lamps

Colour	Light fixtures max. power	Palazzoli code	Pack Qty
transparent	60W	<b>831512</b>	1
	75W	<b>831612</b>	1
	100W	<b>831712</b>	1



Spare glass diffusers for round bulk-head lamps

Colour	Light fixtures max. power	Palazzoli code	Pack Qty
transparent	75W	<b>830512</b>	1



Spare gaskets in non-ageing elastomer for oval bulkhead lamps

Light fixtures max. power	Palazzoli code	Pack Qty
60W	<b>831540</b>	1
75W and 5-7W	<b>831640</b>	1
100W and 5-7-9W	<b>831740</b>	1



Spare gaskets in non-ageing elastomer for round bulkhead lamps

Light fixtures max. power	Palazzoli code	Pack Qty
75W	<b>830540</b>	1



Spare lamp holders E27 in porcelain with bracket for oval and round bulk-head lamps

Manufacturing material	Palazzoli code	Pack Qty
porcelain	<b>819056</b>	10



Spare lamp holders E27 in porcelain for RINO cylindrical well glass fixtures and well glass fixture UNAV 2137 of the NAVE series lighting fixture

Manufacturing material	Palazzoli code	Pack Qty
porcelain	<b>819055</b>	20



Polycarbonate spare diffusers for RINO steel light fixtures

Length (mm)	Manufacturing material	Diffuser colour	Palazzoli code	Pack Qty
690	polycarbonate	transparent	<b>820020</b>	1
	polycarbonate	opaline	<b>820021</b>	1
	glass	transparent	<b>820022</b>	1
1300	polycarbonate	transparent	<b>820030</b>	1
	polycarbonate	opaline	<b>820031</b>	1
1600	glass	transparent	<b>820032</b>	1
	glass	transparent	<b>820042</b>	1



## SPARE PARTS



Spare door kit for assemblies

For boards type	Palazzoli code	Pack Qty
ENERGYBOX surface/zone	<b>501531</b>	1



UNAV 1236.1 spare support with fixing screws for lamp holder for UNAV 2132 NAVE well glass fixtures

Well glass fixtures max. power	Palazzoli code	Pack Qty
75W	<b>859188</b>	10



Spare globe holder ring in grey brass for well glass fixtures with cylindrical diffuser of the NAVE series UNAV 2134 type

Well glass fixtures max. power	Palazzoli code	Pack Qty
60W	<b>819001</b>	1



Spare gaskets in non-ageing elastomer for well glass fixtures of the RINO and NAVE series

Well glass fixture type	Well glass fixture max. power	Palazzoli code	Pack Qty
cylindrical	60W	<b>819040</b>	1
	75W	<b>819140</b>	1
	100W	<b>831640</b>	1
UNAV 2133	60W	<b>850080</b>	1



Spare inserts for watertight control devices of the NAVE series UNAV 2162 type

Device code	Palazzoli code	Pack Qty
232616, 232626, 262636	<b>239611</b>	5
232627, 232637	<b>239612</b>	5
232628	<b>239613</b>	5





Spare diffuser in transparent smooth glass for UNAV 2139 large light fixtures

Well glass fixtures max. power	Palazzoli code	Pack Qty
3x75W	<b>850360</b>	1



Spare gaskets in non-ageing elastomer for UNAV 2139 large light fixtures

Well glass fixtures max. power	Palazzoli code	Pack Qty
lighting fixture body	<b>850380</b>	1
globe-holder ring	<b>850381</b>	1



Spare lamp holders E27 for NAVE series UNAV 2132, 2133, 2134 light fixtures

Manufacturing material	Palazzoli code	Pack Qty
porcelain	<b>859180</b>	1



Cylindrical diffuser in smooth glass for UNAV 2132 well glass fixtures

Well glass fixtures max. power	Palazzoli code	Pack Qty
75W	<b>819160</b>	1



Spare handles for control devices of the CAM series

For control devices type	Palazzoli code	Pack Qty
for distribution boards, flush-mounting and cabinets 16/25A	<b>270901</b>	1
for distribution boards, flush-mounting and cabinets 40/63A	<b>270911</b>	1
for boxes, distribution boards and cabinets 100/200A, for interlocked socket-outlets 125A	<b>270921</b>	1



Spare levers for control devices of the CAM series for back panel-mounting

For control devices type	Palazzoli code	Pack Qty
16/25A	<b>270941</b>	1
40/63A	<b>270951</b>	1
100/800A	<b>270961</b>	1



**What they are** By special products, we mean articles from the standard Palazzoli range which are modified according to the specifications of each customer. Any of the Palazzoli products can become special articles by using the following methods.

**How to request them** After selecting the standard production item whose technical features are nearest to those of the desired article, please fill in the form on page 383-386, describing all the modifications to be made. Once your quotation request has been emailed to [export@palazzoli.com](mailto:export@palazzoli.com), your request will be processed by the Palazzoli Technical Department which will perform a feasibility study. The form must be completed fully with all the required details, so that you can easily be contacted if there are any queries regarding your request.

After defining all the characteristics of the special product, Palazzoli will develop a specification with the following:

- *product code*
- *technical features*
- *dimensional drawing (if requested)*
- *electrical scheme*
- *indicative weight (if requested)*
- *list price*
- *delivery time*

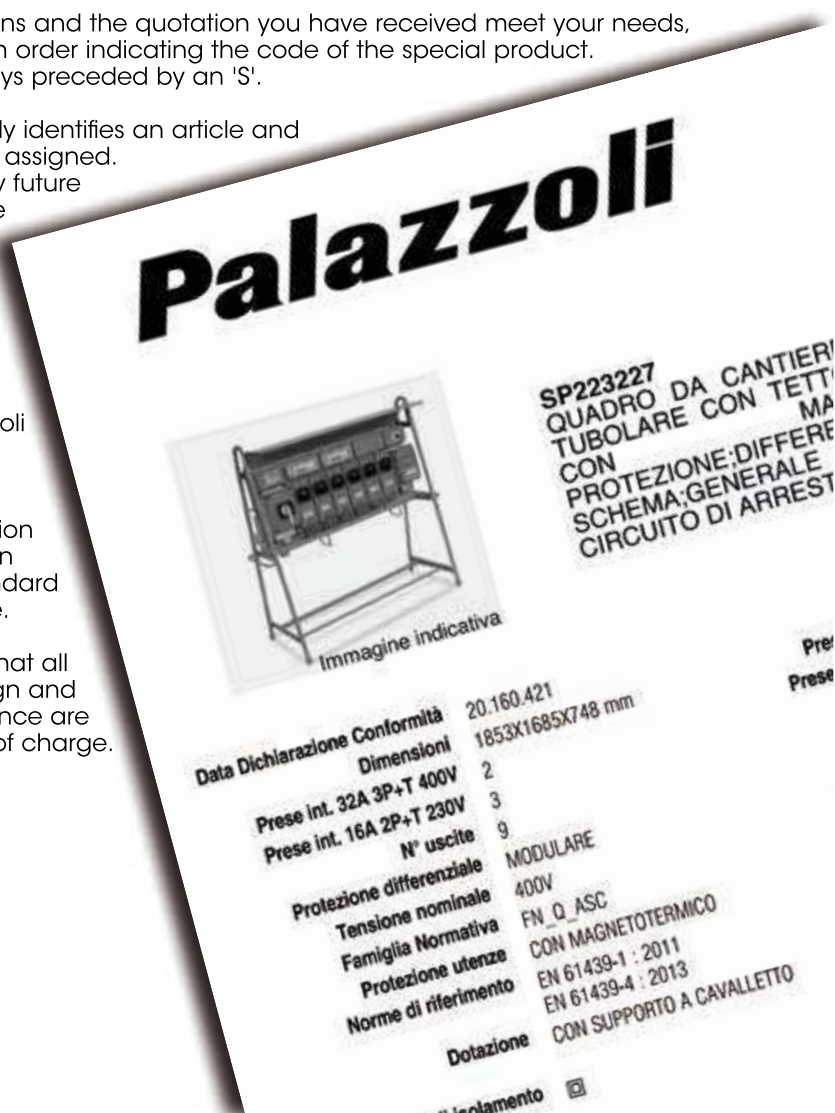
In the event that we are not able to help, we will return all the documentation and inform you of the reasons for which the construction of the requested product has not been possible.

**How to order them** If the specifications and the quotation you have received meet your needs, you may issue an order indicating the code of the special product. The code is always preceded by an 'S'.

(e.g. SP22160). Each code clearly identifies an article and is definitive once assigned. This simplifies any future orders, which are made by just giving this code number.

**Conclusions** The special product is a fundamental service for Palazzoli customers since it offers the best solution to every installation situation that has not been found in the standard catalogue range.

We remind you that all quotations, design and technical assistance are completely free of charge.









# SPECIAL CAM REQUEST FORM

Form to be downloaded in electronic format at the website:  
www.palazzoli.com and to be sent to: camspeciali@palazzoli.it

Form to be photocopied and sent to: export@palazzoli.com or surface mail to:  
Palazzoli SpA - TECHNICAL DEPARTMENT - Via F. Palazzoli, 31 - 25128 Brescia (BS) - ITALY

## Personal details

First name: \_\_\_\_\_ Surname: \_\_\_\_\_

Company Name: \_\_\_\_\_

Address: \_\_\_\_\_ no. \_\_\_\_\_

Zip code \_\_\_\_\_ City: \_\_\_\_\_ Prov. \_\_\_\_\_

Tel.: \_\_\_\_\_ Fax: \_\_\_\_\_ E-mail: \_\_\_\_\_

Location: \_\_\_\_\_

## Type of device:

Description: \_\_\_\_\_

Indicate the most similar article from the CAM series (optional): \_\_\_\_\_

Quantity to be produced \_\_\_\_\_

Delivery date: \_\_\_\_\_

## Electrical features:

Rated current (A)  $I_n =$  \_\_\_\_\_

No. of poles: \_\_\_\_\_

Rated voltage (V)  $U_n =$  \_\_\_\_\_

Operating category: \_\_\_\_\_

## Auxiliary contacts:

Rated current (A)  $I_n =$  \_\_\_\_\_

No. of contacts: \_\_\_\_\_

Rated voltage (V)  $U_n =$  \_\_\_\_\_

Note: specify the characteristics in the enclosed layout

## Execution:

from distribution board

flush-mounted

for cabinets with door lock

in enclosure:

<input type="checkbox"/> insulating in thermosetting material IP65	<input type="checkbox"/> in aluminium alloy IP55
Upper Cable Entry <input type="checkbox"/> With cable gland type Pg diameter: _____ <input type="checkbox"/> With blind flanges	Upper Cable Entry <input type="checkbox"/> With Gas type cable gland diameter: _____ <input type="checkbox"/> With blind flanges
Lower Cable Entry <input type="checkbox"/> With cable gland type Pg diameter: _____ <input type="checkbox"/> With blind flanges	Lower Cable Entry <input type="checkbox"/> With Gas type cable gland diameter: _____ <input type="checkbox"/> With blind flanges

## Type of control:

Yellow/Red

Grey/Blue

Black

Locking option:

in open position

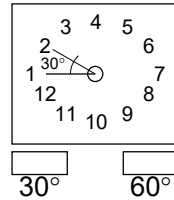
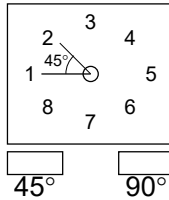
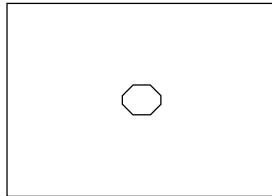
in closed position





# SPECIAL PRODUCT REQUEST FORM

Functional diagram of the contacts:													
													10
													9
													8
													7
													6
													5
													4
													3
													2
													1
	1	2	3	4	5	6	7	8	9	10	11	12	



Engravings on front-plate to be completed

Key to customisable contacts:	
Example	= closed contact
	= open contact
	= _____
	= _____
	= _____

Please be informed that your personal data will be stored in the database of the appointed Data Controller - PALAZZOLI SPA. The list of the persons in charge of processing personal data can be obtained from our head office. Your data will be used for the execution of the contract, will not be disclosed to third parties except to other companies in our group, tax consultants, legal or accounting, or credit institutions, or shipping and transportation companies, or public entities. You are entitled to acknowledge, update, rectify and cancel your personal data, and exercise all other foreseen rights, with notice in writing to our company.

I grant my consent for the processing of my personal data for marketing purposes.



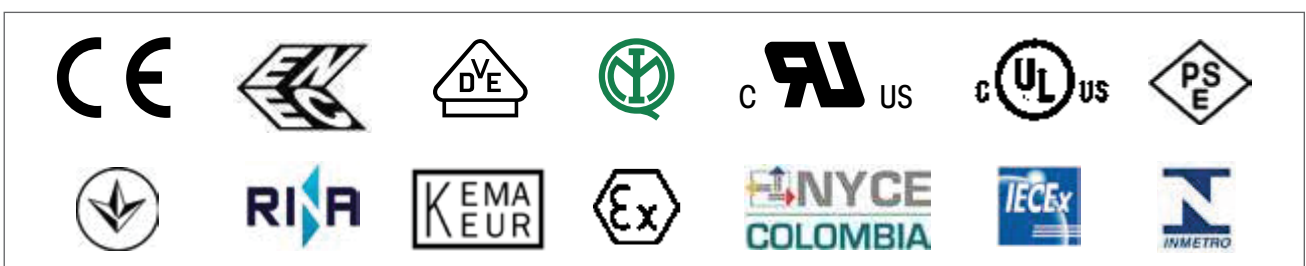
## STANDARDS AND MARKS OF CONFORMITY

A product manufacturer may comply with the essential safety requirements (ESR) of an EC directive through the technical prescriptions of Harmonised Standards. The European Standardisation Body who is in charge of the electrical field standard harmonisation and makes sure that the standards meet the ESR is CENELEC. This body harmonizes world technical standards issued and published by IEC by checking the compliance of the harmonised standards with the ESR and, whenever technical specifications ensure such compliance, the European Commission publishes the list of such standards on the OJ (Official Journal: Gazzetta Ufficiale). The process is as follows: CENELEC checks the compliance of an IEC standard with the ESR of the reference Directive and harmonizes such standard (for example EN 60947); CEI (Italian Electrotechnical Committee) is the national standardisation body publishing the Harmonised Standard in Italy (ex. CEI EN 60947); the European Commission publishes on the OJ the EN

Harmonised Standard inside the list of the reference standards for the applicable Directive and, from that moment onwards, the application of the published Harmonised Standard ensures the presumption of conformity with the ESR of that Directive.

The conformity with the Harmonised Standards can be certified in different ways, based on the applicability of a certain Directive to the product:

- The EU Directive queries the intervention of a Notified Body (NB).
- The EC Directive does not query the intervention of a NB and the manufacturer decides to use the harmonised standards for conformity assessment.
- The EC Directive does not query the intervention of a NB and the manufacturer decides to partially use or not to use the Harmonised standards for conformity assessment.
- The product does not fall within the scope of any EU Directive.





The characteristics of an electric system cannot disregard the environmental conditions in which it will have to work and be maintained. On the contrary, this is a regulatory provision: when developing a new project, the environmental conditions are the first issue to be considered. Failure to comply with these recommendations results in the occurrence of risks connected to negative environmental factors such as humidity, dust level, vibration, presence of water jets, etc.

The electrical risk assessor at first will have to classify the company structure into homogeneous areas as for electrical risk, such as:

- a) Standard areas;
- b) Areas subject to higher risks in case of fire;
- c) Narrow conductive areas: places delimited by metal surfaces or having good electrical connection to the ground and inside which a person has a good chance to come in contact with such surface with a wide part of his/her body other than hands and feet (ex. metal tanks, excavations, etc.);
- d) Areas with the risk of explosion; namely areas where explosive atmospheres could develop (a mixture with air, under environmental conditions, of flammable substances under the state of gases, vapours, mists or combustible dusts where, after ignition, combustion develops in the whole unburnt mixture);
- e) MV/LV transformer stations;
- f) Medical areas;
- g) Animal husbandry areas;
- h) Construction sites.






This partitioning into homogeneous areas of electric risk derives from the fields of application of the different IEC standards for the design, installation and maintenance of systems (such as CEI 64-8, series IEC EN 60079, series IEC EN 61241, series CEI 11, CEI 0-15).

Area classification does not only derive from the constructive and architectural characteristics, but also from the work activities being performed or that will be performed inside those areas. Whenever company structure or production cycle are changed, a new risk assessment will be required to identify the correct electrical classification of each single area and to assess the actual conformity of the systems with the installation environments, under art. 29 of Italian Legislative Decree 81/08.





The following table lists the most frequent harmful effects of atmospheric agents on the electrical components.







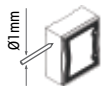


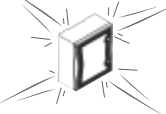

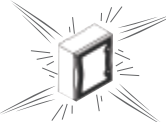
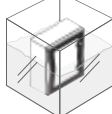
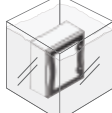

ENVIRONMENTAL AGENT	MAIN EFFECTS	FAULT TYPE
	<b>HIGH TEMPERATURE</b>  Oxidation Fissures Softening Expansion	Insulation fault Mechanical failure Wear of moving parts
	<b>LOW TEMPERATURE</b>  Embrittlement Solidification Loss of mechanical strength	Fissures Loss of lubricating properties Gasket sealing defects
	<b>HUMIDITY</b>  Swelling Corrosion Increased conductivity of insulators	Physical breakage Insulation fault Mechanical failure
	<b>DUST</b>  Abrasion and erosion Seizure Accumulation of debris Loss of heat conductivity	Wear Electrical failure Overheating
	<b>RAIN AND HAIL</b>  Water absorption Erosion Mechanical deformation	Structure deformation Fissures Electrical failure



# IP DEGREE OF PROTECTION OF ENCLOSURES

The standard IEC 60529 describes a system of IP codes for classifying the degrees of protection provided by casings against access to hazardous parts and protection of equipment against the penetration of solid foreign objects or the ingress of water.



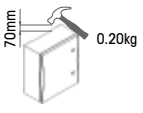
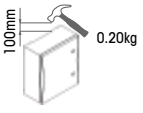
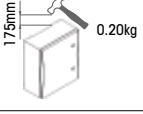
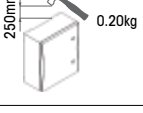
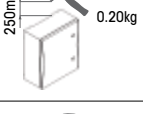
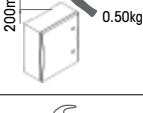
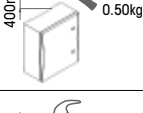
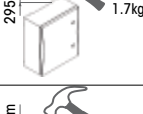


Symbol	1st digit Protection against the penetration of solid foreign bodies		2nd digit Protection against penetration of liquids			
	IP	0		No Protection.	0	
1			Protected against the penetration of solid foreign bodies larger than 50 mm (hands).	1		Protected against the vertical fall of water drops.
2			Protected against the penetration of solid foreign bodies larger than 12 mm (fingers).	2		Protected against the fall of water drops at a maximum angle of 15° to the vertical.
3			Protected against the penetration of solid foreign bodies larger than 2.5 mm (tools, cables).	3		Protected against falling rain with a maximum angle of 60° to the vertical.
4			Protected against the penetration of solid foreign bodies larger than 1 mm (wires).	4		Protected against water splashes coming from all directions.
5			Protected against harmful dust deposits affecting good operation.	5		Protected against jets of water coming from all directions.
6			Totally protected against dust.	6		Protected against water projections similar to sea waves.
<p>Warning</p> <p>IPX7 and IPX8 protection degrees do not include IPX5 and IPX6 protection degrees.</p> <p>The application of the double degree is envisaged:</p> <p>The twin-degree is applied:</p> <p>enclosures IP66/IP67 meet the requirements both for the exposure to strong water jets and for temporary immersion.</p> <p>While enclosures IP67 are deemed suitable for temporary immersion only</p>			7		Protected against the effects of temporary immersion in water under specified duration and pressure conditions.	
			8		Protected against the effects of continuous immersion inside water under defined pressure conditions.	
			9		Protected against high temperature and high pressure jets.	





The standard IEC/EN 62262 defines a coding system, IK code, to indicate the degrees of protection provided by casings for electrical equipment against external mechanical impacts.



IK	Symbol	00	no protection.	
		01	resistant to impacts with an energy up to 0.150 J	
		02	resistant to impacts with an energy up to 0.200 J	
		03	resistant to impacts with an energy up to 0.350 J	
		04	resistant to impacts with an energy up to 0.500 J	
		05	resistant to impacts with an energy up to 0.700 J	
		06	resistant to impacts with an energy up to 1.00 J	
		07	resistant to impacts with an energy up to 2.00 J	
		08	resistant to impacts with an energy up to 5.00 J	
		09	resistant to impacts with an energy up to 10.00 J	
		10	resistant to impacts with an energy up to 20.00 J	



The Glow Wire Test assesses the resistance to abnormally high temperatures and fire, through the contact of a plastic material with a glowing wire to simulate the possible effects of an electric system overheated for a short time, and the consequent possible risk of fire.



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### SELF-EXTINGUISHING GRADE UL94 - IEC 60695-11-10

#### HB

It consists in measuring the time for which the plastic test specimen of the specified thickness and supported horizontally continues burning **after** the application of the flame of a Bunsen burner for 30 sec.

According to UL 94 HB (Horizontal Burning) the material is classified as **HB**.

When 3 mm thick test specimen burns at a max. speed of 75 mm/minute.

#### V-0 ,V-1 ,V-2

The test consists in measuring the time for which the plastic test specimen of the specified thickness (3 to 6 mm) and supported vertically continues burning **after** the application of the flame of a Bunsen burner for 10 sec.

According to the Vertical Burning standards:

- The tested material is classified V.0 when flaming extinguishes within 10 seconds.
- The tested material is classified V.1 when flaming extinguishes within 30 seconds with no burning drops.
- The tested material is classified V.2 when flaming extinguishes within 30 seconds with burning drops.



# RESISTANCE TO CHEMICAL AGENTS AND ATMOSPHERIC CONDITIONS

The resistance of a material to the erosive and ageing action of chemicals or atmospheric agents is not a direct relationship, but depends on the conditions of installation, temperature, chemical agent concentration and on the other interactions that different substances present inside the atmosphere can have on the concerned product. Material chemical resistance tables, resulting from lab tests, represent a useful instrument, but provide indications only, as universal installation conditions cannot be established. To make reading easier, and taking what is stated above into account, we summarised the material resistance levels in 3 values: high resistance (arrow up), partial resistance (arrow to the right) and low resistance (arrow down).

## Thermoplastic

WATER	SALINE SOLUTION	ACIDS		BASES		SOLVENTS			
		CONCENTRATED	DILUTED	CONCENTRATED	DILUTED	ALCOHOL	ACETONE	PERCHLORO-ETHYLENE	BENZENE
↑	→	↓	→	↑	↑	→	↑	↑	↑
OILS		FATS		AMMONIA	OXIDISERS	INORGANIC SALTS	GASOLINE	DETERGENTS	U.V. RAYS
MINERAL	VEGETABLE	ANIMAL	SYNTHETIC						
↑	↑	↑	↑	↑	↓	↑	↑	↑	↑

## Thermosetting GRP

WATER	SALINE SOLUTION	ACIDS		BASES		SOLVENTS			
		CONCENTRATED	DILUTED	CONCENTRATED	DILUTED	ALCOHOL	ACETONE	PERCHLORO-ETHYLENE	BENZENE
↑	↑	→	↑	↑	↑	↑	↑	↑	↑
OILS		FATS		AMMONIA	OXIDISERS	INORGANIC SALTS	GASOLINE	DETERGENTS	U.V. RAYS
MINERAL	VEGETABLE	ANIMAL	SYNTHETIC						
↑	↑	↑	↑	↑	↑	↑	↑	↑	↑

## Aluminium

WATER	SALINE SOLUTION	ACIDS		BASES		SOLVENTS			
		CONCENTRATED	DILUTED	CONCENTRATED	DILUTED	ALCOHOL	ACETONE	PERCHLORO-ETHYLENE	BENZENE
↑	↑	↓	→	→	↑	↑	↑	↑	↑
OILS		FATS		AMMONIA	OXIDISERS	INORGANIC SALTS	GASOLINE	DETERGENTS	U.V. RAYS
MINERAL	VEGETABLE	ANIMAL	SYNTHETIC						
↑	↑	↑	↑	↑	→	↑	↑	↑	↑

## Brass

WATER	SALINE SOLUTION	ACIDS		BASES		SOLVENTS			
		CONCENTRATED	DILUTED	CONCENTRATED	DILUTED	ALCOHOL	ACETONE	PERCHLORO-ETHYLENE	BENZENE
↑	→	→	↑	↑	↑	↑	↑	↑	↓
OILS		FATS		AMMONIA	OXIDISERS	INORGANIC SALTS	GASOLINE	DETERGENTS	U.V. RAYS
MINERAL	VEGETABLE	ANIMAL	SYNTHETIC						
↑	↑	↑	↑	↑	→	↑	↑	↑	↑

## Stainless steel

WATER	SALINE SOLUTION	ACIDS		BASES		SOLVENTS			
		CONCENTRATED	DILUTED	CONCENTRATED	DILUTED	ALCOHOL	ACETONE	PERCHLORO-ETHYLENE	BENZENE
↑	→	→	↑	↑	↑	↑	↑	↑	↑
OILS		FATS		AMMONIA	OXIDISERS	INORGANIC SALTS	GASOLINE	DETERGENTS	U.V. RAYS
MINERAL	VEGETABLE	ANIMAL	SYNTHETIC						
↑	↑	↑	↑	↑	→	↑	↑	↑	↑

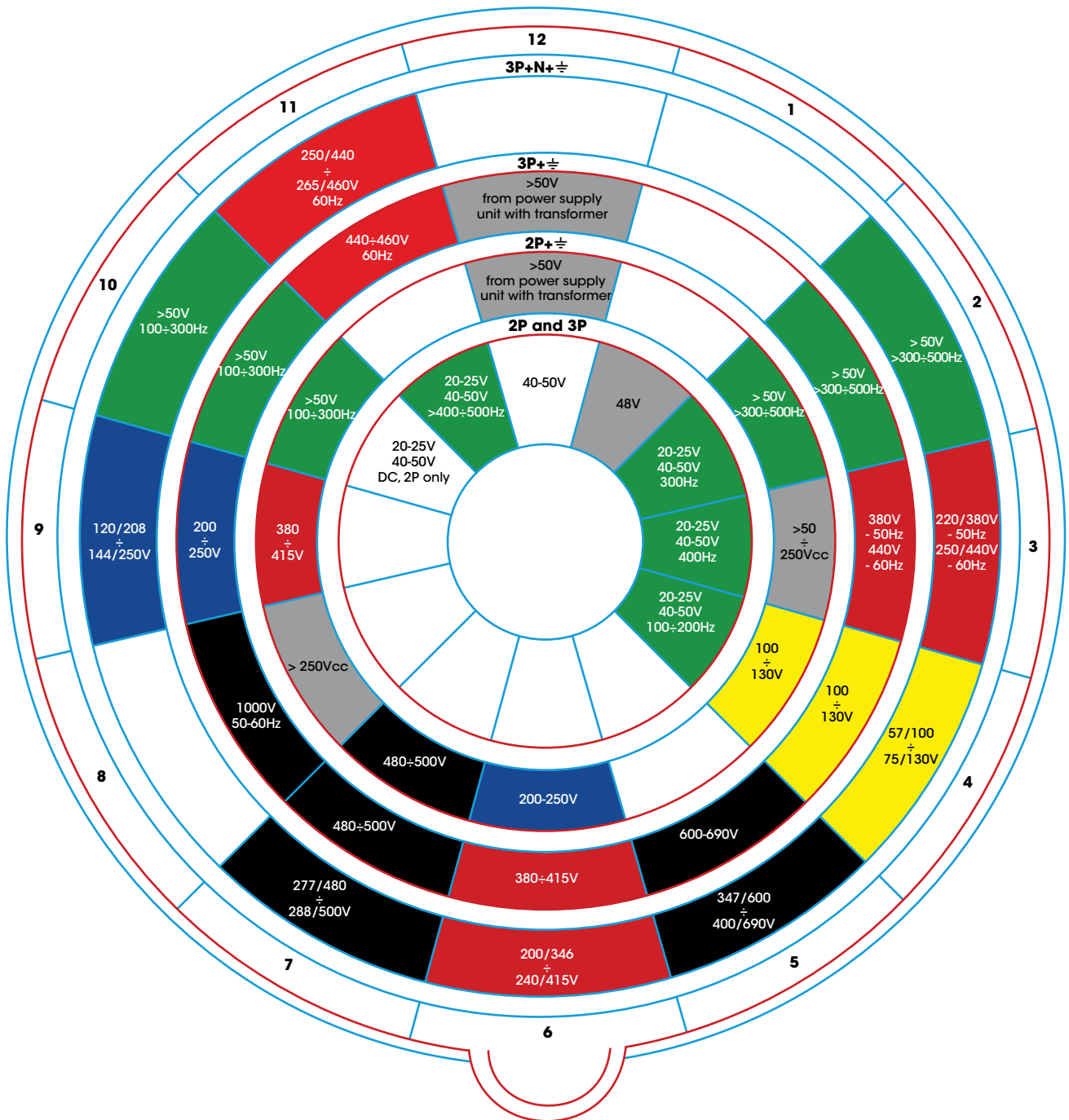
Legend: ↑ high resistance → partial resistance ↓ low resistance



## THE HOUR REFERENCE ACCORDING TO EN 60309-1 AND EN 60309-2

Voltage and current combinations differ based on the position of the earth contact in one of the twelve different positions at 30° from one another around the pole circle.

The reference of the different position is given by looking at the socket-outlet open (front) side; the 6 o'clock (180°) position is pointing down. The most common positions are yellow 2P+⊕, blue 2P+⊕, red 3P+⊕ and red 3P+N+⊕.





## INTERLOCKED SOCKET-OUTLETS

EN 60309-1 standard specifies that socket-outlets must have a suitable breaking capacity and must withstand, with no excessive wear, the mechanical, electrical and temperature stresses originated during standard operation.

If breaking capacity is too low (usually in higher capacity socket-outlets) or if additional safety is required under specific conditions (as envisaged by CEI 64/8), a suitable interlock device is required.



### OPERATOR'S RISKS

When you plug in or unplug a plug into its socket, you run the risk of a direct electrical contact. If the fixed socket-outlet is a ground, you always run the risk of indirect electrical contact. Laboratory experiments made on 16A socket-outlets showed that when the short-circuit current exceeds 4-5kA, the arc can become very dangerous (violent expulsion of gas with explosive phenomenon). There are also risks which could be originated by the environment, such as the risk of fire, for which electrical components must not be a cause of ignition and drag.

### RISK PREVENTION

To prevent the risks operator is subject to, socket-outlets must prevent both direct and indirect electrical contacts. A good method to prevent direct electrical contacts is the interlock device.

### INTERLOCK DEVICES

Interlock devices must be connected to a disconnecter switch so as to prevent the plug from being unplugged from the fixed socket-outlet when the contacts are live and, at the same time, to prevent the plug from being plugged in while the disconnecter switch is in closed position. This lock can be either mechanical or electrical. In case of mechanical lock, switch and socket-outlet must be integral with each other. In case of electrical lock, an auxiliary contact will be fitted on the socket-outlet and operated by plugging in the plug. This contact will operate on switch locking coil, allowing contact closing only with plug duly plugged in. Standard EN 60309-4 provides for a short-circuit resistance of at least 10kA and utilisation category AC-22A.







The aim of switches and isolators is to enable or disable defined loads and, if necessary, to provide for the relevant protection. Based on the equipment functional mode, there can be:

-) Isolators: these are devices able to supply continuous current, but unable to establish or to interrupt it. Their main function is to ensure power supply electrical separation.

To this end, the isolator must ensure, in the opening position, a suitable distance between contacts;

-) Switches: they differ from isolators as they can establish or interrupt the load current, taking also into account the temporary standard overload conditions.

They can thus perform the actual opening and closing controls also with connected loads;

-) Switch-disconnectors: these are control switches that, in the opening position, meet the isolating capacities specified for an isolator switch.

The following tables summarize the meaning of the use categories.

## Switching and disconnecting of power circuits

Type of current	Utilisation category		Typical applications
	frequent operation	infrequent operation	
Alternating current	AC-20A (*)	AC-20B (*)	Connecting and disconnecting under no-load conditions
	AC-21A	AC-21B	Control of resistive loads with moderate overcurrents
	AC-22A	AC-22B	Control of mixed resistive and inductive loads with moderate overcurrents
	AC-23A	AC-23B	Control of motors or other highly inductive loads
Direct current	DC-20A (*)	DC-20B (*)	Connecting and disconnecting under no-load conditions
	DC-21A	DC-21B	Control of resistive loads with moderate overcurrents
	DC-22A	DC-22B	Control of mixed, resistive and inductive, loads, with moderate overcurrents (e.g. shunt motors)
	DC-23A	DC-23B	Control of highly inductive loads (e.g. motors in series)

(\*) The use of these categories is not permitted in the USA.

## Start of motors

Type of current	Category	Typical applications
Alternating current	AC-2	Slip-ring motors: starting, plugging (*1), stopping
	AC-3	Squirrel-cage motors: starting, stopping
	AC-4	Squirrel-cage motors: starting, plugging (*1), inching (*2)
Direct current	DC-3	Shunt-motors: starting, plugging (*1), inching (*2), dynamic motor plugging in DC
	DC-5	Motors in series: starting, plugging (*1), inching (*2), dynamic motor plugging in DC

(\*1) by plugging it is intended a stopping or a reversal of the motor direction by inverting the primary connections of the motor while it is still running.

(\*2) by inching it is intended a command characterised by one or more short breaks of the power supply circuit in order to jog the motor.

Comparison between test values for AC23-A and AC-3 categories	Closing and opening power tests					Operating performance tests					
	V <sub>test</sub>	V <sub>test</sub>		cosφ	No. of op.	V <sub>test</sub>	V <sub>test</sub>		cosφ	V <sub>test</sub>	
		Closes	Opens				Closes	Opens		empty	load
AC-23A	1.05 U <sub>e</sub>	10 I <sub>e</sub>	8 I <sub>e</sub>	0.45/0.35	5/3	U <sub>e</sub>	I <sub>e</sub>	I <sub>e</sub>	0.65	8500	1500
AC-3	1.05 U <sub>e</sub>	8 I <sub>e</sub>	8 I <sub>e</sub>	0.45/0.35	50	1.05 U <sub>e</sub>	2 I <sub>e</sub>	2 I <sub>e</sub>	0.45/0.35	-	6000

The use of category AC23A and AC-3 control and isolator switches covers most applications in industrial plants and systems, as they are suitable for use even after a high number of operations and under overload conditions.

The above-indicated performance data for the isolator switches of the CAM-ST, CAM-SZ and CAM series were obtained using dual breaker cells with robust pads in Ag which guarantee the best possible performance of closing/opening powers, performances in short-circuit conditions, and they also allow a high number of disconnecting instances without losing their characteristics of high electrical reliability and durability.



# ISOLATOR SWITCHES

HEAVY-DUTY CAM SWITCH		SWITCHES - ISOLATOR SWITCHES						ISOLATORS				
		CAM 16	CAM 25	CAM 40	CAM 63	CAM 100	CAM 200	CAM 400	CAM 600	CAM 800	CAM 1200	
Rated insulation voltage $U_i$	V	500	500	500	500	500	500	500	500	500	500	
Rated impulse-withstand voltage $U_{imp}$	kV	4	4	4	4	4	4	4	4	4	4	
Rated closing capacity	A	160	250	400	630	1000	1250	1250	1250	1250	1250	
Rated breaking capacity	A	128	200	320	504	800	1000	1000	1000	1000	1000	
<b>Protection against short circuit</b>												
Rated short-time (1 sec.) withstand current	A	240	380	600	950	1500	3000	3000	3000	3000	3000	
Conditional short-circuit current	kA	10	10	10	10	15	10	15	15	15	15	
Protective fuse max. current (gl or aM)	A	16	25	40	63	100	200	400	600	800	1200	
Rated and interrupted thermal current $I_{th} = I_u$	A	16	25	40	63	100	200	400	600	800	1200	
<b>Rated use voltage <math>U_e</math></b>												
AC21A	415V	A	16	25	40	63	100	200	-	-	-	-
	500V	A	16	25	40	63	100	200	-	-	-	-
AC22A	415V	A	16	25	40	63	100	200	-	-	-	-
	500V	A	16	25	40	63	100	200	-	-	-	-
AC23A	230V	A	16	25	40	63	100	200	-	-	-	-
	400V	A	16	25	40	63	100	200	-	-	-	-
	500V	A	16	25	40	63	100	200	-	-	-	-
AC23A	230V	kW	4.5	7	11	20	32	64	-	-	-	-
	400V	kW	7.5	12	19	34	55	111	-	-	-	-
	500V	kW	10	14	23	44	69	139	-	-	-	-
AC3	230V	kW	4.5	7	11	18	25	48	-	-	-	-
	400V	kW	7.5	12	19	31	44	83	-	-	-	-
	500V	kW	10	14	23	40	55	90	-	-	-	-
AC4	230V	kW	3.5	5	8	13	14	14	-	-	-	-
	400V	kW	6	8	3	21	27	27	-	-	-	-
	500V	kW	7.5	10	16	24	28	28	-	-	-	-
DC-23A	240V	A	16	25	40	63	-	-	-	-	-	-

CAM-ST SWITCH		CAM-ST 12	CAM-ST 16	CAM-ST 20	CAM-ST 25	CAM-ST 32	CAM-ST 40	CAM-ST 63	
Rated insulation voltage $U_i$	V	690	690	690	690	690	690	690	
Rated impulse-withstand voltage $U_{imp}$	kV	4	4	4	4	4	4	4	
Rated closing capacity	A	120	160	200	250	320	400	630	
Rated breaking capacity	A	96	128	160	200	256	320	504	
<b>Protection against short circuit</b>									
Rated short-time (1 sec.) withstand current $I_{cw}$	A	480	480	480	480	480	600	950	
Conditional short-circuit current	kA	10	10	10	10	10	10	15	
Protective fuse max. current (gl or aM)	A	12	16	20	25	32	40	63	
Rated and interrupted thermal current $I_{th} = I_u$	A	12	16	20	25	32	40	63	
<b>Rated use voltage <math>U_e</math></b>									
AC21A	400V	A	12	16	20	25	32	40	63
	500V	A	12	16	20	25	32	40	63
	690V	A	12	16	20	25	32	40	63
AC22A	400V	A	15	18	23	28	38	45	63
	500V	A	12	16	20	25	32	40	63
	690V	A	12	16	20	25	32	40	63
AC23A	230V	A	10	14	18	20	38	45	36
3F	400V	A	10	14	18	20	32	40	36
	600V	A	6	10	12	16	32	40	36
AC23A	230V	kW	3.5	4.5	5.5	6.5	6.5	8	12
3F	400V	kW	5.5	8	10	11	10.5	13	22
	600V	kW	4.5	7.5	9	11	19	24	32
AC3	230V	kW	2.5	4	5.5	6	6.5	8	12
3F	400V	kW	4.5	6.5	8	10	10.5	13	22
	600V	kW	5	8	10	13	19	24	32
AC4	400V	kW	1.2	1.7	2.2	2.5	3	5.5	7.5



# ISOLATOR SWITCHES

CAM-SZ SWITCH		CAM-SZ 16	CAM-SZ 25	CAM-SZ 32	CAM-SZ 40	CAM-SZ 63	CAM-SZ 100
Rated insulation voltage $U_i$		V	500	500	500	690	690
Rated impulse-withstand voltage $U_{imp}$		kV	4	4	4	4	4
Rated closing capacity		A	160	250	320	880	2200
Rated breaking capacity		A	125	200	256	690	1750
Protection against short circuit							
Rated short-time (1 sec.) withstand current $I_{cw}$		A	240	375	480	4800	7500
Conditional short-circuit current		kA	10	10	10	10	10
Protective fuse max. current (gl or aM)		A	16	25	32	40	63
Rated and interrupted thermal current $I_{th} = I_u$		A	16	25	32	40	63
Rated use voltage $U_e$							
AC20A	230V	A	16	25	32	50	80
	400V	A	16	25	32	40	63
	500V	A	16	25	32	40	63
AC21A	230V	A	16	25	32	50	80
	400V	A	16	25	32	40	63
	500V	A	16	25	32	40	63
AC22A	230V	A	16	25	32	50	80
	400V	A	16	25	32	40	63
	500V	A	16	25	32	40	63
AC23A 3F	230V	A	16	25	32	50	63
	400V	A	16	25	32	40	63
	500V	A	16	25	32	40	63
	690V	A	16	25	32	40	63
AC23A 3F	230V	kW	4	6.5	8.5	10	20
	400V	kW	7.5	11.5	15	16	34
	500V	kW	8.5	13	17	18	44
	690V	kW	12	16	19	20	50
AC3 3F	230V	kW	4	6.5	8.5	9	16
	400V	kW	7.5	11.5	15	16	28
	500V	kW	8.5	13	17	18	36
	690V	kW	12	14	18	20	40
AC4	230V	kW	3	4.5	6	-	-
	400V	kW	5	7.5	10	-	-
	500V	kW	6.5	10	13	-	-
	690V	kW	9	13	17	-	-

USE WITH DIRECT CURRENT							
DC21A	Rated use voltage $U_e$	A	16	25	32	40	63
	Max. voltage per pole in series	V	60	60	60	60	60
DC22A	Rated use voltage $U_e$	A	16	25	32	32	40
	Max. voltage per pole in series	V	48	48	48	60	60
DC23A	Rated use voltage $U_e$	A	16	25	32	32	37
	Max. voltage per pole in series	V	30	30	30	30	30
Mechanical duration		No. of op.	10 <sup>6</sup>	10 <sup>6</sup>	10 <sup>6</sup>	10 <sup>6</sup>	10 <sup>6</sup>
Frequency of operations at rated current		Op./h	120	120	120	120	120
Cross-section of solid conductors		mm <sup>2</sup>	1-6	1-6	1-6	10-35	10-35
Cross-section of flexible conductors		mm <sup>2</sup>	1-10	1-10	1-10	10-35	10-35
Tightening torque		Nm	2	2	2	3	3



The electric system of a construction site must meet the CEI 64-8/7 Standard (Electrical utility systems at a nominal voltage of no more than 1000 V in alternating current and 1500 V in direct current. Part 7: Particular environments and applications), which integrate the general requirements of CEI 64-8 Standard. Section 704 of this standard specifically covers "Construction and demolition sites".

A useful help to all plant installers for the execution of electrical installations in construction sites is provided by the Guide CEI 64-17, ed. 2010-2, "Guide to the execution of electrical installations on construction sites", which provides interesting information and suggestions for installation procedures.

The guide also includes recommendations for circuits powered with plug-type sockets for the power supply of construction site electrical equipment that can be used by untrained personnel. In addition, the execution of the electrical system at construction sites is subject to Ministerial Decree 37/2008 and to Chapter IV of Legislative Decree 81/08 (ex Legislative Decree 494/96). Consequently, the electrical installer who builds the system, must issue the declaration of conformity as provided for in art. 7 of Ministerial Decree 37/08. The site's electrical system is excluded from the requirement that the project be signed by a professional technician registered in the register of building engineers. However, the installer is still obliged to issue a declaration of conformity (art. 10, paragraph 1, of Ministerial Decree 37/08).

We remind you art. 117 of Legislative Decree 81/2008 and art. 73 of Legislative Decree 106/2009 on safety distance from power lines.

Distribution boards for the distribution of electrical energy in construction sites must be constructed in compliance with the requirements of European Standard EN 61439-4 "Low-voltage (LV) switchgear and controlgear assemblies, Part 4: Particular requirements for assemblies for construction sites (ACS)".

The standard defines low-voltage switchgear and controlgear subject to type tests for construction sites (ACS), in the following way: "Combination of one or several transforming or low voltage switching devices with associated control, measuring, signalling, protective and regulating equipment complete with all their internal electrical and mechanical connections and structural parts, designed and built for use on all construction sites, indoors and outdoors."

ACS Boards for construction sites are classified based on their function (IEC EN 61439-4 Standard):





Light fixtures perform three main functions:

- they control the light source and direct it in the desired directions;
- they avoid glare by shielding the lamp completely in the direction of observation and reducing its luminance to a tolerable value;
- they protect the lamps against mechanical or chemical damage, ensure functional electrical safety and safety against accidental contact (electric shock).

The optical performance of a light fixture is determined by the ratio of the luminous flux exiting the fixture to the flux emitted by the light source alone. The control components used to direct the light source and shield it, are they active parts of the light fixtures. They are:

- reflectors, which allow two overlapping beams of light to be projected outside the fixture, one coming directly from the light source, the other reflected by a surface - known as reflector - with a circular, parabolic, elliptic, hyperbolic section, etc.;
- refractors, which are used when the reflector alone is not sufficient to control the flux at the emission surface. They exploit a phenomenon which goes by the name of "total internal reflection" and generally consist of smooth cups or panels on one side and other elements fitted with conical or pyramidal prisms on the other side;
- diffusers, through which the apparent size of the source can be increased so as to reduce the luminance of the lamp. They are made of opal glass or suitably treated plastics;
- shields, which may be internal or external to the light fixture;
- lenses, which enable to focus, diffuse or shape the luminous impression and consequently modify the photometric solid coming out of the unit.

The following materials are generally used for the reflective surfaces of light fixtures:

- silvered glass; treated aluminium;
- enamelled or painted sheet steel.

The design of the lighting system aims to determine the number, types and positions of light fixtures to be installed in a given environment, taking into account the characteristics of the space, any specific user requirements and aspects such as economy, hygiene, functionality and elegance. Lighting engineering calculation, which will be dealt with in detail in the final chapter, is now increasingly carried out by computer. However, this section highlights the basic requirements that are analysed to implement the lighting system project with the traditional method.







### OVERVIEW OF REFERENCE STANDARDS

Directive 2004/54/EC establishes the minimum safety levels for tunnels on the TEN (Trans-European) road network longer than 500 m. This Directive has been implemented by the Italian Law with Legislative Decree dated October 5, 2006, published in the Italian Official Gazette n. 235. In Italy the TEN network basically coincides with the motorway network, in addition to certain sections managed directly by ANAS, more precisely Sections E45, A3 SA-RC, GRA, SS20, SS33, A29, SS106 and SS76.

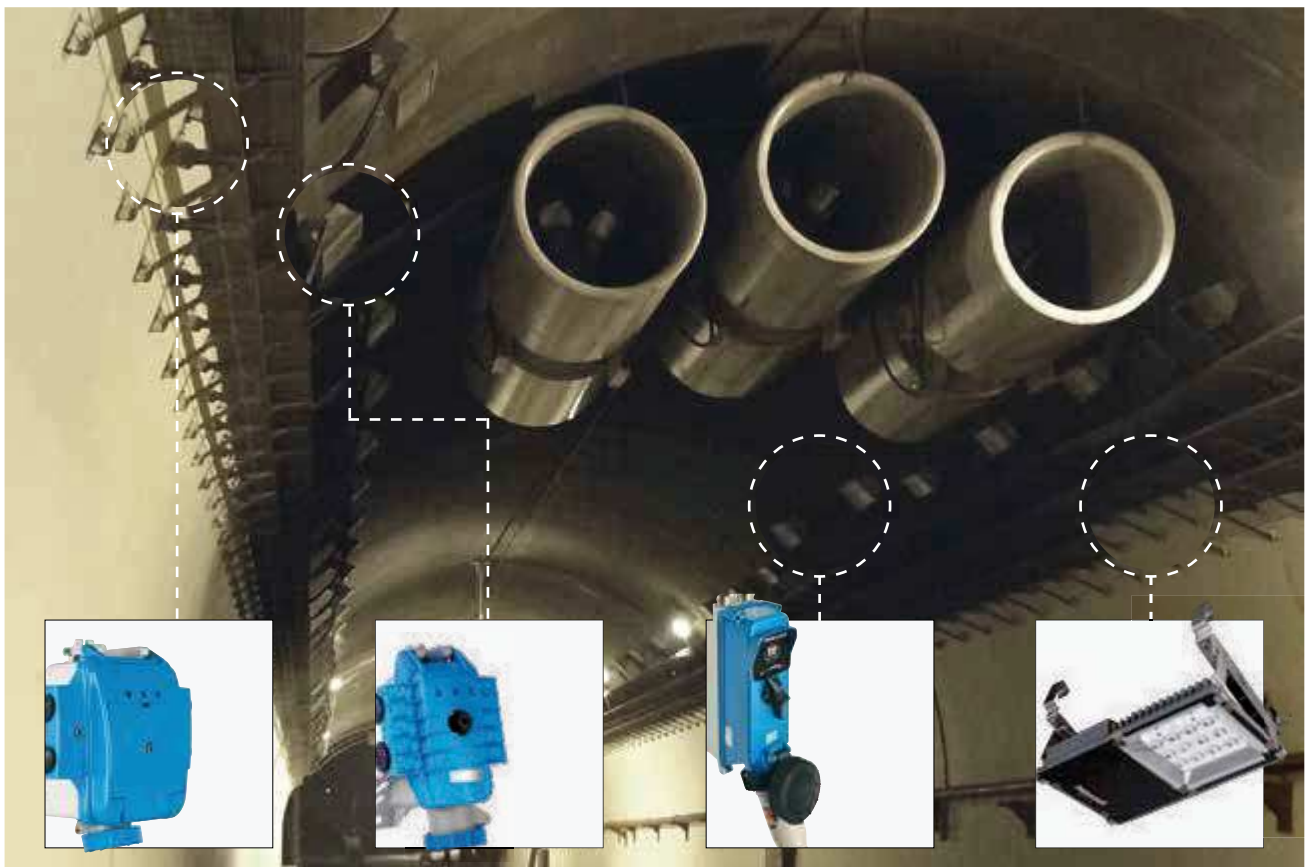
In terms of safety, the Directive defines the minimum plant facility and infrastructural requirements that all currently active and future TEN tunnels must comply with, according to traffic and geometrical parameters. All currently active Italian tunnels must achieve conformity with such requirements by the year 2019. All aspects which are not covered by the TEN directives are regulated by Ministerial Decree dated June 5, 2001, "Functional and geometric road building standards". This decree imposes strict documental and safety measure obligations on all road owners and management bodies. Important references for Design Engineers are provided in Legislative Decree 264/2006: "Implementation of European Directive 2004/54/EC on the safety of tunnels in the Trans-European Road Network". The primary objective is to achieve a level of safety that prevents all situations which are hazardous to human beings, the environment and tunnel plant facilities.

### ANAS GUIDELINES

The ANAS Engineering & Planning Division has published its Road Tunnel Safety Planning and Design Guidelines taking into consideration all applicable national and international standards. ANAS projects meet all modern road tunnel safety standard requirements. In particular, it implements all provisions foreseen by Legislative Decree 264/2006 which, as mentioned, is applicable to the TEN network only. Not only has ANAS extended such regulations to all the tunnels it owns, but it has also increased the so-called minimum requirements; this results in a lower acceptable risk level and therefore a higher safety level.

### ANAS and PALAZZOLI

Palazzoli has been working with ANAS for over 10 years in adopting all preventive measures to achieve a level of safety that prevents all situations which are hazardous to human beings, can jeopardise the environment and tunnel plant facilities. More specifically, Palazzoli is the core element of the ANAS specifications for lighting and ventilation systems.

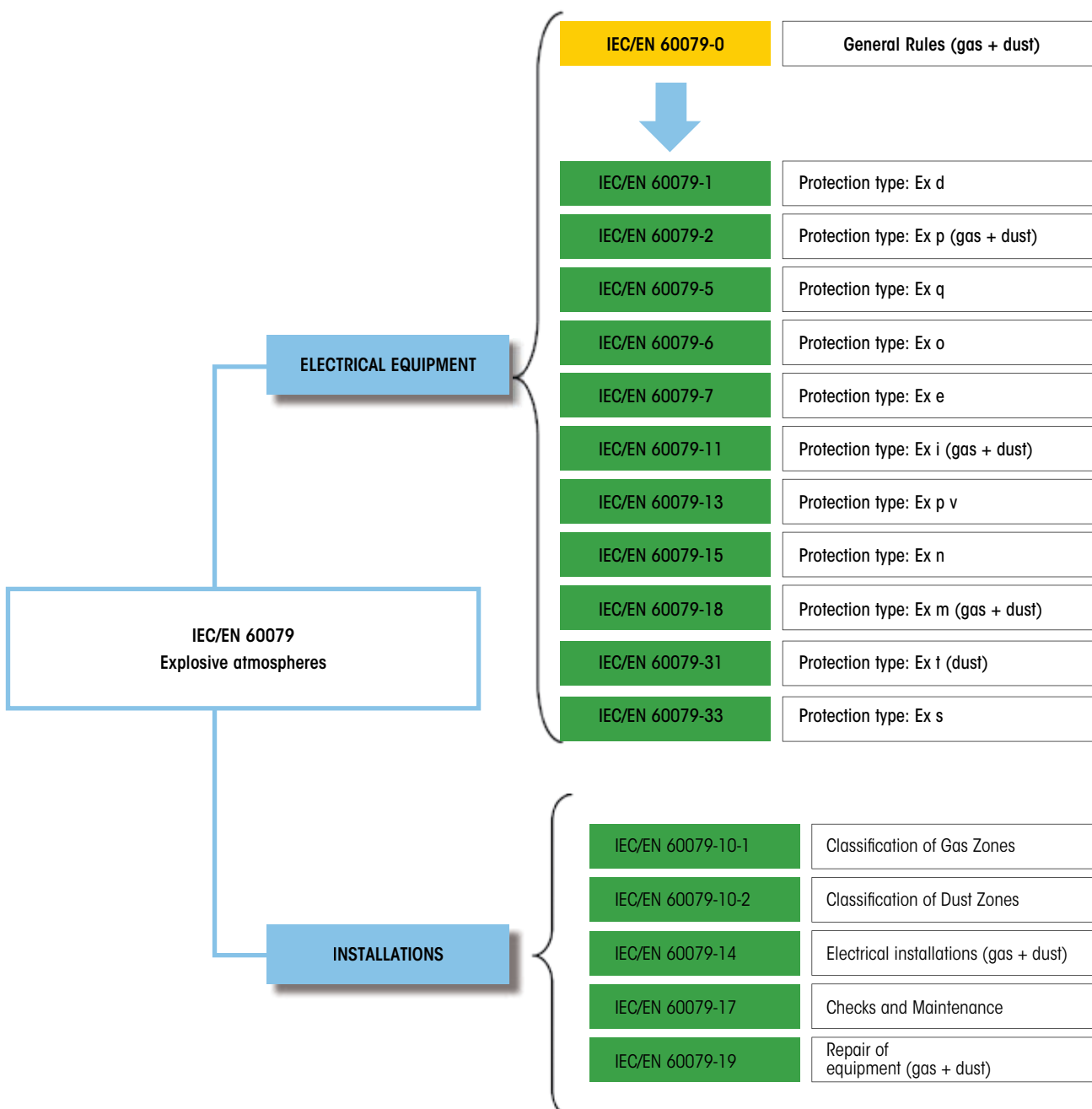




The structure of IEC/EN 60079 standards is such that the series is divided into parts.

Part 0 sets out the general requirements for all equipment. From part 1 onwards the requirements are set out for each specific protection method.

In order to conform to safety requirements, equipment used in hazardous and partially explosive environments should be produced in a specific way to protect people on site. Therefore it should not be able to trigger explosive atmospheres during its normal functioning, in conditions of first fault and/or in conditions of rare fault according to the explosion-proof level (EPL).





## GASES - VAPOURS - MISTS

GROUPING BASED ON MAXIMUM SURFACE TEMPERATURE		
Equipment temperature class	Gas ignition temperature	Maximum allowed surface temperature
T1	> 450 °C	440 °C
T2	> 300 °C	290 °C
T3	> 200 °C	195 °C
T4	> 135 °C	130 °C
T5	> 100 °C	95 °C
T6	> 85 °C	80 °C

EQUIPMENT PROTECTION METHOD		
Equipment Protection Level (Epl)	Equipment does not ignite during operation	Zone
Ga	Normal 1st rare fault	0
Gb	Normal 1st fault	1
Gc	Normal	2

ORDERING BASED ON THE ATMOSPHERE IN WHICH IT IS TO BE INSTALLED	
EQUIPMENT GROUPS	
I	Intended for use in mines with possible presence of firedamp.
II	Intended for use in surfaces with possible presence of Gases. The Group is further subdivided into:
II A	Propane, Methane, Benzene, etc.
II B	Ethylene
II C	Hydrogen, Acetylene

SYMBOL	PROTECTION METHOD	EPL	ZONE
ia	Intrinsic safety	Ga	0
ma	Encapsulation		

SYMBOL	PROTECTION METHOD	EPL	ZONE
d	Devices protected by explosion-proof enclosures	Gb	1
p, px, pz	Devices protected by pressurisation		
q	Powder filling		
o	oil immersion		
e	Increased safety		
ib	Intrinsic safety		
mb	Encapsulation		

SYMBOL	PROTECTION METHOD	EPL	ZONE
pz	Devices protected by pressurisation	Gc	2
ic	Intrinsic safety		
nA	Non-sparking equipment		
nC	Sparking equipment under normal operation		
nR	Restricted breathing enclosures		
mc	Encapsulation		

## DUSTS

GROUPING BASED ON MAXIMUM SURFACE TEMPERATURE	
MAXIMUM TEMPERATURE	
Maximum surface temperature determined without a dust layer	Example T 95 °C
Maximum surface temperature determined for a given thickness of the dust layer, T <sup>1</sup> in mm, that surrounds all sides of the construction	Example T <sub>500</sub> 150 °C
Equipment intended for explosive atmosphere due to dusts are not classified in relation to temperature.	

EQUIPMENT PROTECTION LEVEL		
Equipment Protection Level (Epl)	Equipment does not ignite during operation	Zone
Da	Normal, 1st fault, rare fault	20
Db	Normal, 1st fault	21
Dc	Normal	22

ORDERING BASED ON THE ATMOSPHERE IN WHICH IT IS TO BE INSTALLED	
EQUIPMENT GROUPS	
III	Intended for use in places with explosive atmospheres due to the presence of combustible dust other than mines with possible presence of firedamp. The Group is further subdivided into:
IIIA	Combustible particles (fibres)
IIIB	Non-conductive dust
IIIC	Conductive dust

SYMBOL	PROTECTION METHOD	EPL	ZONE
ia	Intrinsic safety	Da	20
ma	Encapsulation		
ta	Protection by enclosure		

SYMBOL	PROTECTION METHOD	EPL	ZONE
ib	Intrinsic safety	Db	21
mb	Encapsulation		
tb	Protection by enclosure		
pD	'pD' type of protection		

SYMBOL	PROTECTION METHOD	EPL	ZONE
ic	Intrinsic safety	Dc	22
mc	Encapsulation		
tc	Protection by enclosure		
pD	'pD' type of protection		



## MARKING

CE marking is mandatory and must be affixed to any equipment, assembly or protection system (excluding components) before it is placed on the market or put into service. The manufacturer affixes the CE marking on the product that complies with the directive, in accordance with the following indications:

**CE mark + identification number of the Notified Body responsible for supervision +  + Group + Category**

For example: CE<sub>0051</sub>  II 2GD

As regards Category 3, as no intervention of a notified body is envisaged and therefore no CE type testing is required, nor production supervision, the marking will be as follows:

**CE mark +  + Group + Category**

For example: CE  II 3G

The purpose of marking is to inform those that purchase, install, use, maintain, check, etc., that the device has been constructed in compliance with the essential safety requirements, to the level established by the category.

In order to install equipment (whether electrical or not) in a potentially explosive area, it is necessary and sufficient that it is marked as above.

This means that electrical and non-electrical products which do not comply with the harmonised standards (e.g. Ex constructions) may be installed while still compliant with the law and with explosion protection principles.

In this case the equipment will be marked as shown in the examples above.

If, on the other hand, equipment (e.g. electrical equipment) is installed that is compliant with the directive as a consequence of the conformity with harmonised standards, i.e. Ex electrical equipment that are consequently presumed to comply with the Essential Safety Requirements, the ATEX marking requirements must be affixed in accordance with the following indications:


**CE mark + identification number of the Notified Body responsible for supervision +  + Group + Category + Ex mark**

Example 1: CE<sub>0051</sub>  II 2G Ex de IIC T5 Gb

Example 2: CE<sub>0051</sub>  II 2D Ex tb IIIC T 100°C Db IP66

Example 3: CE  II 3G Ex nR IIC T6 Gc

A complete marking of an Ex electrical equipment, in conformity with directive 94/9/EC, must show the following:

ABCD SpA, Via Moro 2, Milan (manufacturer's name and address)  
MRT – 1234 – 2004 (type, serial or batch number, year)  
CE0722 (CE mark, number of the Notified Body responsible for manufacturing supervision)  
 II 2G (group, category)  
Ex d IIB T4 Gb (protection method, gas group, EPL temperature class)  
CESI 02 ATEX 0999 (CE type test certificate number)  
Characteristic parameters (supply voltage, frequency, etc.)



Palazzoli's ATEX products are designed and manufactured to avoid the risk of ignition.

Each coded item is recognised and certified in accordance with the **2014/34/EU Directive** as a guarantee of its suitability to be installed in potentially explosive environments.

Each enclosure of the an ATEX product is subjected to the following tests in accordance with **EN 60079-0**:



- 1) **THERMAL TEST**  
to determine the maximum service temperature of the product.



- 2) **THERMAL ENDURANCE TEST**  
in a climatic chamber at the maximum service temperature measured in the previous test at 90% humidity for a period of 4 weeks, and at the minimum temperature of -25°C to -30°C for one day.



- 3) **IMPACT TEST**  
tested at +10°C to 15°C and -5°C to -10°C compared to the maximum service temperature.



- 4) **IPXX PROTECTION RATING TESTS**  
(dust and water).



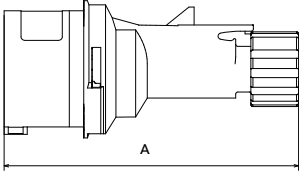
- 5) **TESTS ON SPECIFIC PROTECTION TYPES**  
(pressure test, restricted breathing test, dielectric tests...)





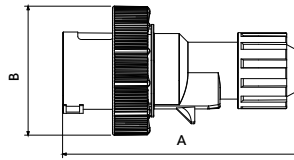
## MULTIMAX series

### IP44 plugs



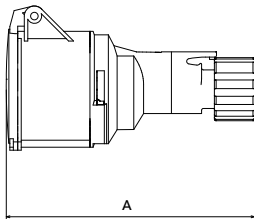
Rated current (A)	No. of poles	A (mm)
16	2P+⊕	127
	3P+⊕	134
	3P+N+⊕	142
32	2P+⊕	154
	3P+⊕	154
	3P+N+⊕	173

### IP67 plugs



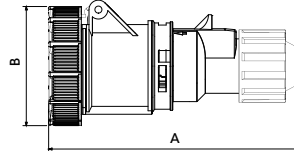
Rated current (A)	No. of poles	A (mm)	B (mm)
16	2P+⊕	135	69.5
	3P+⊕	140	77.5
	3P+N+⊕	150	85.5
32	2P+⊕	165	92
	3P+⊕	165	92
	3P+N+⊕	170	98.5
63	2P+⊕	250	111
	3P+⊕	250	111
	3P+N+⊕	250	111

### IP44 mobile socket-outlets



Rated current (A)	No. of poles	A (mm)
16	2P+⊕	134
	3P+⊕	143
	3P+N+⊕	151
32	2P+⊕	163
	3P+⊕	163
	3P+N+⊕	182

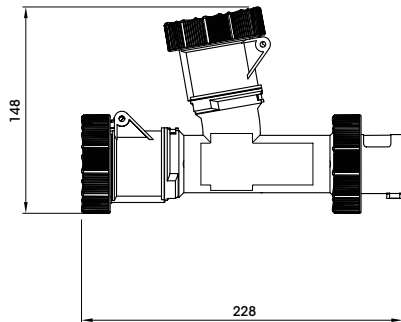
### IP67 mobile socket-outlets



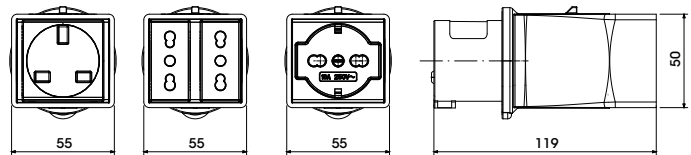
Rated current (A)	No. of poles	A (mm)	B (mm)
16	2P+⊕	145	69.5
	3P+⊕	150	77.5
	3P+N+⊕	165	85.5
32	2P+⊕	180	92
	3P+⊕	180	92
	3P+N+⊕	185	98.5
63	2P+⊕	270	111
	3P+⊕	270	111
	3P+N+⊕	270	111

## MULTIPLAY series

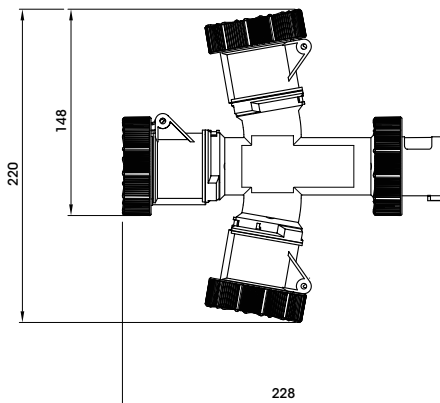
### Multipliers with 2 outlets



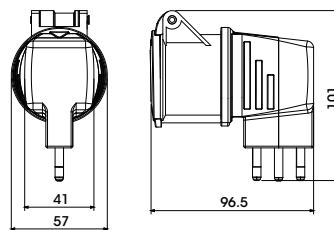
### Adaptor with industrial plug



### Multipliers with 3 outlets

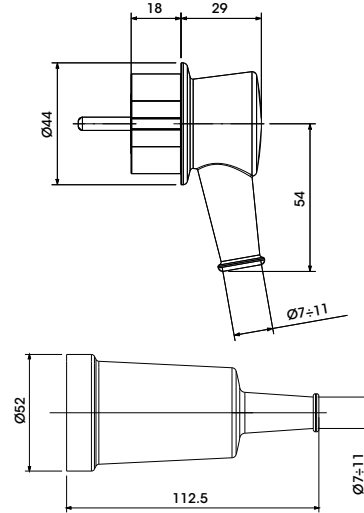
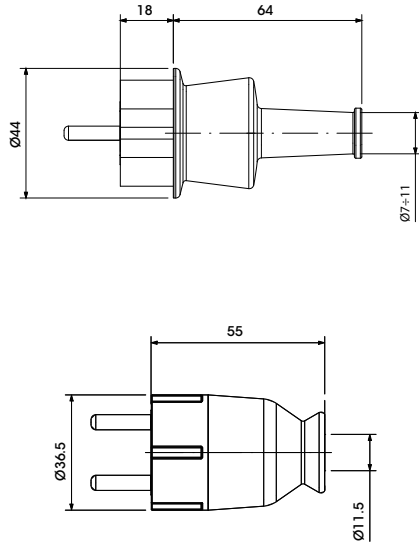


### Adaptor with domestic plug



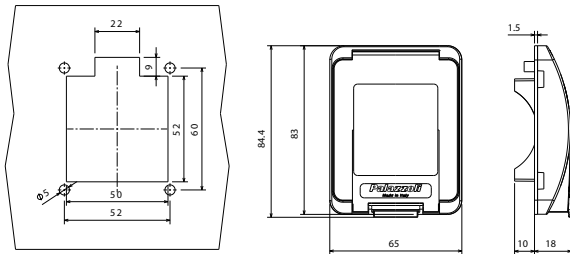


SPIN series

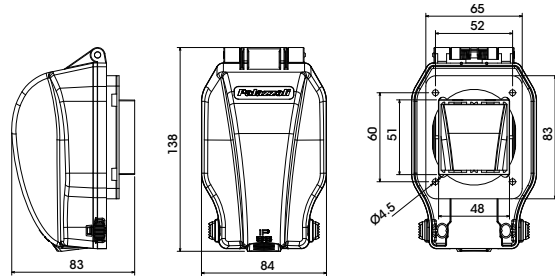


topTER series

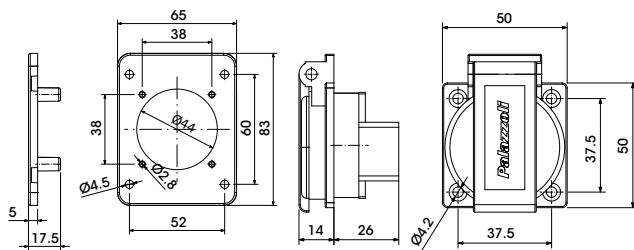
IP66 cap



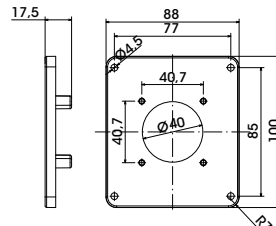
IP66 cap



Flange and international domestic sockets



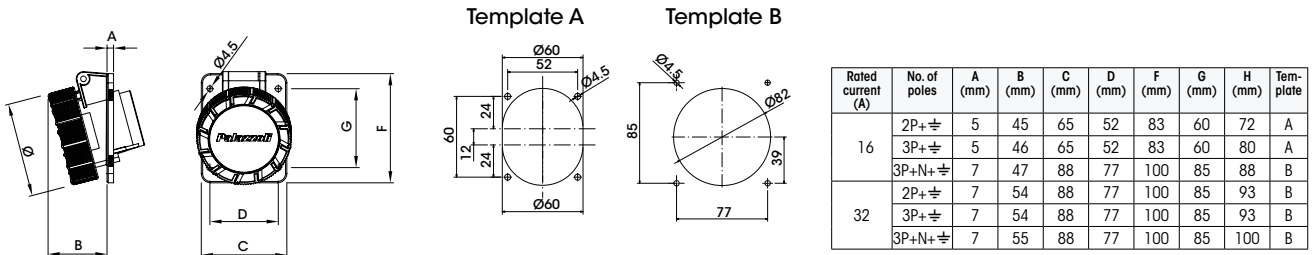
Flange for extra low voltage sockets



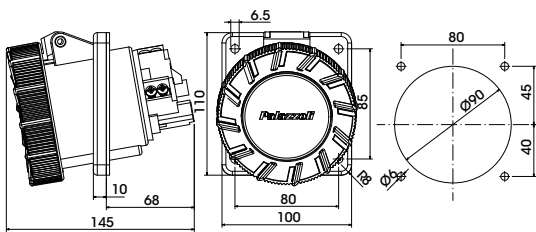


## topTER series

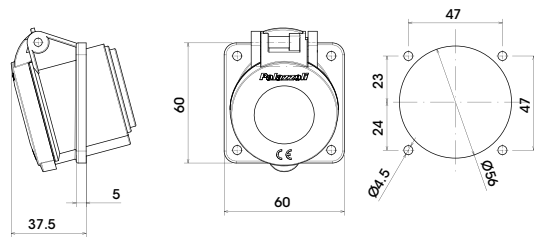
### 16A/32A sockets



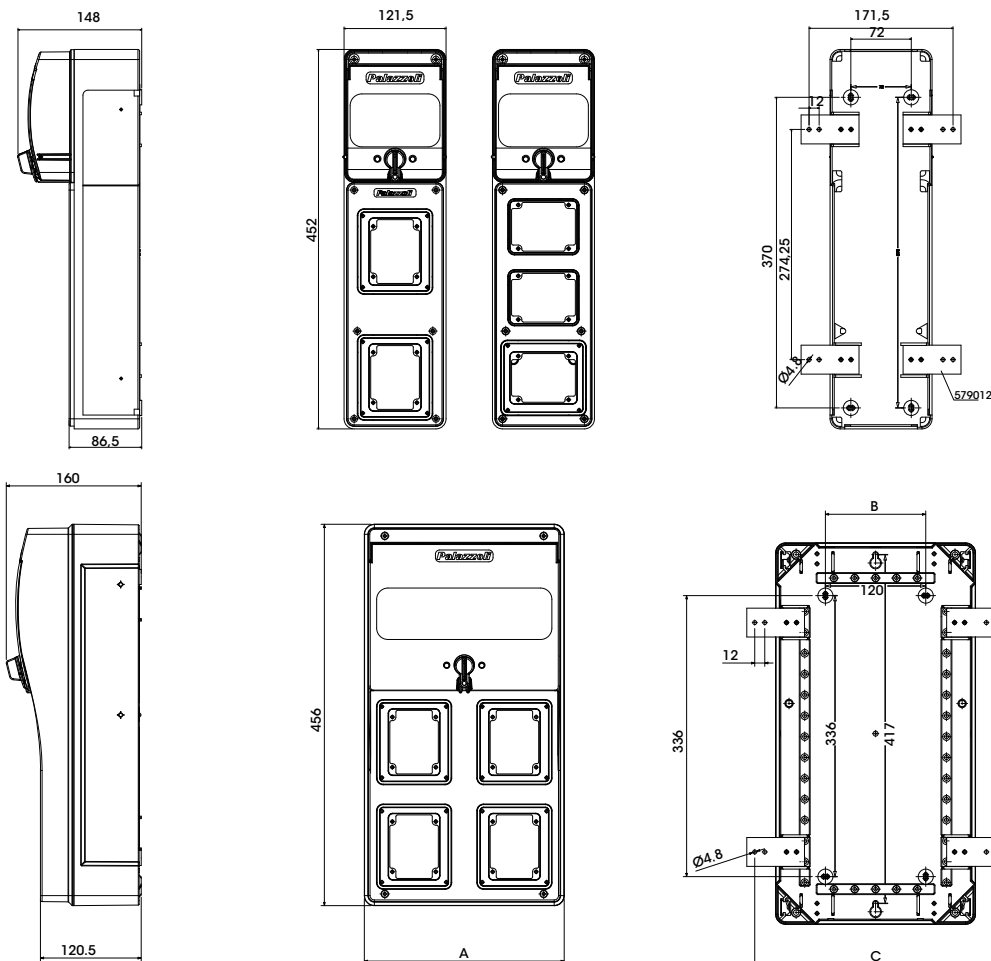
### 63A fixed socket-outlets



### Compact panel-mounted sockets



### Boards

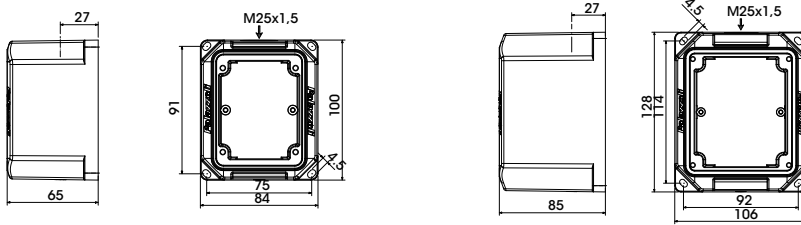


Code	A (mm)	B (mm)	C (mm)
579824	239	120	289
579826	350	230	400
579828	461	340	511
579863	239	120	289
579865	350	230	400

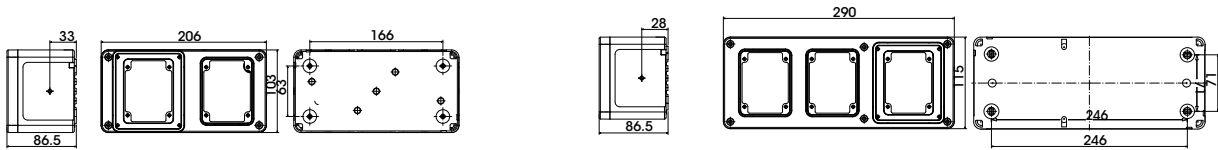


topTER series

Individual back boxes code 579750 and code 579751

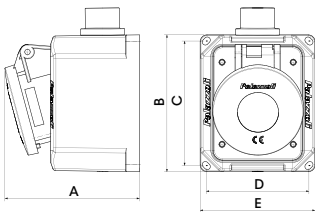


Multiple back boxes

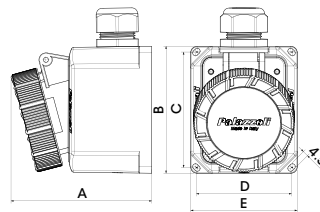


topTER series for wall-mounting

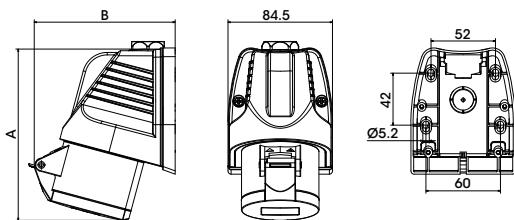
15° angled IP44 sockets



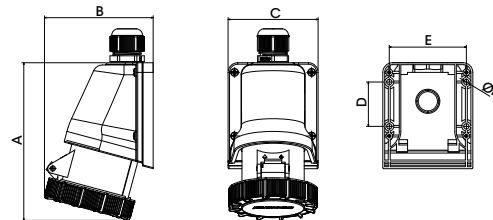
15° angled IP66/IP67 sockets



90° angled IP44 sockets



90° angled IP67 sockets



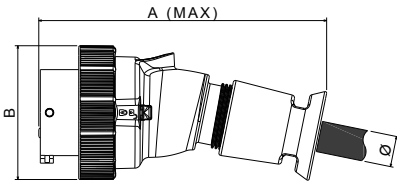
Rated current (A)	No. of poles	A (mm)	B (mm)
16	2P+≐	136	112
	3P+≐	137	112
	3P+N+≐	138	114
32	2P+≐	150	115
	3P+≐	150	115
	3P+N+≐	152	115

Rated current (A)	No. of poles	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)
16	2P+≐	150	107	93.5	46	62	5.5
	3P+≐	150	110	93.5	46	70	5.5
	3P+N+≐	151	114	93.5	46	77	5.5
32	2P+≐	162	116	93.5	46	85	5.5
	3P+≐	162	116	93.5	46	85	5.5
	3P+N+≐	163	119	99	46	90	5.5
63	2P+≐	230	171	118	158	100	6
	3P+≐	230	171	118	158	100	6
	3P+N+≐	230	171	118	158	100	6



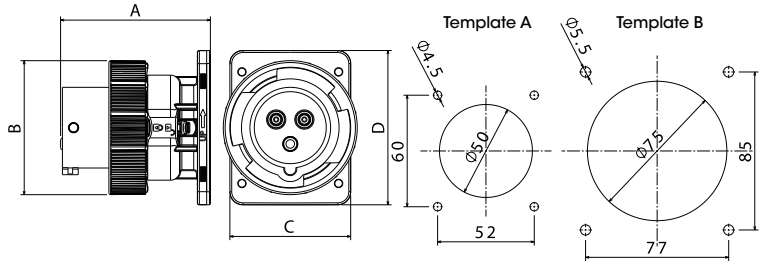
X-CEE series

Plugs



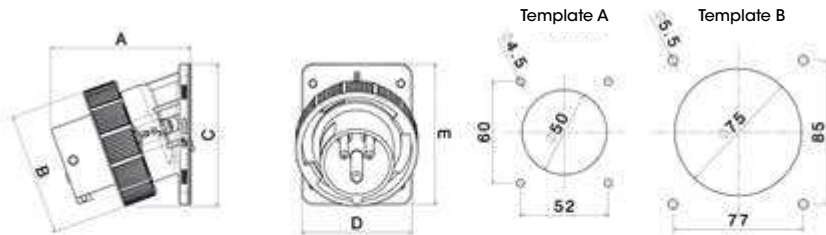
Rated current (A)	No. of poles	A (mm)	B (mm)	Ø (mm)
16	2P+⊕	167	72	6.3-18
	3P+⊕	173.5	80	
	3P+N+⊕	186.5	87	9-23
32	2P+⊕	194	93	9-23
	3P+⊕	207	100	13-27
	3P+N+⊕			

Straight panel-mounted inlets



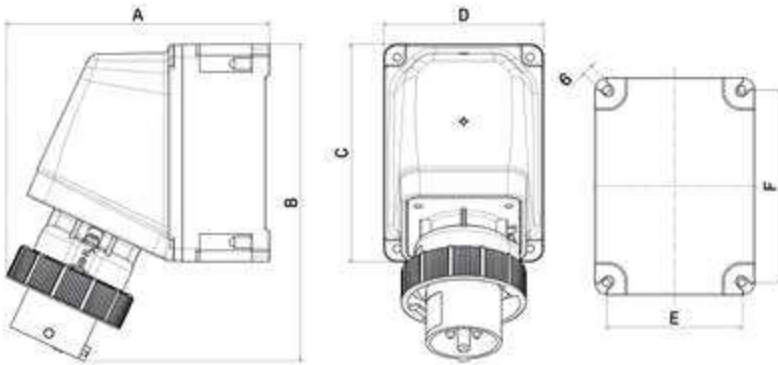
Rated current (A)	No. of poles	A (mm)	B (mm)	C (mm)	D (mm)	Template
16	2P+⊕	81	72	65	83	A
	3P+⊕	82	80			
	3P+N+⊕	84	87			
32	2P+⊕	91	93	100	108	B
	3P+⊕	93.5	100			
	3P+N+⊕					

20° angled panel-mounted inlets



Rated current (A)	No. of poles	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	Template
16	2P+⊕	83	72	84	65	83	A
	3P+⊕	84	80	88			
	3P+N+⊕	89	87	92			
32	2P+⊕	95	93	96	100	108	B
	3P+⊕	100	100	115			
	3P+N+⊕						

65° angled wall-mounted inlets



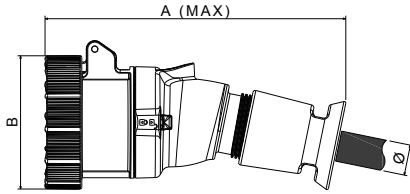
Rated current (A)	No. of poles	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)
16	2P+⊕	152	183	125	92	78	111
	3P+⊕	156	185				
	3P+N+⊕	160	189				
32	2P+⊕	163	195	185	125	111	171
	3P+⊕	207	239				
	3P+N+⊕						





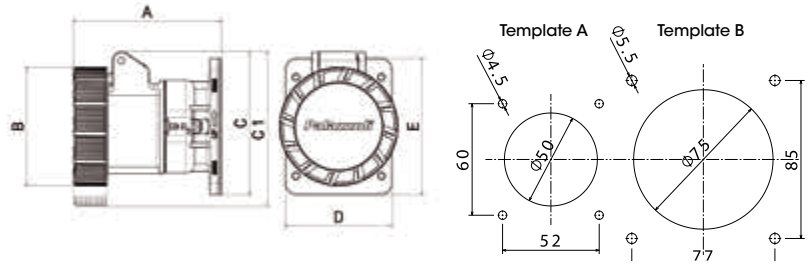
X-CEE series

Couplers



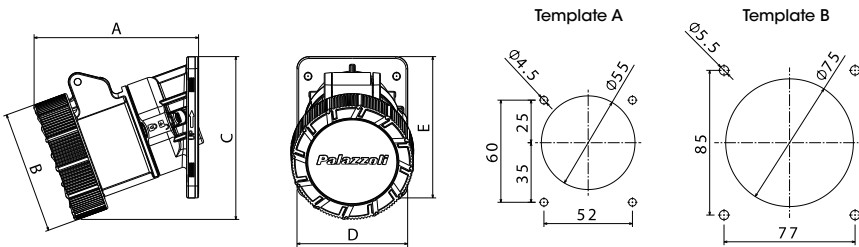
Rated current (A)	No. of poles	A (mm)	B (mm)	∅ (mm)
16	2P+≋	176	72	6.3-18
	3P+≋	183	80	
	3P+N+≋	197	87	
32	2P+≋	207	93	9-23
	3P+≋	221	100	
	3P+N+≋	221	100	

Straight panel-mounted sockets



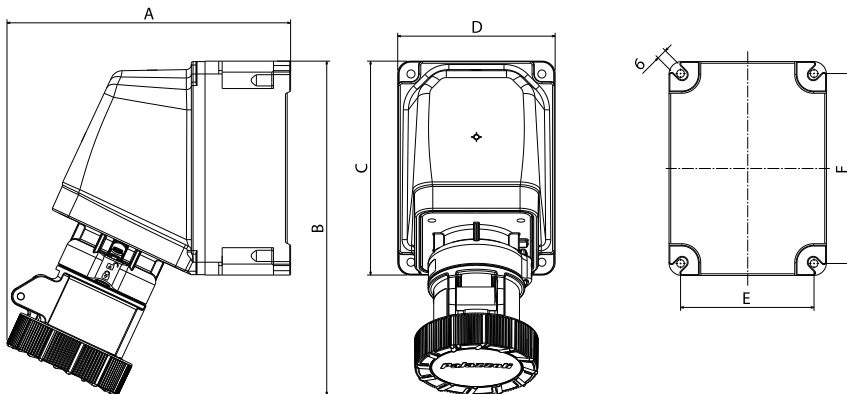
Rated current (A)	No. of poles	A (mm)	B (mm)	C (mm)	D (mm)	Template
16	2P+≋	81	72	65	83	A
	3P+≋	82	80			
	3P+N+≋	84	87			
32	2P+≋	91	93	100	108	B
	3P+≋	93.5	100			
	3P+N+≋	93.5	100			

20° angled panel-mounted sockets



Rated current (A)	No. of poles	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	Template
16	2P+≋	97	72	96	65	83	A
	3P+≋	99	80	100			
	3P+N+≋	103	87	104			
32	2P+≋	113	93	110	100	108	B
	3P+≋	118	100	130			
	3P+N+≋	118	100	130			

65° angled wall-mounted sockets

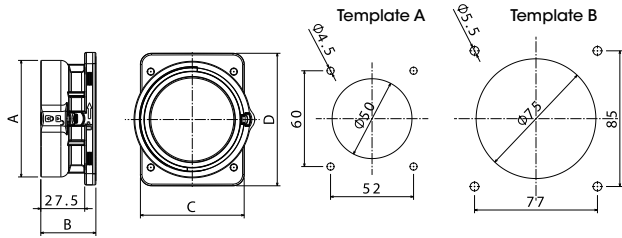


Rated current (A)	No. of poles	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)
16	2P+≋	166	196	125	92	78	111
	3P+≋	170	198				
	3P+N+≋	173	200				
32	2P+≋	180	210	185	125	111	171
	3P+≋	225	257				
	3P+N+≋	225	257				



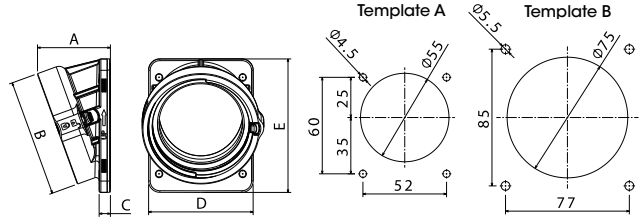
**X-CEE series**

**Straight panel-mounted flanges**



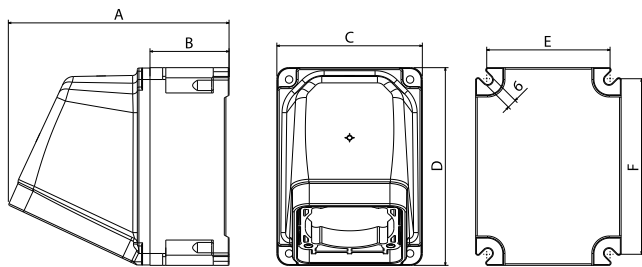
Rated current (A)	No. of poles	A (mm)	B (mm)	C (mm)	D (mm)	Tem-plate
16	2P+ $\pm$	56.5	34.5	65	83	A
	3P+ $\pm$	64				
	3P+N+ $\pm$					
32	2P+ $\pm$	73	100	100	108	B
	3P+ $\pm$					
	3P+N+ $\pm$	80				

**20° angled panel-mounted flanges**



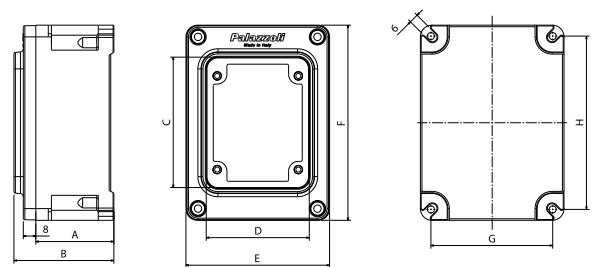
Rated current (A)	No. of poles	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	Tem-plate
16	2P+ $\pm$	42	56.5	7	65	83	A
	3P+ $\pm$	44	64				
	3P+N+ $\pm$						
32	2P+ $\pm$	45	73	9	100	108	B
	3P+ $\pm$						
	3P+N+ $\pm$	48.5	80				

**65° angled wall-mounted boxes**



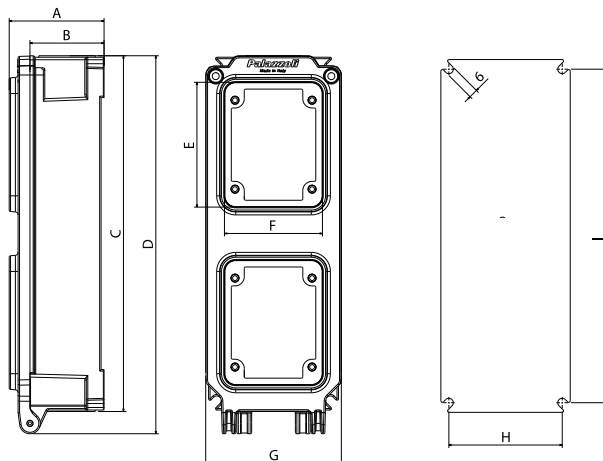
	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)
532101	140	50	92	125	78	111
532102	190	75	125	185	111	171

**Wall-mounted single gang boxes**



	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	G (mm)	H (mm)
532101	50	64	83	65	92	125	78	111
532102	75	91	108	100	125	185	111	171

**Wall-mounted double gang boxes**

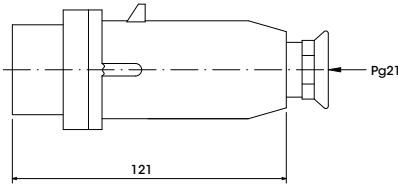


	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	G (mm)	H (mm)	I (mm)
532201	64	50	240	255	83	65	92	78	225
532202	91	75	335	352	108	100	125	109	319

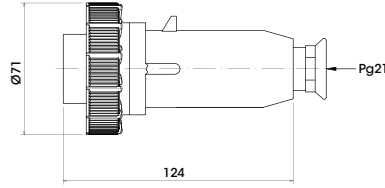


**CEE series for extra low voltage**

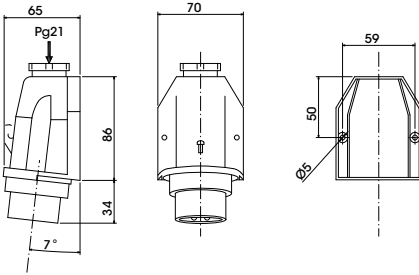
**Straight mobile plugs IP44**



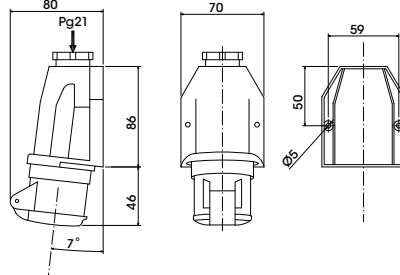
**Straight mobile plugs IP67**



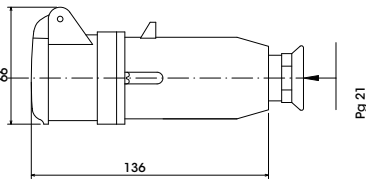
**90° angled wall-mounted fixed plugs**



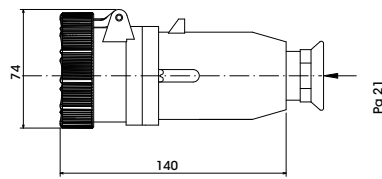
**90° angled wall-mounted fixed socket-outlets**



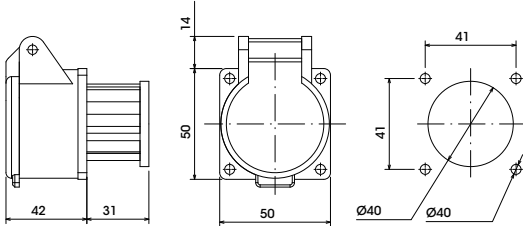
**Straight mobile socket-outlets IP44**



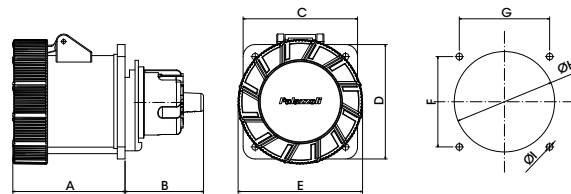
**Straight mobile socket-outlets IP67**



**Flush-mounted sockets IP44**

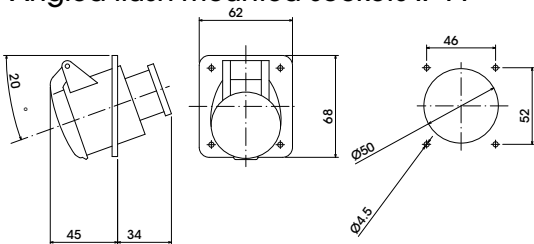


**Flush-mounted sockets IP67**

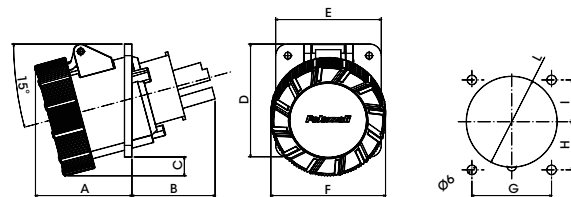


Rated current (A)	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	G (mm)	H (mm)	I (mm)
16	44	28	50	50	73	41	41	40	4.5
32	44	28	50	50	73	41	41	40	4.5
63	96	64	100	108	110	85	77	85	6.5
125	113	78	114	114	126	90	90	98	6.5

**Angled flush-mounted sockets IP44**



**Angled flush-mounted sockets IP67**

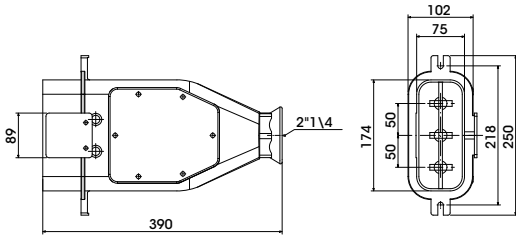


Rated current (A)	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	G (mm)	H (mm)	I (mm)	L (mm)
63	80	80	10	108	100	109	77	46	39	86
125	101	82	20	114	114	128	90	47	43	96

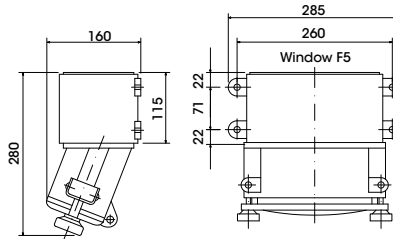


## ALUPRES series

### Mobile plugs

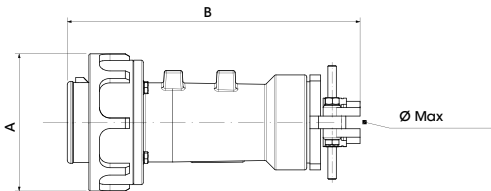


### Fixed socket-outlets

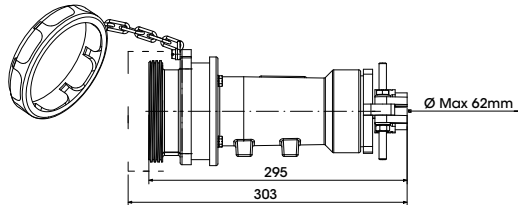


## ALUMAX series

### Mobile plugs

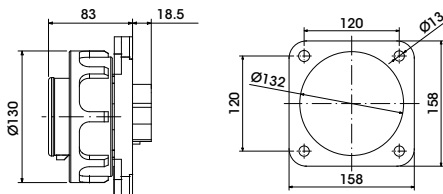


### Mobile socket-outlets

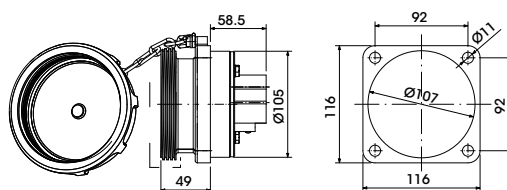


Rated current (A)	A (mm)	B (mm)	ØMax
250A	130	287.5	62
320/400A	155	378	80

### Fixed plugs



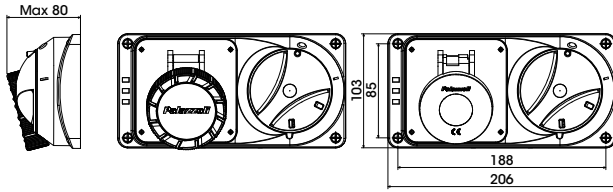
### Fixed socket-outlets



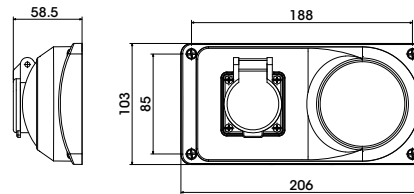


## PRIMA series

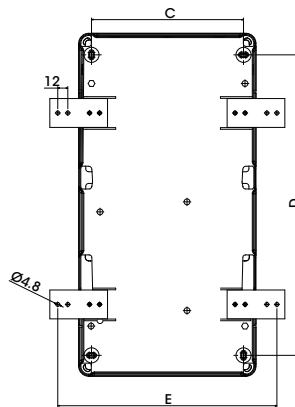
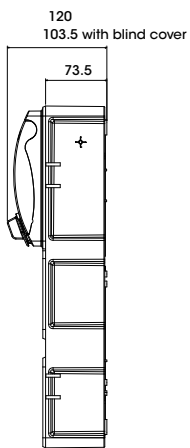
### Socket-outlets with switch



### Socket-outlets with transformer



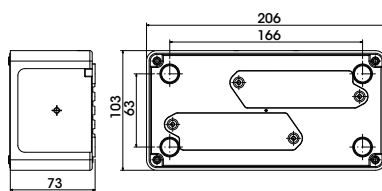
### Boards



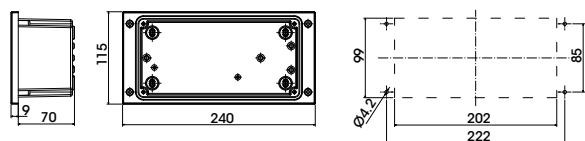
Code	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)
579602	280	424	393	230	474
579620	410	212	182	360	262
579621	410	212	182	360	262
579640	410	424	393	360	474
579641	410	424	393	360	474
579642	410	424	393	360	474

### Back boxes and flanges

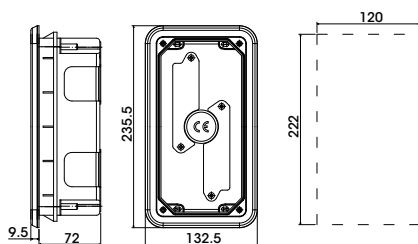
code 579500



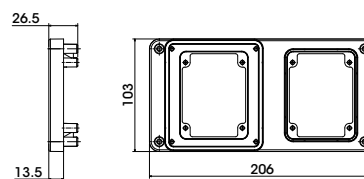
code 575501



code 579510



code 579718

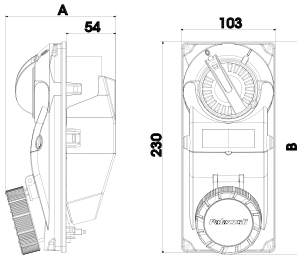






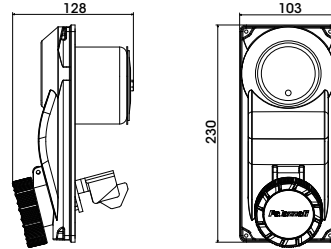
## topTER series

### Socket-outlets with switch

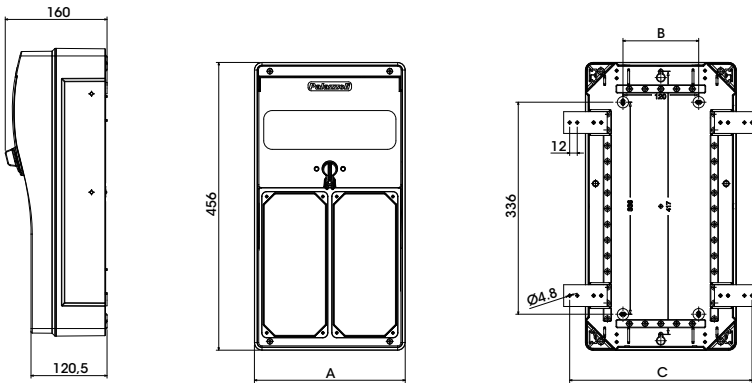


Rated current (A)	No. of poles	A (mm)	B (mm)
16	2P+⊕	120	232
	3P+⊕	123	233
	3P+N+⊕	127	234
32	2P+⊕	135	237
	3P+⊕	135	237
	3P+N+⊕	140	238

### 24V sockets with transformer

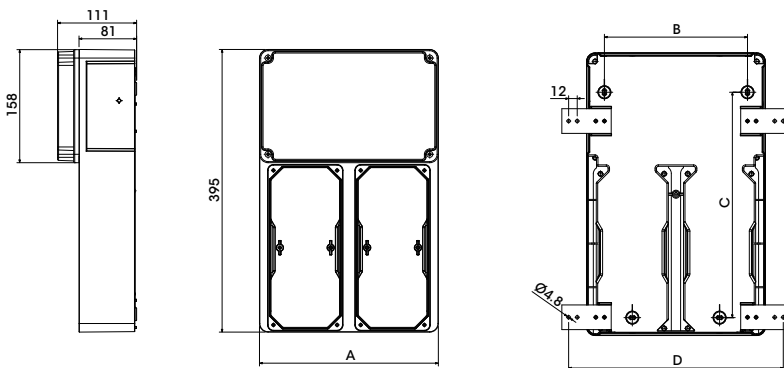


### Boards with transparent window



Code	A (mm)	B (mm)	C (mm)
579742	239	120	289
579743	350	230	400
579744	461	340	511

### Boards with blind cover



Code	A (mm)	B (mm)	C (mm)	D (mm)
579721	122	72	275	172
579722	250	200	315	300
579723	380	330	315	430

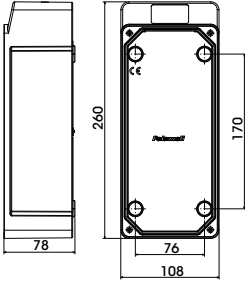


# INTERLOCKED SOCKET-OUTLETS

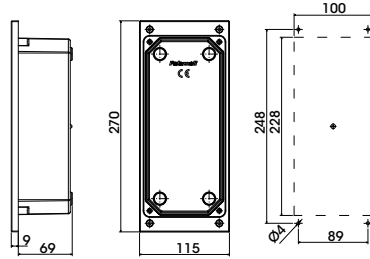
## topTER series

Boxes and flanges

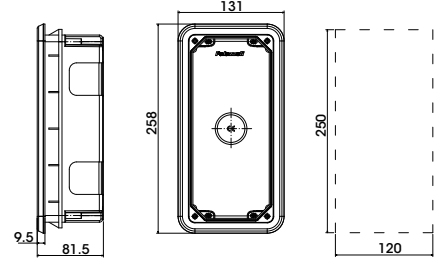
code 579710



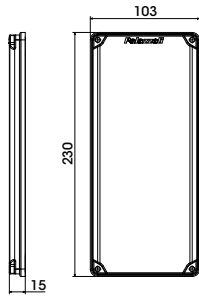
code 579711



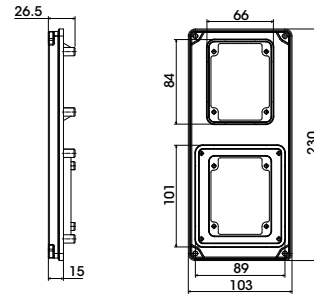
code 579712



code 579713



code 579714

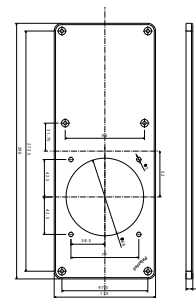
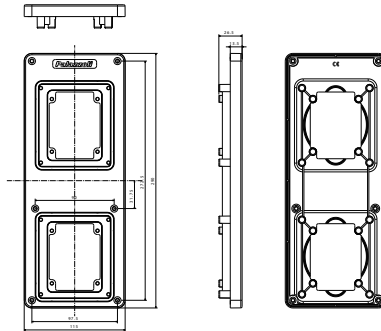
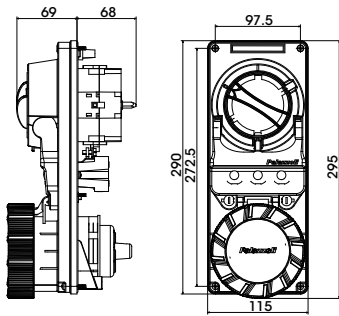


## topTER 63A series

Interlocked socket-outlets

code 579719

code 579910

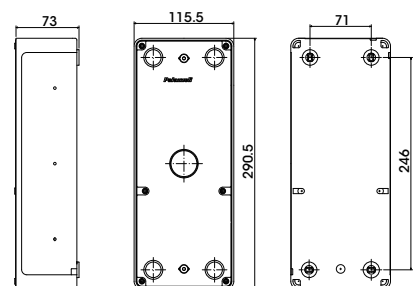
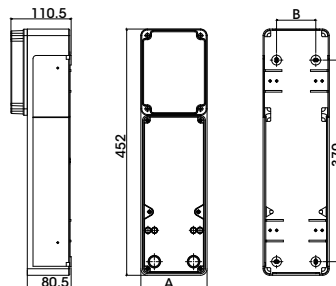
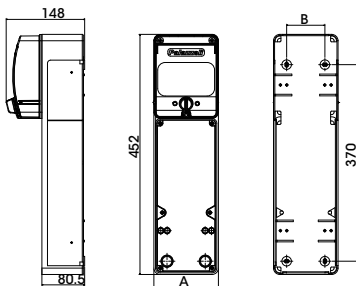


Boards and boxes

code 579631

code 579421

code 579400



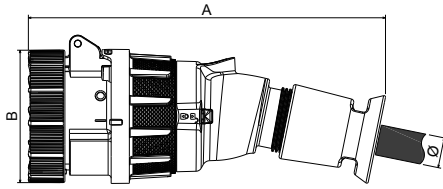
Code	A (mm)	B (mm)
579631	121.5	72
579622	250	200
579623	378.5	328.5

Code	A (mm)	B (mm)
579421	121.5	72
579422	250	200
579423	378.5	328.5



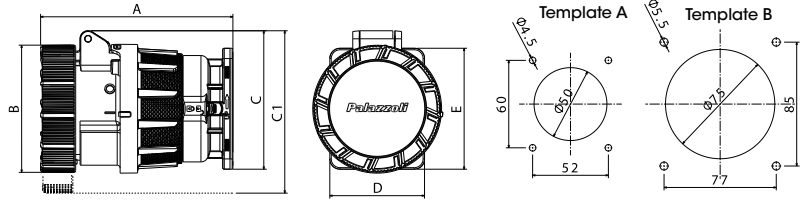
## X-CEE series

### Rotoswitched couplers



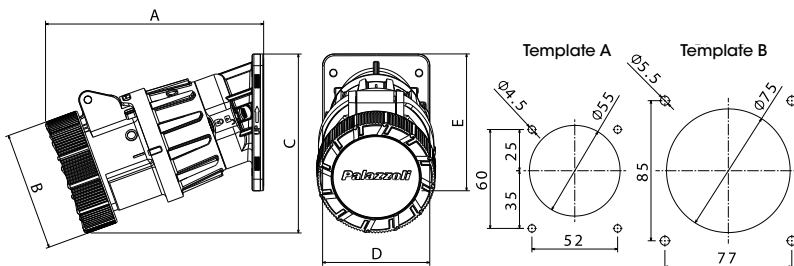
Rated current (A)	No. of poles	A (mm)	B (mm)	Ø (mm)
16	2P+⊕	214	72	6.3-18
	3P+⊕	222	80	
	3P+N+⊕	235	87	9-23
32	2P+⊕	250	93	9-23
	3P+⊕			
	3P+N+⊕	264	100	13-27

### Straight panel-mounted rotoswitched sockets



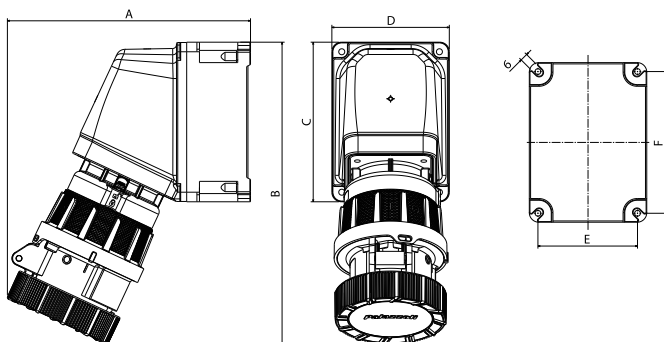
Rated current (A)	No. of poles	A (mm)	B (mm)	C (mm)	C1 (mm)	D (mm)	E (mm)	Template
16	2P+⊕	129	72	87		65	83	A
	3P+⊕		80	91				
	3P+N+⊕		87	97				
32	2P+⊕	146	93	97.5	102.5	100	108	B
	3P+⊕							
	3P+N+⊕							

### 20° angled panel-mounted rotoswitched sockets



Rated current (A)	No. of poles	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	Template
16	2P+⊕	133	72	109	65	83	A
	3P+⊕	135	80	113			
	3P+N+⊕	139	87	117			
32	2P+⊕	152	93	125	100	108	B
	3P+⊕						
	3P+N+⊕						

### 65° angled wall-mounted rotoswitched sockets

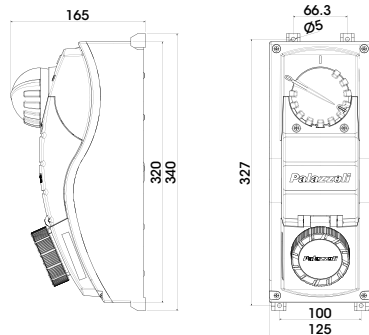


Rated current (A)	No. of poles	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)
16	2P+⊕	182	230	125	92	78	111
	3P+⊕	186	233				
	3P+N+⊕	191	237				
32	2P+⊕	200	250	185	125	111	171
	3P+⊕						
	3P+N+⊕						

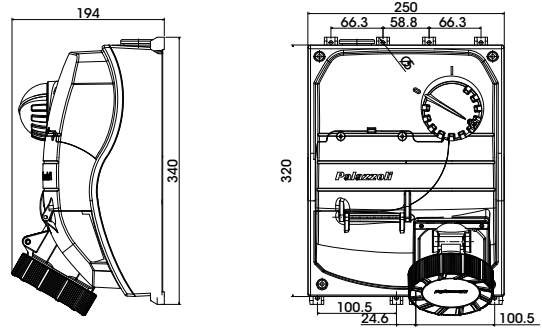


## ULYSSE series

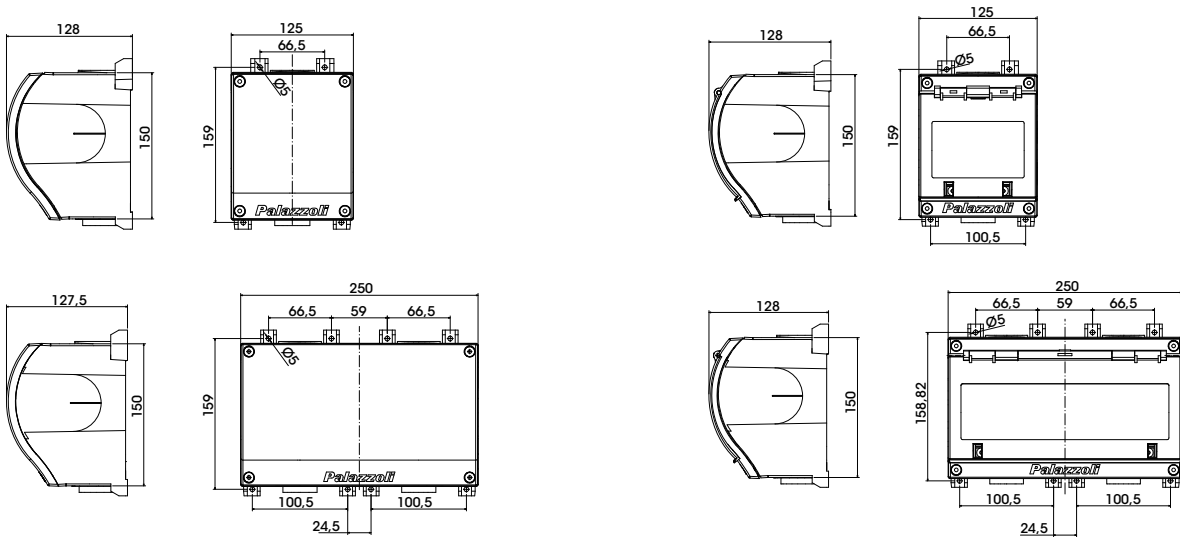
### 16A/32A socket-outlets with switch



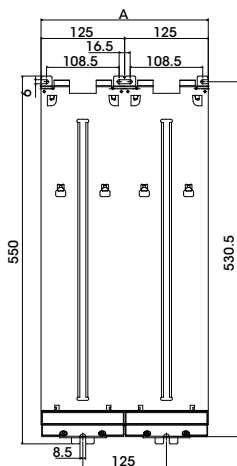
### 63A socket-outlets with switch



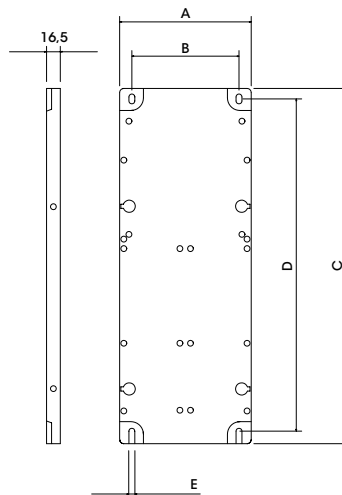
## Boxes



## Back plates in steel and thermosetting GRP



Code	A (mm)
415901	125
415902	250
415903	375
415904	500



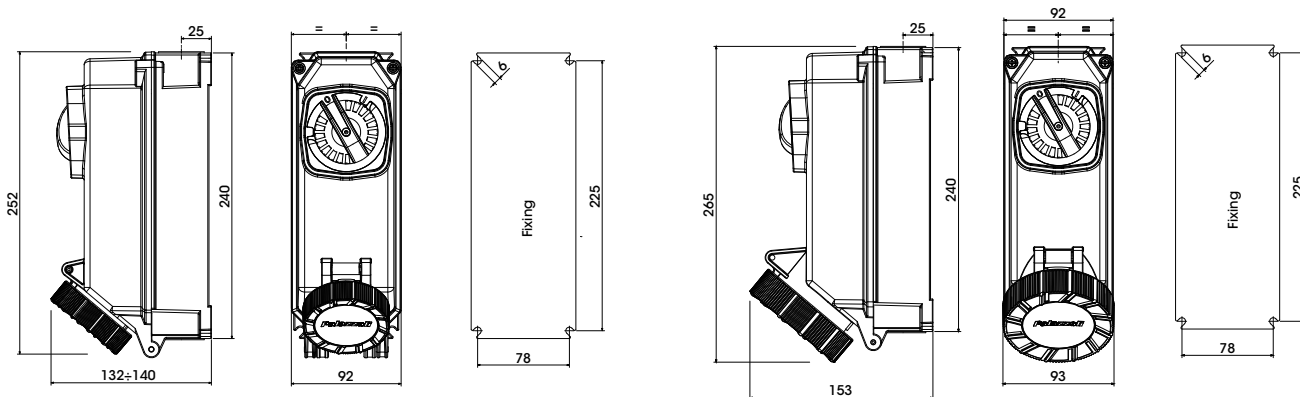
Code	A (mm)	B (mm)	C (mm)	D (mm)
415801	125	90	540	515
415802	250	215	540	515



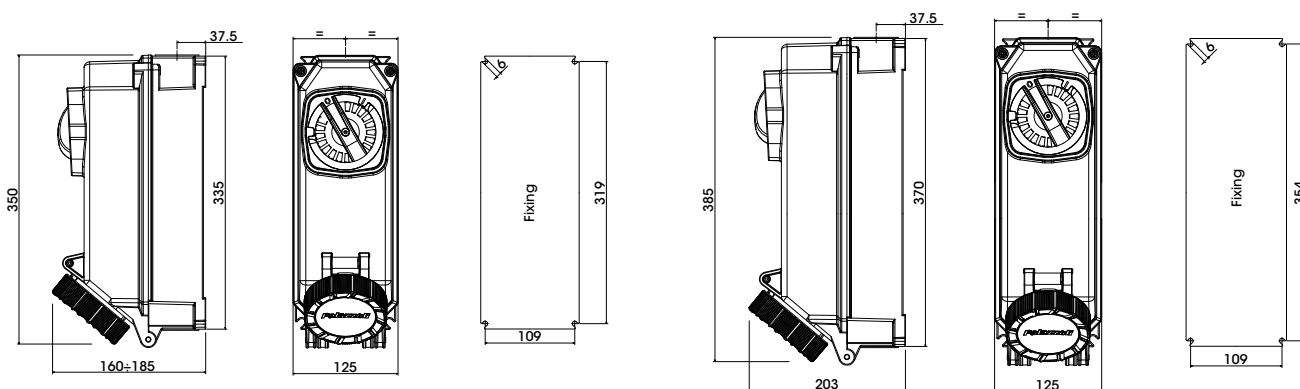
# INTERLOCKED SOCKET-OUTLETS

## TAIS series

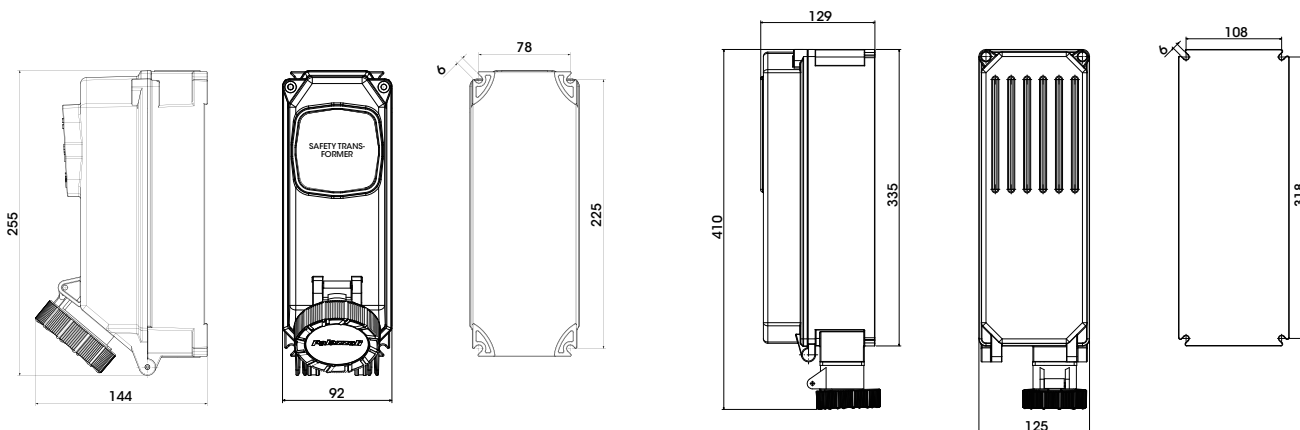
### Interlocked socket-outlets - Module 95, 16A - 32A



### Interlocked socket-outlets - Module 125, 16A/32A - 63A



### 24V sockets with transformer

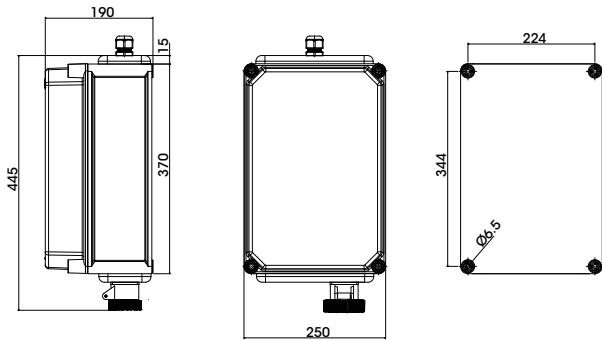




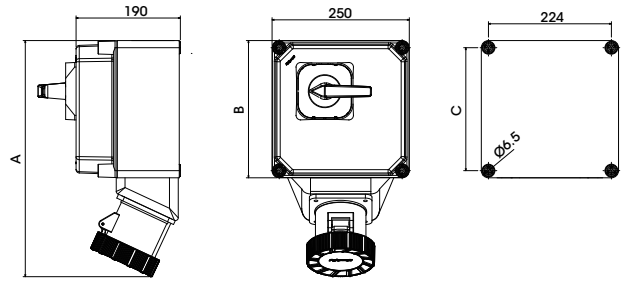


## TAIS series

### 48V socket with transformer

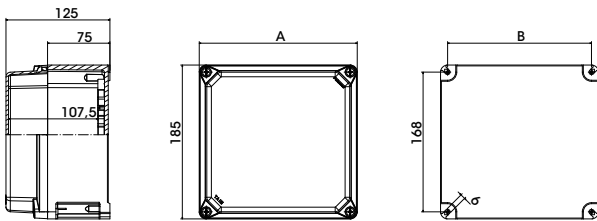


### Socket-outlets with electrical interlock



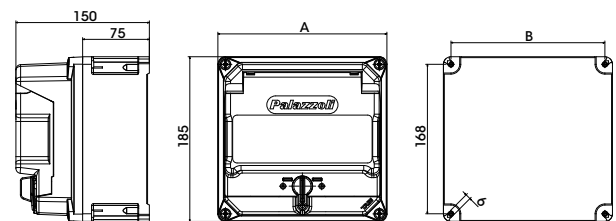
Code	A (mm)	B (mm)	C (mm)
478336	402	250	224
478346	402	250	224
478436	425	250	224
478446	425	250	224
476336	520	370	344
476346	520	370	344
476436	544	370	344
476446	544	370	344

### Blind boxes



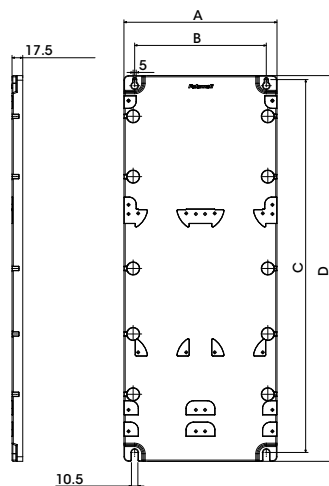
Code	A (mm)	B (mm)
532200	125	108
532201	190	173
532202	250	233
532203	290	273
532204	380	363

### Boxes with window



Code	A (mm)	B (mm)
532300	125	108
532301	190	173
532302	250	233
532303	290	273
532304	380	363

### Back plates in thermosetting GRP

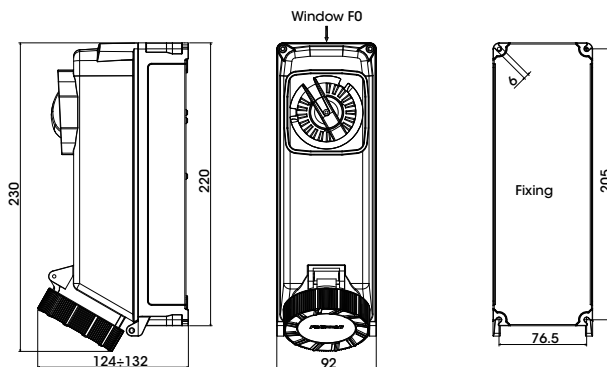


Code	A (mm)	B (mm)	C (mm)	D (mm)
538800	125	90	609	630
538801	190	155	480	500
538802	250	215	609	630
538803	290	255	483	500
538804	380	345	609	630

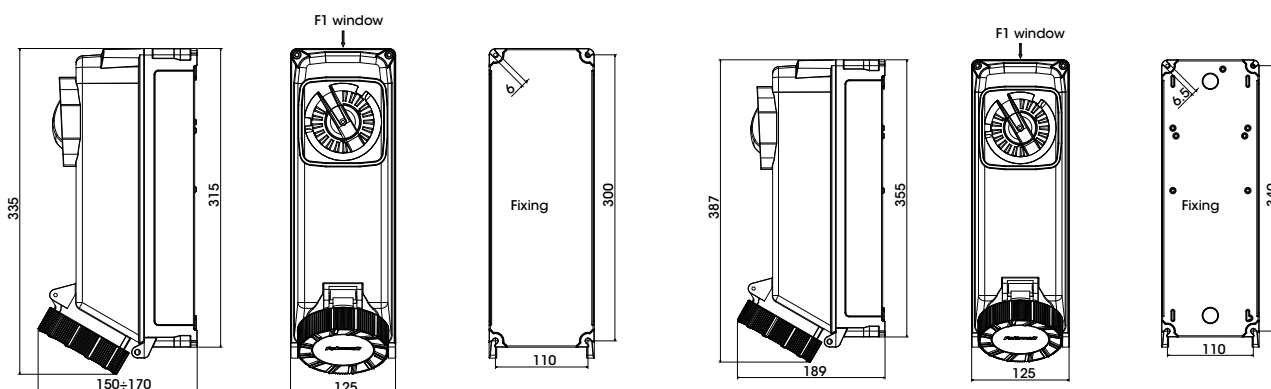


## ALUPRES series

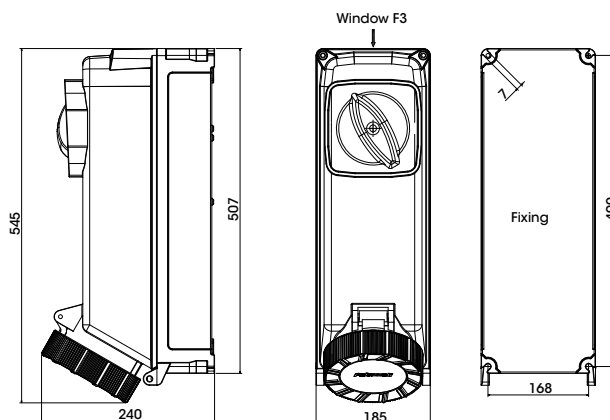
### Interlocked socket-outlets - Module 92 - 16A



### Interlocked socket-outlets - Module 125, 16A/32A - 63A



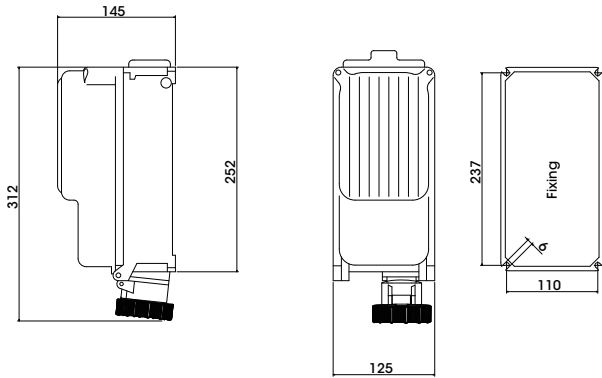
### Interlocked socket-outlets - Module 185 - 125A



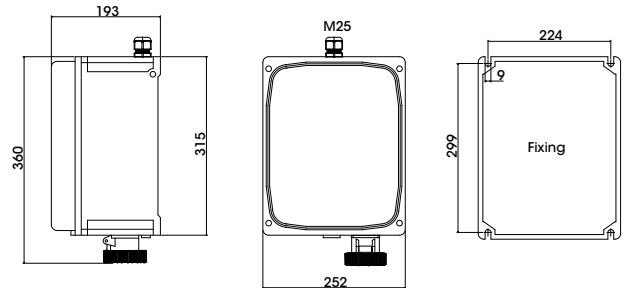


## ALUPRES series

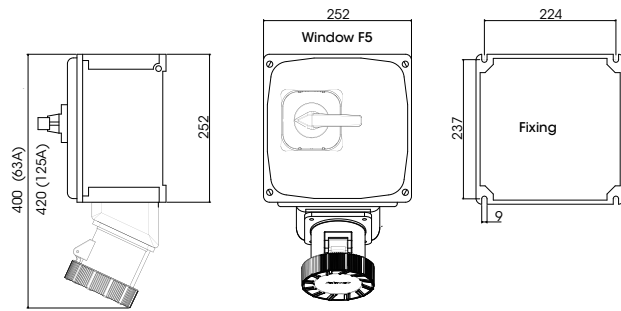
### 24V socket with transformer



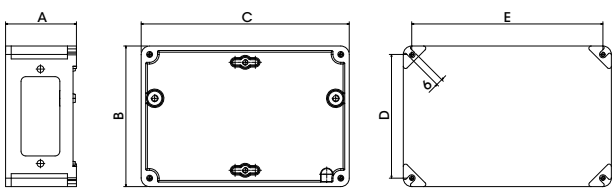
### 48V socket with transformer



### Socket-outlets with electrical interlock

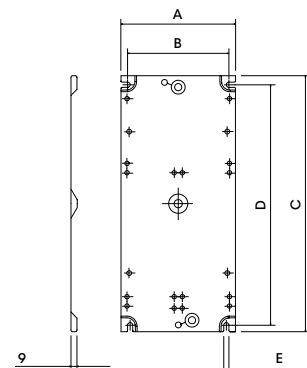


### Boxes



Outer dimensions (mm)	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)
92x92	42	92	92	78	78
125x92	42	92	125	78	111
185x92	42	92	185	78	171
125x125	63	125	125	111	111
185x125	63	125	185	111	171
252x125	63	125	252	111	238

### Steel back plates



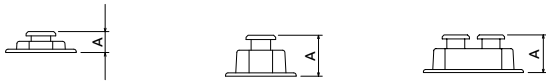
Code	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)
532876	125	97	558	530	10
532806	185	162	389	366	8
532816	276	253	389	366	8
532826	185	162	421	398	8
532836	250	222	558	530	10
532846	375	347	558	530	10
532856	310	282	558	530	10
532866	435	407	558	530	10



# INTERLOCKED SOCKET-OUTLETS

## ALUPRES series

### Flanges with gas thread

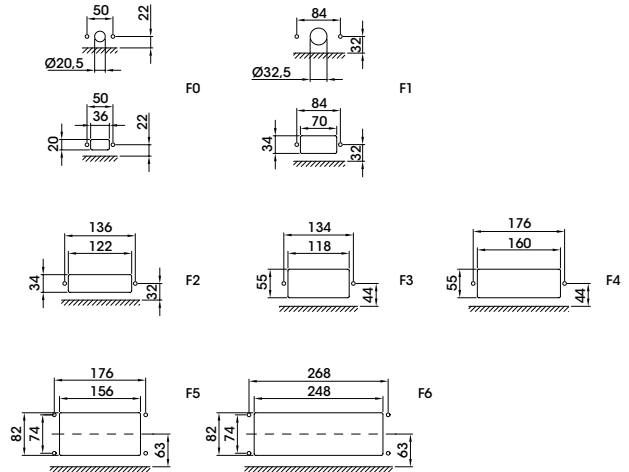


Codes	A (mm)
541010	23
541020	29
541080	31
541090	33
541030	34
541011	29
541021	33
541040	36

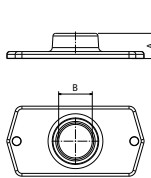
Codes	A (mm)
540151	63
540141	63
540152	63
540142	64
540153	82
540154	88
540145	124
540156	154

Codes	A (mm)
540161	57
540162	62
540172	63
540163	79
540164	124
540165	154
540166	36

### Windows and holes

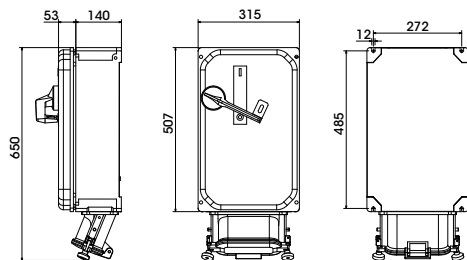


### Flanges with metric thread



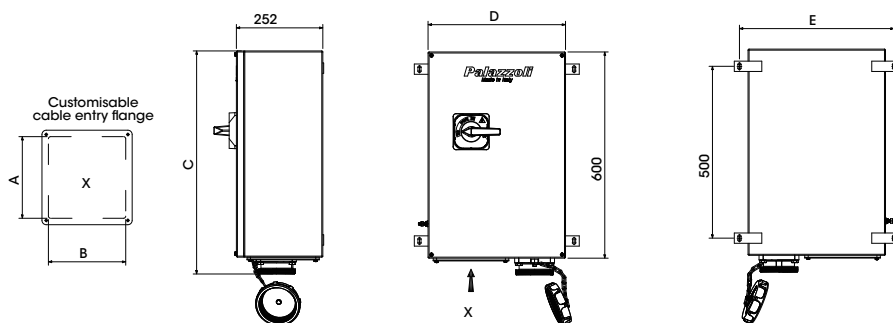
Codes	A (mm)	B (mm)
541050	22	M25
541055	18	M25
540180	51	M32
540185	51	M32
540186	51	M40
540190	69.5	M40
540193	51	M40
540195	80	M50

### Interlocked socket-outlets 250A



## ALUMAX series

### Wall-mounted sockets with electrical interlock

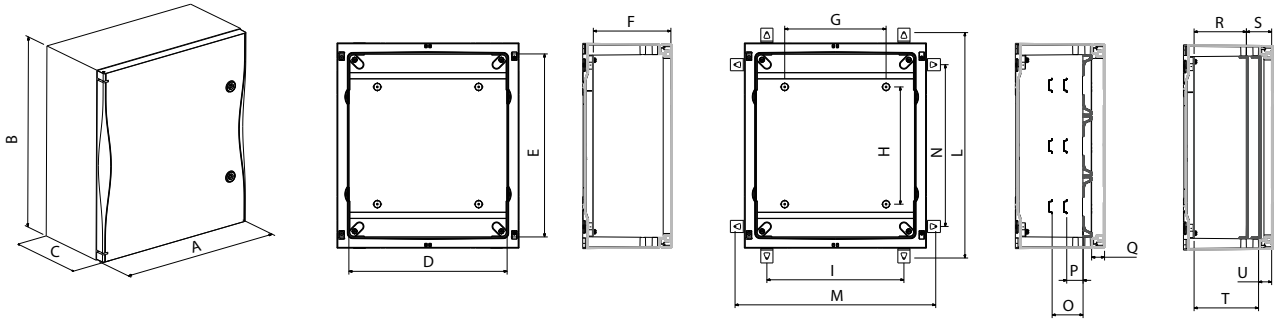


Rated current (A)	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)
250	180	190	650	400	450
320/400	180	270	660	500	550



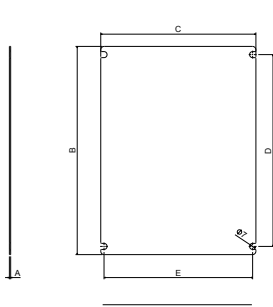
## TAIS CUBE series

Distribution boards in thermosetting GRP



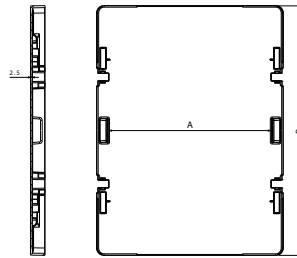
Size	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	G (mm)	H (mm)	I (mm)	L (mm)	M (mm)	N (mm)	O (mm)	P (mm)	Q (mm)	R (mm)	S (mm)	T (mm)	U (mm)
1	258	304	160	200	250	131	60	87	148	355	305	198	-	-	-	-	-	-	-
2	340	430	180	282	376	151	142	214	230	481	386	324	78	50	34	93	58	120	31
3	449	506	220	390	451	191	250	290	338	556	495	399	78	50	34	133	58	160	31
4	449	656	220	390	601	191	250	439	338	706	495	549	78	50	34	133	58	160	31
5	558	656	260	498	601	230	358	439	446	706	603	549	78	50	34	173	57	200	30
6	631	807	300	570	751	269	430	590	518	856	675	699	78	50	34	212	57	239	30
7	848	1058	350	786	1001	319	646	842	734	1106	891	949	78	50	34	257	62	287	32

### Plates



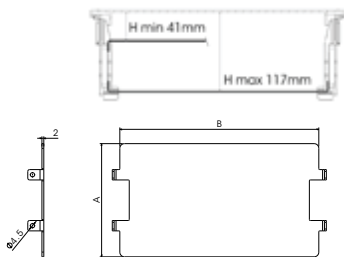
Code	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)
550601	1.5	241	179.5	222	172
550602	1.5	367	261.5	348	254
550603	2	442	369.5	423	362
550604	2	592	369.5	573	362
550605	2	592	477.5	573	470
550606	2	742	549.5	723	542
550607	2	992	765.5	973	758
550621	3	244	194	222	172
550622	3	370	276	348	254
550623	3	445	384	423	362
550624	3.7	595	384	573	362
550625	3.7	595	492	573	470
550626	3.7	745	564	723	542

### Inner doors



Code	A (mm)	B (mm)
550502	240	374
550503	348	447
550504	348	596
550505	457	596
550506	529	746
550507	745	998

### Partial plates



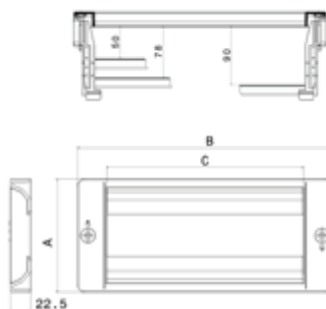
Code	A (mm)	B (mm)
550632	120	211
550633	145	319
550635	145	427
550636	145	499
550637	195	715

### Spacer



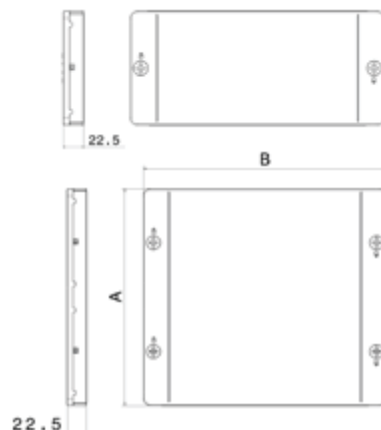
Code	L (mm)	No. of positions
550662	70	7
550663	110	11
550665	150	15
550666	190	19
550667	240	24

### Windowed panels



Code	A (mm)	B (mm)	C (mm)
550522	124	280	216
550523	149	388	324
550525	149	496	432
550526	149	568	504
550507	199	784	720

### Blind panels



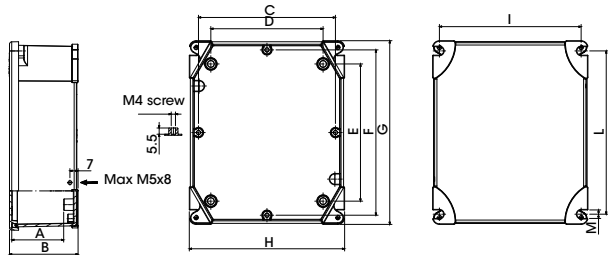
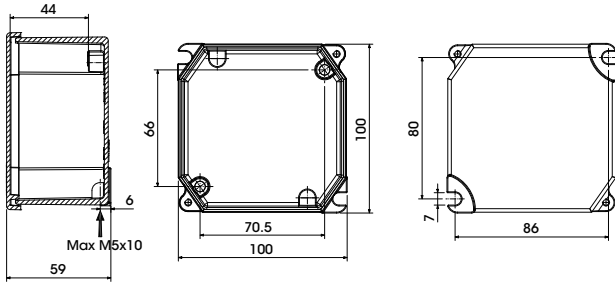
Code	A (mm)	B (mm)
550542	124	280
550543	149	388
550545	149	496
550546	149	568
550547	199	784
550552	249	280
550553	299	387
550555	299	495
550556	299	567
550557	399	783





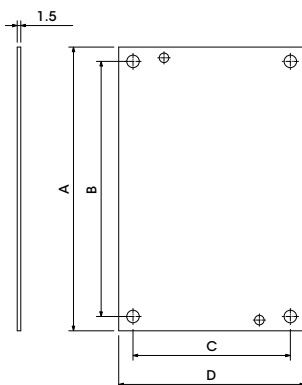
UNIBOX series

Box code 520009



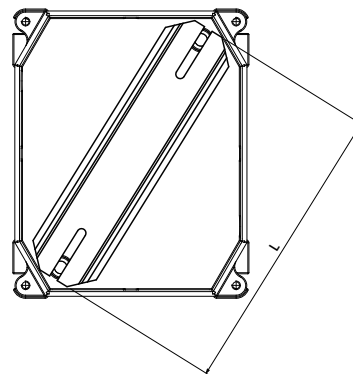
Code	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	G (mm)	H (mm)	I (mm)	L (mm)	M (mm)
520011	46	61	95	66	107	120	140	115	120	100	7
520012	49	64	121	99	121	146	166	141	125	144	7.5
520014	65	80	148	113	153	172	192	168	149	168	7.5
520019	76	93	194	153	188	230	253	217	196	226	10
520020	105.5	122	236	198	238	286	314	264	236	275	10
520021	132.5	150	286	248	333	381	410	315	283	367	10

Plates



Code	A (mm)	B (mm)	C (mm)	D (mm)
522011	119	107	66	78
522012	132	121	99	108
522014	165	153	113	125
522019	200	188	153	165
522020	250	238	198	210
522021	345	333	248	257

DIN rails

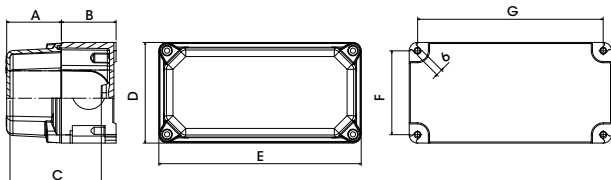


Code	L (mm)
521009	100
521011	138
521012	164
521014	202
521019	264
521020	320
521021	422



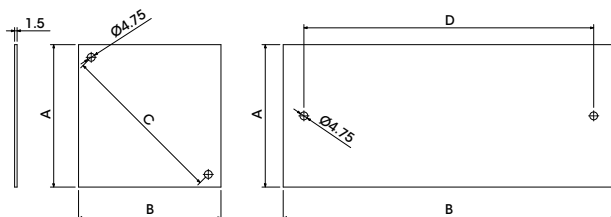
## TAIS series

Boxes in thermosetting GRP



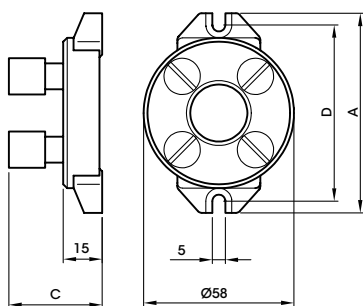
Code	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	G (mm)
532035-538035	18	50	51	92	92	78	78
532045-538045	18	50	51	92	125	78	111
532055-538055	18	50	51	92	185	78	171
532116-538116	18	75	75	125	125	111	111
532117-538117	18	75	75	125	185	111	171
532118-538118	18	75	75	125	250	111	238
532005-538005	50	50	83	92	92	78	78
532006-538006	50	50	83	92	125	78	111
532015-538015	50	50	83	92	185	78	171
532016-538016	50	75	100	125	125	111	111
532017-538017	50	75	100	125	185	111	171
532018-538018	50	75	100	125	250	111	238

## Steel back plates

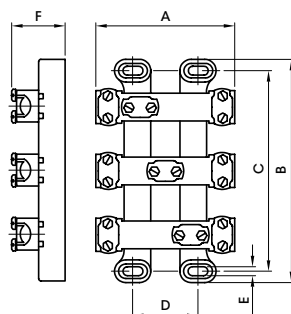


Code	A (mm)	B (mm)	C (mm)	D (mm)
532716	86	86	100	-
532717	86	135	-	100
532718	86	200	-	175

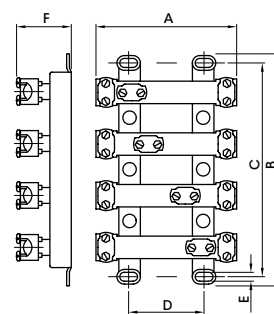
## CONTACT series



Code	A (mm)	C (mm)	D (mm)
112094	57	31	49
113094	77	35	68
113194	77	42	68



Code	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)
159030	59	78	69	-	5	27
159032	78	101	88	32	5.5	29
159033	86	128	110	40	6.5	38
159034	100	150	134	55	7.5	46
159035	128	196	176	62	7.5	56
159036	178	240	222	76	7	80
159037	232	294	274	88	7	88

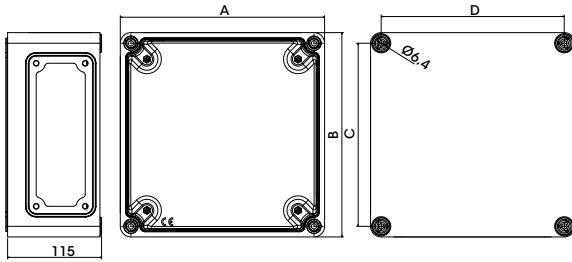


Code	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)
159040	70	101	88	32	5.5	27
159042	92	128	110	40	6.5	32
159043	102	150	134	55	7.5	43
159044	119	196	176	62	7.5	50
159045	154	240	222	76	7	64
159046	222	294	274	88	7	80



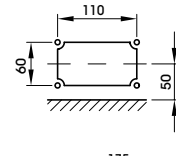
## TAIS GRANDE series

Boxes in thermosetting GRP

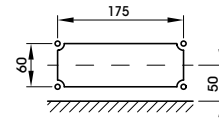


Dimensions (mm)	A (mm)	B (mm)	C (mm)	D (mm)
185x185	185	185	159	159
250x185	250	185	224	159
250x250	250	250	224	224
370x250	370	250	224	344
500x370	500	370	344	474

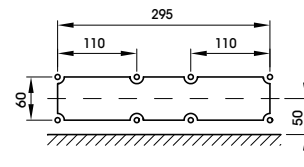
Window "a"



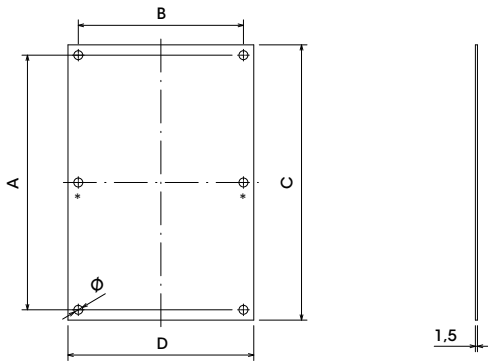
Window "b"



Window "c"



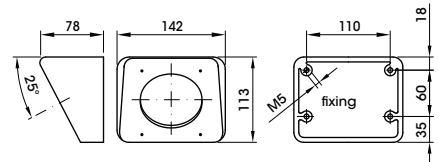
Steel back plates



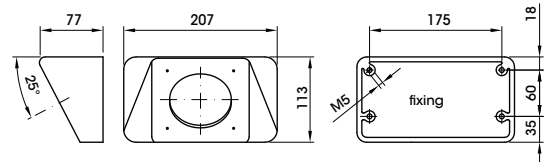
Dimensions (mm)	A (mm)	B (mm)	C (mm)	D (mm)	Ø (mm)
185x185	120	120	135	135	6.5
250x185	185	120	200	135	6.5
250x250	185	185	200	200	6.5
370x250	305	185	321	200	6.5
*500x370	435	305	450	320	8

Mounting brackets for X-CEE 63A - 125A socket-outlets

Window "a"



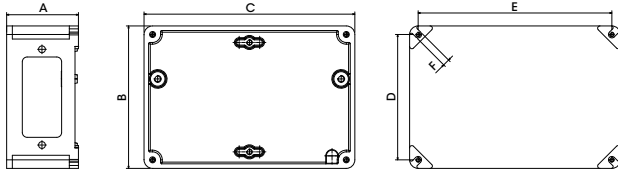
Window "b"





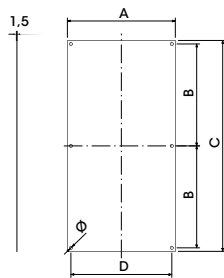
## ALUPRES series

### Boxes in aluminium alloy



Dimensions (mm)	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)
92x92	42	92	92	78	78	6
125x92	42	92	125	78	111	6
185x92	42	92	185	78	171	6
125x125	63	125	125	111	111	6
185x125	63	125	185	111	171	6
252x125	63	125	252	111	238	6
155x155	63	155	155	141	141	6
185x185	95	185	185	171	171	6
252x185	95	185	252	169	236	6
220x220	95	220	220	192	205	6
252x252	140	252	252	224	237	6
315x252	140	252	315	224	300	6
507x252	140	252	507	224	492	9
295x295	105	295	295	266	280	9
315x315	140	315	315	286	300	9
373x373	140	373	373	330	353	12
507x373	140	373	507	330	487	12
630x373	140	373	630	330	610	12
630x507	140	507	630	464	610	12

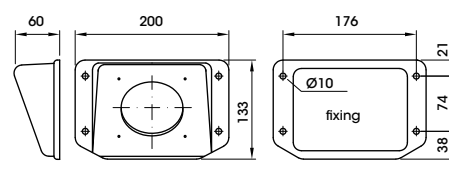
### Steel back plates



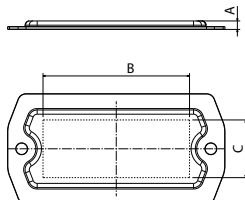
Dimensions (mm)	A (mm)	B (mm)	C (mm)	D (mm)	Ø (mm)
92x185	77	65	142	65	5
125x125	100	39	90	88	5.5
125x185	100	61.5	135	88	5.5
125x252	100	94	200	88	5.5
155x155	118	55	122	40	5.5
185x185	135	74	160	123	5.5
185x252	160	94	200	148	5.5
220x220	152	88	190	62	5.5
252x252	210	85.5	185	196	6.5
252x315	210	110.5	235	196	6.5
252x507	215	203	420	201	6.5
295x295	220	111	240	76	6.5
315x315	270	108	230	256	6.5
373x373	320	134.5	285	304	8
373x507	320	202	419	304	8
373x630	320	262	539	304	8
507x630	430	262	539	414	8

### Mounting brackets for X-CEE 63A - 125A socket-outlets

#### Window "F5"

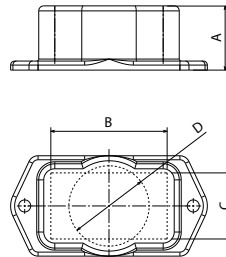


### Flat flanges



Codes	A (mm)	B (mm)	C (mm)
540030	5	32	20
540031	6	65	34
540090	2.5	30	14
540091	5.5	59	25
540032	5.5	95	25
540033	6	106	49
540034	6	148	49
540035	7	142	80
540036	8	238	84

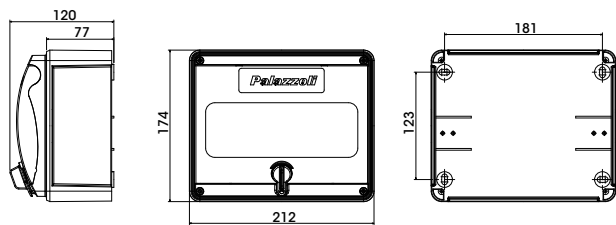
### Raised flanges



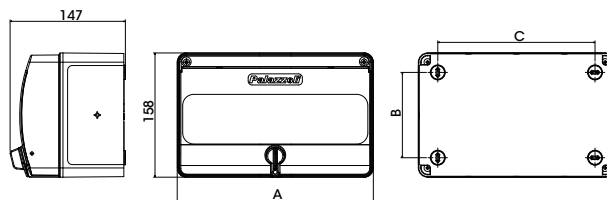
Codes	A (mm)	B (mm)	C (mm)	D (mm)
540061	32	60	30	35
540062	32	112	30	35
540063	50	100	50	60
540064	50	140	50	60
540065	80	140	90	90
540066	80	230	85	85



PRIMA series

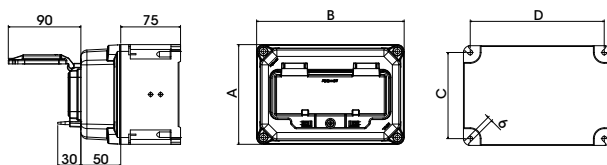
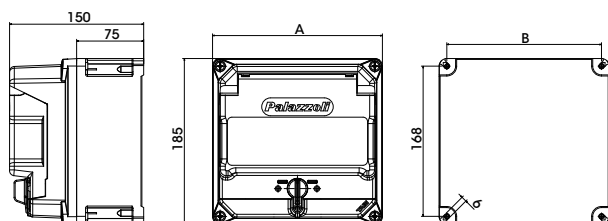


TOPTER series



Code	A (mm)	B (mm)	C (mm)
579708	122	110	80
579709	250	108	200

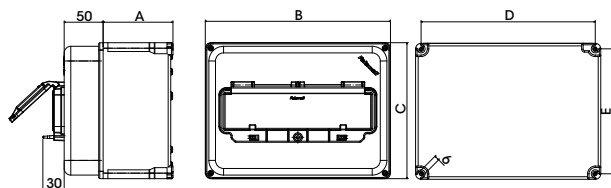
TAIS series



Code	A (mm)	B (mm)
532300	125	108
532301	190	173
532302	250	233
532303	290	273
532304	380	363

Code	A (mm)	B (mm)	C (mm)	D (mm)
532516	125	125	109	109
532557	125	185	109	169
532658	125	250	109	234

ALUPRES series



Code	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)
512204	63	125	125	109	109
512206	63	185	125	169	109
512211	95	250	125	234	109

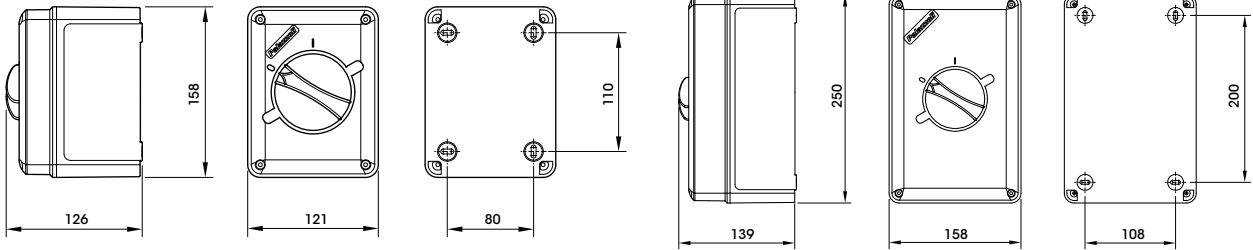




CAM-SZ series in thermoplastic for wall-mounting

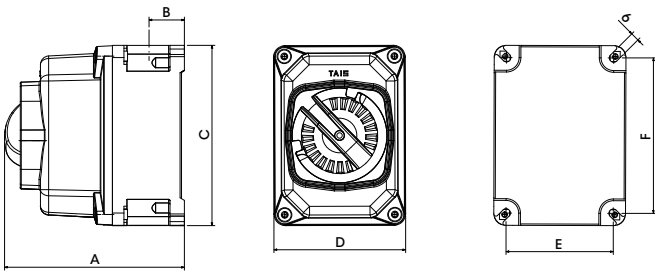
16A to 32A

40A to 100A



CAM series in thermosetting GRP for wall-mounting

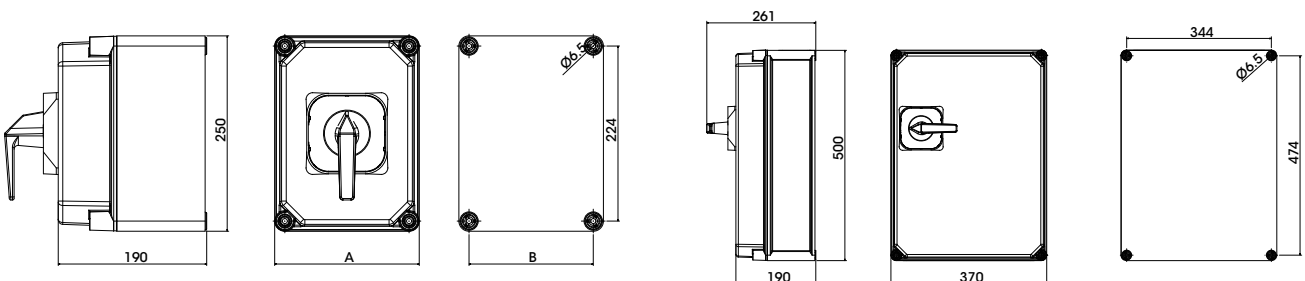
16A - 63A



Rated current (A)	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)
16-25A	122	25	125	92	78	111
46-63A	165	37.5	185	125	109	169

100A - 200A

400A - 600A

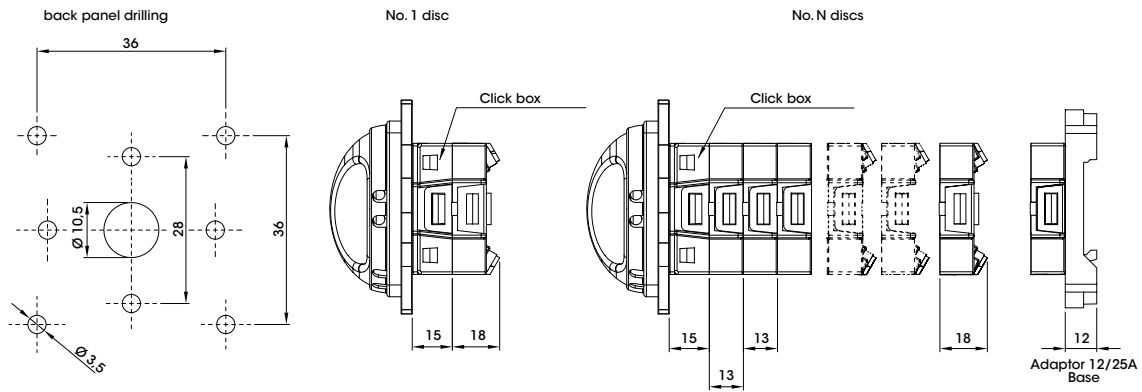


Code	A (mm)	B (mm)
292503	185	159
292603	185	159
292623	250	224

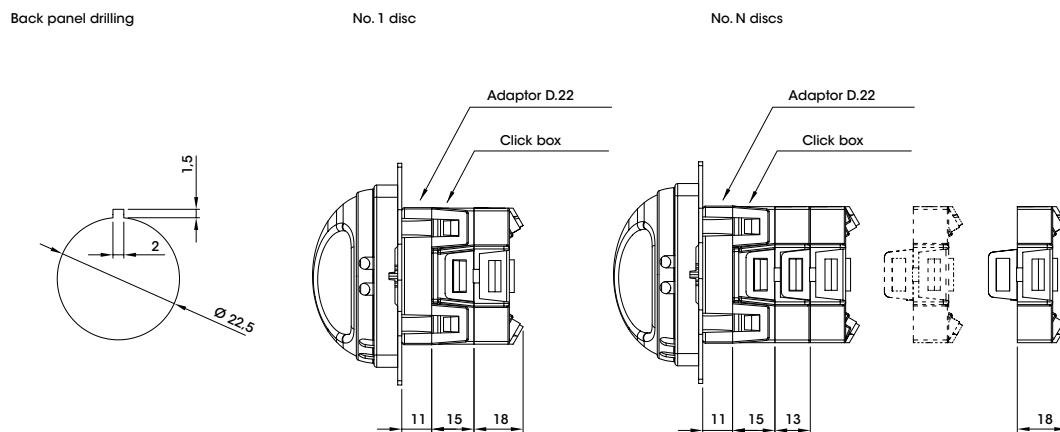


## CAM-ST series

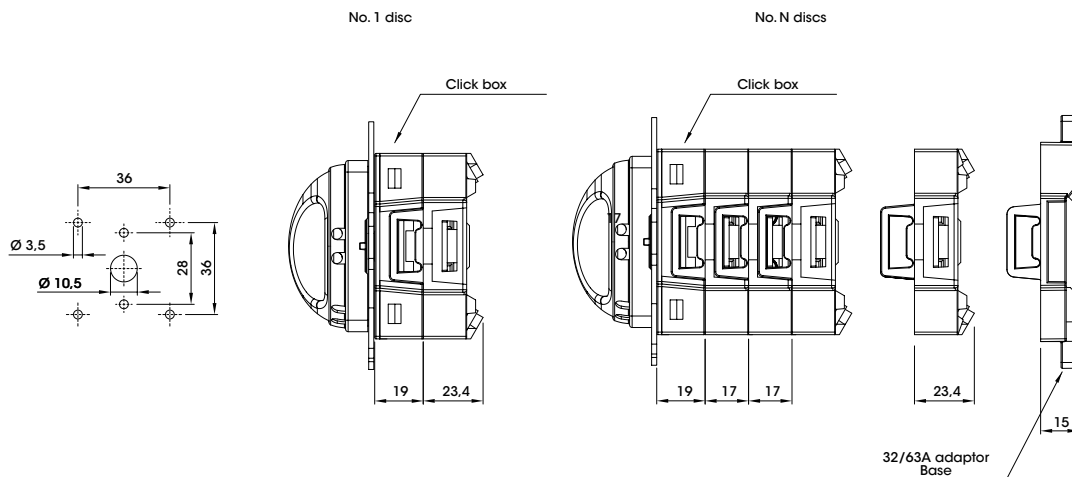
### 12/25A rotary devices for back panel-mounting



### 12/25A rotary devices for back panel-mounting - 22 mm hole



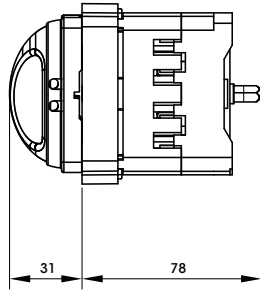
### 32/63A rotary devices for back panel-mounting and base mounting



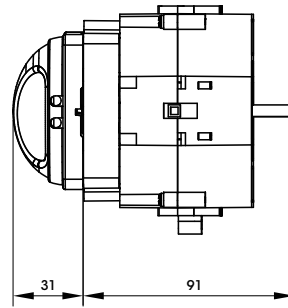


CAM-SZ series

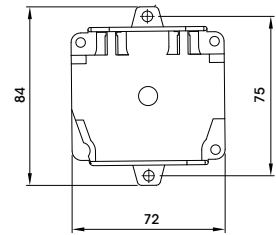
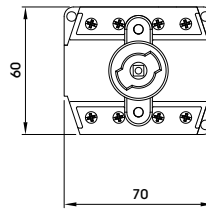
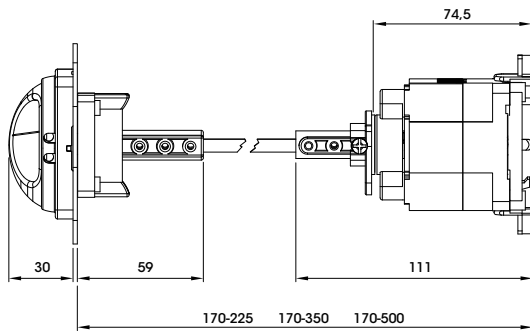
Isolator switches for back panel-mounting  
16A/32A



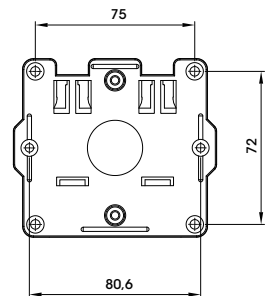
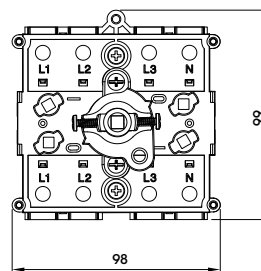
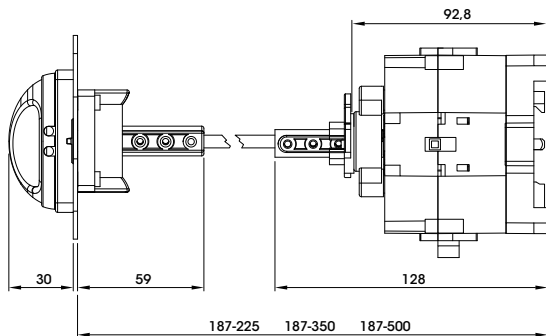
40A/100A



16A/32A isolator switches with door lock for base-mounting



40A/100A isolator switches with door lock for base-mounting

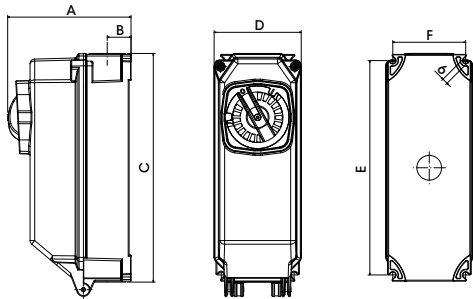




## CAM series in thermosetting GRP for wall-mounting

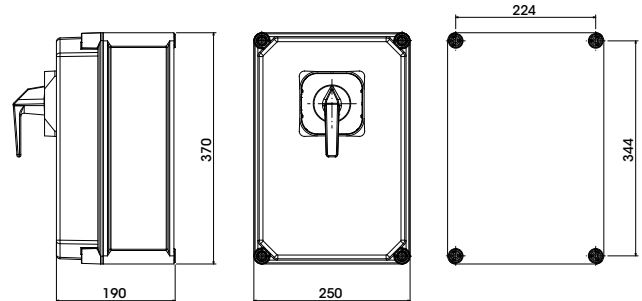
Isolator switches with fuse holder base

16A - 63A

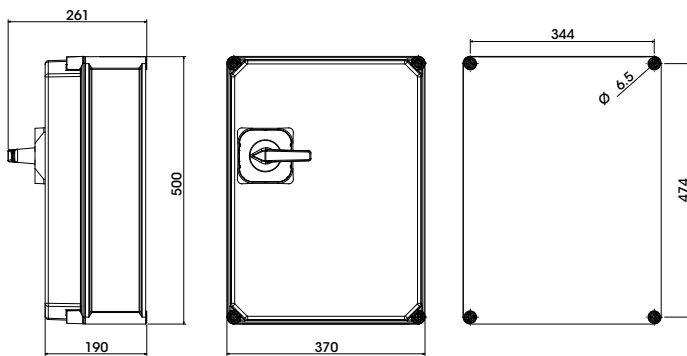


Rated current (A)	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)
16-25-32	130	25	240	92	226	78
40-63	176	37.5	335	125	319	109

100A

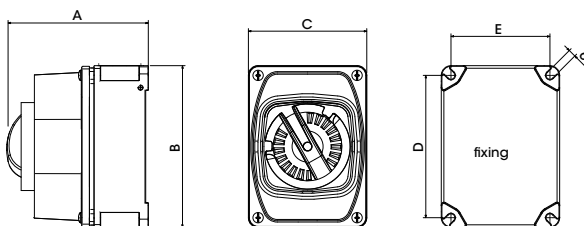


200A - 250A



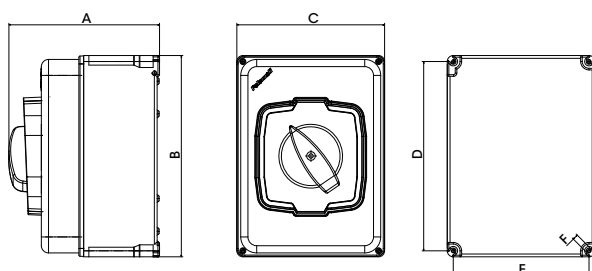
## CAM series in aluminium alloy for wall-mounting

16A - 63A



Code	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)
272141-272241	87	92	92	77	77
272142-272143-152130-152140	103	92	92	77	77
272144-272244-152160-152260	120	125	92	110	77
272242-272243-152230-152240	103	92	92	77	77
272301-272302-272303 152330-152340	137	125	125	110	110
272304-282402-282403 152360-152430-152440	150	185	125	170	110
282404-152460	170	185	125	170	110

100A - 200A

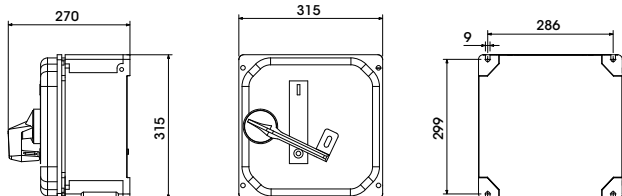


Code	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)
272502	230	252	185	237	170	7
272503	230	252	185	237	170	7
282603-152530-152540	240	315	220	299	192	9

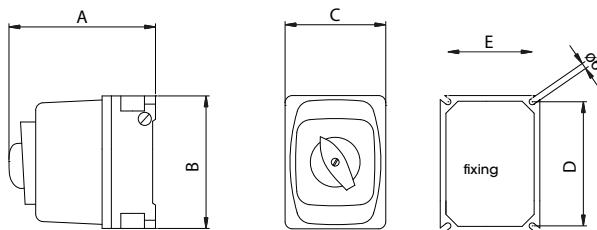


CAM series in aluminium alloy for wall-mounting

400A switch

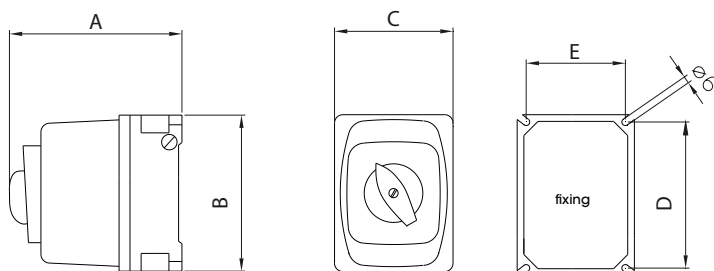


Two-way, reversing and pole changing switches



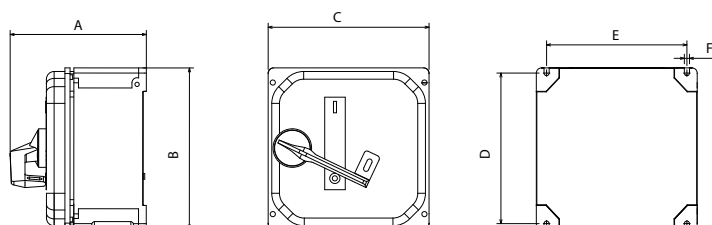
Code	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)
272148-272178	87	92	92	77	77
272152-272252	135	125	92	110	77
272155-272255					
272312-282412	150	185	125	170	110

16A-63A selector switches and starters



Code	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)
272146-272246	120	125	92	110	77
272147-272247					
272153-272253	135	125	92	110	77
272306	150	185	125	170	110
272307-272406					
272313	170	185	125	170	110

63A-200A selector switches and starters



Code	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)
282407-282413	195	252	185	237	170	7
272507	270	315	315	299	286	9
282607	270	373	373	351	330	12

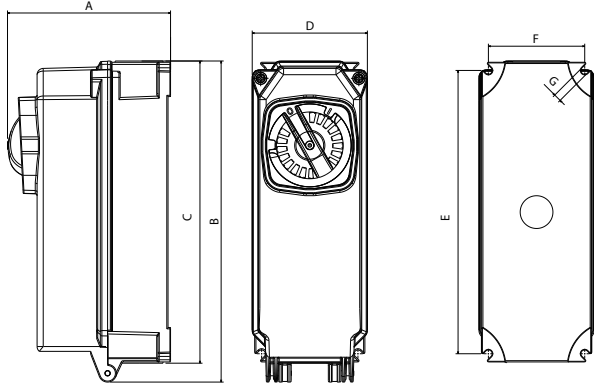




## CAM series in aluminium alloy for wall-mounting

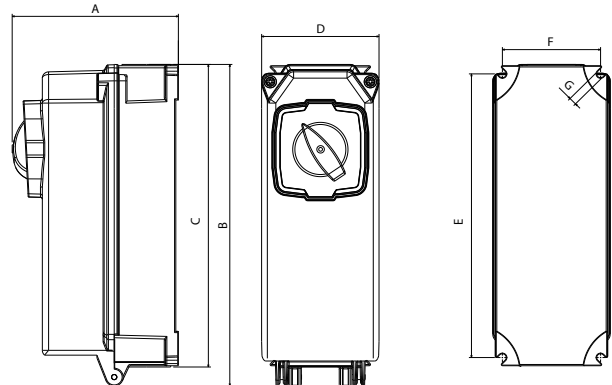
Switches with fuse holder base

### 25A - 63A



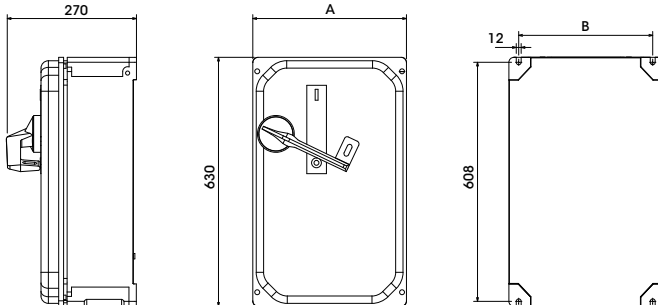
Rated current/voltage (A)	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	G (mm)
25	125	200	185	92	168	77	5.5
40-63	152	264	252	125	237	110	6

### 100A - 200A



Rated current/voltage (A)	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	G (mm)
100	230	386	373	185	356	168	7
200	240	525	507	220	491	192	9

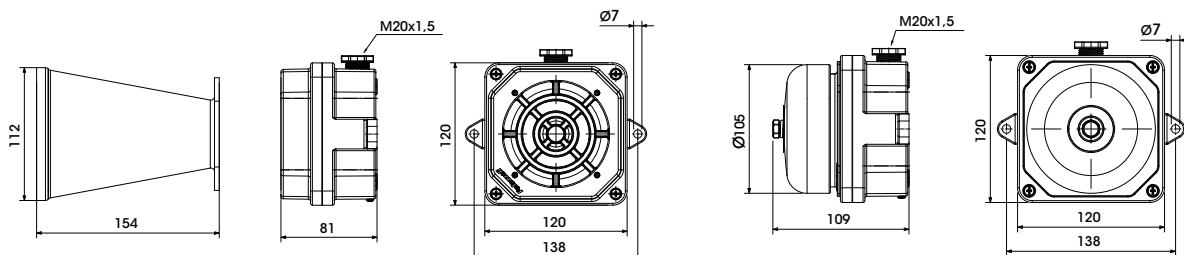
### 400A - 600A



Rated current (A)	A (mm)	B (mm)
400	315	272
600	373	330

## ALARM series

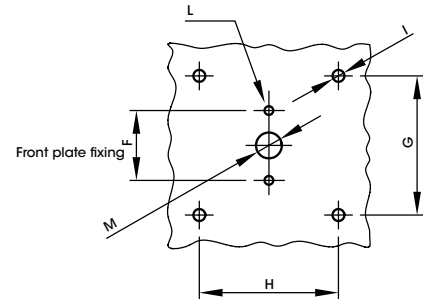
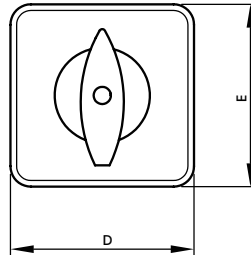
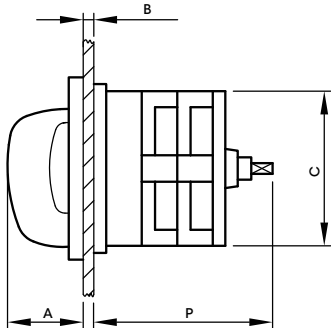
Sirens and bells





## CAM series

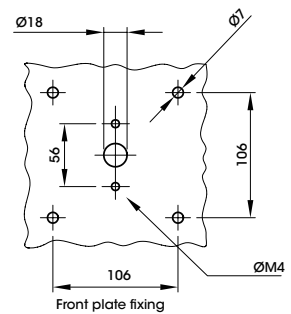
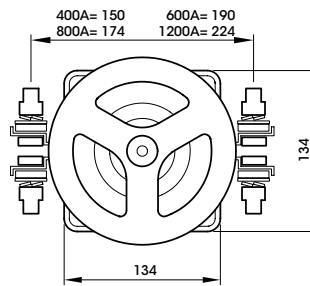
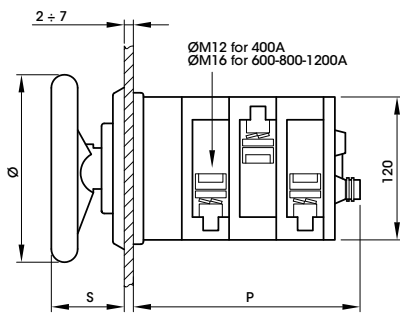
### 16A/200A rotary switches with handle



Rated current (A)	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	G (mm)	H (mm)	I (mm)	L (mm)	M (mm)
16-25	30	1,5-4	52	64	64	25	46	46	5	M3	10
40-63	37	1,5-7	87	94	94	32	70	70	6	M3	13
100-200	59	2-7	120	134	134	56	106	106	7	M4	18

P\* the dimension refers to the depth indicated in the catalogue tables on pages 192 to 193

### 400A/1200A rotary devices with handle



Rated current (A)	Ø (mm)	S (mm)
400-600-800	156	61
1200	200	67

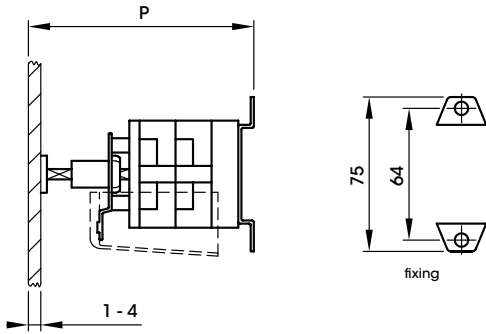
P\* the dimension refers to the depth indicated in the catalogue tables on page 192



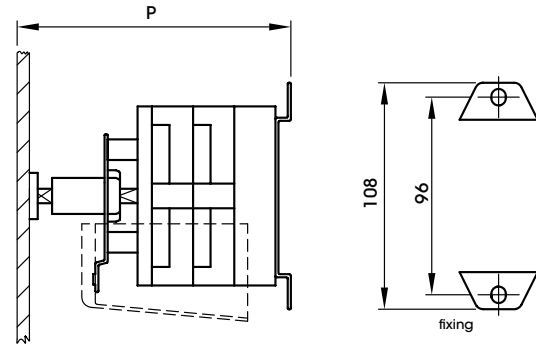
## CAM series

### Rotary devices for base mounting

16A - 25A



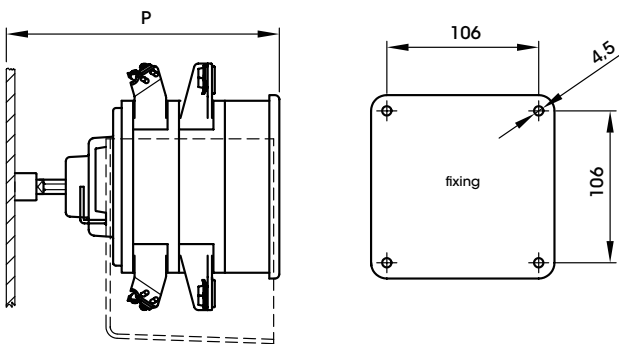
40A - 63A



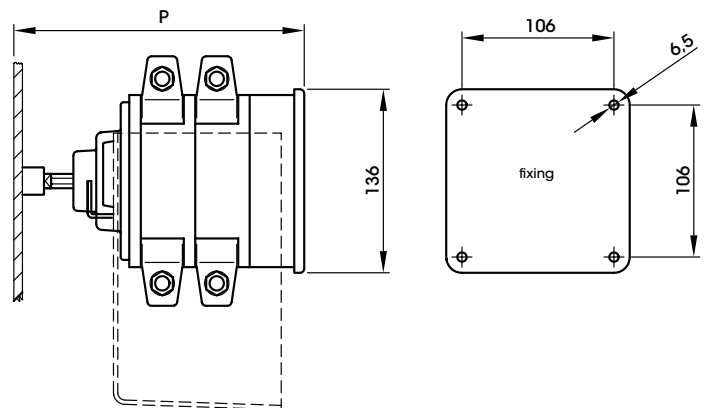
P\* the dimension refers to the depth indicated in the catalogue tables on page 196

### Rotary devices for base mounting

100A



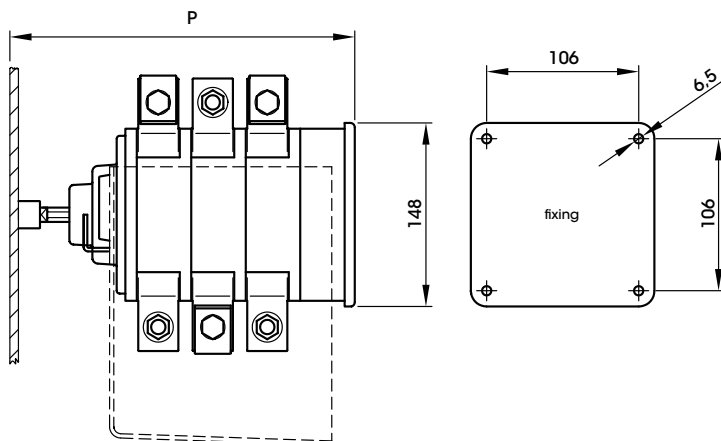
200A



P\* the dimension refers to the depth indicated in the catalogue tables on page 196

### Rotary devices for base mounting

400A

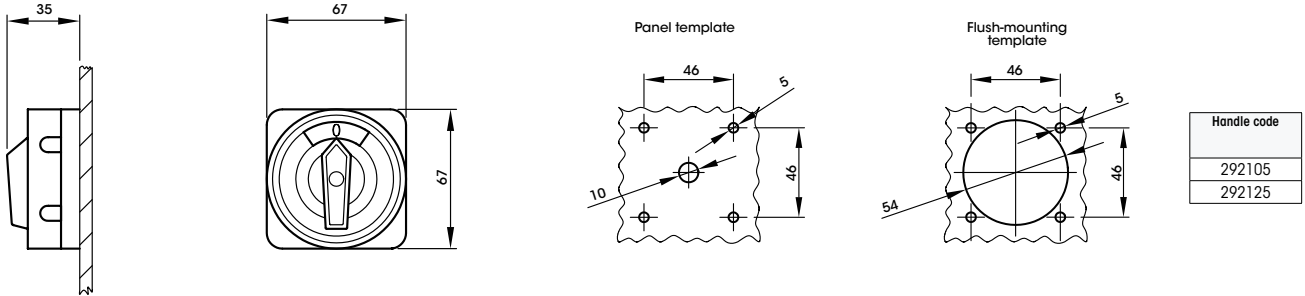


P\* the dimension refers to the depth indicated in the catalogue tables on page 196

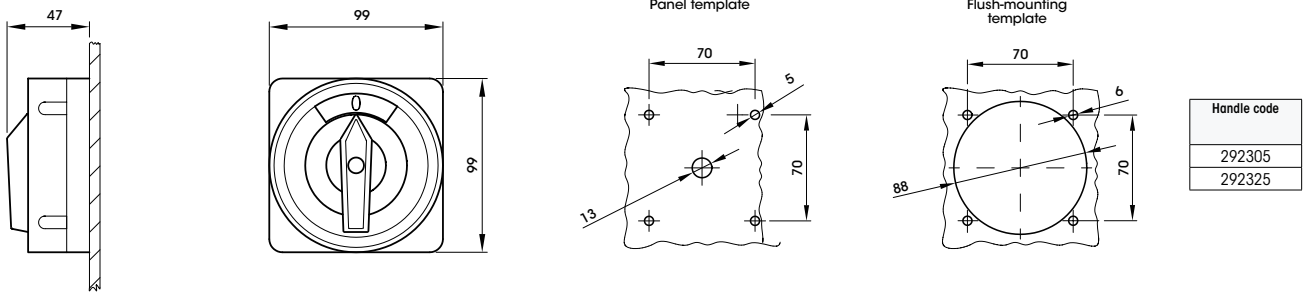


### CAM series

#### Handles for panel- and flush-mounting - 16A/25A



#### Handles for panel- and flush-mounting - 40A/63A



#### Handles for flush-mounting - 16A/25A



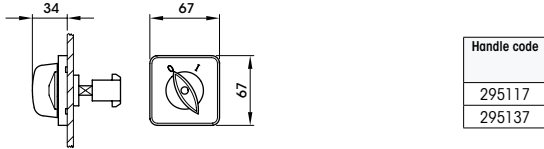
#### Handles for flush-mounting - 40A/63A



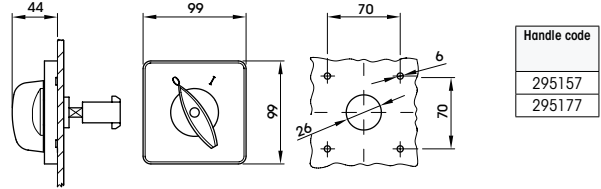


CAM series

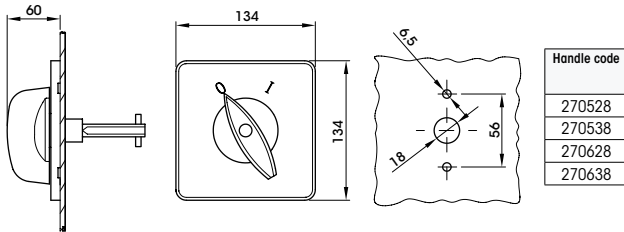
Handles with doorlock and front plate  
16A/25A



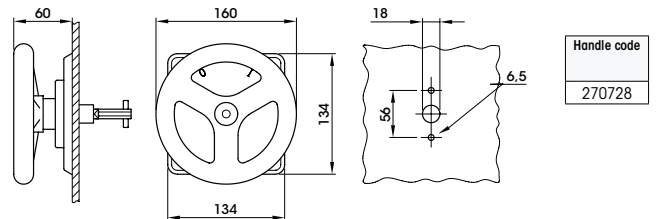
40A/63A



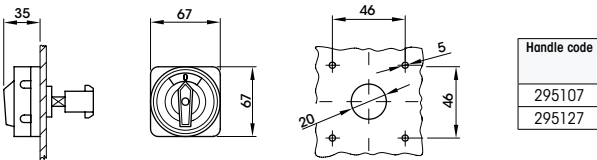
100A/200A



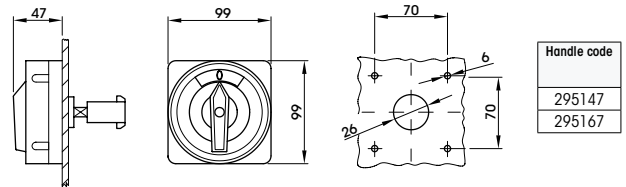
400A



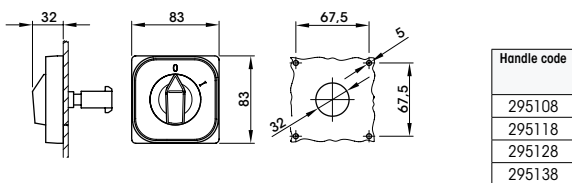
16A/25A



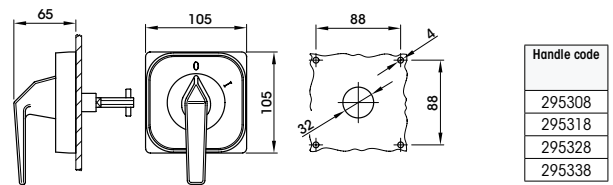
40A/63A



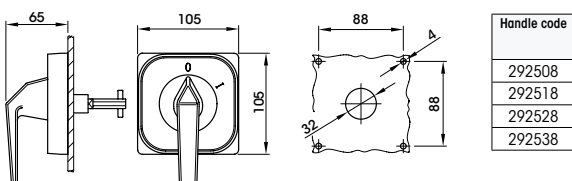
16A/25A



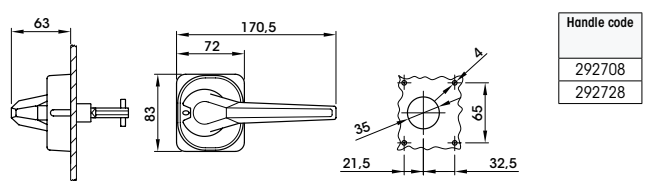
40A/63A



100A/200A



400A

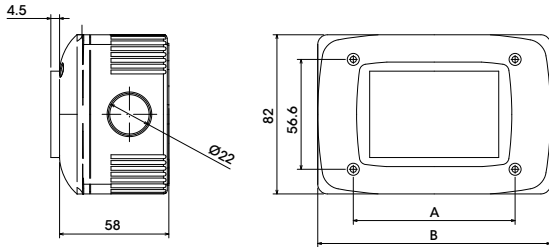






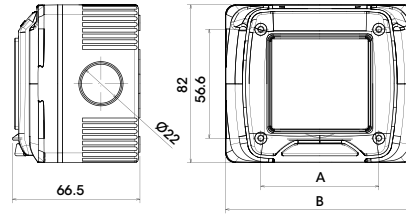
### domoTER series

Boxes for domestic devices - IP40



Code	A (mm)	B (mm)
630001	39.4	76
630002	61.4	98
630003	83.4	120

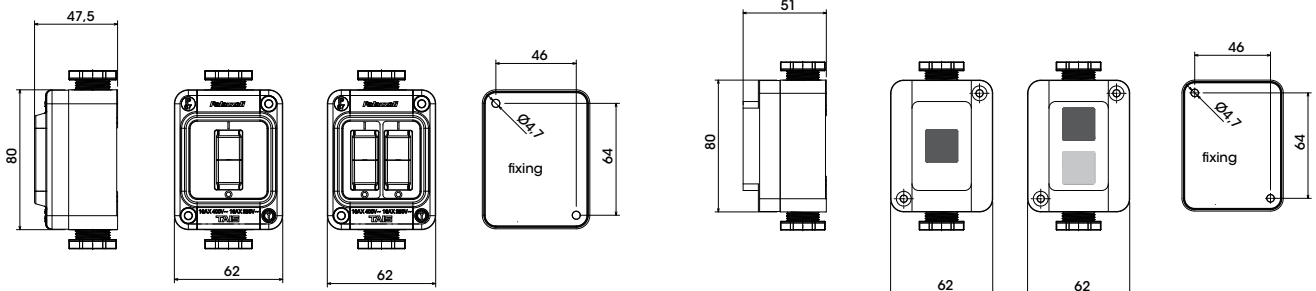
Boxes for domestic devices - IP55



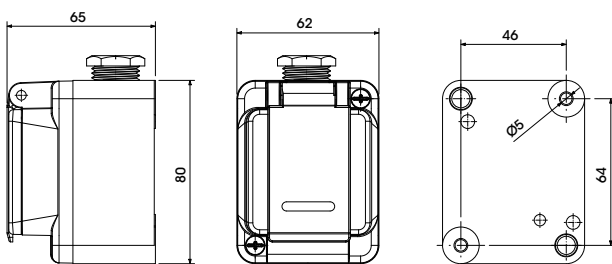
Code	A (mm)	B (mm)
630011	39.4	76
630012	61.4	98
630013	83.4	120

### TAIS MIGNON series

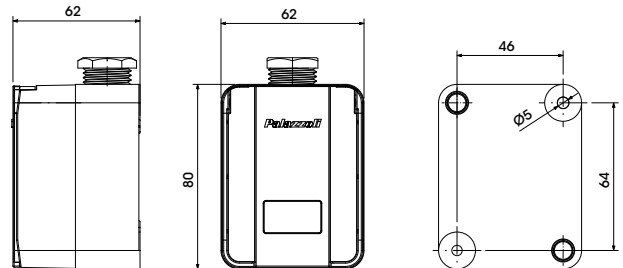
Switches and push-buttons



Schuko domestic socket



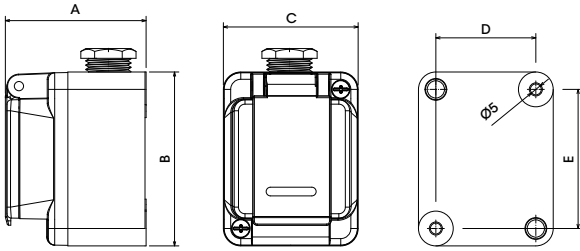
Box for domoTER devices





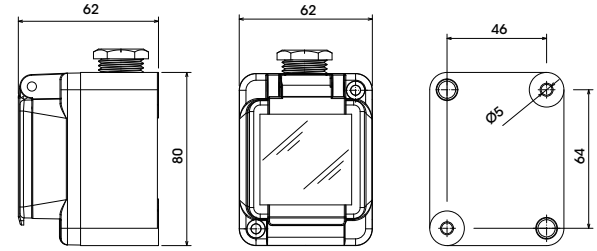
TAIS MIGNON series

Industrial socket-outlets

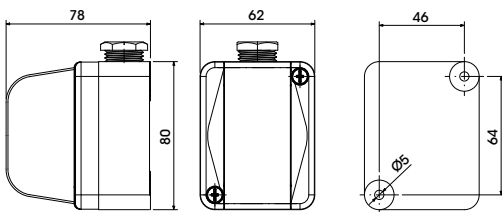


Rated current (A)	No. of poles	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)
16	2P+⊕	75	80	62	46	64
	3P+⊕	75	80	62	46	64
	3P+N+⊕	82	102	77	61	86
	2P/3P	75	80	62	46	64

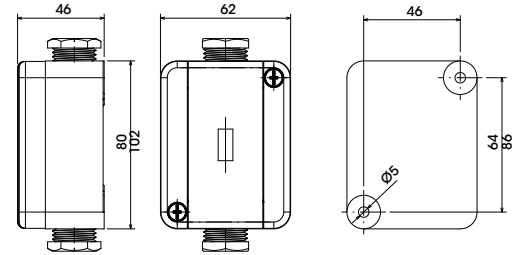
Boxes for Ticino Magic devices



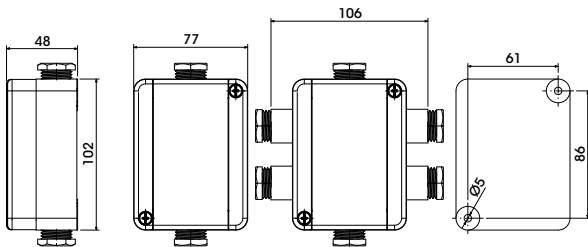
Signalling lamps



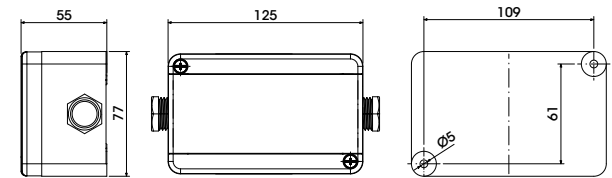
Fuse holder



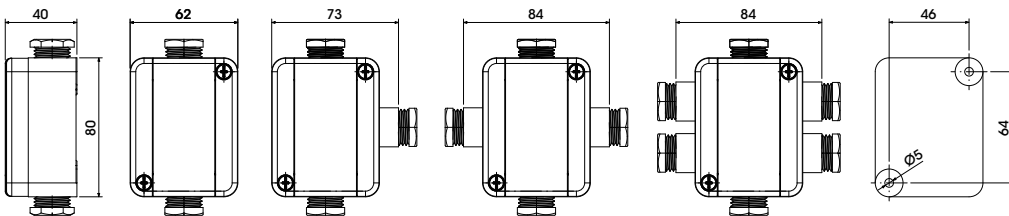
Junction boxes



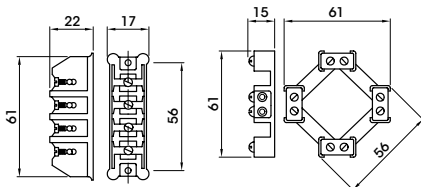
Modular box



Junction boxes with terminals



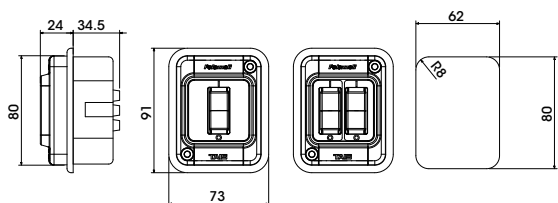
Terminal blocks



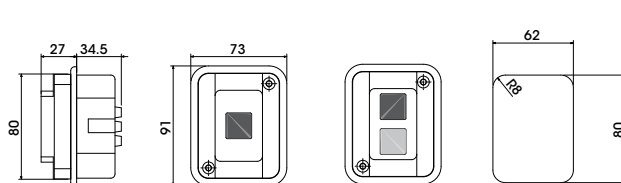


## TAIS MIGNON series

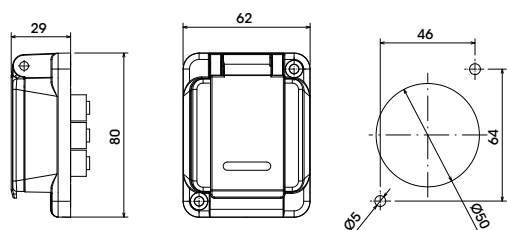
### Flush-mounted switches



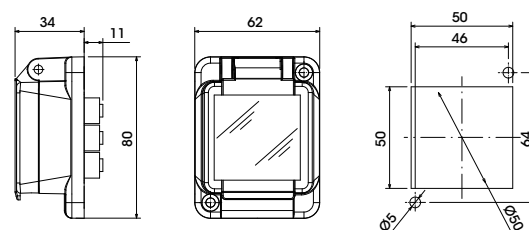
### Flush-mounted push-buttons



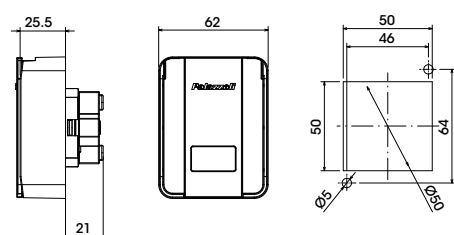
### Flush-mounted shuko domestic sockets



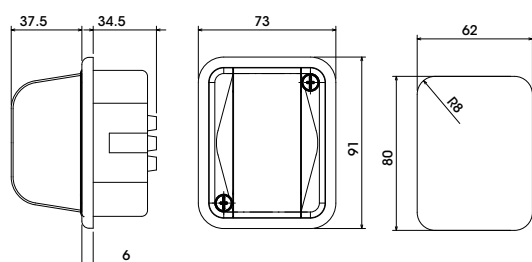
### Flush-mounted boxes for Ticino Magic devices



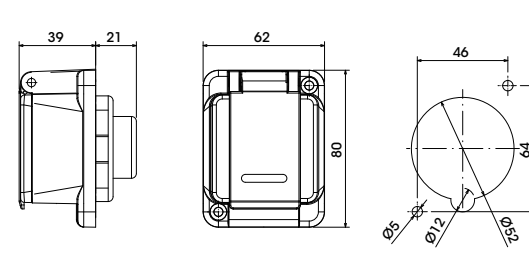
### Flush-mounted boxes for Domoter devices



### Flush-mounted signalling lamps



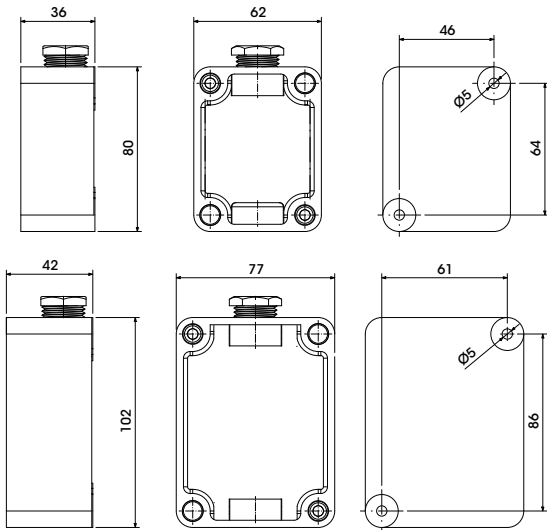
### Flush-mounted industrial socket-outlets



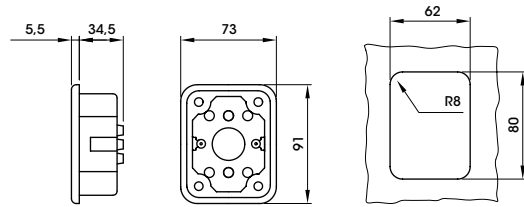


## TAIS MIGNON series

### Wall-mounted boxes

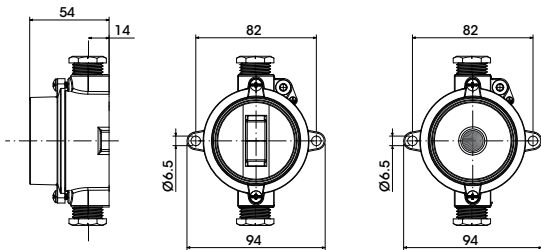


### Flush-mounted box

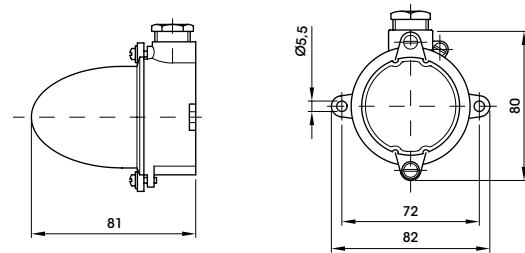


## RONDÒ series

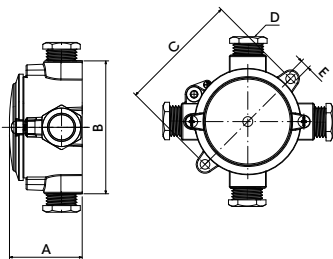
### Switches and push-buttons



### Signalling lamps

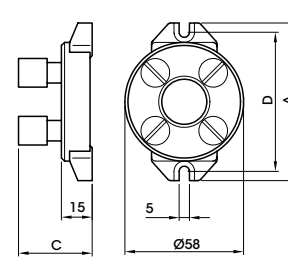


### Boxes



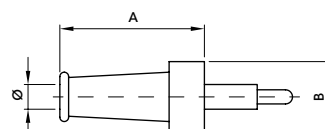
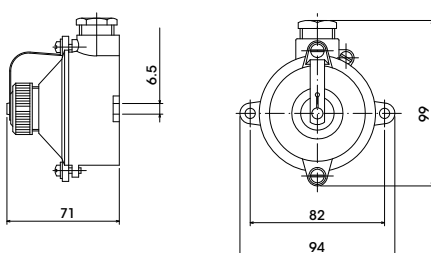
inner Ø (mm)	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)
62	45	140	82	M20x1.5	6.5
82	57	180	106	M25x1.5	7

### Terminal blocks



Code	A (mm)	B (mm)	Ø (mm)
112094	57	31	49
113094	77	35	68
113194	77	42	68

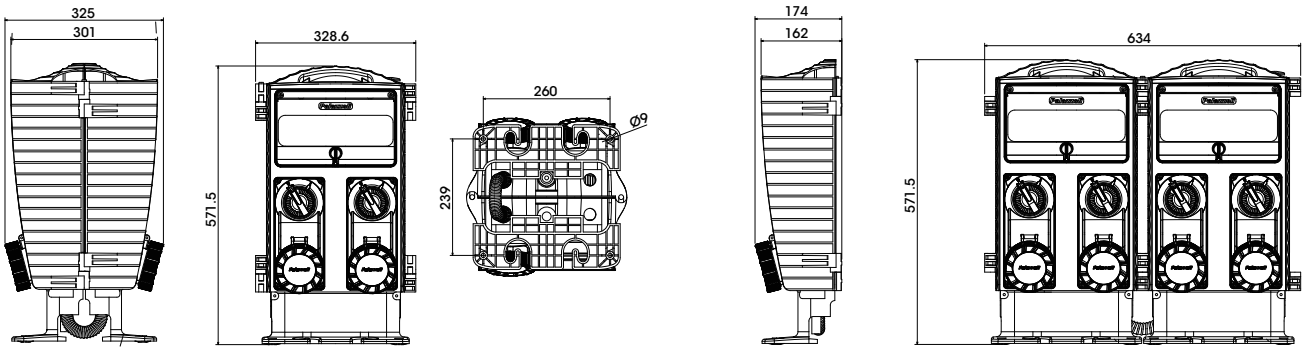
### Concentric plugs and sockets



Code	A (mm)	B (mm)	Ø (mm)
407030	75	33	10
407031	84	39	14

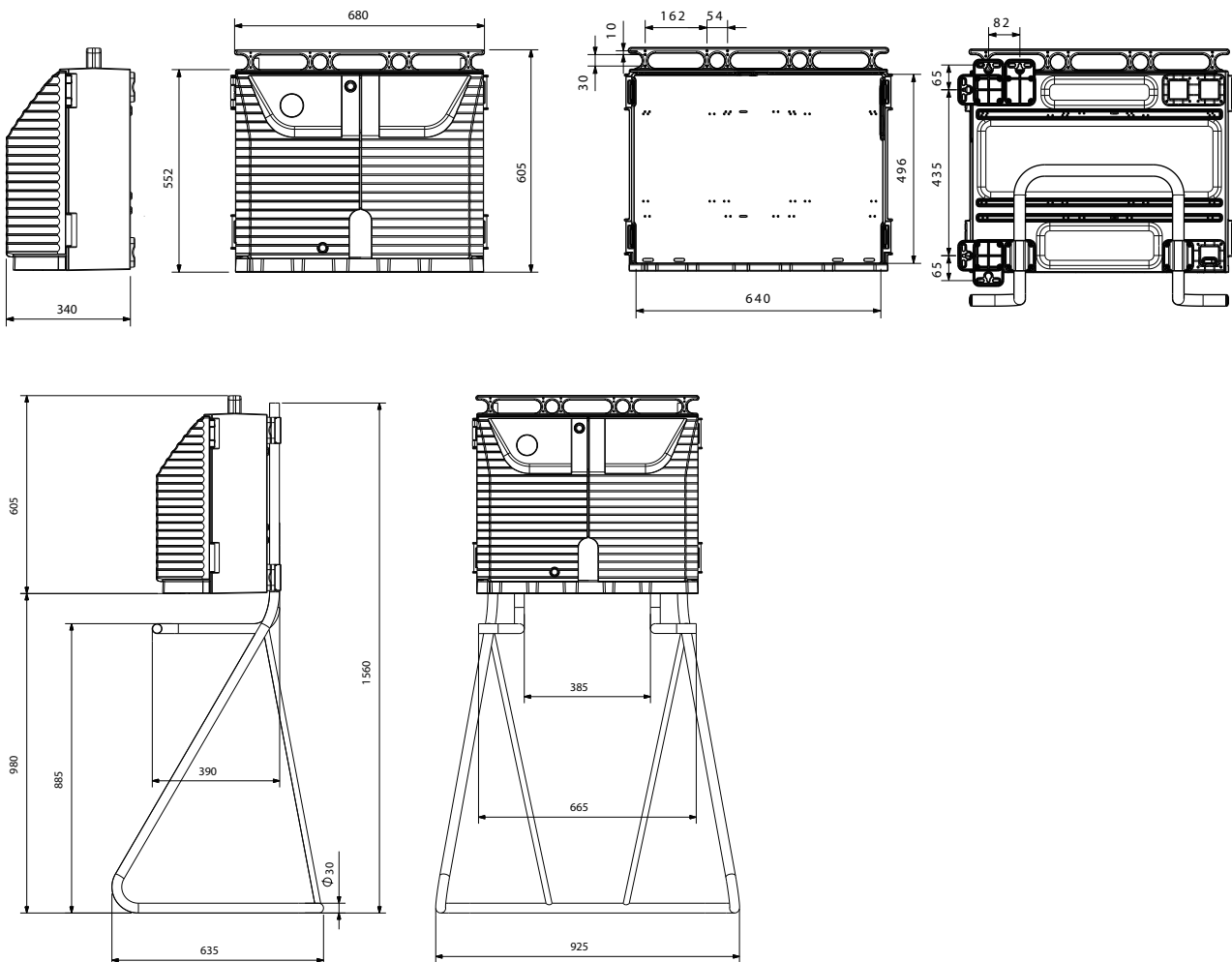


JANUS series



ENERGY BOX series

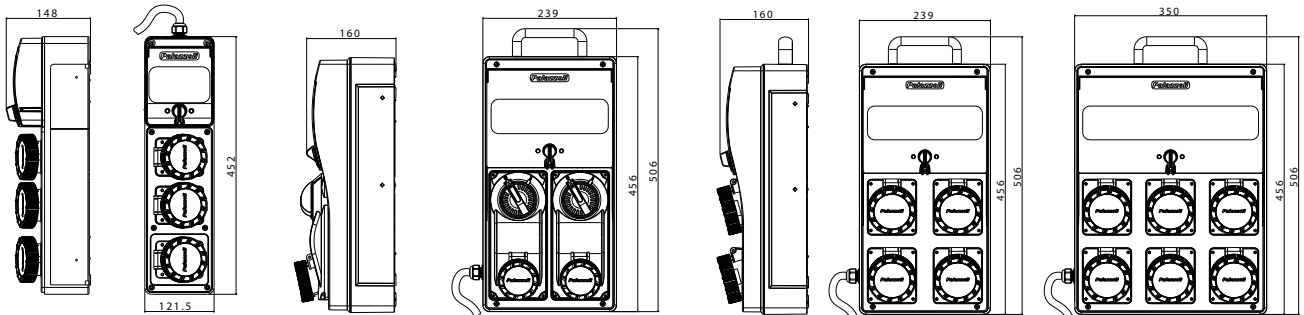
Distribution boards in insulating box







ENERGY GO series

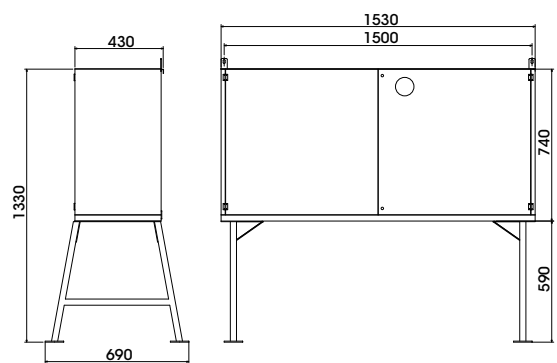
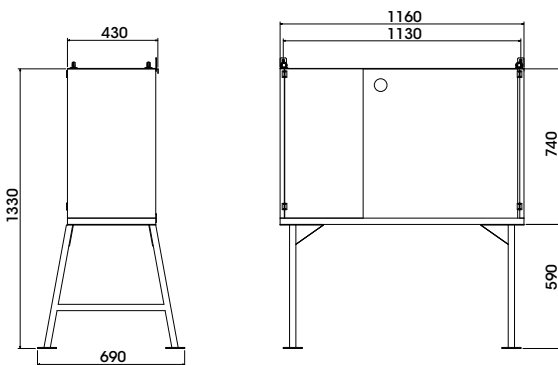


ENERGY METALBOX series

Distribution boards in metal cabinet

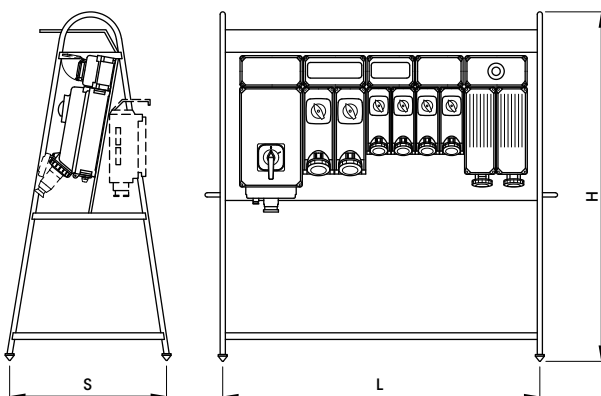
Dimensions 1160x740x430 up to 6 sockets

Dimensions 1530x740x430



ENERGY TAIS series

Distribution boards on stainless steel stand



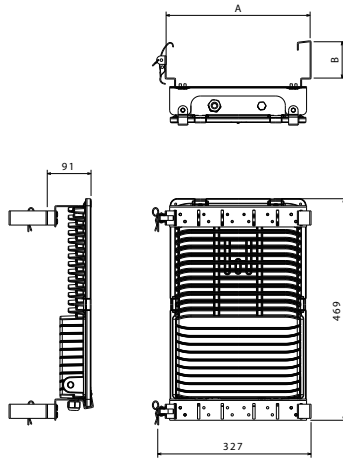
Type
With MCB - 5 sockets
With MCB - 6 sockets
With MCB - 7 to 9 sockets
With fuses - 5 sockets
With fuses - 6 to 10 sockets
With fuses - 11 sockets

L (mm)	H (mm)	S (mm)
1118	1335	565
1313	1335	565
1853	1685	748
803	1335	565
1313	1335	565
1853	1685	748

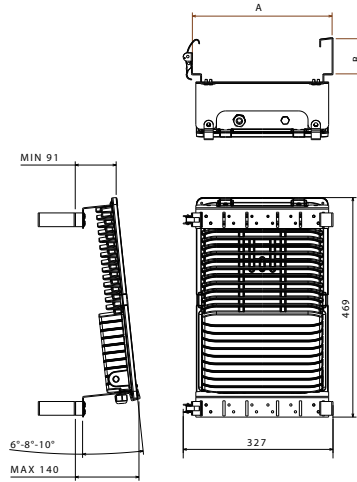


## TIGUA LED series

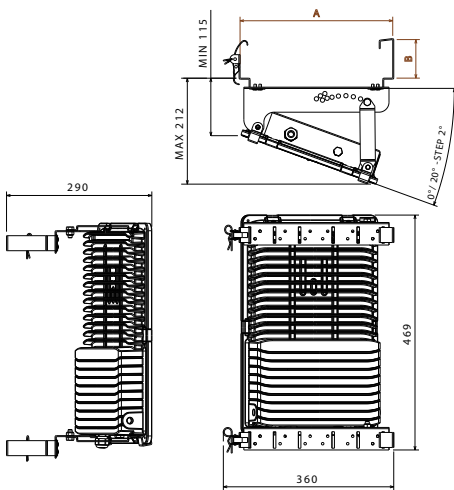
### Horizontal quick coupling



### Quick coupling with axial adjustment

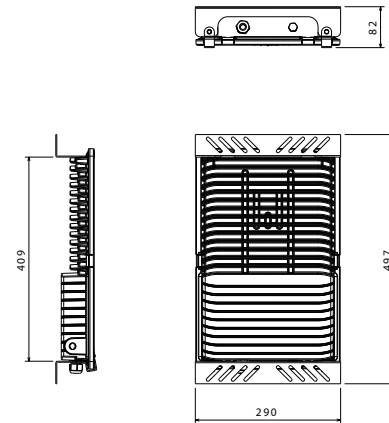


### Quick release with transversal adjustment

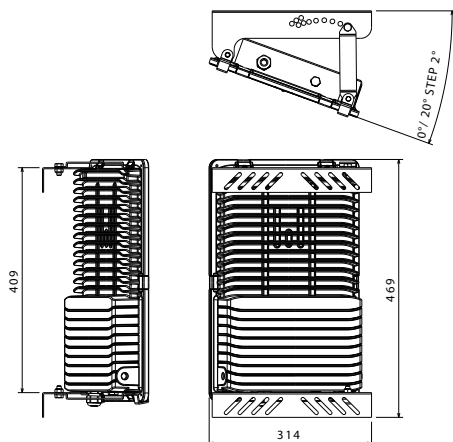


Cable tray	A (mm)	B (mm)
300x100	307	100
300x75	307	75
200x100	207	100
200x75	207	75
100x100	107	100
100x75	107	75

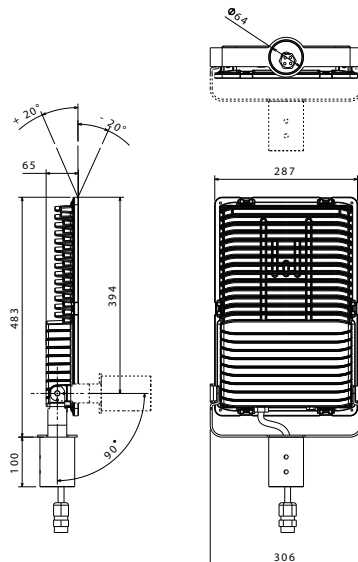
### Direct screw coupling



### Direct transversal screw coupling



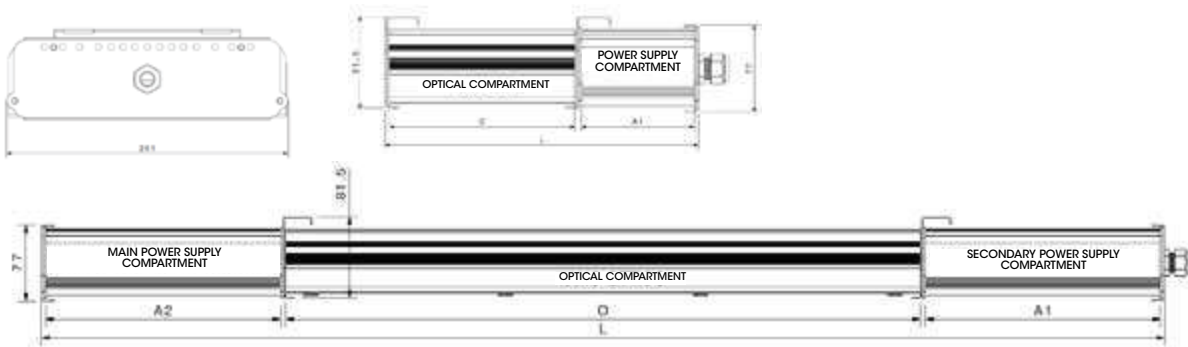
### Pole-top roadway lighting systems





## T54 series

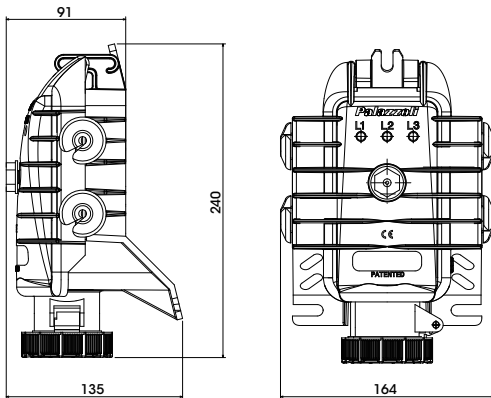
### Tunnel light fixture



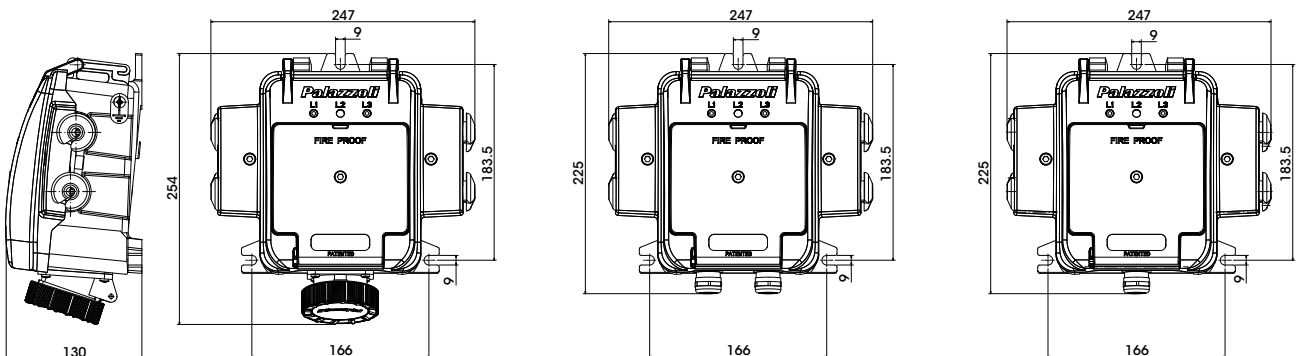
No. of LEDs	Rated flux (lm)	Power (W)	Non-dimmed				Reverberi or Umpi dimmed				Weight (Kg)
			A1	A2	O	L	A1	A2	O	L	
4	5220	35	180	-	171	364	180	-	171	364	4.9
6	7830	51	270	-	171	454	270	-	171	454	5.9
8	10440	67	270	-	251	534	270	-	251	534	6.7
12	15660	100	270	-	251	534	270	-	251	534	7.1
18	23490	150	270	-	330	613	270	-	330	613	8.2
24	31320	200	270	-	410	693	300	-	410	723	8.8
30	39150	249	270	-	489	772	300	-	489	802	9.7
36	46980	300	270	-	569	852	300	-	569	882	10.7
42	54810	348	270	270	648	1201	270	270	648	1201	14.6
48	62640	398	270	270	728	1281	270	270	728	1281	15.5
54	70.470	448	270	270	807	1360	270	270	807	1360	16.5

## TUNNEL54 series

### Insulation-piercing boxes for ordinary circuits



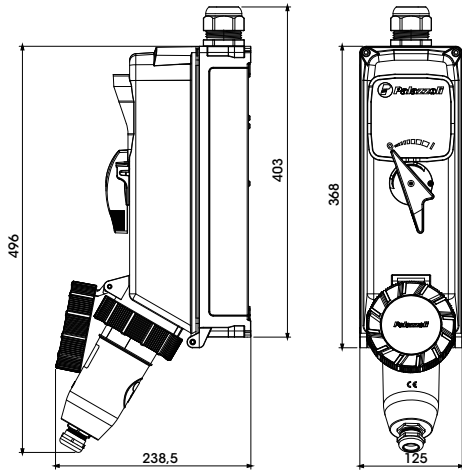
### Insulation-piercing boxes for emergency circuits



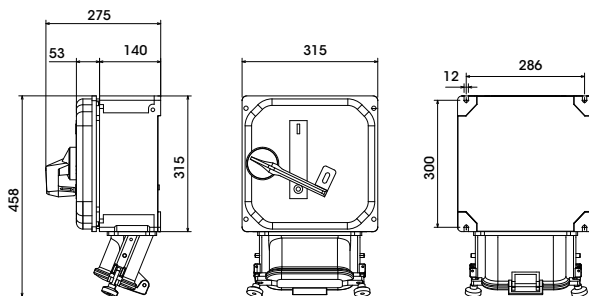


## TUNNEL54 series

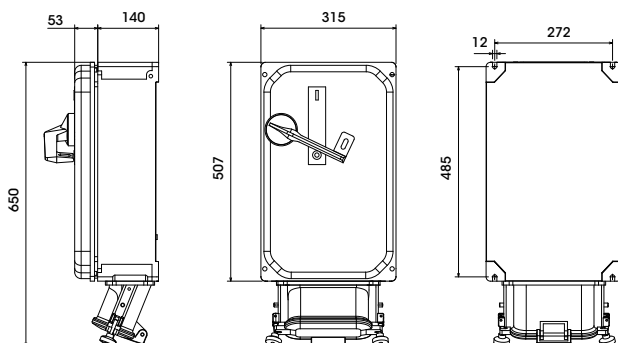
Sockets for fans  
63A



63A



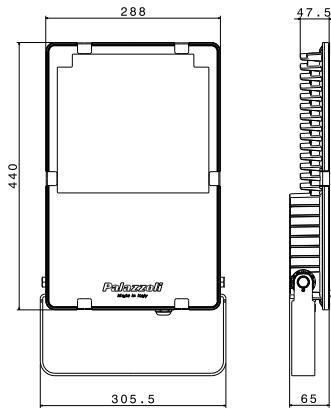
125A



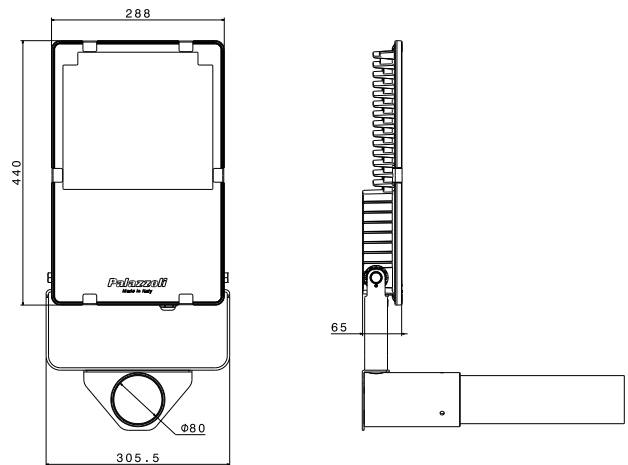


## TIGUA LED series

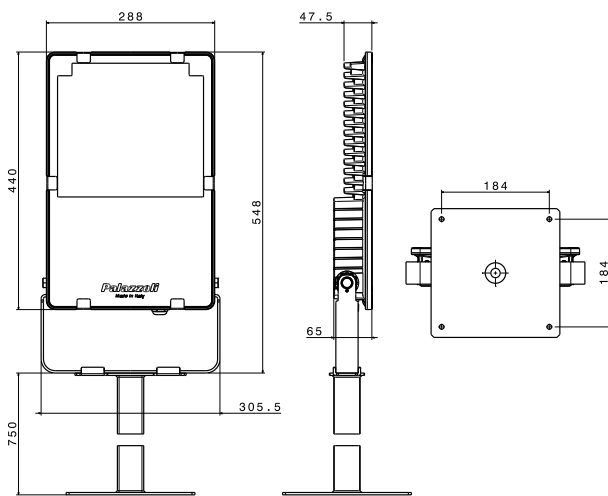
Wall-mounting with bracket



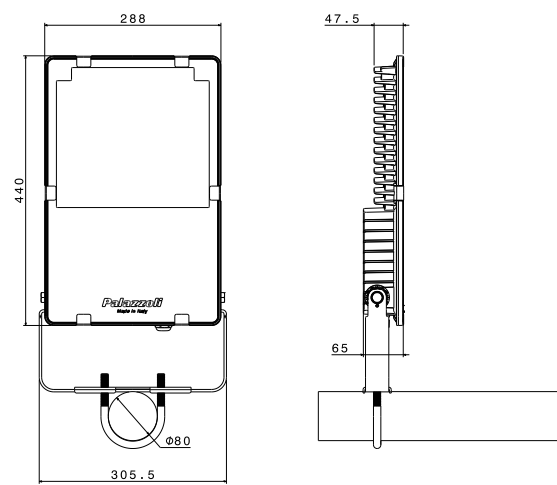
Pole-top mounting



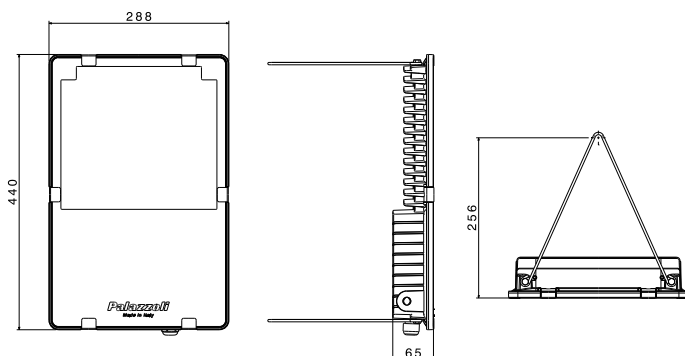
Wall-mounting with projecting bracket



Pole mounting with collar



Double chain suspension

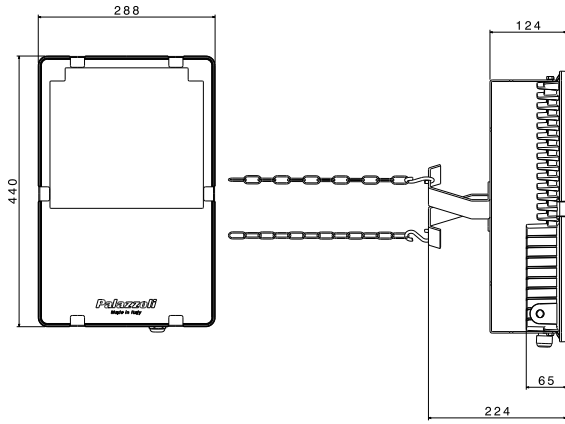




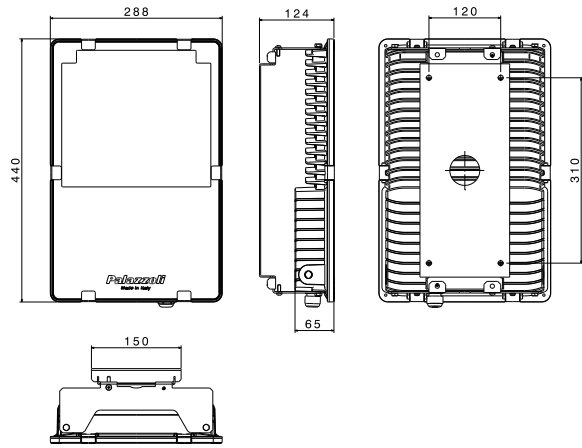


## TIGUA LED series

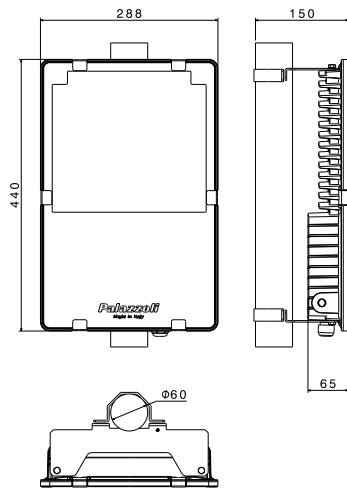
### Adjustable double chain suspension



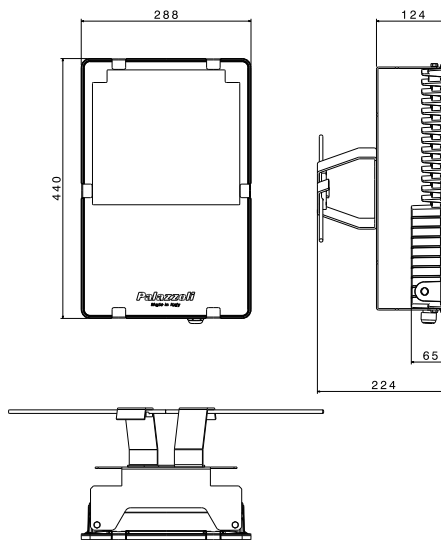
### Ceiling mounting



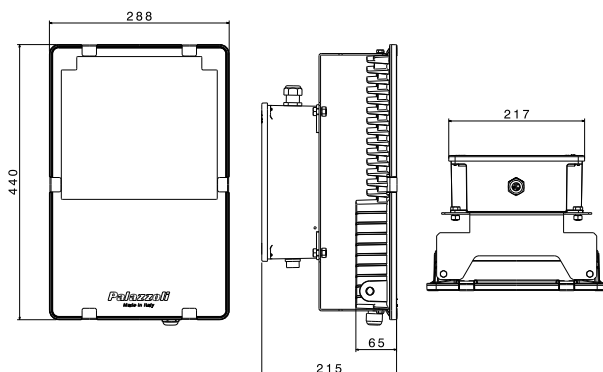
### Horizontal pole mounting



### Catenary wire suspension



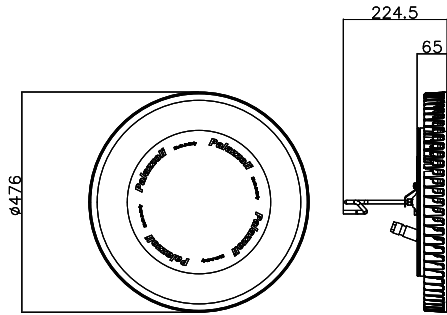
### Emergency



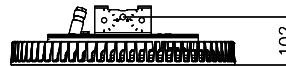
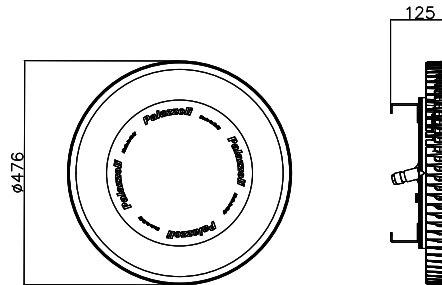


### MITO LED series

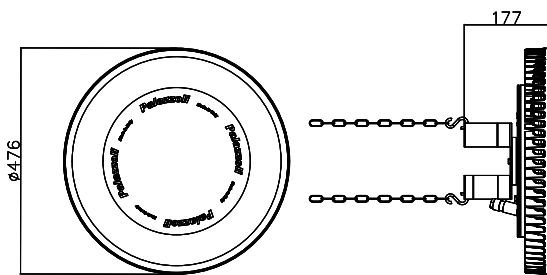
Suspension mounting



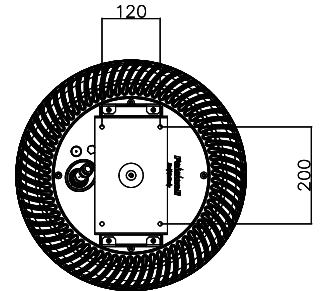
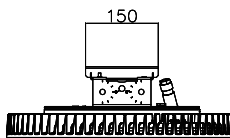
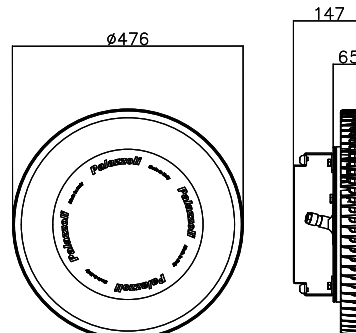
Double chain suspension



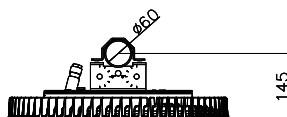
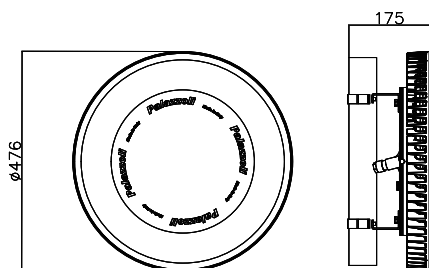
Adjustable double chain suspension



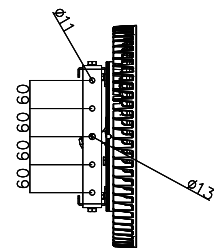
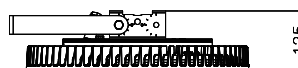
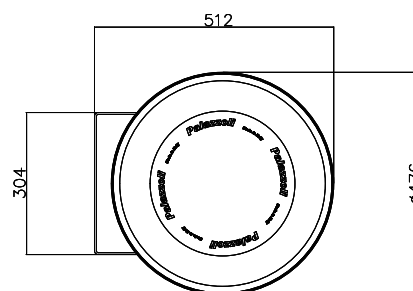
Ceiling mounting



Horizontal pole mounting



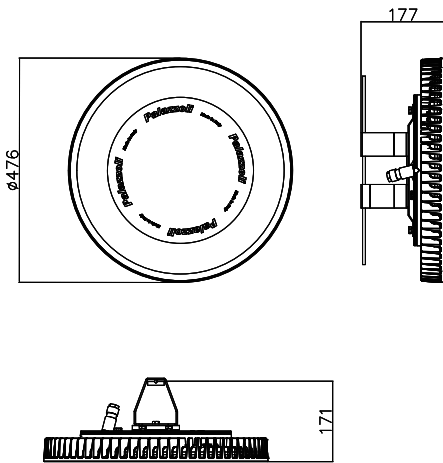
Wall-mounting with bracket



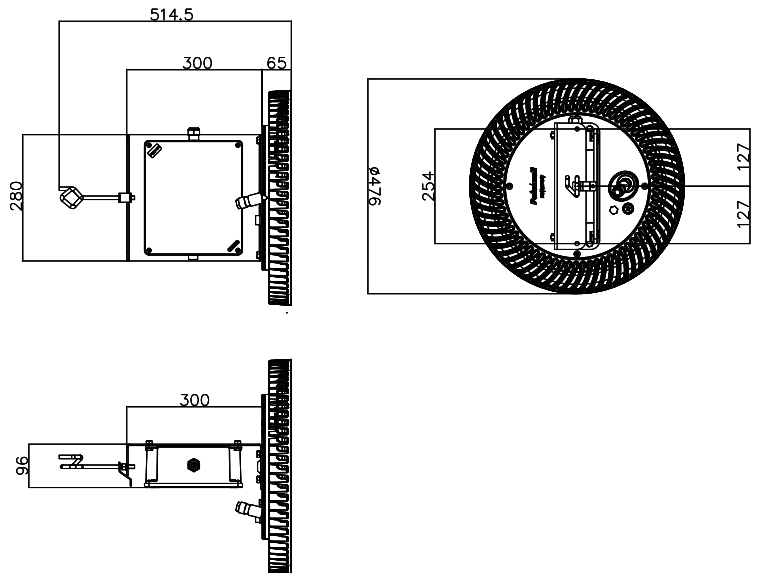


MITO LED series

Catenary wire suspension

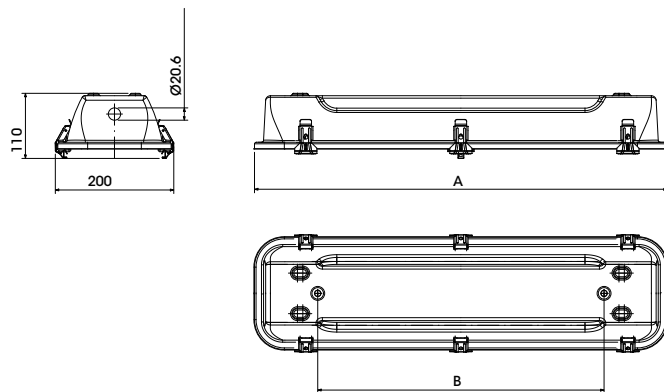


Emergency



RINO series

Steel light fixtures



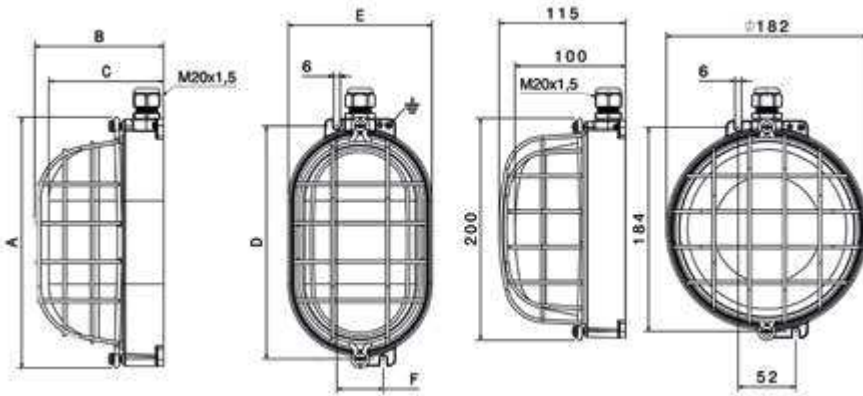
Fluorescent lamp type	A (mm)	B (mm)
14WT5 - 18WT8 - 24WT5	690	480
28WT5 - 36WT8 - 54WT5	1300	1090
35WT5 - 49WT5 - 58WT8 - 80WT5	1600	1395

LED type	A (mm)	B (mm)
20W - 22W - 24W - 40W (2x20)	690	480
38W - 40W (20+20) - 48W	1300	1090
44W - 58W	1600	1395



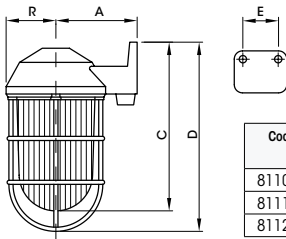
RINO series

Oval and round light fixtures in aluminium alloy



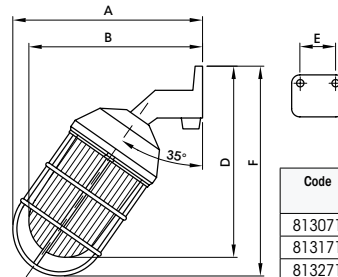
Power (W)	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)
18	199	119	100	184	112	42
28	226	122	105	210	130	42
53	295	142	127	278	170	52

90° well glass fixtures in aluminium alloy



Code	A (mm)	R (mm)	C (mm)	D (mm)	E (mm)
811071	86	57	175	195	35
811171	105	71	192	207	43
811271	125	89	231	251	49

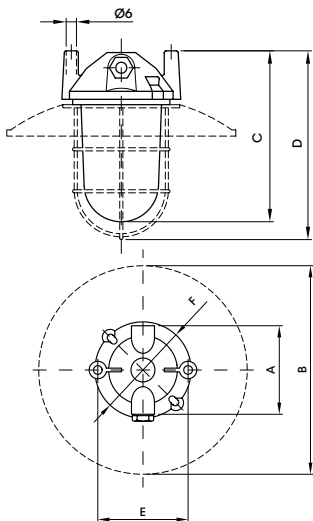
Angled well glass fixtures in aluminium alloy



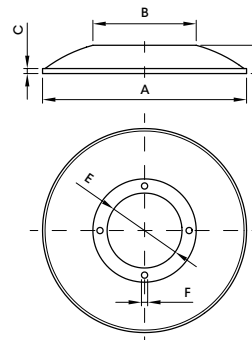
Code	A (mm)	B (mm)	D (mm)	F (mm)	E (mm)
813071	225	209	163	177	35
813171	246	230	183	197	43
813271	284	263	214	233	49

Well glass fixtures in aluminium alloy for ceiling mounting

Reflectors for well glass fixtures



Type	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)
60W	106	245	180	200	108	113
100W	134	275	200	220	135	140
200W	170	325	245	265	172	177

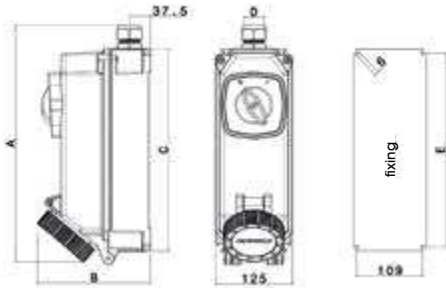


Code	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)
819030	245	124	6	34	90	7.5
819130	275	155	7	42	116	8
819230	325	196	7	42	150	8

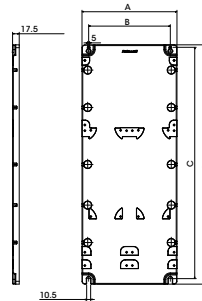


## TAIS-EX series

### Socket-outlets



### Mounting plates

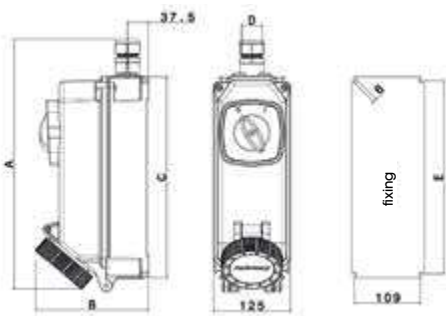


Rated current (A)	Poles	Entry cable Ø (mm)	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)
16	2P++	12-18	380	159	335	M25	319
	3P++			164			
	3P+N++			175			
20 / 32	2P++	16-25	380	177	335	M32	319
	3P++			185			
	3P+N++						
40 / 63	2P++	16-25	423	203	370	M32 / M40	354
	3P++						
	3P+N++						

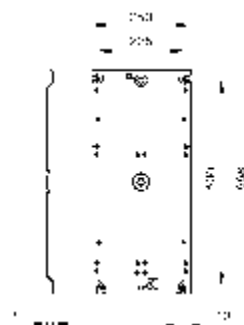
Code	A (mm)	B (mm)	C (mm)	D (mm)
538800	125	90	609	630
538802	250	215	609	630
538804	380	345	609	630

## ALUPRES-EX series

### Socket-outlets



### Mounting plates



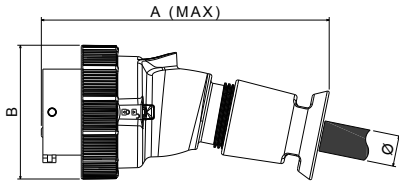
Rated current (A)	Poles	Entry cable Ø (mm)	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)
16	2P++	12-18	350	150	315	M25	300
	3P++			155			
	3P+N++			160			
25 / 32	2P++	16-25	390	168	315	M32	300
	3P++			170			
	3P+N++						
40 / 63	2P++	16-25	430	188	355	M32	340
	3P++						
	3P+N++						





## XCEE-EX series

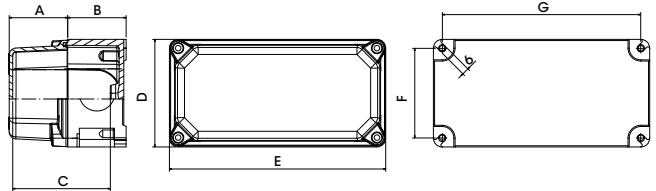
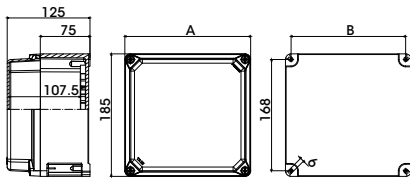
### Plugs



Rated current (A)	No. of poles	A (mm)	B (mm)	Ø (mm)
16	2P+⊕	167	72	6.3-18
	3P+⊕	173.5	80	
	3P+N+⊕	186.5	87	
32	2P+⊕	194	93	11-23
	3P+⊕	207	100	
	3P+N+⊕	207	100	

## TAIS-EX series

### Boxes

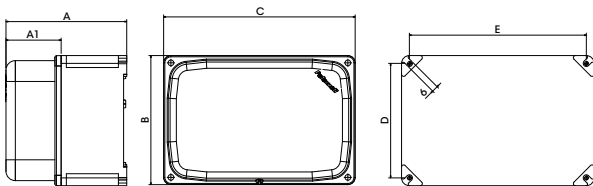


Code	A (mm)	B (mm)
<b>532200EX - 532240EX</b>	125	108
<b>532201EX</b>	190	173
<b>532202EX - 532242EX</b>	250	233
<b>532203EX</b>	290	273
<b>532204EX - 532244EX</b>	380	363

Code	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	G (mm)
<b>532035EX</b>	18	50	51	92	92	78	78
<b>532045EX</b>	18	50	51	92	125	78	111
<b>532055EX</b>	18	50	51	92	185	78	171
<b>532116EX</b>	18	75	75	125	125	111	111
<b>532117EX</b>	18	75	75	125	185	111	171
<b>532118EX</b>	18	75	75	125	250	111	238
<b>532005EX</b>	50	50	83	92	92	78	78
<b>532006EX</b>	50	50	83	92	125	78	111
<b>532015EX</b>	50	50	83	92	185	78	171
<b>532016EX</b>	50	75	100	125	125	111	111
<b>532017EX</b>	50	75	100	125	185	111	171
<b>532018EX</b>	50	75	100	125	250	111	238

## ALUPRES-EX series

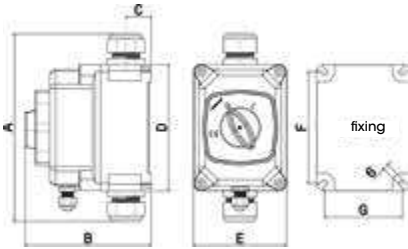
### Boxes



Code	A (mm)	A1 (mm)	B (mm)	C (mm)	D (mm)	E (mm)
<b>150021EX</b>	73	10	155	155	141	141
<b>511910EX</b>	77	35	92	92	78	78
<b>511911EX</b>	92	50	92	125	78	111
<b>511912EX</b>	92	50	92	185	78	171
<b>511913EX - 511914EX</b>	113	50	125	125	111	111
<b>511917EX - 511919EX</b>	113	50	125	252	111	238
<b>511920EX</b>	145	50	185	185	171	171
<b>511921EX</b>	145	57	185	252	169	236
<b>511922EX</b>	108	13	220	220	192	205
<b>511923EX</b>	197	57	252	252	224	237

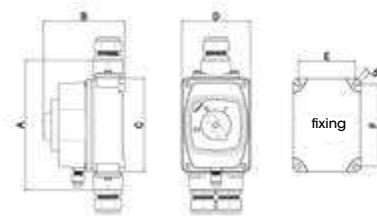
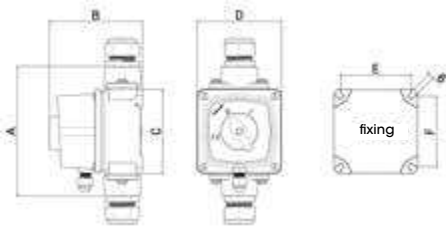


CAM-EX series in thermosetting GRP



Rated current (A)	Entry cable Ø (mm)	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	G (mm)
10-16	10-14	175	122	25	125	92	111	78
20-25	12-18							
32-40	16-25	260	165	37.5	185	125	169	109
50-63								

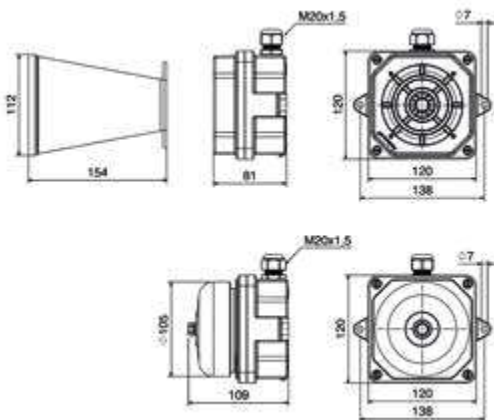
CAM-EX series in aluminium alloy



Code	Entry cable Ø (mm)	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)
272141EX	12-18	137.5	102	92	92	77	77
272142EX							
272143EX							
272144EX		-	148	185	125	110	170
272241EX		137.5	102	92	92	77	77
272242EX							
272243EX							
272244EX	-	148	185	125	110	170	
272301EX	16-25	232	137	125	125	110	110
272302EX							
272303EX							
272304EX		-	148	185		170	
282402EX		292	148	185	125	110	170
282403EX							
282404EX	-						

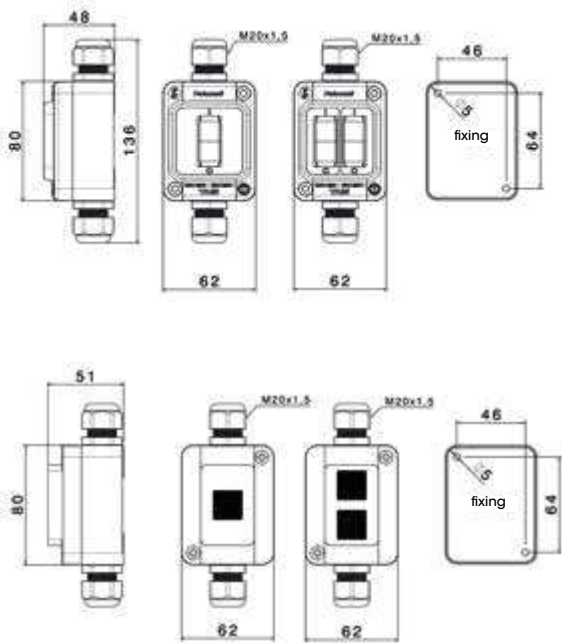
Code	Entry cable Ø (mm)	Exit cable Ø (mm)	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	
272146EX	12-18		-	148	185	125	110	170	
272147EX									
272246EX									
272247EX									
272306EX	16-25		-	148	185	125	110	170	
272307EX				168					
282406EX				-	190	252	185	235	171
282407EX									

ALARM-EX series

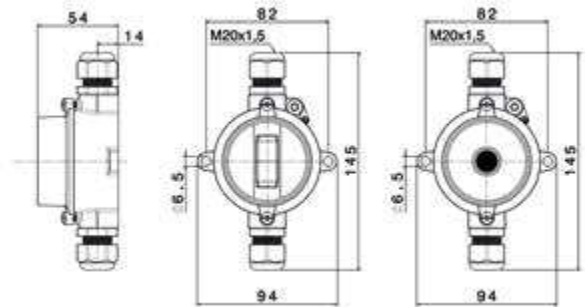




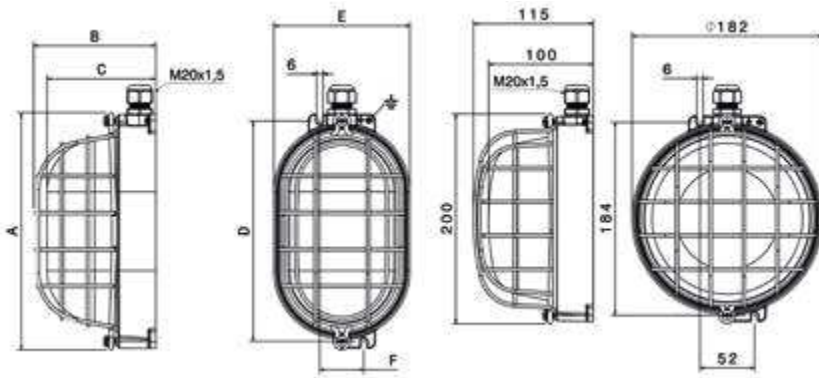
TAIS MIGNON-EX series



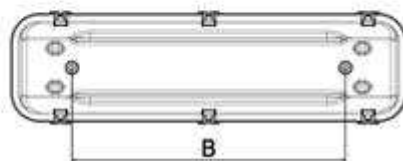
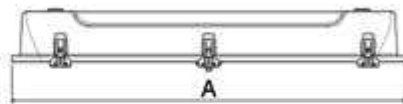
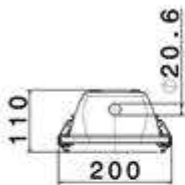
RONDÒ-EX series



RINO-EX series



Type of oval light fixture (W)	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)
18	199	119	100	184	112	42
28	226	122	105	210	130	42
53	295	142	127	278	170	52



Fluorescent lamp type	A (mm)	B (mm)
18WT8	690	480
36WT8	1300	1090
58WT8	1600	1395

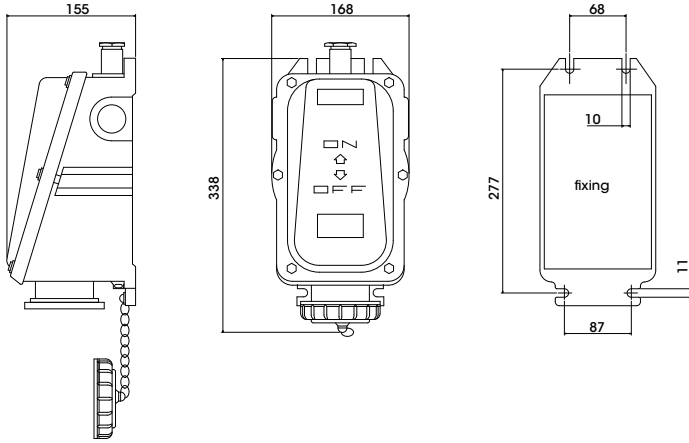
LED type	A (mm)	B (mm)
19W - 24W	690	480
36W - 38W	1300	1090
44W	1600	1395



NAVE series

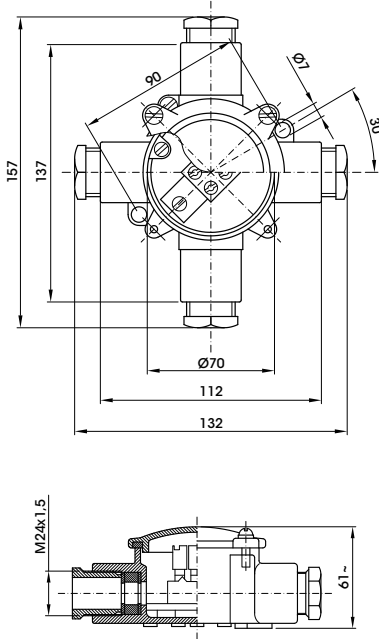
UNAV 2169

Socket for container

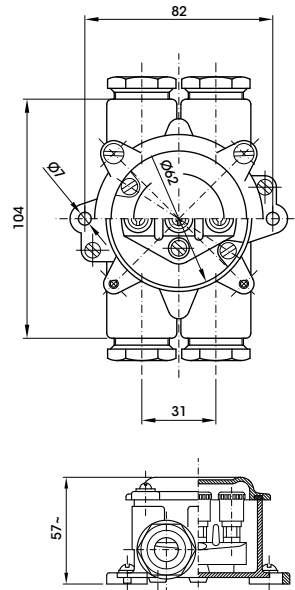


UNAV 1398

Junction boxes in brass

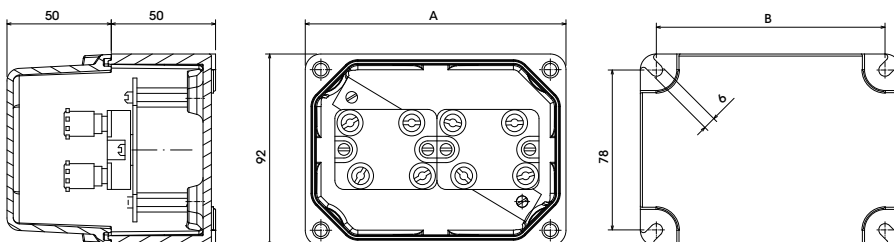


UNAV 2161



UNAV 2181

Junction boxes in thermosetting GRP

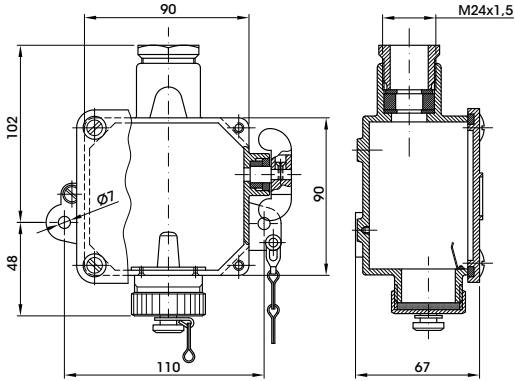


Code	A (mm)	B (mm)
115200	92	78
115201	125	111
115202	125	111

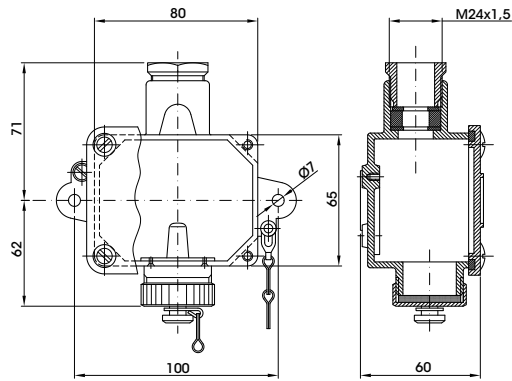


### NAVE series

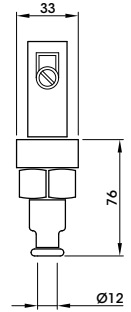
UNAV 1436  
Interlocked socket-outlet



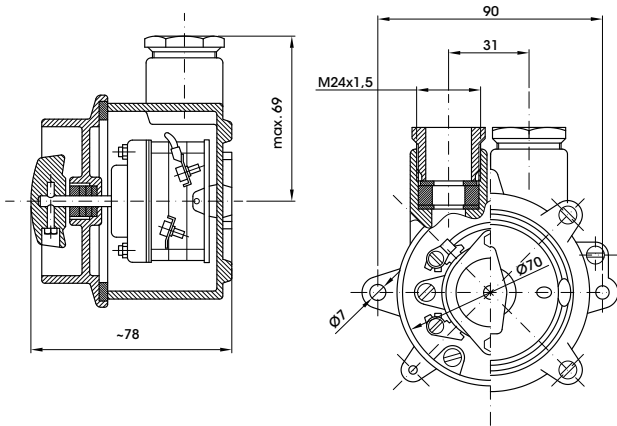
UNAV 1435  
Socket



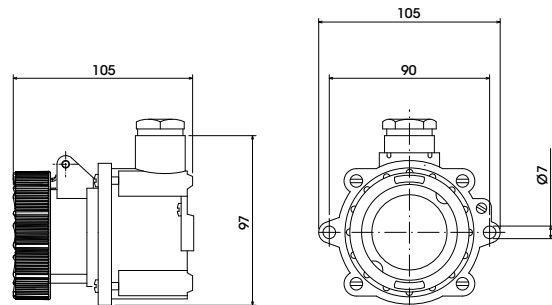
UNAV 1437  
Plug



UNAV 2162  
Switches and two-way switches in brass

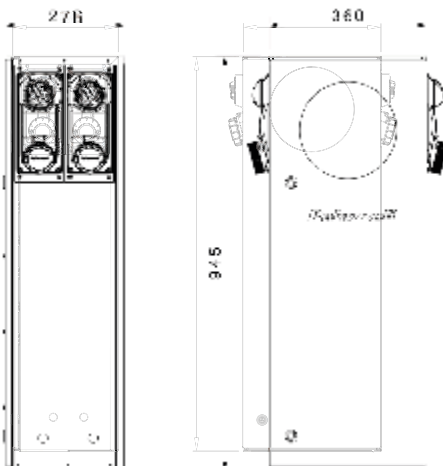


UNAV 2166  
Industrial socket-outlets

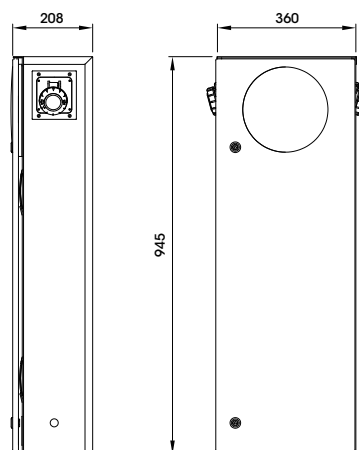


### B-SMART series

Standard distribution turrets



Compact distribution turrets

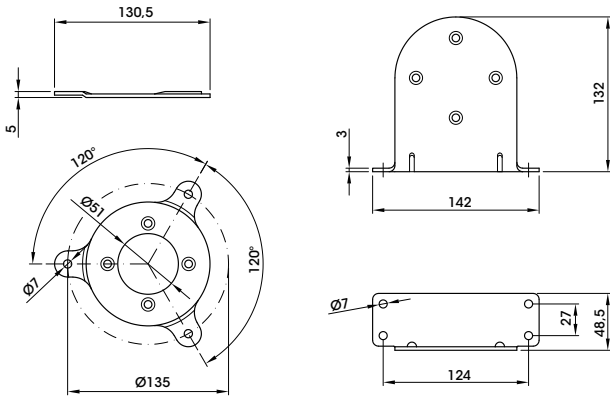




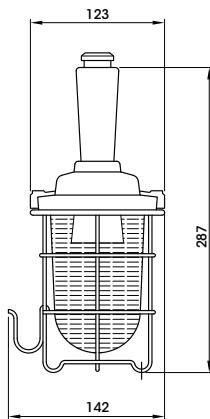


NAVE series

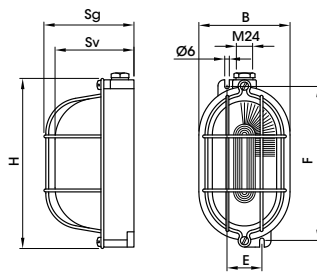
Accessories for well glass fixtures



UNAV 2137  
Portable well glass fixture



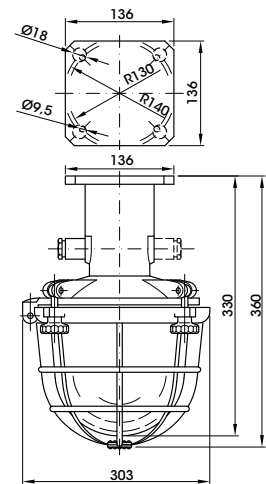
UNAV 2135  
Oval light fixtures



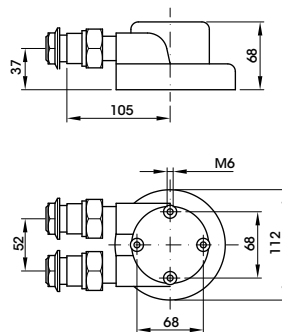
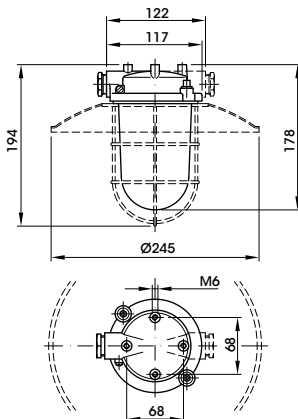
Type of oval light fixture (W)	Without cage Sv
60	100
75	105
1000	127

With wire cage Sg	Common dimensions (mm)			
	B	H	E	F
119	112	199	42	184
122	130	226	42	210
142	170	295	52	278

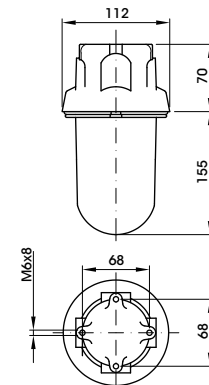
UNAV 2139  
Well glass fixture



UNAV 2133-2134  
Cylindrical well glass fixtures



UNAV 2132  
Cylindrical well glass fixture





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Palazzoli code	Marks	Pack Qty	Catalogue page	Palazzoli code	Marks	Pack Qty	Catalogue page	Palazzoli code	Marks	Pack Qty	Catalogue page	Palazzoli code	Marks	Pack Qty	Catalogue page	Palazzoli code	Marks	Pack Qty	Catalogue page
<b>1</b>				<b>151045</b>		1	248	<b>151913</b>		1	243	<b>154648</b>		1	243	<b>190236</b>		1	70
<b>101021</b>	3	12	207	<b>151241</b>		1	249	<b>151914</b>		1	243	<b>154654</b>		1	243	<b>190246</b>		1	70
<b>101022</b>		10	207	<b>151242</b>		1	249	<b>151915</b>		1	243	<b>154704</b>		1	242	<b>2</b>			
<b>101025</b>	7	12	208	<b>151252</b>		1	249	<b>151920</b>		1	243	<b>154706</b>		1	242	<b>200016</b>	7	1	173
<b>101031</b>	6	10	207	<b>151264</b>		1	249	<b>151921</b>		1	243	<b>154708</b>		1	242	<b>201151</b>	1	1	212
<b>101035</b>	7	10	208	<b>151275</b>	1	1	249	<b>151922</b>		1	243	<b>154712</b>		1	242	<b>201152</b>	1	1	212
<b>101041</b>		12	207	<b>151285</b>	1	1	249	<b>151923</b>		1	243	<b>154718</b>		1	242	<b>201155</b>	1	1	212
<b>101045</b>		12	208	<b>151311</b>	1	1	248	<b>151924</b>		1	243	<b>154724</b>		1	242	<b>201156</b>	1	1	212
<b>101061</b>		12	207	<b>151322</b>	1	1	248	<b>151925</b>		1	243	<b>154730</b>		1	242	<b>201162</b>	1	1	212
<b>101081</b>	11	12	208	<b>151334</b>	1	1	248	<b>151930</b>		1	253	<b>154736</b>		1	242	<b>201166</b>	1	1	212
<b>101092</b>		10	211	<b>151345</b>	1	1	248	<b>151931</b>		1	253	<b>154742</b>		1	242	<b>202261</b>	1-3-7	1	204
<b>101095</b>		10	208	<b>151441</b>	1	1	249	<b>151932</b>		1	253	<b>154748</b>		1	242	<b>202262</b>	1-3-7	10	204
<b>101096</b>		20	208	<b>151442</b>	1	1	249	<b>151933</b>		1	253	<b>154754</b>		1	242	<b>202265</b>	1-3-7	1	204
<b>101121</b>	7	8	207	<b>151452</b>	1	1	249	<b>151940</b>		1	253	<b>154806</b>		1	243	<b>202266</b>	1-3-7	1	204
<b>101151</b>	7	10	207	<b>151464</b>	1	1	249	<b>151941</b>		1	253	<b>154812</b>	1	1	243	<b>202271</b>	1-3-7	10	204
<b>101156</b>		10	208	<b>151475</b>	1	1	249	<b>151942</b>		1	253	<b>154818</b>	1	1	243	<b>202275</b>	1-3-7	1	204
<b>101157</b>		10	208	<b>151485</b>	1	1	249	<b>152130</b>		1	189	<b>157001</b>	1	1	247	<b>202276</b>	1-3-7	10	204
<b>101161</b>	1	207		<b>151531</b>	1	1	252	<b>152140</b>		1	189	<b>157011</b>		1	247	<b>202282</b>	1-3-7	10	204
<b>101191</b>	1	211		<b>151532</b>	1	1	252	<b>152160</b>		1	189	<b>157012</b>		1	247	<b>202283</b>	1-3-7	10	204
<b>101221</b>	1	211		<b>151533</b>	1	1	252	<b>152230</b>		1	189	<b>157050</b>		20	247	<b>202291</b>	1-3-7	1	209
<b>112020</b>		1	213	<b>151534</b>		1	252	<b>152240</b>		1	189	<b>157051</b>	1	20	247	<b>202292</b>	1-3-7	1	209
<b>112030</b>		10	213	<b>151535</b>		1	252	<b>152260</b>		1	189	<b>157060</b>	1	100	247	<b>202293</b>	1-3-7	1	209
<b>112040</b>	1	213		<b>151541</b>		1	252	<b>152330</b>		1	189	<b>157101</b>	1	1	247	<b>202295</b>	1-3-7	1	209
<b>112094</b>	30	213		<b>151542</b>		1	252	<b>152340</b>		1	189	<b>157111</b>	1	1	247	<b>202296</b>	1-3-7	1	209
<b>113020</b>	1	213		<b>151543</b>	1	1	252	<b>152360</b>		1	189	<b>157112</b>	1	1	247	<b>202299</b>	7	1	210
<b>113030</b>	10	213		<b>151544</b>	1	1	252	<b>152430</b>		1	189	<b>158001</b>	1	1	247	<b>208103</b>	7	1	171
<b>113040</b>	1	213		<b>151553</b>	1	1	253	<b>152440</b>		1	189	<b>158011</b>	1	1	247	<b>208104</b>	7-8	1	171
<b>113094</b>	20	213		<b>151564</b>	1	1	253	<b>152460</b>		1	189	<b>158012</b>	1	1	247	<b>208162</b>	7	1	171
<b>113194</b>	1	161		<b>151575</b>		1	253	<b>152530</b>		1	189	<b>158101</b>	1	1	247	<b>208163</b>	7	1	171
<b>115125</b>	1	353		<b>151585</b>		1	253	<b>152540</b>		1	189	<b>158111</b>		1	247	<b>208164</b>	7	1	171
<b>115135</b>	1	353		<b>151611</b>		1	251	<b>154304</b>		1	242	<b>158112</b>		1	247	<b>208253</b>	7	1	171
<b>115145</b>	1	353		<b>151612</b>		1	251	<b>154308</b>		1	242	<b>158201</b>		1	247	<b>208254</b>	7	1	171
<b>115200</b>	1	353		<b>151613</b>	1	1	251	<b>154312</b>		1	242	<b>158211</b>		1	247	<b>208322</b>	7	1	171
<b>115201</b>	1	353		<b>151614</b>	1	1	251	<b>154406</b>		1	242	<b>159030</b>		1	161	<b>208323</b>	7-8	1	171
<b>115202</b>	4	353		<b>151641</b>	1	1	249	<b>154412</b>		1	242	<b>159032</b>		1	161	<b>208324</b>	7-8	1	171
<b>115628</b>	1	353		<b>151642</b>	1	1	249	<b>154418</b>		1	242	<b>159033</b>		5	161	<b>208403</b>	7	1	171
<b>115638</b>	8	1	353	<b>151652</b>	1	1	249	<b>154424</b>		1	242	<b>159034</b>		1	161	<b>208404</b>	7	1	171
<b>115648</b>	8	1	353	<b>151664</b>	1	1	249	<b>154430</b>		1	242	<b>159035</b>		1	161	<b>208632</b>	7	1	171
<b>150001</b>	8	1	157	<b>151675</b>		1	249	<b>154436</b>		1	242	<b>159036</b>		1	161	<b>208633</b>	7-8	1	171
<b>150006</b>	8	1	157	<b>151685</b>		1	249	<b>154442</b>		1	242	<b>159037</b>		1	161	<b>208634</b>	7-8	1	171
<b>150011</b>	8	1	157	<b>151880</b>		1	253	<b>154448</b>		1	242	<b>159040</b>		10	161	<b>209103</b>	7	1	171
<b>150016</b>	8	1	157	<b>151881</b>		1	253	<b>154454</b>		1	242	<b>159042</b>		5	161	<b>209104</b>	7	1	171
<b>150021</b>	8	1	157	<b>151890</b>		1	253	<b>154604</b>		1	243	<b>159043</b>		1	161	<b>209162</b>	7	1	171
<b>150026</b>	8	1	157	<b>151891</b>		1	253	<b>154606</b>		1	243	<b>159044</b>		1	161	<b>209163</b>	7	1	171
<b>150031</b>	8	1	157	<b>151900</b>		1	253	<b>154608</b>		1	243	<b>159045</b>	7-8	1	161	<b>209164</b>	7	1	171
<b>150041</b>	8	1	157	<b>151901</b>		10	249	<b>154612</b>		1	243	<b>159046</b>	7-8	1	161	<b>209253</b>	7	1	171
<b>150051</b>	1	157		<b>151902</b>		10	249	<b>154618</b>		1	243	<b>190124</b>	7-8	1	70	<b>209254</b>	7	1	171
<b>150061</b>	1	157		<b>151903</b>		10	249	<b>154624</b>		1	243	<b>190126</b>	7-8	1	70	<b>209322</b>	7	1	171
<b>151011</b>	1	248		<b>151910</b>		1	243	<b>154630</b>		1	243	<b>190136</b>	7-8	1	70	<b>209323</b>	7	1	171
<b>151022</b>	1	248		<b>151911</b>		1	243	<b>154636</b>		1	243	<b>190146</b>	7-8	1	70	<b>209324</b>	7	1	171
<b>151034</b>	1	248		<b>151912</b>		1	243	<b>154642</b>		1	243	<b>190226</b>	7-8	1	70	<b>209403</b>	7	1	171

Marks: 1=IMQ 2=VDE 3=PR.i.n.a. 4=M.M.I. 5=ENEC 6=ULus 7=UKR 8=RETIE 9=KEMA 10=EX 11=SIH-Israel 12=IECEX 13=INMETRO



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Palazzoli code	Marks	Pack Qty	Catalogue page	Palazzoli code	Marks	Pack Qty	Catalogue page	Palazzoli code	Marks	Pack Qty	Catalogue page	Palazzoli code	Marks	Pack Qty	Catalogue page	Palazzoli code	Marks	Pack Qty	Catalogue page
209404	7	1	171	211256	1-6-7	1	178	216201	1-3-6-7	1	179	236161	1-3-6-7	1	178	265633	7	1	172
209632	7	1	171	212321	7	1	178	216202	1-3-6-7	1	179	236162	1-3-6-7	1	178	265634	7	1	172
209633	7	1	171	212322	7	1	178	216203	1-3-6-7	1	179	236163	1-3-6-7	1	178	266103	7	1	172
209634	7	1	171	212323	7	1	178	216204	1-3-6-7	1	179	236201	1-3-6-7	1	178	266104	7	1	172
210121	1-3-6-7	1	178	212324	7	1	178	216251	1-3-6-7	1	179	236202	1-3-6-7	1	178	266162	1-7	1	172
210122	1-3-6-7	1	178	212401	7	1	178	216252	1-3-6-7	1	179	236203	1-3-6-7	1	178	266163	1-7	1	172
210123	1-3-6-7	1	178	212402	7	1	178	216253	1-3-6-7	1	179	236251	1-3-6-7	1	178	266164	1-7	1	172
210124	1-3-6-7	1	178	212403	7	1	178	216254	1-3-6-7	1	179	236252	1-3-6-7	1	178	266322	1-7	1	172
210125	1-6-7	1	178	212404	7	1	178	217321	7	1	179	236253	1-3-6-7	1	178	266323	1-7	1	172
210126	1-6-7	1	178	212631	7	1	178	217322	7	1	179	237121	1-3-6-7	1	178	266324	1-7	1	172
210161	1-3-6-7	1	178	212632	7	1	178	217323	7	1	179	237122	1-3-6-7	1	178	266632	7	1	172
210162	1-3-6-7	1	178	212633	7	1	178	217324	7	1	179	237123	1-3-6-7	1	178	266633	7	1	172
210163	1-3-6-7	1	178	212634	7	1	178	217401	7	1	179	237161	1-3-6-7	1	178	266634	7	1	172
210164	1-3-6-7	1	178	214123	1-3-6-7	1	178	217402	7	1	179	237162	1-3-6-7	1	178	267103	7	1	172
210165	1-6-7	1	178	214124	1-3-6-7	1	178	217403	7	1	179	237163	1-3-6-7	1	178	267104	7	1	172
210166	1-6-7	1	178	214163	1-3-6-7	1	178	217404	7	1	179	237201	1-3-6-7	1	178	267162	1-7	1	172
210201	1-3-6-7	1	178	214164	1-3-6-7	1	178	217631	7	1	179	237202	1-3-6-7	1	178	267163	1-7	1	172
210202	1-3-6-7	1	178	214203	1-3-6-7	1	178	217632	7	1	179	237203	1-3-6-7	1	178	267164	1-7	1	172
210203	1-3-6-7	1	178	214204	1-3-6-7	1	178	217633	7	1	179	237251	1-3-6-7	1	178	267253	1-7	1	172
210204	1-3-6-7	1	178	214253	1-3-6-7	1	178	217634	7	1	179	237252	1-3-6-7	1	178	267254	1-7	1	172
210205	1-6-7	1	178	214254	1-3-6-7	1	178	218123	1-3-6-7	1	179	237253	1-3-6-7	1	178	267322	1-7	1	172
210206	1-6-7	1	178	214323	7	1	178	218163	1-3-6-7	1	179	239611		5	380	267323	1-7	1	172
210251	1-3-6-7	1	178	214324	7	1	178	218203	1-3-6-7	1	179	239612		5	380	267324	1-7	1	172
210252	1-3-6-7	1	178	214403	7	1	178	218253	1-3-6-7	1	179	239613		5	380	267403	7	1	172
210253	1-3-6-7	1	178	214404	7	1	178	219123	1-3-6-7	1	179	249538	1-7-8	1	368	267404	7	1	172
210254	1-3-6-7	1	178	214633	7	1	178	219163	1-3-6-7	1	179	249550	1-7-8	1	368	267632	7	1	172
210255	1-6-7	1	178	214634	7	1	178	219203	1-3-6-7	1	179	259538	1-7-8	1	368	267633	7	1	172
210256	1-6-7	1	178	215121	1-3-6-7	1	179	219253	1-3-6-7	1	179	259550	8	1	368	267634	7	1	172
211121	1-3-6-7	1	178	215122	1-3-6-7	1	179	220323	3-7	1	179	261021	1	1	213	268103	7	1	172
211122	1-3-6-7	1	178	215123	1-3-6-7	1	179	220403	3-7	1	179	261403	1-3-7	1	205	268104	7	1	172
211123	1-3-6-7	1	178	215124	1-3-6-7	1	179	220633	3-7	1	179	261413	1-3-7	1	205	268162	1-7	1	172
211124	1-3-6-7	1	178	215161	1-3-6-7	1	179	221123	1-3-6-7	1	179	261432		1	205	268163	1-7	1	172
211125	1-6-7	1	178	215162	1-3-6-7	1	179	221163	1-3-6-7	1	179	261433	1-3-7	1	205	268164	1-7	1	172
211126	1-6-7	1	178	215163	1-3-6-7	1	179	221203	1-3-6-7	1	179	261435	1-3-7	10	205	268253	1-7	1	172
211161	1-3-6-7	1	178	215164	1-3-6-7	1	179	221253	1-3-6-7	1	179	261445	1-3-7	1	205	268254	1-7	1	172
211162	1-3-6-7	1	178	215201	1-3-6-7	1	179	222123	1-3-6-7	1	179	261493	1-7	1	209	268322	1-7	1	172
211163	1-3-6-7	1	178	215202	1-3-6-7	1	179	222163	1-3-6-7	1	179	261495	1-3-7	1	209	268323	1-7	1	172
211164	1-3-6-7	1	178	215203	1-3-6-7	1	179	222203	1-3-6-7	1	179	261496	1-3-7	1	209	268324	1-7	1	172
211165	1-6-7	1	178	215204	1-3-6-7	1	179	222253	1-3-6-7	1	179	265103	7	1	172	268403	7	1	172
211166	1-6-7	1	178	215251	1-3-6-7	1	179	223323	3-7	1	179	265104	7	1	172	268404	7	1	172
211201	1-3-6-7	1	178	215252	1-3-6-7	1	179	223403	3-7	1	179	265162	1-7	1	172	268632	7	1	172
211202	1-3-6-7	1	178	215253	1-3-6-7	1	179	223633	3-7	1	179	265163	1-7	1	172	268633	7	1	172
211203	1-3-6-7	1	178	215254	1-3-6-7	1	179	232616		1	355	265164	1-7	1	172	268634	7	1	172
211204	1-3-6-7	1	178	216121	1-3-6-7	1	179	232626		1	355	265253	1-7	1	172	270225	7	1	173
211205	1-6-7	1	178	216122	1-3-6-7	1	179	232627		1	355	265254	1-7	1	172	270226		1	173
211206	1-6-7	1	178	216123	1-3-6-7	1	179	232628		1	355	265322	1-7	1	172	270227		1	173
211251	1-3-6-7	1	178	216124	1-3-6-7	1	179	232636		1	355	265323	1-7	1	172	270230		1	173
211252	1-3-6-7	1	178	216161	1-3-6-7	1	179	232637		1	355	265324	1-7	1	172	270231		1	173
211253	1-3-6-7	1	178	216162	1-3-6-7	1	179	236121	1-3-6-7	1	178	265403	7	1	172	270232		1	173
211254	1-3-6-7	1	178	216163	1-3-6-7	1	179	236122	1-3-6-7	1	178	265404	7	1	172	270235		1	173
211255	1-6-7	1	178	216164	1-3-6-7	1	179	236123	1-3-6-7	1	178	265632	7	1	172	270236		1	180

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270237	7	1	180	272243	7	1	184	275216	7	1	196	282402	7	1	184	292102	7	1	182
270239	7	1	180	272244	7	1	184	275217	7	1	196	282403	7	1	184	292103	7	1	182
270240	7	1	180	272246	7	1	185	275312	7	5	196	282404	7	1	184	292105	7	10	194
270241		1	173	272247	7	1	185	275313	7	5	196	282406	7	1	185	292116	7	1	194
270242		1	173	272252	7	1	186	275316	7	1	196	282407	7	1	185	292125	7	10	194
270243		1	180	272253	7	1	185	275317	7	1	196	282412	7	1	186	292136	7	1	194
270247	7	1	180	272255	7	1	186	276503	7	1	192	282413	7	1	185	292146	7	1	194
270248	7	1	180	272301	7	1	184	276507	7	1	192	282603	7	1	184	292156	7	1	194
270350	7	1	173	272302	7	1	184	276513	7	1	193	282607	7	1	185	292201	7	1	182
270500	7	1	173	272303	7	1	184	276600	7	1	192	282703	7	1	184	292202	7	1	182
270512	7	1	196	272304	7	1	184	276601	7	5	192	283053	7	1	187	292203	7	1	182
270513	7	1	196	272306	7	1	185	276602	7	5	192	283063	7	1	187	292301	7	1	182
270517	7	1	196	272307	7	1	185	276603	7	5	192	283073	7	1	187	292302	7	1	182
270528	7	1	197	272312	7	1	186	276604	7	1	192	283082	7	1	187	292303	7	1	182
270538	7	1	197	272313	7	1	185	276605	7	1	192	284042	7	1	187	292305	7	1	194
270628	7	2	197	272502	7	1	184	276606	7	1	192	284043	7	1	187	292316	7	1	194
270638	7	1	197	272503	7	1	184	276607	7	1	192	285412	7	5	196	292325	7	1	194
270728	7	1	197	272507	7	1	185	276608	7	1	193	285413	7	5	196	292336	7	1	194
270900	7	10	173-197	274031	7	1	187	276609	7	1	193	285416	7	1	196	292356	7	1	194
270901	7	1	381	274032	7	1	187	276610	7	1	193	285417	7	1	196	292411	7	1	182
270902	7	1	374	274033	7	1	187	276611	7	1	193	286603	7	1	192	292412	7	1	182
270903	7	1	374	274225	7	1	180	276612	7	5	193	286607	7	1	192	292413	7	1	182
270911	7	1	381	274302	7	1	187	276613	7	1	193	286703	7	1	192	292503	7	1	182
270912	7	1	374	274303	7	1	187	276701	7	1	192	286732	7	1	192	292508	7	1	198
270913	7	1	374	274304	7	1	187	276702	7	5	192	286762	7	1	192	292518	7	1	198
270914	7	1	374	274350	7	1	180	276703	7	5	192	286782	7	1	192	292528	7	2	198
270916	7	1	374	274500	7	1	180	276705	7	1	192	286902	7	1	192	292538	7	1	198
270921	7	1	381	274634	7	1	375	276706	7	1	192	286903	7	5	192	292603	7	1	182
270922	7	1	373	274637	7	1	375	276707	7	1	192	286906	7	1	192	292623	7	1	182
270932	7	1	373	274644	7	1	375	276712	7	5	193	286907	7	1	192	292703	7	1	182
270934	7	1	373	274647	7	1	375	276713	7	1	193	286912	7	1	193	292708	7	1	198
270936	7	1	373	274654	7	1	375	276801	7	1	192	286913	7	1	193	292728	7	1	198
270941	7	1	381	274657	7	1	375	276802	7	1	192	290163	7	1	100-183	292733	7	1	182
270951	7	1	381	274772	7	1	377	276803	7	1	192	290164	7	1	100-183	293053	7	1	183
270961	7	1	381	274808	7	1	375	276805	7	1	192	290323	7	1	100-183	293063	7	1	183
271225	7	1	180	274818	7	1	375	276806	7	1	192	290324	7	1	100-183	293263	7	1	183
271350	7	1	180	274828	7	1	375	276807	7	1	192	290521	7	1	183	295107	1-7	10	198
271500	7	1	180	274834	7	1	375	276812	7	1	193	290522	7	1	183	295108	1-7	10	198
272141	7	1	184	274837	7	1	375	276813	7	1	193	290523	7	1	183	295117	1-7	1	197
272142	7	1	184	274844	7	1	375	276910	7	1	194	290641	7	1	183	295118	7	1	198
272143	7	1	184	274847	7	1	375	276911	7	1	194	290642	7	1	183	295127	1-7	1	198
272144	7	1	184	274854	7	1	375	276912	7	1	194	290643	7	1	183	295128	1-7	10	198
272146	7	1	185	274857	7	1	375	276913	7	1	194	290762	7	1	100-183	295137	7	1	197
272147	7	1	185	274938	7	1	375	276930	7	1	194	290763	7	1	100-183	295138	7	1	198
272148	7	1	186	274948	7	1	375	276931	7	1	194	291163	7	1	100	295147	7	5	198
272152	7	1	186	275112	7	10	196	276932	7	1	194	291164	7	1	100	295157	7	5	197
272153	7	1	185	275113	7	10	196	280612	7	1	196	291323	7	1	100	295167	7	1	198
272155	7	1	186	275116	7	1	196	280613	7	1	196	291324	7	1	100	295177	7	1	197
272178	7	1	186	275117	7	1	196	280617	7	1	196	291633	7	1	100	295308	7	5	198
272241	7	1	184	275212	7	10	196	280712	7	1	196	291634	7	1	100	295318	7	1	198
272242	7	1	184	275213	7	10	196	280713	7	1	196	292101	7	1	182	295328	7	5	198

Marks: 1=IMQ 2=VDE 3=PR.R.I.n.a. 4=M.M.I. 5=ENEC 6=ULUS 7=UKR 8=RETIE 9=KEMA 10=EX 11=SIH-Israel 12=CEX 13=INMETRO



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295338	7	1	198	382163	1-3-6-7	1	179	403249	7	1	111	410239	1	1	89	415002	7	1	112
<b>3</b>				382203	1-3-6-7	1	179	403324	7	1	111	410244	1	1	89	415011	7	1	113
302044		1	207	382253	1-3-6-7	1	179	403326	7	1	111	410246	1	1	89	415012	7	1	113
302054		1	207	<b>4</b>				403329	7	1	111	410247	1	1	89	415101	7	1	112
302091		10	215	400124	7	1	110	403334	7	1	111	410249	1	1	89	415102	7	1	112
302092		10	215	400126	7	1	110	403336	7	1	111	410324	1	1	89	415801	7	1	113
302093		10	215	400129	7	1	110	403339	7	1	111	410326	1	1	89	415802	7	1	113
302095		10	215	400134	7	1	110	403344	7	1	111	410329	1	1	89	415901	7	1	113
302097		10	215	400136	7	1	110	403346	7	1	111	410334	1	1	89	415902	7	1	113
302144		1	207	400139	7	1	110	403349	7	1	111	410336	1	1	89	415903	7	1	113
302154		1	207	400144	7	1	110	406126	7	1	111	410337	1	1	89	415904	7	1	113
302192		10	215	400146	7	1	110	406136	7	1	111	410339	1	1	89	416124	1	1	89
302193		30	215	400149	7	1	110	406146	7	1	111	410344	1	1	89	416126	1	1	89
302195		30	215	400224	7	1	110	406226	7	1	111	410346	1	1	89	416136	1	1	89
302197		30	215	400226	7	1	110	406233	7	1	111	410347	1	1	89	416146	1	1	89
339039		3	215	400229	7	1	110	406236	7	1	111	410349	1	1	89	416224	1	1	89
339041		3	215	400233	7	1	110	406246	7	1	111	410434	1	1	89	416226	1	1	89
339147		3	215	400234	7	1	110	406326	7	1	111	410436	1	1	89	416236	1	1	89
339150		3	215	400236	7	1	110	406336	7	1	111	410437	1	1	89	416246	1	1	89
339259		3	215	400239	7	1	110	406346	7	1	111	410439	1	1	89	416336	1	1	89
339367		1	215	400244	7	1	110	407030		1	213	410444	1	1	89	416346	1	1	89
339988		1	215	400246	7	1	110	407031		1	213	410446	1	1	89	416436	1	1	89
339998		10	215	400249	7	1	110	408126	7	1	112	410447	1	1	89	416446	1	1	89
346338	1-7-8	1	370	400324	7	1	110	408136	7	1	112	410449	1	1	89	419000		1	91-113
346350	1-7-8	1	370	400326	7	1	110	408146	7	1	112	412124	1	1	89	419001	1-8	5	52-91
347001		10	375	400329	7	1	110	408226	7	1	112	412126	1	1	89	419002	1-8	5	52-91
347002		1	375	400334	7	1	110	408233	7	1	112	412136	1	1	89	419003	1-8	5	52-91
347003		50	375	400336	7	1	110	408236	7	1	112	412146	1	1	89	419004	1-8	5	52-91
347005		50	375	400339	7	1	110	408246	7	1	112	412224	1	1	89	419005	1	5	52-91
348117		25	215	400344	7	1	110	408326	7	1	112	412226	1	1	89	419006	1	5	52-91
348122		25	215	400346	7	1	110	408336	7	1	112	412233	1	1	89-351	419021	1-8	5	52-91
348123		25	215	400349	7	1	110	408346	7	1	112	412236	1	1	89	419022	1-8	5	52-91
348326		25	215	401030		1	213	409873	7	1	112	412246	1	1	89	419023	1-8	5	52-91
348333		5	215	401031		1	213	410124	1	1	89	412336	1	1	89	419024	1-8	5	52-91
349117		25	215	403124	7	1	111	410126	1	1	89	412346	1	1	89	419025	1	5	52-91
349122		25	215	403126	7	1	111	410129	1	1	89	412436	1	1	89	419026	1	5	52-91
349123		25	215	403129	7	1	111	410134	1	1	89	412446	1	1	89	419031	1-8	5	52-91
349217		25	215	403134	7	1	111	410136	1	1	89	413124	1	1	89	419032	1-8	5	52-91
349326		25	215	403136	7	1	111	410137	1	1	89	413126	1	1	89	419033	1-8	5	52-91
349333		5	215	403139	7	1	111	410139	1	1	89	413136	1	1	89	419034	1-8	5	52-91
349538	1-7-8	1	370	403144	7	1	111	410144	1	1	89	413146	1	1	89	419035	1	5	52-91
349550	1-7-8	1	370	403146	7	1	111	410146	1	1	89	413224	1	1	89	419036	1	5	52-91
356338	1-7-8	1	370	403149	7	1	111	410147	1	1	89	413226	1	1	89	419120	1	1	90
356350	8	1	370	403224	7	1	111	410149	1	1	89	413236	1	1	89	419121	1	1	90
359538	1-7-8	1	370	403226	7	1	111	410224	1	1	89	413246	1	1	89	419122	1	1	90
359550	8	1	370	403229	7	1	111	410226	1	1	89	413336	1	1	89	419123	1	1	90
381123	1-3-6-7	1	179	403234	7	1	111	410229	1	1	89	413346	1	1	89	419124	1	1	90
381163	1-3-6-7	1	179	403236	7	1	111	410233	1	1	89	413436	1	1	89	419126	1	1	90
381203	1-3-6-7	1	179	403239	7	1	111	410234	1	1	89	413446	1	1	89	419127	1	1	90
381253	1-3-6-7	1	179	403244	7	1	111	410236	1	1	89	415000	7	100	113	419128	1	1	90
382123	1-3-6-7	1	179	403246	7	1	111	410237	1	1	89	415001	7	1	112	419129	1	1	90

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419130	1	1	90	419324	1	1	90	419449	1	1	90	449538	1-7-8	1	371	469233	7-8	1	98-349
419131	1	1	90	419326	1	1	90	421029	7-8	1	120	449550	1-7-8	1	371	469236	7-8	1	98
419132	1	1	90	419327	1	1	90	421909	7	1	377	451638	1-7-8	1	371	469873	7-8	1	99
419133	1	1	90	419328	1	1	90	422039	7-8	1	120	453238	1-2-7-8	1	371	470126	7-8	1	98
419134	1	1	90	419329	1	1	90	427019	7	1	120	454338	1-2-7-8	1	370	470136	7-8	1	98
419135	1	1	90	419330	1	1	90	427909	7	1	377	456311	7-8	1	371	470146	7-8	1	98
419136	1	1	90	419331	1	1	90	431237	7	10	205	456322	1-7-8	1	371	470226	7-8	1	98
419137	1	1	90	419332	1	1	90	431252	1-4-3-7	10	210	456338	1-7-8	1	371	470233	7-8	1	98
419138	1	1	90	419333	1	1	90	431611	1-7	1	371	456344	1-7-8	1	371	470236	7-8	1	98
419139	1	1	90	419334	1	1	90	431622	1-7-8	10	371	456350	1-7-8	1	371	470246	7-8	1	98
419140	1	1	90	419335	1	1	90	433052	1-2-7-8	10	27	457538	8	1	370	470326	7-8	1	98
419141	1	1	90	419336	1	1	90	433211	1	1	371	459311	7-8	1	371	470336	7-8	1	98
419142	1	1	90	419337	1	1	90	433222	1-7-8	1	371	459322	1-7-8	1	371	470346	7-8	1	98
419143	1	1	90	419338	1	1	90	436311	1-2-7-8	1	371	459344	1-7-8	1	371	471002	7-8	1	56
419144	1	1	90	419339	1	1	90	436312	1-7-8	1	371	459538	1-7-8	1	371	471003	1-7	1	57
419145	1	1	90	419340	1	1	90	436322	1-7	1	371	459550	1-7-8	1	371	471004	1-7	1	206
419146	1	1	90	419341	1	1	90	436338	1-7-8	1	371	460126	8	1	122	471005	7	1	56
419147	1	1	90	419342	1	1	90	437012	1-7-8	10	27	460136	7-8	1	122	471007	1-7	1	57
419149	1	1	90	419343	1	1	90	437022	1	10	27	460146	7-8	1	122	471011	1-7	1	56
419220	1	1	90	419344	1	1	90	437152	1	10	27	460226	7-8	1	122	471012	1-7	1	56
419221	1	1	90	419345	1	1	90	438124	1	1	37	460233	8	1	122-350	471013	1-7	1	57
419222	1	1	90	419346	1	1	90	438126	5-7-8-9	1	37	460236	7-8	1	122	471015	1-7	1	56
419223	1	1	90	419347	1	1	90	438136	5-7-8-9	1	37	460246	8	1	122	471017	1-7	1	57
419224	1	1	90	419349	1	1	90	438146	5-7-8-9	1	37	460326	8	1	122	471018	1-7	1	56
419226	1	1	90	419420	1	1	90	438224	5-7-8-9	1	37	460336	8	1	122	471019	1-7	1	56
419227	1	1	90	419421	1	1	90	438226	5-7-8-9	1	37	460346	8	1	122	471022	1-7	1	57
419228	1	1	90	419422	1	1	90	438236	5-7-8-9	1	37	460436	8	1	122	471032	1-7	1	57
419229	1	1	90	419423	1	1	90	438246	5-7-8-9	1	37	460446	8	1	122	471035	1-7	1	57
419230	1	1	90	419424	1	1	90	439124	5-7-8-9	1	37	461121	8	1	354	471042	1-7	1	57
419231	1	1	90	419426	1	1	90	439126	5-7-8-9	1	37	461131		1	354	471045	1-7	1	57
419232	1	1	90	419427	1	1	90	439136	5-7-8-9	1	37	461151		1	354	471051	1-7	1	57
419233	1	1	90	419428	1	1	90	439146	5-7-8-9	1	37	462131		1	354	471054	1-7	1	211
419234	1	1	90	419429	1	1	90	439224	5-7-8-9	1	37	462151		1	354	471056	1-7	1	211
419235	1	1	90	419430	1	1	90	439226	5-7-8-9	1	37	466126		1	122	471058	1-7	1	57
419236	1	1	90	419431	1	1	90	439233	5-7-8-9	1	37	466136	8	1	122	471059	1-7	1	57
419237	1	1	90	419432	1	1	90	439236	5-7-8-9	1	37	466146	8	1	122	471062	1-7	1	57
419238	1	1	90	419433	1	1	90	439246	5-7-8-9	1	37	467021	8	10	354	471063	1-7	1	57
419239	1	1	90	419434	1	1	90	441638	5-7-8-9	1	371	467031		10	354	471064	1-7	1	211
419240	1	1	90	419435	1	1	90	443238	1-2-7-8	1	371	467051		10	354	471065	1-7	1	57
419241	1	1	90	419436	1	1	90	444338	1-2-7-8	1	370	467124		1	98	471066	1-7	1	211
419242	1	1	90	419437	1	1	90	446311	7-8	1	371	467126	7-8	1	98	471067	1-7	1	57
419243	1	1	90	419438	1	1	90	446312	1-7-8	1	371	467136	7-8	1	98	471072	1-7	1	57
419244	1	1	90	419439	1	1	90	446322	7	1	371	467146	7-8	1	98	471075	1-7	1	57
419245	1	1	90	419440	1	1	90	446338	1-7-8	1	371	468224	7-8	1	97	471094	1-7	1	206
419246	1	1	90	419441	1	1	90	446344	1-7-8	1	371	468226	7-8	1	97	471102	1-7	1	56
419247	1	1	90	419442	1	1	90	446350	1-7-8	1	371	468229	7-8	1	97	471103	1-7	1	57
419249	1	1	90	419443	1	1	90	447538	1-7-8	1	370	468233	7-8	1	97	471104	1-7	1	206
419320	1	1	90	419444	1	1	90	449311	7-8	1	371	468234	7-8	1	97	471105	7	1	56
419321	1	1	90	419445	1	1	90	449312	1-7-8	1	371	468236	7-8	1	97	471107	1-7	1	57
419322	1	1	90	419446	1	1	90	449322	7	1	371	468239	7-8	1	97	471108	1-7	1	57
419323	1	1	90	419447	1	1	90	449344	1-7-8	1	371	469226	7-8	1	98	471111	1-7	1	57

Marks: 1=IMQ 2=VDE 3=PR.I.n.a. 4=M.M.I. 5=ENEC 6=ULUS 7=UKR 8=RETIE 9=KEMA 10=EX 11=SI-Israël 12=CEX 13=INMETRO



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Palazzoli code	Marks	Pack Qty	Catalogue page	Palazzoli code	Marks	Pack Qty	Catalogue page	Palazzoli code	Marks	Pack Qty	Catalogue page	Palazzoli code	Marks	Pack Qty	Catalogue page	Palazzoli code	Marks	Pack Qty	Catalogue page
471112	1-7	1	56	471476	1-7-8	1	370	472247	7-8	1	119	472463	1-7-8	1	119	472731	1-7-8	1	97
471113	1-7	1	57	471477	1-2-7-8	1	371	472248	1-7-8	1	120	472466	1-7-8	1	119	472732	1-7-8	1	97
471114	1-7	1	206	471479	1-7-8	2	372	472253	7-8	1	119	472473	7-8	1	119	472733	1-7-8	1	122
471115	7	1	56	471482	7	5	370	472256	1-7-8	1	119	472486	7-8	1	119	472734	1-7-8	1	122
471117	1-7	1	57	471483	1-2-7-8	1	371	472257	1-7-8	1	119	472496	7-8	1	119	472735	1-7-8	1	122-350
471118	1-7	1	57	471486	1-7-8	1	370	472258	1-7-8	1	120	472518	7-8	1	120	472740	7-8	1	97
471122	1-7	1	57	471487	1-2-7-8	1	371	472263	7-8	1	119	472528	7-8	1	120	472741	1-7-8	1	97
471123	1-7	1	57	471519	1-7-8	1	371	472266	1-7-8	1	119	472533	8	1	119	472742	1-7-8	1	97
471132	1-7	1	57	471520	8	1	371	472273	1-7-8	1	119	472536	1-7-8	1	119	472750	1-7-8	1	97
471135	1-7	1	57	471529	8	1	371	472276	1-7-8	1	119	472543	1-7-8	1	119	472751	1-7-8	1	97
471142	1-7	1	57	471531	8	1	371	472283	1-7-8	1	119	472546	1-7-8	1	119	472752	1-7-8	1	97
471145	7	1	57	471602	8	1	56	472286	1-7-8	1	119	472547	7-8	1	119	472754	1-7-8	1	97
471151	1-7	1	56	471603	1-7	1	57	472293	1-7-8	1	119	472553	1-7-8	1	119	472755	8	1	97
471154	1-7	1	211	471605	1-7	1	56	472296	1-7-8	1	119	472556	1-7-8	1	119	472760	8	1	97
471156	1-7	1	211	471607	1-7	1	57	472323	1-7-8	1	119	472557	1-7-8	1	119	472761	7-8	1	97
471162	1-7	1	57	471632	1-7	1	57	472326	1-7-8	1	119	472558	8	1	119	472762	1-7-8	1	97
471164	1-7	1	211	471635	1-7	1	57	472327	1-7-8	1	119	472559	8	1	119	472771	7-8	1	97
471165	1-7	1	57	471662	1-7	1	57	472333	1-7-8	1	119	472560	8	1	119	472780	1-7-8	1	97
471166	1-7	1	211	471665	1-7	1	57	472336	1-7-8	1	119	472561	8	1	119	472781	1-7-8	1	97
471172	1-7	1	57	471812	7	1	122	472337	1-7-8	1	119	472586	8	1	119	472790	1-7-8	1	97
471175	1-7	1	57	471818	1-7-8	1	122	472343	1-7-8	1	119	472610	1-7-8	1	97	472791	1-7-8	1	97
471177	1-7	1	57	471819	7-8	1	102	472346	1-7-8	1	119	472611	1-7-8	1	97	472810	1-7-8	1	97
471204	1-7	10	206	471832	7	1	122	472347	1-7-8	1	119	472612	1-7-8	1	97	472811	1-7-8	1	97
471214	1-3-7	1	211	471838	1-7-8	1	122	472348	1-7-8	1	120	472620	1-7-8	1	97	472812	7-8	1	97
471224	7	1	211	471839	7-8	1	102	472353	7-8	1	119	472621	1-7-8	1	97	472820	1-7-8	1	97
471254	1-7	10	211	471873	7	1	99	472356	1-7-8	1	119	472622	1-7-8	1	97	472821	1-7-8	1	97
471262	1-7	1	370	471893	1-7-8	1	99	472357	1-7-8	1	119	472623	1-7-8	1	122	472822	1-7-8	1	97
471263	1-7-8	1	371	471908	1-7-8	1	374	472358	1-7-8	1	120	472624	1-7-8	1	122	472830	1-7-8	1	97
471266	1-7-8	1	370	471909	7	1	374	472363	7-8	1	119	472630	1-7-8	1	97	472831	1-7-8	1	97
471267	1-7-8	1	371	471922	7	1	374	472367	1-7-8	1	119	472631	1-7-8	1	97	472832	1-7-8	1	97
471284	1-7-8	1	206	471932	7	1	374	472373	1-7-8	1	119	472632	1-7-8	1	97	472840	1-7-8	1	97
471294	1-3-7	1	206	471950	7	1	374	472377	1-7-8	1	119	472640	1-7-8	1	97	472841	1-7-8	1	97
471304	1-3-7	10	206	472020		1	99	472383	7-8	1	119	472641	1-7-8	1	97	472842	1-7-8	1	97
471314	1-3-7	1	206	472021	1-7-8	1	99	472386	7-8	1	119	472642	1-7-8	1	97	472843	8	1	122
471324	1-3-7	1	206	472022	1-7-8	1	99	472387	7-8	1	119	472647	1-7-8	1	122	472844	1-7-8	1	122
471334	1-3-7	1	211	472027	1-7-8	1	122	472388	1-7-8	1	120	472648	1-7-8	1	122	472850	1-7-8	1	97
471354	1-7	1	211	472116	1-7-8	1	119	472397	7-8	1	119	472649	8	1	122	472851	1-7-8	1	97
471362	1-7	10	370	472126	7-8	1	119	472398	1-7-8	1	120	472650	8	1	97	472852	1-7-8	1	97
471363	1-2-7-8	10	371	472130	7-8	1	99	472401	7-8	1	354	472651	1-7-8	1	97	472854	1-7-8	1	97
471364	1-7-8	1	211	472131	1-7-8	1	99	472411		1	354	472660	1-7-8	1	97	472855	8	1	97
471366	1-7	1	370	472132	1-7-8	1	99	472418		1	120	472661	7-8	1	97	472861	8	1	97
471367	1-2-7-8	1	371	472133	1-7-8	1	99-349	472428	7-8	1	120	472670	1-7-8	1	97	472870	1-7-8	1	97
471404	1-7-8	1	206	472137	1-7-8	1	122	472433	7-8	1	119	472671	7-8	1	97	472871	1-7-8	1	97
471414	1-3-7	1	206	472233	1-7-8	1	119	472436	1-7-8	1	119	472672	7-8	1	97	472880	1-7-8	1	97
471424	1-3-7	1	206	472236	1-7-8	1	119	472437	1-7-8	1	119	472710	7-8	1	97	472881	7-8	1	97
471434	1-3-7	1	211	472237	1-7-8	1	119	472443	1-7-8	1	119	472711	1-7-8	1	97	472940	1-7-8	1	374
471454	1-7	1	211	472240	1-7-8	1	99	472446	1-7-8	1	119	472712	1-7-8	1	97	472941		1	374
471464	1-7	1	211	472241	1-7-8	1	99	472447	7-8	1	119	472720	1-7-8	1	97	472942		1	374
471469	1-7	1	372	472242	1-7-8	1	99	472453	1-7-8	1	119	472721	1-7-8	1	97	472947		1	159
471472	7	10	370	472243	1-7-8	1	119	472456	1-7-8	1	119	472722	1-7-8	1	97	472948		1	159
471473	1-2-7-8	1	371	472246	1-7-8	1	119	472457	1-7-8	1	119	472730	1-7-8	1	97	472950		1	374

Certifications and marking of Palazzoli codes are in continuous development. Please visit the [www.palazzoli.com](http://www.palazzoli.com) website to view any updates.



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Palazzoli code	Marks	Pack Qty	Catalogue page	Palazzoli code	Marks	Pack Qty	Catalogue page	Palazzoli code	Marks	Pack Qty	Catalogue page	Palazzoli code	Marks	Pack Qty	Catalogue page	Palazzoli code	Marks	Pack Qty	Catalogue page
472951		1	374	473217	1-7-8	1	370	474220	1-7-8	1	98	474742	1-7-8	1	98	476216	1-7	1	369
472952		1	374	473218	1-7-8	1	370	474230	1-7-8	1	98	474743	1-7-8	1	121	476217	1-7	1	369
472959		1	374	473227	1-7-8	1	370	474236	1-7-8	1	121	474753	1-7-8	1	121	476218	1-7-8	1	369
472960		1	374	473228	1-7-8	1	370	474237	1-7-8	1	121	474771	1-7-8	1	98-349	476223	1-7-8	1	369
472961		1	374	473303	1-7-8	10	370	474246	1-7-8	1	121	474811	1-7-8	1	98	476226	1-7	1	369
472962		1	374	473306	1-7-8	1	370	474247	1-7-8	1	121	474812	7-8	1	98	476227	1-7	1	369
472963		1	374	473307	1-7-8	1	370	474256	1-7-8	1	121	474821	1-7-8	1	98	476228	1-7-8	1	369
472964		1	374	473317	1-7-8	1	370	474257	1-7-8	1	121	474822	7-8	1	98	476303	1-7-8	10	369
472965		1	374	473318	1-7-8	1	370	474310	1-7-8	1	98	474831	1-7-8	1	98	476306	1-7	1	369
472966		1	374	473327	1-7-8	1	370	474320	1-7-8	1	98	474832	7-8	1	98	476307	1-7	1	369
472967		1	153	473328	1-7-8	1	370	474330	1-7-8	1	98	474833	1-7-8	1	121	476313	1-7-8	1	369
472968		1	153	473336	1-7-8	1	121	474336	1-7-8	1	121	474843	1-7-8	1	121	476316	1-7	1	369
472970		1	374	473337	8	1	121	474337	1-7-8	1	121	474851	1-7-8	1	98	476317	1-7	1	369
472971		1	374	473346	8	1	121	474340	1-7-8	1	98	474852	7-8	1	98	476318	1-7-8	1	369
472972		1	374	473347	8	1	121	474346	1-7-8	1	121	474853	1-7-8	1	121	476323	1-7-8	1	369
472977		1	153	473407	8	1	370	474347	1-7-8	1	121	474863	1-7-8	1	121	476326	1-7	1	369
472978		1	153	473413	1-7-8	10	370	474356	1-7-8	1	121	474951	1-7-8	1	375	476327	1-7	1	369
472980		1	374	473416	1-7-8	5	370	474357	1-7-8	1	121	474953	7	1	375	476328	1-7-8	1	369
472981		1	374	473423	1-7-8	1	370	474387	1-7-8	1	121	474955	7	1	375	476336	1-7-8	1	102
472990		1	374	473426	1-7-8	5	370	474397	1-7-8	1	121	475203	7	1	368	476337		1	102
472991		1	374	473436	1-7-8	1	121	474410	1-7-8	1	98	475213	1-7	1	368	476346		1	102
472992		1	374	473437	8	1	121	474420	1-7-8	1	98	475223	1-7	1	368	476347		1	102
472993		1	374	473446	8	1	121	474430	1-7-8	1	98	475303	1-7	1	368	476403		1	369
473002		1	56	473447	8	1	121	474436	1-7-8	1	121	475313	1-7	1	368	476406	1-7	1	369
473003	1-7	1	56	473467	8	1	370	474437	1-7-8	1	121	475323	1-7	1	368	476407	1-7	1	369
473005	1-7	1	56	473468	1-7-8	1	370	474446	1-7-8	1	121	475336	1-7	1	121	476413	1-7-8	1	369
473006	1-7	1	56	473519	1-7-8	1	370	474447	1-7-8	1	121	475337	8	1	121	476416	1-7	1	369
473012	1-7	1	56	473520	8	1	370	474450	1-7-8	1	98	475346	8	1	121	476423	1-7	1	369
473013	1-7	1	56	473529	8	1	370	474456	1-7-8	1	121	475347	8	1	121	476426	1-7	1	369
473015	1-7	1	56	473530	8	1	370	474457	1-7-8	1	121	475403	8	1	368	476436	1-7	1	102
473016	1-7	1	56	473537	8	1	370	474466	1-7-8	1	121	475413	1-7	1	368	476437		1	102
473062	1-7	1	56	473538	1-7-8	1	370	474486	1-7-8	1	121-350	475423	1-7	1	368	476446		1	102
473063	1-7	1	56	473602	1-7-8	1	56	474536	1-7-8	1	121	475436	1-7	1	121	476447		1	102
473065	1-7	1	56	473603	1-7	1	56	474586	1-7-8	1	121	475437	8	1	121	476457		1	369
473066	1-7	1	56	473605	1-7	1	56	474611	1-7-8	1	98	475446	8	1	121	476458	1-7-8	1	369
473102	1-7	1	56	473606	1-7	1	56	474612	1-7-8	1	98	475447	8	1	121	476486	1-7-8	1	369
473103	1-7	1	56	473827	1-7	1	370	474621	1-7-8	1	98	476002	8	1	55	476517	1-7	1	369
473105	1-7	1	56	473837	1-7	1	370	474622	1-7-8	1	98	476005	1-7	1	55	476518	1-7-8	1	371
473106	1-7	1	56	473838	7	1	370	474631	1-7-8	1	98	476012	7	1	55	476519	8	1	369
473107	1-7	1	56	473901	7	1	56	474632	1-7-8	1	98	476015	1-7	1	55	476520	8	1	369
473112	7	1	56	473951	7	1	56	474633	1-7-8	1	121	476042	1-7	1	55	476521	8	1	371
473113	1-7	1	56	473952	7	1	56	474643	1-7-8	1	121	476045	1-7	1	55	476527	8	1	369
473115	1-7	1	56	473955	7	1	56	474653	1-7-8	1	121	476102	1-7	1	55	476528	1-7-8	1	371
473116	1-7	1	56	473961	7	1	57	474711	1-7-8	1	98	476105	1-7	1	55	476529	8	1	369
473122	1-7	1	56	473962	7	1	57	474712	1-7-8	1	98	476112	1-7	1	55	476530	8	1	369
473123	1-7	1	56	473965	7	1	57	474721	1-7-8	1	98	476115	1-7	1	55	476531	8	1	371
473125	1-7	1	56	473971	7	1	57	474722	1-7-8	1	98	476142	1-7	1	55	476537	8	1	369
473126	1-7	1	56	473972	7	1	57	474731	1-7-8	1	98	476145	1-7	1	55	476538	1-7-8	1	369
473203	1-7	1	370	473975	7	1	57	474732	1-7-8	1	98	476206	1-7	1	369	476602	1-7-8	1	55
473206	1-7-8	1	370	474133	7	1	121	474733	1-7-8	1	121	476207	1-7	1	369	476605	1-7	1	55
473207	1-7-8	1	370	474210	1-7-8	1	98	474741	1-7-8	1	98	476213	1-7-8	1	369	476827	1-7	1	369

Marks: 1=IMQ 2=VDE 3=PR.i.n.a. 4=M.M.I. 5=ENEC 6=ULUS 7=UKR 8=RETIE 9=KEMA 10=EX 11=SI-Israel 12=CEX 13=INMETRO



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Palazzoli code	Marks	Pack Qty	Catalogue page	Palazzoli code	Marks	Pack Qty	Catalogue page	Palazzoli code	Marks	Pack Qty	Catalogue page	Palazzoli code	Marks	Pack Qty	Catalogue page	Palazzoli code	Marks	Pack Qty	Catalogue page
476837	1-7	1	369	477328	1-7-8	1	368	478447		1	102	488144	5-7-8-9	1	32	490244	7-8	1	71
476838	7	1	369	477367	1-7-8	1	368	480024		1	372	488146	5-7-8-9	10	32	490246	7-8	1	71
476903	7	1	47	477368	7	1	368	480124		1	372	488149	5-7-8-9	1	32	490249	7-8	1	71
476905	7	10	47	477407	7	1	368	480126	1	1	372	488224	5-7-8-9	1	32	491124	7-8	1	71
476907	7	1	47	477411	1-7-8	1	354	480136	1	1	372	488226	5-7-8-9	5	32	491126	7-8	1	71
476909	7	1	47	477412	1-2-7	10	368	480146	1	1	372	488229	5-7-8-9	1	32	491129	5-7-8-9	1	71
476913	7	1	47	477413		10	368	480224	1	1	372	488234	5-7-8-9	1	32	491134	5-7-8-9	1	71
476923	7	10	47	477415	1-2-7	10	368	480226	1	1	372	488236	5-7-8-9	5	32	491136	5-7-8-9	1	71
476925	7	10	47	477416	1-7-8	5	368	480233	1	1	372	488239	5-7-8-9	1	32	491139	5-7-8-9	1	71
477002	7	10	54	477417	1-7-8	1	368	480236	1	1	372	488244	5-7-8-9	1	32	491144	5-7-8-9	1	71
477003	1-7	1	54	477422	1-2-7	10	368	480246	1	1	372	488246	5-7-8-9	5	32	491146	5-7-8-9	1	71
477005	1-7	1	54	477423	1-7-8	10	368	480324	1	1	76	488249	5-7-8-9	1	32	491149	5-7-8-9	1	71
477006	1-7	1	54	477425	1-2-7	1	368	480326	7-8	1	76	489124	5-7-8-9	1	32	491224	5-7-8-9	1	71
477012	1-7	1	54	477426	1-7-8	5	368	480329	7-8	1	76	489126	5-7-8-9	10	32	491226	5-7-8-9	1	71
477013	1-7	1	54	477427	1-7-8	1	368	480334	7-8	1	76	489129	5-7-8-9	1	32	491229	5-7-8-9	1	71
477015	1-7	1	54	477457	1-7-8	1	368	480336	7-8	1	76	489134	5-7-8-9	1	32	491233	5-7-8-9	1	71-350
477016	1-7	1	54	477458	1-7-8	1	368	480339	7-8	1	76	489136	5-7-8-9	10	32	491234	5-7-8-9	1	71
477062	1-7	1	54	477517	1-7-8	1	368	480344	7-8	1	76	489139	5-7-8-9	1	32	491236	5-7-8-9	1	71
477063	1-7	1	54	477519	1-7-8	1	368	480346	7-8	1	76	489144	5-7-9	1	32	491239	5-7-8-9	1	71
477065	1-7	1	54	477520	8	1	368	480349	7-8	1	76	489146	5-7-8-9	10	32	491244	5-7-8-9	1	71
477066	1-7	1	54	477527	8	1	368	480530	7-8	1	127	489149	5-7-8-9	1	32	491246	5-7-8-9	1	71
477102	1-7	1	54	477529	8	1	368	480531	8	1	127	489224	5-7-8-9	1	32	491249	5-7-8-9	1	71
477103	1-7	1	54	477530	8	1	368	480550	8	1	127	489226	5-7-8-9	5	32	492124	5-7-8-9	1	70
477105	1-7	1	54	477537	8	1	368	480551	8	1	127	489229	5-7-8-9	1	32	492126	5-7-8-9	1	70
477106	1-7	1	54	477538	1-7-8	1	368	480650	8	1	127	489233	5-7-8-9	1	32-350	492136	5-7-8-9	1	70
477107	1-7	1	55	477602	1-7-8	1	54	480651	8	1	127	489234	5-7-8-9	1	32	492146	5-7-8-9	1	70
477112	7	1	54	477603	1-7	1	54	480750	8	1	127	489236	5-7-8-9	5	32	492226	5-7-8-9	1	70
477113	1-7	1	54	477605	1-7	1	54	480751	8	1	127	489239	5-7-8-9	1	32	492236	5-7-8-9	1	70
477115	1-7	1	54	477606	1-7	1	54	481324	8	1	76	489244	5-7-8-9	1	32	492246	5-7-8-9	1	70
477116	1-7	1	54	477677	1-7	1	368	481326	7-8	1	76	489246	5-7-8-9	5	32	493124	5-7-8-9	1	82
477122	7	1	54	477827	1-7	1	368	481329	7-8	1	76	489249	5-7-8-9	1	32	493126	7	1	82
477123	1-7	1	54	477901	1-7	1	55	481334	7-8	1	76	489326	5-7-8-9	2	32	493136	7	1	82
477175	1-7	1	54	477951	7	1	55	481336	7-8	1	76	489336	7-8	2	32	493146	7	1	82
477176	1-7	1	54	477952	7	1	55	481339	7-8	1	76	489346	7-8	2	32	493226	7	1	82
477202	1-7	1	368	477955	7	1	55	481344	7-8	1	76	490024	7-8	1	71	493236	7	1	82
477203	1-7	1	368	478126	7	1	304-309	481346	7-8	1	76	490124	7	1	71	493246	7	1	82
477205	1-7	1	368	478136		1	304-309	481349	7-8	1	76	490126	7-8	1	71	494124	7	1	82
477206	1-7-8	1	368	478146		1	304-309	483126	7-8	1	372	490129	7-8	1	71	494126	7	1	82
477207	1-7-8	1	368	478206		1	304-309	483136		1	372	490134	7-8	1	71	494136	7	1	82
477217	1-7-8	1	368	478213		1	354	483146		1	372	490136	7-8	1	71	494146	7	1	82
477218	1-7-8	1	368	478246		1	304-309	483226		1	372	490139	7-8	1	71	494226	7	1	82
477227	1-7-8	1	368	478306		1	304-309	483236		1	372	490144	7-8	1	71	494236	7	1	82
477228	1-7-8	1	368	478313		1	354	483246		1	372	490146	7-8	1	71	494246	7	1	82
477302	1-2-7	10	368	478323		2	354	488114		10	36	490149	7-8	1	71	495124	7	1	83
477303	1-7-8	10	368	478336		1	102	488116	5-7-9	10	36	490224	7-8	1	71	495126	7	1	83
477305	1-2-7	1	368	478337		1	102	488124	5-7-9	1	32	490226	7-8	1	71	495129	7	1	83
477306	1-7-8	1	368	478346		1	102	488126	5-7-8-9	10	32	490229	7-8	1	71	495134	7	1	83
477307	1-7-8	1	368	478347		1	102	488129	5-7-8-9	1	32	490233	7-8	1	71	495136	7	1	83
477317	1-7-8	1	368	478436		1	102	488134	5-7-8-9	1	32	490234	7-8	1	71	495139	7	1	83
477318	1-7-8	1	368	478437		1	102	488136	5-7-8-9	10	32	490236	7-8	1	71	495144	7	1	83
477327	1-7-8	1	368	478446		1	102	488139	5-7-8-9	1	32	490239	7-8	1	71	495146	7	1	83

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495149	7	1	83	500801	7	1	233	501590		1	226	511420	8	1	155	516826	8	1	157
495224	7	1	83	500802	7	1	233	501591		1	226	511422	8	1	155	518204	8	1	123-156
495226	7	1	83	500816	7	1	233	501595		1	226	511424	8	1	155	518206	8	1	123-156
495229	7	1	83	500817	7	1	233	508124	7-8	1	37	511452	8	1	155	518207	8	1	156
495233	7	1	83	500830	7	1	233	508126	7-8	1	37	511512	8	1	155	518209	8	1	123-156
495234	7	1	83	500831	7	1	233	508136	7-8	1	37	511514	8	1	155	518211	8	1	156
495236	7	1	83	500833	7	1	233	508146	7-8	1	37	511612	8	1	155	519210	8	1	157
495239	7	1	83	500835	7	1	233	508224	7-8	1	37	511614	8	1	155	519310	8	1	157
495244	7	1	83	500840	7	1	233	508226	7-8	1	37	511632	8	1	155	519610	8	1	157
495246	7	1	83	500841	7	1	233	508236	7-8	1	37	511634	8	1	155	520009	8	30	139
495249	7	1	83	500843	7	1	233	508246	7-8	1	37	511642	8	1	155	520011	8	20	139
496024	7	1	83	500860	7	1	233	509124	7-8	1	37	511822	8	1	155	520012	8	20	139
496124	7	1	83	500861	7	1	233	509126	7-8	1	37	511824	8	1	155	520014	8	20	139
496126	7	1	83	500863	7	1	233	509136	7-8	1	37	512204		1	157	520019	8	1	139
496129	7	1	83	500872	7	1	233	509146	7-8	1	37	512206		1	157	520020	8	1	139
496134	7	1	83	500874	7	1	233	509224	7-8	1	37	512211		1	157	520021	8	1	139
496136	7	1	83	500884	7	1	230	509226	7-8	1	37	515111	8	1	123-156	521009		1	139
496139	7	1	83	500885	7	1	230	509233		1	37	515112	8	1	123-156	521011		1	139
496144	7	1	83	500886	7	1	230	509236	7-8	1	37	515124	8	1	123-156	521012		1	139
496146	7	1	83	500890	7	1	233	509246	7-8	1	37	515144	8	1	123-156	521014		1	139
496149	7	1	83	500891	7	1	233	509326	7-8	1	37	515200	8	1	123-156	521019		1	139
496224	7	1	83	500892	7	1	233	509336	7-8	1	37	515214	8	1	123-156	521020		1	139
496226	7	1	83	500893	7	1	233	509346	7-8	1	37	515221	8	1	123-156	521021		1	139
496229	7	1	83	500894	7	1	233	511110	8	1	155	515224	8	1	123-156	521210	8	1	155
496233	7	1	83	500895	7	1	233	511112	8	1	123	515234	8	1	123-156	521214	8	1	155
496234	7	1	83	500896	7	1	233	511114	8	1	123	515300	8	1	156	521314	8	1	155
496236	7	1	83	500897	7	1	233	511122	8	1	123	515313	8	1	156	521414	8	1	155
496239	7	1	83	500900	7	1	233	511124	8	1	123	515323	8	1	156	522011		1	139
496244	7	1	83	500903	7	1	233	511142	8	1	123	515411	8	1	156	522012		1	139
496246	7	1	83	500904	7	1	233	511144	8	1	123	515413	8	1	156	522014		1	139
496249	7	1	83	500916	7	1	233	511147	8	1	123	515423	8	1	156	522019		1	139
499126	7	1	72	500918	7	1	233	511210	8	5	155	515453	8	1	156	522020		1	139
499136	7	1	72	500930	7	1	233	511212	8	1	123-155	515512	8	1	156	522021		1	139
499146	7	1	72	500933	7	1	233	511214	8	1	123-155	515610	8	1	156	525200	8	1	156
499226	7	1	72	500934	7	1	233	511217	8	1	123	515613	8	1	156	525300	8	1	156
499236	7	1	72	500935	7	1	233	511220	8	1	155	515632	8	1	156	525410	8	1	156
499246	7	1	72	500936	7	1	233	511222	8	1	155	515637	8	1	156	529210	8	1	157
5				500941	7	1	233	511224	8	1	155	515642	8	1	156	529310	8	1	157
500601	7	1	232	500943	7	1	233	511227	8	1	123	515645	8	1	156	529410	8	1	157
500602	7	1	232	500949	7	1	233	511232	8	1	155	515822	8	1	156	531011	8	1	151
500603	7	1	232	501500	7	1	232	511234	8	1	155	516314	8	1	157	531021	8	1	151
500750	7	1	233	501501	7	1	232	511236	8	1	123	516324	8	1	157	531040	8	1	151
500753	7	1	233	501502	7	1	232	511237	8	1	123	516414	8	1	157	531042	8	1	151
500762	7	1	233	501503	7	1	232	511310	8	1	155	516424	8	1	157	531062	8	1	151
500766	7	1	233	501530	7	1	226	511312	8	1	155	516454	8	1	157	531200	8	1	151
500767	7	1	233	501531		1	380	511314	8	1	155	516611	8	1	157	531211	8	1	151
500768	7	1	233	501540		1	227	511320	8	1	155	516613	8	1	157	531213	8	1	376
500770	7	1	233	501550		1	227	511322	8	1	155	516631	8	1	157	531220	8	1	151
500790	7	1	233	501560		1	226	511324	8	1	155	516636	8	1	157	531221	8	1	151
500792	7	1	233	501565		1	226	511412	8	1	155	516643	8	1	157	531222	8	1	151
500800	7	1	233	501580	7	1	372	511414	8	1	155	516823	8	1	157	531223	8	1	376

Marks: 1=IMQ 2=VDE 3=PR.i.na. 4=M.M.I. 5=ENEC 6=ULUS 7=UKR 8=RETIE 9=KEMA 10=EX 11=SI-Israel 12=CEX 13=INMETRO





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531231	8	1	151	532301		1	101	532876		1	124-309	538429		1	104	540165		1	159
531233	8	1	376	532302		1	101	532895		1	124	538432		1	101	540180		1	158
531240	8	1	151	532303		1	101	535126		1	152	538436		1	104	540185		1	158
531241	8	1	151	532304		1	101	535131	8	1	152	538610		10	105	540186		1	158
531242	8	1	151	532311		1	101	535135		1	152	538620		10	105	540190		1	158
531262	8	1	151	532325	8	4	375	535137		1	152	538630		5	105	540193		1	158
531311	8	1	151	532346	8	1	375	535140	8	1	152	538701		1	376	540195		1	158
531312	8	1	376	532385	8	1	375	535142	8	1	152	538702		1	376	541010		1	125-158
531321	8	1	151	532516	8	1	149	535157		1	152	538703		1	104	541011		1	125-158
531322	8	1	376	532557	8	1	149	535162	8	1	152	538711		1	104	541020		1	125-158
531331	8	1	151	532567	8	1	376	535320	8	1	152	538712		1	104	541021		1	125-158
531332	8	1	376	532577	8	1	376	535321	8	1	152	538791		50	101	541030		1	125-158
531340	8	1	151	532618	8	1	375	535322	8	1	152	538800		1	101-304	541040		1	159
531411	8	1	151	532628	8	1	375	535323	8	1	152	538801		1	101	541050		1	125-158
531431	8	1	151	532638	8	1	375	535324	8	1	152	538802		1	101-304	541055		1	125-158
531440	8	1	151	532648	8	1	375	535325	8	1	152	538803		1	101	541080		1	125-158
531442	8	1	151	532658	8	1	149	535326	8	1	152	538804		1	101-304	541090		1	125-158
531540	8	1	151	532667	8	1	375	535327	8	1	152	540000		1	377	544022		1	159
531640	8	1	151	532668	8	1	376	535328	8	1	152	540001		1	377	544031		1	159
531662	8	1	151	532677	8		375	535640	8	1	152	540002		1	377	544033		1	159
532005	8	1	148	532678	8	1	376	535643	8	1	152	540003		1	377	544034		1	159
532006	8	1	148	532688	8	1	376	536311	1-7-8	1	371	540004		1	377	544035		1	159
532015	8	1	148	532698	8	1	376	536312	1-7	1	371	540005		1	377	544036		1	159
532016	8	1	148	532700		1	101-311	536322	1-7-8	1	371	540006		1	377	545081		1	159
532017	8	1	148	532701		1	101-311	536338	1-7-8	1	371	540030		1	124-158	545082		1	159
532018	8	1	148	532702		1	101-311	538005	8	1	149	540031		5	124-158	545083		1	159
532035	8	5	148	532703		1	101-311	538006	8	1	149	540032		1	124-158	545084		1	159
532045	8	1	148	532704		1	101-311	538015	8	1	149	540033		2	124-158	545085		1	159
532055	8	1	148	532705		1	149-311	538016	8	1	149	540034		2	124-158	545086		1	159
532100		1	101	532714		1	149-311	538017	8	1	149	540035		2	124-158	546311	1-7-8	1	371
532101	8	1	52-91	532715		1	149-311	538018	8	1	149	540036		1	124-158	546312	7	1	371
532102	8	1	52-91	532716		1	149-311	538035	8	1	149	540061		1	124-158	546322	1-7-8	1	371
532103		1	52-91	532717		1	149-311	538045	8	1	149	540062		1	124-158	546338	1-7-8	1	371
532116	8	1	148	532718		1	149-311	538055	8	1	149	540063		1	124-158	546344	1-7-8	1	371
532117	8	1	148	532725		1	161	538110		2	153-183	540064		1	124-158	546350	1-7-8	1	371
532118	8	1	148	532735		1	161	538116	8	1	149	540065		1	124-158	547000		1	187
532121	8	1	52-91	532745		1	161	538117	8	1	149	540066		1	124-158	547010		1	125-159
532122	8	1	52-91	532747		1	161	538118	8	1	149	540090		5	124-158	547011		5	187
532131	8	1	52-91	532748		1	161	538130		2	153-183	540091		5	124-158	547020		1	125-159
532132	8	1	52-91	532755		1	161	538180		1	153	540141		1	125-158	547021		1	125-159
532133		1	52-91	532765		1	161	538210		2	153-183	540142		1	125-158	547030		1	125-159
532200		1	101	532768		1	161	538230		2	153-183	540145		1	125-158	547031		1	125-159
532201		1	101	532806		1	124	538280		1	153	540151		1	125-158	547032		1	125-159
532202		1	101	532816		1	124	538310		1	153-183	540152		1	125-158	547033		1	187
532203		1	101	532826		1	124	538330		1	153-183	540153		1	125-158	547041		1	125-159
532204		1	101	532836		1	124-309	538380		1	153	540154		1	125-158	547042		1	125-159
532211		1	101	532842	1	1	52-91	538385		1	153	540156		1	125-158	547043		1	125-159
532225	8	8	375	532843	1	1	52-91	538400		1	105-113	540161		1	159	547053		1	125-159
532285	8	1	375	532846		1	124	538410		1	105-113-304-311	540162		1	159	547054		1	125-159
532295	8	1	375	532856		1	124	538421		1	104	540163		1	159	547055		1	187
532300		1	101	532866		1	124	538425		1	101	540164		1	159	547063		1	125-159

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547064		1	125-159	550547		1	136	550706		1	377	571213		50	164-317	575701		1	347
547065		1	125-159	550552		4	136	550707		1	377	571216		50	164-317	575702		1	347
547067		1	187	550553		4	136	550731		1	377	571221		25	164-317	575706		1	347
547151		1	125-159	550555		1	136	550732		1	377	571229		20	164-317	575708		1	347
547152		1	125-159	550556		1	136	550733		1	377	571236		10	164-317	575710		1	347
547161		1	125-159	550557		1	136	550734		1	377	571242		5	164-317	575711		1	347
547162		1	125-159	550562		6	136	550735		1	377	571248		5	164-317	576100	7	1	345
547300		1	125-159	550563		6	136	550736		1	377	572007		50	166	576101	7	1	345
547410		1	125-159	550564		6	136	550737		1	377	572009		50	166	576110	7	1	345
547411		1	125-159	550566		1	136	556311	1-7-8	1	371	572011		50	166	576111	7	1	345
549311	1-7-8	1	371	550567		1	136	556322	1-7-8	1	371	572013		50	166	576112	7	1	345
549312	7	1	371	550582		6	136	556338	1-7-8	1	371	572016		50	166	576113	7	1	345
549322	1-7-8	1	371	550583		6	136	556344	1-7-8	1	371	572021		20	166	576200	7	1	346
549344	1-7-8	1	371	550585		1	136	556350	8	1	371	572029		20	166	576201	7	1	346
549538	1-7-8	1	371	550586		1	136	559011	7	1	211	572036		10	166	576202	7	1	346
549550	1-7-8	1	371	550587		1	136	559012	7	1	211	572042		5	166	576203	7	1	346
550001	8	1	135	550601		5	135	559021	7	8	205	572107		50	166	576205	7	1	346
550002	8	1	135	550602		5	135	559022	7	1	205	572109		50	166	576206	7	1	346
550003	8	1	135	550603		5	135	559031	7	8	205	572111		50	166	576400	7	1	346
550004	8	1	135	550604		1	135	559032	7	1	205	572113		50	166	576401	7	1	346
550005	8	1	135	550605		1	135	559132		15	210	572116		50	166	576600	7	1	347
550006	8	1	135	550606		1	135	559232	7	1	206	572121		20	166	576601	7	1	347
550007	8	1	135	550607		1	135	559311	1-7-8	1	371	572129		20	166	576800	7	1	346
550031	8	1	135	550621		5	135	559322	1-7-8	1	371	572136		10	166	579011	7	1	36-75-145
550032	8	1	135	550622		5	135	559344	1-7-8	1	371	572142		5	166	579012	7	10	36-75-145
550033	8	1	135	550623		5	135	559538	1-7-8	1	371	572148		5	166	579013	7	1	35-75-145
550034	8	1	135	550624		1	135	559550	8	1	371	572207		50	166	579014	7	1	35-75-145
550035	8	1	135	550625		1	135	570010	7	1	36-75-145-229	572209		50	166	579211		1	372
550036	8	1	135	550626		1	135	571007		100	164	572211		50	166	579400	7	1	77
550037	8	1	135	550632		1	136	571009		50	164	572213		50	166	579421	7	1	77-144
550042		1	137	550633		1	136	571011		50	164	572216		50	166	579422		1	77-144
550043		1	137	550635		1	136	571013		50	164	572221		20	166	579423		1	77-144
550044		1	137	550636		1	136	571016		50	164	572229		20	166	579451	7	1	73
550045		1	137	550637		1	136	571021		25	164	572236		10	166	579452	7	1	73
550046		1	137	550640		20	137	571029		20	164	572242		5	166	579453	7	1	73
550047		1	137	550641		5	137	571036		10	164	572248		5	166	579462	7	1	373
550502		4	135	550642		1	137	571042		5	164	572307		50	166	579500	7	1	84
550503		4	135	550643		1	137	571048		5	164	572309		50	166	579510	7	1	84
550504		4	135	550648		1	137	571107		50	164	572311		50	166	579582	7	1	85-145
550505		1	135	550662		1	137	571109		50	164	572313		50	166	579584	7	1	85-145
550506		1	135	550663		1	137	571111		50	164	572316		25	166	579590	7	1	373
550507		1	135	550665		1	137	571113		50	164	572321		20	166	579591	7	1	85
550522		6	136	550666		1	137	571116		50	164	572329		15	166	579592	7	1	373
550523		6	136	550667		1	137	571121		20	164	572336		10	166	579602	7	1	84-142
550525		4	136	550680		10	137	571129		20	164	572342		10	166	579612	7	1	85
550526		4	136	550689		1	377	571136		10	164	572348		10	166	579620	7	1	84-142
550527		1	136	550701		1	377	571142		10	164	575500	7	1	372	579621	7	1	84-142
550542		6	136	550702		1	377	571148		10	164	575501	7	1	84	579622		1	77-144
550543		6	136	550703		1	377	571207		50	164	575502		1	77	579623		1	77-144
550545		4	136	550704		1	377	571209		50	164-317	575505	7	1	74	579631	7	1	77-144
550546		4	136	550705		1	377	571211		50	164-317	575506	7	1	74	579640	7	1	84-142

Marks: 1=IMQ 2=VDE 3=PR.i.na. 4=M.M.I. 5=ENEC 6=ULUS 7=UKR 8=RETIE 9=KEMA 10=EX 11=SIH-Israel 12=CECX 13=INMETRO



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Palazzoli code	Marks	Pack Qty	Catalogue page	Palazzoli code	Marks	Pack Qty	Catalogue page	Palazzoli code	Marks	Pack Qty	Catalogue page	Palazzoli code	Marks	Pack Qty	Catalogue page	Palazzoli code	Marks	Pack Qty	Catalogue page
579641	7	1	84-142	579904	7	20	36-75-145	581220		50	163-318	585416		10	359	614107	7-8	1	224
579642	7	1	84-142	579910		1	77	581225		50	163-318	585480		10	359	615001	7-8	1	225
579702	7-8	1	35	579920		1	77	581232		50	163-318	585490		10	359	615002	7-8	1	225
579703	7-8	1	35	580051		5	378	581240		20	163-318	590002		5	378	615003	7-8	1	225
579708	7	1	73	580052		5	378	581250		10	163-318	590004		1	378	615004	7-8	1	225
579709	7	1	73	580054		5	378	581263		5	163-318	590020		5	208	615005	7-8	1	225
579710	7-8	1	74	580203		1	376	582012		100	165	590021		1	213	615101	7-8	1	224
579711	7-8	1	74	580205		1	376	582016		50	165	590025		1	208	615102	7-8	1	224
579712	7-8	1	74	580211		1	164	582020		50	165	<b>6</b>				615103	7-8	1	224
579713	7-8	1	72	580212		1	164	582025		25	165	601532		1	227	615104	7-8	1	224
579714	7-8	1	72	580213		1	164	582032		20	165	601540		1	221	615105	7-8	1	224
579715		1	72	580230		100	164	582041		10	165	601563		1	227	615106	8	1	224
579716	7	1	72	580231		100	164	582050		5	165	601632		1	227	615107	7-8	1	224
579717	7	1	72	580232		100	164	582112		100	165	601663		1	227	616001	7-8	1	225
579718	7	1	83	580233		50	164	582116		50	165	604101	7-8	1	225	616002	7-8	1	225
579719		1	77	580234		25	164	582120		50	165	604102	7-8	1	225	616003	7-8	1	225
579721	7-8	1	73-143	580242		5	376	582125		25	165	604103	7-8	1	225	616004	7-8	1	225
579722	7-8	1	73-143	580243		5	376	582132		20	165	604104	7-8	1	225	616005	7-8	1	225
579723	7-8	1	73-143	580244		1	376	582141		10	165	604105	7-8	1	225	616006	7-8	1	225
579735	7	1	226	580245		1	376	582150		5	165	604106	7-8	1	225	616007	7-8	1	225
579741	7-8	1	73-143	580250	7	1	36-75-85-145	582163		5	165	604107	7-8	1	225	616008	7-8	1	225
579742	7-8	1	73-143	580261		1	162	582212		50	165-319	604108	7-8	1	225	616009	7-8	1	225
579743	7-8	1	73-143	580264		1	162	582216		50	165-319	605101	7-8	1	225	616101	7-8	1	224
579744	7-8	1	73-143	580271		1	162	582220		50	165-319	605102	7-8	1	225	616102	7-8	1	224
579750	7-8	1	35	580272		1	162	582225		25	165-319	605103	7-8	1	225	616103	7-8	1	224
579751	7-8	1	35	580274		1	162	582232		20	165-319	605104	7-8	1	225	616104	7-8	1	224
579822	7-8-11	1	34-142	580275		1	162	582240		10	165-319	605105	7-8	1	225	616105	7-8	1	224
579823	7-8	1	34-142	580276		1	162	582250		10	165-319	605106	7-8	1	225	616106	7-8	1	224
579824	7-8-11	1	34-142	580291		1	162	582263		5	165-319	605107	7-8	1	225	616107	7-8	1	224
579826	7-8	1	34-142	580292		1	162	582312		100	165	605108	7-8	1	225	616108	7-8	1	224
579828	7-8-11	1	34-142	580294		1	162	582316		100	165	606101	7-8	1	225	616109	7-8	1	224
579830		10	33	580295		1	162	582320		100	165	606102	7-8	1	225	616110	7-8	1	224
579831		10	33	580296		1	162	582325		100	165	606103	7-8	1	225	630001		36	38
579832		10	33	581012		100	163	582332		50	165	606104	7-8	1	225	630002		36	38
579840		5	33	581016		50	163	582340		50	165	606105	7-8	1	225	630003		24	38
579842	7	1	35	581020		50	163	582350		25	165	606106	7-8	1	225	630011		30	38
579843	7	1	35	581025		25	163	582363		25	165	606107	7-8	1	225	630012		30	38
579845		10	33	581032		20	163	585316		10	359	606108	7-8	1	225	630013		24	38
579846		1	373	581040		10	163	585317		10	359	610012	7-8	1	224	630021		20	39
579847		10	33-38	581050		5	163	585318		10	359	610606	7-8	1	224	630022		8	39
579848	7	1	33	581063		5	163	585319		10	359	614001	7-8	1	225	630030		20	40
579849		1	33	581112		100	163	585406		10	359	614002	7-8	1	225	630031		20	40
579850	7	1	35-75	581116		50	163	585407		10	359	614003	7-8	1	225	630035		20	41
579852	7	1	34	581120		50	163	585408		10	359	614004	7-8	1	225	630036		20	41
579853	7	1	34	581125		25	163	585409		10	359	614005	7-8	1	225	630040		20	41
579854		1	34	581132		20	163	585410		10	359	614101	7-8	1	224	630041		20	41
579860		1	33-38	581140		10	163	585411		10	359	614102	7-8	1	224	630042		20	41
579863	7-8	1	34-142	581150		5	163	585412		10	359	614103	7-8	1	224	630050		20	39
579865	7-8	1	34-142	581163		5	163	585413		10	359	614104	7-8	1	224	630051		8	39
579901	7	1	85	581212		50	163-318	585414		10	359	614105	7-8	1	224	630052		8	39
579902		1	77	581216		50	163-318	585415		10	359	614106	7-8	1	224	630053		8	40

Certifications and marking of Palazzoli codes are in continuous development. Please visit the [www.palazzoli.com](http://www.palazzoli.com) website to view any updates.



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Palazzoli code	Marks	Pack Qty	Catalogue page	Palazzoli code	Marks	Pack Qty	Catalogue page	Palazzoli code	Marks	Pack Qty	Catalogue page	Palazzoli code	Marks	Pack Qty	Catalogue page	Palazzoli code	Marks	Pack Qty	Catalogue page
630054		8	40	670033	7	1	228	700128	1-7	5	23	705146	7-8	10	25	720230	1-7	5	24
630055		8	39	670040	7	1	228	700129	1-7-8	5	22	705226	7-8	5	25	720231	1-7	5	24
630056		8	39	670041	7	1	228	700130	1-7	5	23	705236	7-8	5	25	720232	1-7	5	24
630070		20	41	670042	7	1	228	700131	1-7	5	23	705246	7-8	5	25	720233	1-7	5	24
630071		20	41	670043	7	1	228	700132	1-7	5	23	710124	7-8	10	23	720234	1-7-8	5	24
630080		20	41	670044	7	1	228	700134	1-7-8	5	22	710126	7-8	30	23	720235	1-7	5	24
630081		20	41	670060	7	1	228	700135	1-7	5	23	710136	7-8	20	23	720236	1-7-8	15	24
630082		20	41	670061	7	1	228	700136	1-7-8	30	22	710146	7-8	15	23	720237	1-7	5	24
630085		4	41	670062	7	1	228	700137	1-7	5	23	710156		1	23	720239	1-7-8	5	24
630090		100	41	670063	7	1	228	700139	1-7-8	5	22	710166		1	23	720240	1-7	5	24
630091		200	41	670130	7	1	229	700140	1-7	5	23	710224	7-8	6	23	720241	1-7	5	24
634001		1	221	670140	7	1	229	700141	1-7	5	23	710226	7-8	6	23	720242	1-7	5	24
634002		1	221	675001	7	1	231	700142	1-7	5	23	710236	7-8	15	23	720243	1-7	5	24
634004		1	221	675002	7	1	231	700144	1-7-8	5	22	710246	7-8	10	23	720244	1-7-8	5	24
634005		1	221	675101	7	1	231	700145	1-7	5	23	710256		1	23	720245	1-7	5	24
634006		1	221	675102	7	1	231	700146	1-7-8	20	22	710266		1	23	720246	1-7-8	15	24
634010		1	221	676001		1	231	700147	1-7	5	23	710326	7-8	2	23	720247	1-7	5	24
634100	8	1	221	676002	7	1	231	700149	1-7-8	5	22	710336	7-8	5	23	720249	1-7-8	5	24
634101		1	221	676003		1	231	700220	1-7	5	23	710346	7-8	5	23	721122	1-7	5	24
634102		1	221	676004		1	231	700222	1-7	5	23	720120	1-7	5	24	721132	7	5	24
634104		1	221	676101	7	1	231	700223	7	5	23	720122	7	5	24	721222	1-7	5	24
634105		1	221	676102	7	1	231	700224	1-7-8	5	22	720123	1-7	5	24	721232	7	5	24
634106		1	221	677001		1	231	700226	1-7-8	5	22	720124	1-7-8	5	24	725124	7-8	10	25
634110		1	221	677002		1	231	700227	1-7	5	23	720126	1-7-8	30	24	725126	7-8	10	25
638040		1	221	677003		1	231	700228	1-7	5	23	720127	1-7	5	24	725136	7-8	10	25
638041		1	221	677004		1	231	700229	1-7-8	5	22	720128	1-7	5	24	725146	7-8	10	25
638042		1	221	677101	7	1	231	700230	1-7	5	23	720129	1-7-8	5	24	725226	7-8	5	25
641216	1	1	378	677102	7	1	231	700231	1-7	5	23	720130	1-7	5	24	725236	7-8	5	25
643216	1	10	378	678001		1	231	700232	1-7	5	23	720131	1-7	5	24	725246	7-8	5	25
644001		1	220	678002		1	231	700233	1-7	5	23	720132	1-7	5	24	730124	7-8	10	25
644002		1	220	678101	7	1	231	700234	1-7-8	5	22	720134	1-7-8	5	24	730126	7-8	20	25
644003		1	220	678102	7	1	231	700235	1-7	5	23	720135	1-7	5	24	730136	7-8	15	25
644004		1	220	685001	7	1	231	700236	1-7-8	20	22	720136	1-7-8	20	24	730146	7-8	15	25
644005		1	220	685002	7	1	231	700237	1-7	5	23	720137	1-7	5	24	730224	7-8	6	25
644006		1	220	686001	7	1	231	700239	1-7-8	5	22	720139	1-7-8	5	24	730226	7-8	6	25
644010		1	220	686002	7	1	231	700240	1-7	5	23	720140	1-7	5	24	730236	7-8	10	25
644101		1	220	686003	7	1	231	700241	1-7	5	23	720141	1-7	5	24	730246	7-8	10	25
644102		1	220	686004	7	1	231	700242	1-7	5	23	720142	1-7	5	24	730326	7-8	2	25
644103		1	220	687001	7	1	231	700243	1-7	5	23	720144	1-7-8	5	24	730336	7-8	5	25
644104		1	220	687002	7	1	231	700244	1-7-8	5	22	720145	1-7	5	24	730346	7-8	5	25
644105		1	220	687003	7	1	231	700245	1-7	5	23	720146	1-7-8	20	24	740001	7	10	26
644106		1	220	687004	7	1	231	700246	1-7-8	20	22	720147	1-7	5	24	740002	7	10	26
644110		1	220	688001	7	1	231	700247	1-7	5	23	720149	1-7-8	5	24	740003	7	10	26
658529	7	1	41	688002	7	1	231	700249	1-7-8	5	22	720220	1-7	5	24	740101	7	10	26
670010		1	229	<b>7</b>				701122	1-7	5	23	720222	1-7	5	24	744338	7-8	1	369
670011		1	229	700120	1-7	5	23	701132	7	5	23	720223	7	5	24	744338	7-8	1	369
670012		1	229	700122	1-7	5	23	701222	1-7	5	23	720224	1-7-8	5	24	746338	1-7-8	1	369
670013		1	229	700123	1-7	5	23	701232	7	5	23	720226	1-7-8	5	24	747538	7-8	1	369
670030	7	1	228	700124	1-7-8	10	22	705124	7-8	10	25	720227	1-7	5	24	749538	1-7-8	1	369
670031	7	1	228	700126	1-7-8	40	22	705126	7-8	10	25	720228	1-7	5	24	749550	1-7-8	1	369
670032	7	1	228	700127	1-7	5	23	705136	7-8	10	25	720229	1-7-8	5	24	750530	8	1	59-127

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750550	8	1	59-127	760347	1	1	47	766346	1	1	47	769239	1-8	1	48	769432	1	1	48
750650	8	1	59-127	760349	1	1	47	766436	1	1	47	769240	1-8	1	48	769433	1	1	48
750750	8	1	59-127	760434	1	1	47	766446	1	1	47	769241	1-8	1	48	769434	1	1	48
751530	8	1	59	760436	1	1	47	769120	1-8	1	48	769242	1-8	1	48	769435	1	1	48
751550	8	1	59	760437	1	1	47	769121	1-8	1	48	769243	1-8	1	48	769436	1	1	48
751650	8	1	59	760439	1	1	47	769122	1-8	1	48	769244	1-8	1	48	769437	1	1	48
751750	8	1	59	760444	1	1	47	769123	1-8	1	48	769245	1-8	1	48	769438	1	1	48
752126	7	1	26	760446	1	1	47	769124	1-8	1	48	769246	1-8	1	48	769439	1	1	48
752136	7	1	26	760447	1	1	47	769125	8	1	48	769247	1-8	1	48	769440	1	1	48
752146	7	1	26	760449	1	1	47	769126	1-8	1	48	769249	1-8	1	48	769441	1	1	48
753126	7	1	26	760530	8	1	59	769127	1-8	1	48	769320	1	1	48	769442	1	1	48
753136	7	1	26	760550	8	1	59	769128	1-8	1	48	769321	1	1	48	769443	1	1	48
753146	7	1	26	760650	8	1	59	769129	1-8	1	48	769322	1	1	48	769444	1	1	48
753236	7	1	26	760750	8	1	59	769130	1-8	1	48	769323	1	1	48	769445	1	1	48
754338	7-8	1	369	761530	8	1	59	769131	1-8	1	48	769324	1	1	48	769446	1	1	48
756338	1-7-8	1	369	761550	8	1	59	769132	1-8	1	48	769325	1	1	48	769447	1	1	48
757538	7-8	1	369	761650	8	1	59	769133	1-8	1	48	769326	1	1	48	769449	1	1	48
759538	1-7-8	1	369	761750	8	1	59	769134	1-8	1	48	769327	1	1	48	770124	1-8	1	49
759550	8	1	369	762124	1-8	1	47	769135	1-8	1	48	769328	1	1	48	770126	1-8	10	49
760124	1-8	1	47	762126	1-8	1	47	769136	1-8	1	48	769329	1	1	48	770129	1-8	1	49
760126	1-8	10	47	762136	1-8	1	47	769137	1-8	1	48	769330	1	1	48	770134	1-8	1	49
760129	1-8	1	47	762146	1-8	1	47	769138	1-8	1	48	769331	1	1	48	770136	1-8	10	49
760134	1-8	1	47	762224	1-8	1	47	769139	1-8	1	48	769332	1	1	48	770137	1-8	1	49
760136	1-8	10	47	762226	1-8	1	47	769140	1-8	1	48	769333	1	1	48	770139	1-8	1	49
760137	1-8	1	47	762236	1-8	1	47	769141	1-8	1	48	769334	1	1	48	770144	1-8	1	49
760139	1-8	1	47	762246	1-8	1	47	769142	1-8	1	48	769335	1	1	48	770146	1-8	10	49
760144	1-8	1	47	762336	1	1	47	769143	1-8	1	48	769336	1	1	48	770147	1-8	1	49
760146	1-8	10	47	762346	1	1	47	769144	1-8	1	48	769337	1	1	48	770149	1-8	1	49
760147	1-8	1	47	762436	1	1	47	769145	1-8	1	48	769338	1	1	48	770224	1-8	1	49
760149	1-8	1	47	762446	1	1	47	769146	1-8	1	48	769339	1	1	48	770226	1-8	1	49
760224	1-8	1	47	763124	1-8	1	47	769147	1-8	1	48	769340	1	1	48	770229	1-8	1	49
760226	1-8	1	47	763126	1-8	1	47	769149	1-8	1	48	769341	1	1	48	770233	1-8	1	49-351
760229	1-8	1	47	763136	1-8	1	47	769220	1-8	1	48	769342	1	1	48	770234	1-8	1	49
760233	1-8	1	47-351	763146	1-8	1	47	769221	1-8	1	48	769343	1	1	48	770236	1-8	5	49
760234	1-8	1	47	763224	1-8	1	47	769222	1-8	1	48	769344	1	1	48	770237	1-8	1	49
760236	1-8	5	47	763226	1-8	1	47	769223	1-8	1	48	769345	1	1	48	770239	1-8	1	49
760237	1-8	1	47	763236	1-8	1	47	769224	1-8	1	48	769346	1	1	48	770244	1-8	1	49
760239	1-8	1	47	763246	1-8	1	47	769225	8	1	48	769347	1	1	48	770246	1-8	5	49
760244	1-8	1	47	763336	1	1	47	769226	1-8	1	48	769349	1	1	48	770247	1-8	1	49
760246	1-8	5	47	763346	1	1	47	769227	1-8	1	48	769420	1	1	48	770249	1-8	1	49
760247	1-8	1	47	763436	1	1	47	769228	1-8	1	48	769421	1	1	48	770324	1	1	49
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760336	1	1	47	766224	1-8	1	47	769234	1-8	1	48	769427	1	1	48	770339	1	1	49
760337	1	1	47	766226	1-8	1	47	769235	1-8	1	48	769428	1	1	48	770344	1	1	49
760339	1	1	47	766236	1-8	1	47	769236	1-8	1	48	769429	1	1	48	770346	1	1	49
760344	1	1	47	766246	1-8	1	47	769237	1-8	1	48	769430	1	1	48	770347	1	1	49
760346	1	1	47	766336	1	1	47	769238	1-8	1	48	769431	1	1	48	770349	1	1	49

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770436	1	1	49	773129	1-8	1	50	776224	1-8	1	50	779141	1-8	1	51	779336	1	1	51
770437	1	1	49	773134	1-8	1	50	776226	1-8	1	50	779142	1-8	1	51	779337	1	1	51
770439	1	1	49	773136	1-8	1	50	776229	1-8	1	50	779143	1-8	1	51	779338	1	1	51
770444	1	1	49	773137	1-8	1	50	776233	1-8	1	50	779144	1-8	1	51	779339	1	1	51
770446	1	1	49	773139	1-8	1	50	776234	1-8	1	50	779145	1-8	1	51	779340	1	1	51
770447	1	1	49	773144	1-8	1	50	776236	1-8	1	50	779146	1-8	1	51	779341	1	1	51
770449	1	1	49	773146	1-8	1	50	776237	1-8	1	50	779147	1-8	1	51	779342	1	1	51
772124	1-8	1	49	773147	1-8	1	50	776239	1-8	1	50	779149	1-8	1	51	779343	1	1	51
772126	1-8	10	49	773149	1-8	1	50	776244	1-8	1	50	779220	1-8	1	51	779344	1	1	51
772129	1-8	1	49	773224	1-8	1	50	776246	1-8	1	50	779221	1-8	1	51	779345	1	1	51
772134	1-8	1	49	773226	1-8	1	50	776247	1-8	1	50	779222	1-8	1	51	779346	1	1	51
772136	1-8	1	49	773229	1-8	1	50	776249	1-8	1	50	779223	1-8	1	51	779347	1	1	51
772137	1-8	1	49	773233	1-8	1	50	776324	1	1	50	779224	1-8	1	51	779349	1	1	51
772139	1-8	1	49	773234	1-8	1	50	776326	1	1	50	779225	1-8	1	51	779420	1	1	51
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772146	1-8	1	49	773237	1-8	1	50	776334	1	1	50	779227	1-8	1	51	779422	1	1	51
772147	1-8	1	49	773239	1-8	1	50	776336	1	1	50	779228	1-8	1	51	779423	1	1	51
772149	1-8	1	49	773244	1-8	1	50	776337	1	1	50	779229	1-8	1	51	779424	1	1	51
772224	1-8	1	49	773246	1-8	1	50	776339	1	1	50	779230	1-8	1	51	779426	1	1	51
772226	1-8	1	49	773247	1-8	1	50	776344	1	1	50	779232	1-8	1	51	779427	1	1	51
772229	1-8	1	49	773249	1-8	1	50	776346	1	1	50	779233	1-8	1	51	779428	1	1	51
772233	1-8	1	49-351	773324	1	1	50	776347	1	1	50	779234	1-8	1	51	779429	1	1	51
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772236	1-8	1	49	773329	1	1	50	776434	1	1	50	779236	1-8	1	51	779431	1	1	51
772237	1-8	1	49	773334	1	1	50	776436	1	1	50	779237	1-8	1	51	779432	1	1	51
772239	1-8	1	49	773336	1	1	50	776437	1	1	50	779238	1-8	1	51	779433	1	1	51
772244	1-8	1	49	773337	1	1	50	776439	1	1	50	779239	1-8	1	51	779434	1	1	51
772246	1-8	1	49	773339	1	1	50	776444	1	1	50	779240	1-8	1	51	779435	1	1	51
772247	1-8	1	49	773344	1	1	50	776446	1	1	50	779241	1-8	1	51	779436	1	1	51
772249	1-8	1	49	773346	1	1	50	776447	1	1	50	779242	1-8	1	51	779437	1	1	51
772324	1	1	49	773347	1	1	50	776449	1	1	50	779243	1-8	1	51	779438	1	1	51
772326	1	1	49	773349	1	1	50	779120	1-8	1	51	779244	1-8	1	51	779439	1	1	51
772329	1	1	49	773434	1	1	50	779121	1-8	1	51	779245	1-8	1	51	779440	1	1	51
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772344	1	1	49	773446	1	1	50	779127	1-8	1	51	779321	1	1	51	779445	1	1	51
772346	1	1	49	773447	1	1	50	779128	1-8	1	51	779322	1	1	51	779446	1	1	51
772347	1	1	49	773449	1	1	50	779129	1-8	1	51	779323	1	1	51	779447	1	1	51
772349	1	1	49	776124	1-8	1	50	779130	1-8	1	51	779324	1	1	51	779449	1	1	51
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772437	1	1	49	776134	1-8	1	50	779133	1-8	1	51	779328	1	1	51	800062	4-7	6	207
772439	1	1	49	776136	1-8	1	50	779134	1-8	1	51	779329	1	1	51	800063	4-7	6	207
772444	1	1	49	776137	1-8	1	50	779135	1-8	1	51	779330	1	1	51	800064	4-7	6	207
772446	1	1	49	776139	1-8	1	50	779136	1-8	1	51	779331	1	1	51	800071	7	1	210
772447	1	1	49	776144	1-8	1	50	779137	1-8	1	51	779332	1	1	51	800072	7	1	210
772449	1	1	49	776146	1-8	1	50	779138	1-8	1	51	779333	1	1	51	800073	7	1	210
773124	1-8	1	50	776147	1-8	1	50	779139	1-8	1	51	779334	1	1	51	800074	7	1	210

Marks: 1=IMQ 2=VDE 3=PR.R.I.n.a. 4=M.M.I. 5=ENEC 6=ULUS 7=UKR 8=RETIE 9=KEMA 10=EX 11=SI-Israel 12=CEX 13=INMETRO



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800092	7	10	378	810185	5	1	271	811424		1	239	811927		1	241	817024	5	1	260
800093	7	10	378	810190	5	1	271	811428		1	239	811928		1	241	817058	5	1	260
800094	7	10	378	810191	5	1	271	811436		1	239	811929		1	241	817062	5	1	260
800121		1	213	810192	5	1	271	811442		1	239	811930		1	241	817066	5	1	260
800122		1	213	810193	5	1	271	811456	5	1	240	811931		1	241	817070	5	1	260
800123		1	213	810194	5	1	271	811462	5	1	240	811932		1	241	817074	5	1	260
810020	5	1	271	810195	5	1	271	811468		1	240	811933		1	241	817108	5	1	261
810021	5	1	271	810200	7	2	288	811474		1	240	811934		1	241	817112	5	1	261
810022	5	1	271	810226	5	1	273	811480		1	240	811935		1	241	817116	5	1	261
810023	5	1	271	810256	5	1	273	811486		1	240	811936		1	241	817120	5	1	261
810024	5	1	271	810271	7	1	287	811492		1	240	811937		1	241	817124	5	1	261
810025	5	1	271	810286	5	1	273	811509	5	1	240	811938		1	241	817158	5	1	261
810050	5	1	271	810296	5	1	273	811512	5	1	240	811939		1	241	817162	5	1	261
810051	5	1	271	810991		1	272	811515	5	1	240	811940		1	241	817166	5	1	261
810052	5	1	271	810992		1	272	811518		1	240	811941		1	241	817170	5	1	261
810053	5	1	271	810993		1	273	811524		1	240	811942		1	241	817174	5	1	261
810054	5	1	271	810994		1	272	811530		1	240	811943		1	241	817208	5	1	261
810055	5	1	271	810995		1	272	811536		1	240	811944		1	241	817212	5	1	261
810060	7	5	288	810996		1	272	811545		1	240	811945		1	241	817216	5	1	261
810071	7	1	287	810997		1	272	811556	5	1	240	811946		1	241	817220	5	1	261
810080	5	1	271	810998		1	272	811559	5	1	240	811947		1	241	817224	5	1	261
810081	5	1	271	810999		1	272	811562	5	1	240	811948		1	241	817304	5	1	265
810082	5	1	271	811060	7	5	288	811565	5	1	240	811954	5	1	237	817305	5	1	265
810083	5	1	271	811071	7	1	287	811568		1	240	811956	5	1	237	817308	5	1	265
810084	5	1	271	811100	7	1	288	811574		1	240	811959	5	1	237	817309	5	1	265
810085	5	1	271	811171	7	1	287	811579		1	237	811962	5	1	237	817312	5	1	265
810090	5	1	271	811200	7	2	288	811580		1	240	811965	5	1	237	817313	5	1	265
810091	5	1	271	811271	7	1	287	811582		1	237	811974	5	1	237	817316	5	1	265
810092	5	1	271	811304	5	1	239	811586		1	240	811976	5	1	237	817317	5	1	265
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810094	5	1	271	811312	5	1	239	811595		1	240	812071	7	1	287	817321	5	1	265
810095	5	1	271	811316		1	239	811900		1	241	812100	7	5	288	817324	5	1	265
810100	7	1	288	811320		1	239	811901		1	241	812171	7	1	287	817325	5	1	265
810120	5	1	271	811324		1	239	811902		1	241	812200	7	2	288	817354	5	1	265
810121	5	1	271	811328		1	239	811903		1	241	812271	7	1	287	817355	5	1	265
810122	5	1	271	811336		1	239	811904		1	241	812988	7	1	287	817358	5	1	265
810123	5	1	271	811342		1	239	811905		1	241	813060	7	1	288	817359	5	1	265
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810125	5	1	271	811362	5	1	240	811907		1	241	813100	7	2	288	817363	5	1	265
810150	5	1	271	811368		1	240	811908		1	261-273	813171	7	1	287	817366	5	1	265
810151	5	1	271	811374		1	240	811911		1	261	813200	7	2	288	817367	5	1	265
810152	5	1	271	811380		1	240	811912		1	261-273	813271	7	1	287	817370	5	1	265
810153	5	1	271	811386		1	240	811914		1	261	814052	7	1	287-359	817371	5	1	265
810154	5	1	271	811392		1	240	811916		1	267	815141		1	357	817374	5	1	265
810155	5	1	271	811404	5	1	239	811919		1	267	815151		1	357	817375	5	1	265
810171	7	1	287	811406	5	1	239	811920		1	267	815161		1	357	817404	5	1	265
810180	5	1	271	811408	5	1	239	811921		1	267	815181		1	357	817405	5	1	265
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810182	5	1	271	811414	5	1	239	811924		1	267	817012	5	1	260	817409	5	1	265
810183	5	1	271	811416		1	239	811925		1	241	817016	5	1	260	817412	5	1	265

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817413	5	1	265	817620	5	1	266	820021	7	1	379	824131	7	1	279	831540	7	1	379
817416	5	1	265	817621	5	1	266	820022		1	379	824231	7	1	279	831612	7	1	379
817417	5	1	265	817624	5	1	266	820030	7	1	379	824331	7	1	279	831627		1	356
817420	5	1	265	817625	5	1	266	820031	7	1	379	824561		1	279	831640	7	1	379-380
817421	5	1	265	817654	5	1	266	820032		1	379	824761	7	1	279	831712	7	1	379
817424	5	1	265	817655	5	1	266	820042		1	379	824861	7	1	279	831727		1	356
817425	5	1	265	817658	5	1	266	820111	7	1	280	824961	7	1	279	831740	7	1	379
817454	5	1	265	817659	5	1	266	820131	7	1	280	825111	7	1	280	831914	7	1	284
817455	5	1	265	817662	5	1	266	820132	7	1	280	825132	7	1	280	831934	7	1	284
817458	5	1	265	817663	5	1	266	820133	7	1	280	825211	7	1	280	831954	7	1	284
817459	5	1	265	817666	5	1	266	820151	7	1	280	825232	7	1	280	841011		1	363
817462	5	1	265	817667	5	1	266	820152	7	1	280	825240		1	276	841062	3	1	363
817463	5	1	265	817670	5	1	266	820211	7	1	280	825242		1	276	841141	3	1	362
817466	5	1	265	817671	5	1	266	820231	7	1	280	825562	7	1	280	841142	3	1	362
817467	5	1	265	817674	5	1	266	820232	7	1	280	825962	7	1	280	841171	3	1	362
817470	5	1	265	817675	5	1	266	820233	7	1	280	828132	7	1	280	841243	3	1	362
817471	5	1	265	819001		1	380	820240		1	275	828140		1	276	841273	3	1	362
817474	5	1	265	819012	7	1	289-359	820242		1	275	828142		1	276	841411		1	363
817475	5	1	265	819015	7	1	289	820251	7	1	280	828232	7	1	280	841462	3	1	363
817504	5	1	266	819017	7	1	289	820252	7	1	280	828240		1	276	841562	3	1	363
817505	5	1	266	819018	7	1	289	820311	7	1	280	828242		1	276	842132	7	1	281
817508	5	1	266	819019	7	1	289	820331	7	1	280	830071	7	1	284	842140		1	276
817509	5	1	266	819020	7	1	289	820332	7	1	280	830072	7	1	284	842142		1	276
817512	5	1	266	819022	7	1	289-357	820340		1	275	830512	7	1	379	842232	7	1	281
817513	5	1	266	819030	7	5	289-358	820342		1	275	830540	7	1	379	842240		1	276
817516	5	1	266	819035	7	1	289-358	820462	7	1	280	831069		1	356	842242		1	276
817517	5	1	266	819040	7	1	380	820511	7	1	280	831071	7	1	284	842962	7	1	281
817520	5	1	266	819055	7	20	379	820562	7	1	280	831072	7	1	284	843111	7	1	281
817521	5	1	266	819056	7	10	379	820662	7	1	280	831075	7	1	284	843132	7	1	281
817524	5	1	266	819112	7	1	289	820711	7	1	280	831089		1	356	843211	7	1	281
817525	5	1	266	819120	7	1	289	820762	7	1	280	831091	7	1	284	843232	7	1	281
817554	5	1	266	819130	7	5	289-358	820862	7	1	280	831092	7	1	284	843240		1	276
817555	5	1	266	819135	7	1	289-358	820911	7	1	280	831095	7	1	284	843242		1	276
817558	5	1	266	819140	7	1	380	820962	7	1	280	831109		1	356	843462	7	1	281
817559	5	1	266	819160		1	381	822131	7	1	279	831171	7	1	284	843511	7	1	281
817562	5	1	266	819212	7	1	289	822132	7	1	279	831172	7	1	284	843562	7	1	281
817563	5	1	266	819220	7	1	289	822140		1	275	831175	7	1	284	843911	7	1	281
817566	5	1	266	819230	7	5	289-358	822142		1	275	831189		1	356	843962	7	1	281
817567	5	1	266	819235	7	1	289-358	822211	7	1	279	831191	7	1	284	845111	7	1	281
817570	5	1	266	820000	7	1	277	822231	7	1	279	831192	7	1	284	845132	7	1	281
817571	5	1	266	820001	7	1	277	822232	7	1	279	831195	7	1	284	845211	7	1	281
817574	5	1	266	820002	7	1	281-331	822240		1	275	831209		1	356	845232	7	1	281
817575	5	1	266	820003	7	1	281-331	822242	11	1	275	831271	7	1	284	845240		1	277
817604	5	1	266	820006		1	277	822311	7	1	279	831272	7	1	284	845242		1	277
817605	5	1	266	820007		1	363	822331	7	1	279	831275	7	1	284	845562	7	1	281
817608	5	1	266	820008	7	1	281	822332	7	1	279	831289		1	356	845962	7	1	281
817609	5	1	266	820010		1	331	822340		1	275	831291	7	1	284	847132	7	1	281
817612	5	1	266	820011		1	331	822342		1	275	831292	7	1	284	847140		1	277
817613	5	1	266	820016		1	331	822762	7	1	279	831295	7	1	284	847142		1	277
817616	5	1	266	820017		1	331	822862	7	1	279	831512	7	1	379	847211	7	1	281
817617	5	1	266	820020	7	1	379	822962	7	1	279	831527		1	356	847232	7	1	281

Marks: 1=IMQ 2=VDE 3=FR:ina. 4=M.M.I. 5=ENEC 6=ULus 7=UKR 8=RETIE 9=KEMA 10=EX 11=SI:Israel 12=CEX 13=INMETRO



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847240		1	277	881562	3	1	363	272302EX	8-10 12-13	1	323	463139EX	8-10 12-13	1	302-303	465334EX	8-10 12-13	1	309
847242		1	277	<b>9</b>				272303EX	8-10 12-13	1	323	463144EX	8-10 12-13	1	302-303	465336EX	8-10 12-13	1	309
849011		1	363	900253		1	214	272304EX	8-10 12-13	1	323	463146EX	8-10 12-13	1	302-303	465337EX	8-10 12-13	1	309
849062	3-7	1	363	900259		1	378	272306EX	8-10 12-13	1	323	463147EX	8-10 12-13	1	302-303	465339EX	8-10 12-13	1	309
849141	3	1	362	900263		1	214	272307EX	8-10 12-13	1	323	463149EX	8-10 12-13	1	302-303	465344EX	8-10 12-13	1	309
849142	3	1	362	900269		1	378	282402EX	8-10 12-13	1	323	463324EX	8-10 12-13	1	303	465346EX	8-10 12-13	1	309
849171	3	1	362	900273		1	214	282403EX	8-10 12-13	1	323	463326EX	8-10 12-13	1	303	465347EX	8-10 12-13	1	309
849172	3	1	362	900279		1	378	282404EX	8-10 12-13	1	323	463329EX	8-10 12-13	1	303	465349EX	8-10 12-13	1	309
849243	3	1	362	900355		1	355	282406EX	8-10 12-13	1	323	463334EX	8-10 12-13	1	303	466124EX	8-10 12-13	1	307-308
849273	3	1	362	900365		1	355	282407EX	8-10 12-13	1	323	463336EX	8-10 12-13	1	303	466126EX	8-10 12-13	1	307-308
849411		1	363	900375		1	355	292101EX	8-10 12-13	1	321	463337EX	8-10 12-13	1	303	466129EX	8-10 12-13	1	307-308
849462	3	1	363	900448		1	214	292102EX	8-10 12-13	1	321	463339EX	8-10 12-13	1	303	466134EX	8-10 12-13	1	307-308
849511		1	363	900449		1	329	292103EX	8-10 12-13	1	321	463344EX	8-10 12-13	1	303	466136EX	8-10 12-13	1	307-308
849562	3	1	363	900453		1	214	292201EX	8-10 12-13	1	321	463346EX	8-10 12-13	1	303	466137EX	8-10 12-13	1	307-308
850042		1	357	900459		1	378	292202EX	8-10 12-13	1	321	463347EX	8-10 12-13	1	303	466139EX	8-10 12-13	1	307-308
850045		1	357	900463		1	214	292203EX	8-10 12-13	1	321	463349EX	8-10 12-13	1	303	466144EX	8-10 12-13	1	307-308
850050		1	357	900469		1	378	292301EX	8-10 12-13	1	321	464210EX	8-10 12-13	1	302-304	466146EX	8-10 12-13	1	307-308
850054	2	356		900473		1	214	292302EX	8-10 12-13	1	321	464220EX	8-10 12-13	1	302-304	466147EX	8-10 12-13	1	307-308
850058		1	357	900479		1	378	292303EX	8-10 12-13	1	321	464230EX	8-10 12-13	1	302-304	466149EX	8-10 12-13	1	307-308
850060		1	289-357	900548		1	355	292411EX	8-10 12-13	1	321	464310EX	8-10 12-13	1	302-304	467124EX	8-10 12-13	1	301-303
850061		1	289-357	900553		1	355	292412EX	8-10 12-13	1	321	464320EX	8-10 12-13	1	302-304	467126EX	8-10 12-13	1	301-303
850062		1	289-357	900563		1	355	292413EX	8-10 12-13	1	321	464330EX	8-10 12-13	1	302-304	467129EX	8-10 12-13	1	301-303
850063		1	289-357	900573		1	355	<b>4EX</b>				464336EX	8-10 12-13	1	304	467134EX	8-10 12-13	1	301-303
850064		1	289-357	<b>1EX</b>				460224EX	8-10 12-13	1	307-308	464339EX	8-10 12-13	1	304	467136EX	8-10 12-13	1	301-303
850065		1	358	150021EX	8-10 12-13	1	313	460226EX	8-10 12-13	1	307-308	464346EX	8-10 12-13	1	304	467137EX	8-10 12-13	1	301-303
850080		1	380	<b>2EX</b>				460229EX	8-10 12-13	1	307-308	464410EX	8-10 12-13	1	302-304	467139EX	8-10 12-13	1	301-303
850090		1	357	201151EX	10	1	327	460234EX	8-10 12-13	1	307-308	464420EX	8-10 12-13	1	302-304	467144EX	8-10 12-13	1	301-303
850091		1	357	201152EX	10	1	327	460236EX	8-10 12-13	1	307-308	464430EX	8-10 12-13	1	302-304	467146EX	8-10 12-13	1	301-303
850140		1	356	201156EX	10	1	327	460237EX	8-10 12-13	1	307-308	464621EX	8-10 12-13	1	302-304	467147EX	8-10 12-13	1	301-303
850143		1	356	202271EX	10	1	325	460239EX	8-10 12-13	1	307-308	464711EX	8-10 12-13	1	302-304	467149EX	8-10 12-13	1	301-303
850172		1	289-357	202275EX	10	1	325	460244EX	8-10 12-13	1	307-308	464721EX	8-10 12-13	1	302-304	470224EX	8-10 12-13	1	301-303
850300		1	358	202276EX	10	1	325	460246EX	8-10 12-13	1	307-308	464722EX	8-10 12-13	1	302	470226EX	8-10 12-13	1	301-303
850301		1	358	202282EX	10	1	325	460247EX	8-10 12-13	1	307-308	464731EX	8-10 12-13	1	302-304	470229EX	8-10 12-13	1	301-303
850360		1	381	261021EX	10	1	327	460249EX	8-10 12-13	1	307-308	464732EX	8-10 12-13	1	302	470234EX	8-10 12-13	1	301-303
850380		1	381	261432EX	10	1	325	460324EX	8-10 12-13	1	307-308	464811EX	8-10 12-13	1	302-304	470236EX	8-10 12-13	1	301-303
850381		1	381	261433EX	10	1	325	460326EX	8-10 12-13	1	307-308	464831EX	8-10 12-13	1	302-304	470237EX	8-10 12-13	1	301-303
850391		1	358	261435EX	10	1	325	460329EX	8-10 12-13	1	307-308	464832EX	8-10 12-13	1	302	470239EX	8-10 12-13	1	301-303
859180		1	381	261445EX	10	1	325	460334EX	8-10 12-13	1	307-308	465124EX	8-10 12-13	1	308-309	470244EX	8-10 12-13	1	301-303
859188	10	380		272141EX	8-10 12-13	1	323	460336EX	8-10 12-13	1	307-308	465126EX	8-10 12-13	1	308-309	470246EX	8-10 12-13	1	301-303
859400		1	289-358	272142EX	8-10 12-13	1	323	460337EX	8-10 12-13	1	307-308	465129EX	8-10 12-13	1	308-309	470247EX	8-10 12-13	1	301-303
859412	7	1	284-356	272143EX	8-10 12-13	1	323	460339EX	8-10 12-13	1	307-308	465134EX	8-10 12-13	1	308-309	470249EX	8-10 12-13	1	301-303
861550		1	355	272144EX	8-10 12-13	1	323	460344EX	8-10 12-13	1	307-308	465136EX	8-10 12-13	1	308-309	470324EX	8-10 12-13	1	301-303
878141	3	1	362	272146EX	8-10 12-13	1	323	460346EX	8-10 12-13	1	307-308	465137EX	8-10 12-13	1	308-309	470326EX	8-10 12-13	1	301-303
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878243	3	1	362	272241EX	8-10 12-13	1	323	460349EX	8-10 12-13	1	307-308	465144EX	8-10 12-13	1	308-309	470334EX	8-10 12-13	1	301-303
878741	3	1	362	272242EX	8-10 12-13	1	323	463124EX	8-10 12-13	1	302-303	465146EX	8-10 12-13	1	308-309	470336EX	8-10 12-13	1	301-303
878742	3	1	362	272243EX	8-10 12-13	1	323	463126EX	8-10 12-13	1	302-303	465147EX	8-10 12-13	1	308-309	470337EX	8-10 12-13	1	301-303
879062	3	1	363	272244EX	8-10 12-13	1	323	463129EX	8-10 12-13	1	302-303	465149EX	8-10 12-13	1	308-309	470339EX	8-10 12-13	1	301-303
879462	3	1	363	272246EX	8-10 12-13	1	323	463134EX	8-10 12-13	1	302-303	465324EX	8-10 12-13	1	309	470344EX	8-10 12-13	1	301-303
879562	3	1	364	272247EX	8-10 12-13	1	323	463136EX	8-10 12-13	1	302-303	465326EX	8-10 12-13	1	309	470346EX	8-10 12-13	1	301-303
881062	3	1	363	272301EX	8-10 12-13	1	323	463137EX	8-10 12-13	1	302-303	465329EX	8-10 12-13	1	309	470347EX	8-10 12-13	1	301-303

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470349EX	8-10 12-13	1	301-303	476925EX		1	299	571029EX	10-12-13	20	317	7EX				820111EX	10	1	333
472236EX	8-10 12-13	1	308-309	5EX				571036EX	10-12-13	10	317	760124EX	8-10-12	1	299	820131EX	8-10 12-13	1	333
472237EX	8-10 12-13	1	308	511910EX	8-10 12-13	1	313	571042EX	10-12-13	5	317	760126EX	8-10-12	1	299	820132EX	8-10 12-13	1	333
472246EX	8-10 12-13	1	308-309	511911EX	8-10 12-13	1	313	571048EX	10-12-13	5	317	760129EX	8-10-12	1	299	820211EX	10	1	333
472247EX	8-10 12-13	1	308	511912EX	8-10 12-13	1	313	571109EX	10-12-13	50	317	760134EX	8-10-12	1	299	820231EX	8-10 12-13	1	333
472256EX	8-10 12-13	1	308-309	511913EX	8-10 12-13	1	313	571111EX	10-12-13	50	317	760136EX	8-10-12	1	299	820232EX	8-10 12-13	1	333
472257EX	8-10 12-13	1	308	511914EX	10	1	309	571113EX	10-12-13	50	317	760137EX	8-10-12	1	299	820311EX	10	1	333
472336EX	8-10 12-13	1	308-309	511917EX	8-10 12-13	1	313	571116EX	10-12-13	50	317	760139EX	8-10-12	1	299	820331EX	8-10 12-13	1	333
472337EX	8-10 12-13	1	308	511919EX	10	1	309	571121EX	10-12-13	20	317	760144EX	8-10-12	1	299	820332EX	8-10 12-13	1	333
472346EX	8-10 12-13	1	308-309	511920EX	8-10 12-13	1	313	571129EX	10-12-13	20	317	760146EX	8-10-12	1	299	822111EX	10	1	333
472347EX	8-10 12-13	1	308	511921EX	8-10 12-13	1	313	571136EX	10-12-13	10	317	760147EX	8-10-12	1	299	822131EX	8-10 12-13	1	333
472356EX	8-10 12-13	1	308-309	511922EX	8-10 12-13	1	313	571142EX	10-12-13	5	317	760149EX	8-10-12	1	299	822132EX	8-10 12-13	1	333
472357EX	8-10 12-13	1	308	511923EX	8-10 12-13	1	313	571148EX	10-12-13	5	317	760224EX	8-10-12	1	299	822140EX	10	1	337
472436EX	8-10 12-13	1	308-309	532005EX	8-10 12-13	1	311	580360EX	10-12-13	1	319	760226EX	8-10-12	1	299	822142EX	10	1	337
472437EX	8-10 12-13	1	308	532006EX	8-10 12-13	1	311	580361EX	10-12-13	1	319	760229EX	8-10-12	1	299	822181EX	8-10 12-13	1	331
472446EX	8-10 12-13	1	308-309	532015EX	8-10 12-13	1	311	580364EX	10-12-13	1	319	760234EX	8-10-12	1	299	822182EX	8-10 12-13	1	331
472447EX	8-10 12-13	1	308	532016EX	8-10 12-13	1	311	580365EX	10-12-13	1	319	760236EX	8-10-12	1	299	822211EX	10	1	333
472456EX	8-10 12-13	1	308-309	532017EX	8-10 12-13	1	311	580394EX	10-12-13	1	319	760237EX	8-10-12	1	299	822231EX	8-10 12-13	1	333
472457EX	8-10 12-13	1	308	532018EX	8-10 12-13	1	311	580395EX	10-12-13	1	319	760239EX	8-10-12	1	299	822232EX	8-10 12-13	1	333
472546EX	8-10 12-13	1	308-309	532035EX	8-10 12-13	1	311	580396EX	10-12-13	1	319	760244EX	8-10-12	1	299	822240EX	10	1	337
472547EX	8-10 12-13	1	308	532045EX	8-10 12-13	1	311	580416EX	10-12-13	1	319	760246EX	8-10-12	1	299	822242EX	10	1	337
472556EX	8-10 12-13	1	308-309	532055EX	8-10 12-13	1	311	580420EX	10-12-13	1	319	760247EX	8-10-12	1	299	822281EX	8-10 12-13	1	331
472557EX	8-10 12-13	1	308	532116EX	8-10 12-13	1	311	580425EX	10-12-13	1	319	760249EX	8-10-12	1	299	822282EX	8-10 12-13	1	331
472611EX	8-10 12-13	1	302-303	532117EX	8-10 12-13	1	311	580432EX	10-12-13	1	319	760324EX	8-10-12	1	299	822311EX	10	1	333
472612EX	8-10 12-13	1	302	532118EX	8-10 12-13	1	311	580440EX	10-12-13	1	319	760326EX	8-10-12	1	299	822331EX	8-10 12-13	1	333
472621EX	8-10 12-13	1	302-303	532200EX	8-10 12-13	1	311	580450EX	10-12-13	1	319	760329EX	8-10-12	1	299	822332EX	8-10 12-13	1	333
472622EX	8-10 12-13	1	302	532201EX	8-10 12-13	1	311	580463EX	10-12-13	1	319	760334EX	8-10-12	1	299	822340EX	10	1	337
472631EX	8-10 12-13	1	302-303	532202EX	8-10 12-13	1	311	581012EX	10-12-13	50	318	760336EX	8-10-12	1	299	822342EX	10	1	337
472632EX	8-10 12-13	1	302	532203EX	8-10 12-13	1	311	581016EX	10-12-13	50	318	760337EX	8-10-12	1	299	830072EX	10-12-13	1	335
472711EX	8-10 12-13	1	302-303	532204EX	8-10 12-13	1	311	581020EX	10-12-13	50	318	760339EX	8-10-12	1	299	831072EX	10-12-13	1	335
472712EX	8-10 12-13	1	302	532240EX	10	1	304	581025EX	10-12-13	20	318	760344EX	8-10-12	1	299	831172EX	10-12-13	1	335
472721EX	8-10 12-13	1	302-303	532242EX	10	1	304	581032EX	10-12-13	20	318	760346EX	8-10-12	1	299	831272EX	10-12-13	1	335
472722EX	8-10 12-13	1	302	532244EX	10	1	304	581040EX	10-12-13	20	318	760347EX	8-10-12	1	299	842140EX	10	1	337
472731EX	8-10 12-13	1	302-303	538421EX		1	304	581050EX	10-12-13	10	318	760349EX	8-10-12	1	299	842142EX	10	1	337
472732EX	8-10 12-13	1	302	538429EX		1	304	581063EX	10-12-13	5	318	8EX				842240EX	10	1	337
472751EX	8-10 12-13	1	302-303	538436EX		1	304	581112EX	10-12-13	50	318	810020EX	5-10	1	339	842242EX	10	1	337
472752EX	8-10 12-13	1	302	540061EX		1	313	581116EX	10-12-13	50	318	810021EX	5-10	1	339	842340EX	10	1	337
472811EX	8-10 12-13	1	302-303	540063EX		1	313	581120EX	10-12-13	50	318	810022EX	5-10	1	339	842342EX	10	1	337
472812EX	8-10 12-13	1	302	540065EX		1	313	581125EX	10-12-13	20	318	810050EX	5-10	1	339	9EX			
472821EX	8-10 12-13	1	302-303	540180EX		1	309-313	581132EX	10-12-13	20	318	810051EX	5-10	1	339	900253EX	10	1	329
472822EX	8-10 12-13	1	302	540185EX		1	309	581140EX	10-12-13	20	318	810052EX	5-10	1	339	900263EX	10	1	329
472831EX	8-10 12-13	1	302-303	540186EX		1	309	581150EX	10-12-13	10	318	810080EX	5-10	1	339	900273EX	10	1	329
472832EX	8-10 12-13	1	302	540190EX		1	313	581163EX	10-12-13	5	318	810081EX	5-10	1	339	900453EX	10-12-13	1	329
472841EX	8-10 12-13	1	302-303	540195EX		1	313	582112EX	10-12-13	50	319	810082EX	5-10	1	339	900463EX	10-12-13	1	329
472842EX	8-10 12-13	1	302	541050EX		1	313	582116EX	10-12-13	50	319	810090EX	5-10	1	339	900473EX	10-12-13	1	329
476903EX		1	299	541055EX		1	309-313	582120EX	10-12-13	50	319	810091EX	5-10	1	339				
476905EX		1	299	571009EX	10-12-13	50	317	582125EX	10-12-13	20	319	810092EX	5-10	1	339				
476907EX		1	299	571011EX	10-12-13	50	317	582132EX	10-12-13	20	319	810226EX	5-10	1	339				
476909EX		1	299	571013EX	10-12-13	50	317	582140EX	10-12-13	20	319	810256EX	5-10	1	339				
476913EX		1	299	571016EX	10-12-13	50	317	582150EX	10-12-13	10	319	810286EX	5-10	1	339				
476923EX		1	299	571021EX	10-12-13	20	317	582163EX	10-12-13	5	319	810296EX	5-10	1	339				

Marks: 1=IMQ 2=VDE 3=PR.i.n.a. 4=M.M.I. 5=ENEC 6=ULus 7=UKR 8=RETIE 9=KEMA 10=EX 11=SIHsræel 12=IECEX 13=INMETRO



# GENERAL SALE AND SUPPLY TERMS

PALAZZOLI S.p.A.  
Single-member company  
Via F. Palazzoli, 31 - 25128 BRESCIA - ITALY  
Tel +39 030.2015.1 - Fax +39 030.2015.258  
www.palazzoli.com - export@palazzoli.com  
Company subject to the management  
and coordination of Europartners Ventures S.r.l.

# Palazzoli

Tax code 04452750484  
VAT 03316260177  
Brescia Chamber of Commerce REA no. 356562  
Brescia Register of Companies no. 04452750484  
Mechanised processing code BS 058237  
Share Capital 5,096,000 Euro fully paid-up  
IQNET ISO 9001:2008

**(Registered in Brescia on 6 March 1956, No. 9907, Mod. 2, Vol. 359, Private Deeds) OFFERS - QUOTATIONS - PROJECTS**

- 1 - Prices and terms are binding only upon Palazzoli S.p.A.'s written acceptance of the customer's order.
- 2 - Terms and other commitments that Palazzoli S.p.A. undertakes with the offer only apply if the order is extended to the entirety of the offer.
- 3 - Quotations, preliminary projects, etc. attached to the offer are Palazzoli S.p.A.'s exclusive property and may not be disclosed to third parties without Palazzoli S.p.A.'s prior written authorisation.
- 4 - Any modification to the offer and to these General Sale and Supply Terms must be in writing and limited to what has been explicitly agreed.

## WEIGHTS - DIMENSIONS - TECHNICAL DATA

- 5 - Estimates, projects, drawings and technical data provided in catalogues, price lists and offers are only approximate until such time as they are confirmed or replaced by definitive data, total or partial, at the moment of the order.

## PRICES

- 6 - Prices and discounts in price lists and offers may be subject to change depending on the requirements of the market or in relation to variations in the cost of raw materials or labour, without prior notice to customers. The prices given are ex-factory; transport, customs, duties, and rights of any nature shall always be borne entirely by the Customer, unless otherwise agreed in writing.

## PACKING AND TRANSPORT

- 7 - Returns are not accepted on packing. Under no circumstance, can our company be held liable for failed or irregular deliveries by carriers, and it is to be expressly understood that goods always travel at the buyer's full risk, even if sold - by special agreement - with free delivery (CPT) to destination. Any return of goods must be authorised beforehand by Palazzoli S.p.A. and arrive to Palazzoli S.p.A.'s warehouse free of all and any expenses.

## DELIVERY TERMS

- 8 - The delivery terms agreed upon are approximate and not binding and, under the "subject to being unsold" clause, for goods indicated as ready; delivery terms are to be intended as valid only under normal work and supply conditions. In no circumstance and for no reason will our company be held liable to make a reimbursement for any direct or indirect damage due to delays in delivery.

## PAYMENT

- 9 - Payment terms must be agreed in writing or, otherwise, they are understood to be for the net amount in cash at the moment of delivery of the goods. In the event of late payments, the Customer undertakes to pay default interest equal to the average interbank market rate applied by financial institutions, increased by 4%. If the buyer does not comply with, even only partly, any of the agreed conditions for collecting the goods or for the regular payment of single invoices, our company has the option of immediately interrupting further deliveries and to consider itself released from any contractual commitment, but maintaining all rights regarding the buyer's failure to comply with the contract. Unless otherwise expressly agreed, payments must always be made directly to our company.

## CLAIMS

- 10 - Any claims regarding goods supplied must reach us within 12 days of delivery of the same, after which time they will no longer be accepted. Any claim must be based on firm data in order to be taken into consideration. We reserve the option of taking back or replacing goods that the customer demonstrates to us to be defective, but we will not acknowledge any payment made for repairs or exchange which have been done without our authorisation. It is to remain understood that any claims put forward on single parts of the order will not affect the rest of the order or undertaking, nor the payment for goods received without objection.

## WARRANTIES

- 11 - The warranty period is of 12 months from the date of the relevant invoice. During the warranty period Palazzoli S.p.A. will repair or replace, free of charge, in its workshop, those parts or devices which should prove to be unusable as a consequence of defects in manufacture or materials. Nonetheless, we reserve the right to decide in our sole opinion, if it is better to repair or to replace them. We shall not send our staff on site for inspection purposes of places where our equipment has been used in systems, apart from those cases where it is necessary to check the operating conditions to which our equipment has been subject.
- 12 - Our warranty shall have effect provided that the devices have been installed and handled by the customer in a workmanlike manner, and not tampered with or modified, and all the technical instructions contained in our catalogues and instruction sheets have been duly followed. The warranty does not cover any such item that, as a consequence of their construction material or their intended use, are subject to early wear; likewise, breakdowns due to normal wear and tear are not covered by the warranty.
- 13 - The customer must give written notice of any faults and defects detected, with a precise report on their nature. Palazzoli S.p.A. undertakes to repair or replace the item for which the warranty claim has been raised, within a reasonable period, in the above-mentioned circumstances and following the above-mentioned terms. Material to repair or replace must be returned to us free of charge.
- 14 - By repairing or replacing any items or parts that should prove defective, Palazzoli S.p.A. shall be considered exempt from any and all liability of whatever nature. Moreover, the customers shall, by way of this, consider themselves satisfied and shall waive any request for damages and expenses. In particular cases we may permit the customer to provide for repair or replacement himself, with our only obligation being to reimburse the out-of-pocket expenses acknowledged as being essential for putting our equipment into working condition.
- 15 - In the event of technical disagreements, the parties shall refer the matter to an expert to be appointed by common agreement or, in the event of disagreement over the appointment, to the President of the Court of Brescia.
- 16 - Palazzoli S.p.A. will not accept any costs that the buyer may have incurred, even during the warranty period, without Palazzoli S.p.A.'s prior written authorisation.
- 17 - In the manufacture of its equipment, Palazzoli S.p.A. reserves the right to use any material that it deems suitable and to make any changes in shape, weight or dimensions in its products that it deems appropriate.

## PROCESSING OF PERSONAL DATA

- 18 - Pursuant to European Regulation 679 of 2016 on Privacy, personal data relating to the customer, shall be processed to fulfil contractual and regulatory obligations or, in any case, for administrative and accounting purposes, through appropriate procedures to ensure the security and confidentiality of data. For details, reference should be made to the Privacy Policy statement published on Palazzoli S.p.A.'s website.

## DISPUTES

- 19 - Even if stipulated with foreign companies or individuals or for equipment supplied abroad, are governed by the Italian legislation in force. The Court of Brescia shall be the only place of jurisdiction, even notwithstanding articles 31 (et seq.) of the Italian Civil Procedure Code, thereby excluding the Customer's possibility to bring proceedings in other Courts, even by way of guarantee or for related claim proceedings, but without prejudice to the Supplier's right to take legal proceedings, as a plaintiff, in the Customer's place of residence, in Italy or abroad.
- 20 - Any disputes shall not relieve the Customer from complying with the payment terms agreed and shall not imply any extension to the times agreed.

Palazzoli reserves the right to modify or improve the product at any time without prior notice.

**Palazzoli**

The background of the entire page is a night-time satellite view of the Earth, showing the illuminated continents of Europe and Africa. A bright sun or star is positioned at the horizon, creating a lens flare effect. Overlaid on this image is a network of blue lines connecting various points, resembling a global communication or data network. The Palazzoli logo is prominently displayed at the top center.

# Palazzoli

— excellence —  
**FROM ITALY**

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Fax +39 030 2015.258  
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[export@palazzoli.com](mailto:export@palazzoli.com)

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