

***Palazzoli***

**General**  
Catalogue



2019/2020

# ***Palazzoli***



CHIAREZZA DELLA FUNZIONE  
SEMPLICITÀ DI PROGETTO  
QUALITÀ DELLA MANIFATTURA

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CLARITY OF FUNCTION  
PROJECT SIMPLICITY  
QUALITY OF MANUFACTURE





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
<b>Thermal current I<sub>th</sub></b>		<b>A</b>	<b>16</b>	<b>32</b>	<b>63</b>
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	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	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
		32	110	Yellow	2P+⊕	4	<b>472236EX</b>
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	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
	40		110	Yellow	2P+⊕	4	<b>465324EX</b>
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		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
		fuses 10.3x38	400	Red	2P+⊕	9	<b>465329EX</b>
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	
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	

**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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The background of the entire page is a composite image. At the top, the word "Palazzoli" is written in a bold, white, italicized sans-serif font. Below it, the word "excellence" is written in a smaller, white, lowercase sans-serif font, flanked by a green horizontal line on the left and a red horizontal line on the right. Underneath "excellence" is the phrase "FROM ITALY" in a bold, white, uppercase sans-serif font. The main visual is a night-time satellite view of the Earth, showing the illuminated landmasses of Europe and Africa. A bright sun or starburst is positioned at the horizon, creating a lens flare effect. A network of blue lines and dots, resembling a constellation or a data network, is overlaid on the image. A solid yellow vertical bar runs along the right edge of the page.

# *Palazzoli*

— excellence —  
**FROM ITALY**

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