# Proximity Sensors Inductive Extended Range, Stainless Steel Housing Types IA, DC, M8, 2-wire





- Sensing distance: 2 to 4 mmFlush and non-flush types
- Power supply: 10 to 60 VDC
- Output: Transistor
- Normally open or normally closed
- Protection: Reverse polarity, short-circuit and transients
- 2 m cableDiameter: M8



## **Product Description**

M8 proximity switch with extended sensing range in stainless steel housing.

Made in accordance with Euronorm EN 60 947-5-2.

Ordering Key	IA 08 BSF 02 DO
Ind. proximity switch Housing style Housing size Housing material Housing length	
Detection principle Sensing distance Output type Output configuration	

# **Type Selection**

Housing diameter	Body style	Connection	Rated operating dist. (S <sub>n</sub> )	Ordering no. 2 wire DC Normally open	Ordering no. 2 wire DC Normally closed
M8 M8	Short Short	Cable Cable	2 mm <sup>1)</sup> 4 mm <sup>2)</sup>	IA 08 BSF 02 DO IA 08 BSN 04 DO	IA 08 BSF 02 DC IA 08 BSN 04 DC
1) For flush mounting in metal 2) For non-flush mounting in me		n mounting in metal			

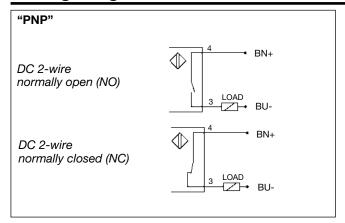
## **Specifications**

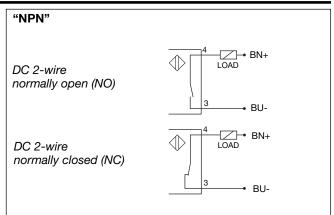
Rated operational volt. (U <sub>B</sub> )	10 to 60 VDC (ripple included)
Ripple	≤ 10%
Rated operational current (I <sub>e</sub> ) Continuous	≤ 3-100 mA
No-load supply current (I)	≤ 1.2 mA
Voltage drop (U <sub>d</sub> )	≤ 8 VDC at max. load
Protection	Reverse polarity, short-circuit, transients
Transient voltage	≤ 2 kV/0.5 J
Power ON delay	< 50 ms
Frequency of operating cycles (f)	2 kHz
Indication	LED, yellow
Repeat accuracy (R)	≤ 2 %
Hysteresis (H) (Differential travel)	1 to 20% of sensing distance
Assured operating dist. (Sa)	$0 \leq S_a \leq 0.77 \ S_n$
Effective operating dist. (S <sub>r</sub> )	$0.9 \ x \ S_n \leq S_r \leq 1.1 \ x \ S_n$
Usable operating dist. (S)	$0.85 \ x \ S_r \le S_u \le 1.15 \ x \ S_r$

Ambient temperature Operating Storage	-25° to +70°C (-13° to +158°F) -30° to +80°C (-22° to +176°F)
Degree of protection	IP 67 (Nema 1, 3, 4, 6, 13)
Housing material Body Front	Stainless steel Black thermoplastic polyester
Connection	Cable, 2 m, 2 x 0.5 mm <sup>2</sup> , grey PVC, oil proof
Approvals	CSA
CE-marking	Yes

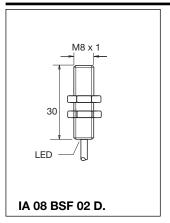


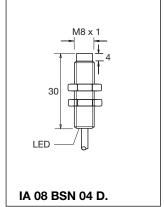
## **Wiring Diagrams**





#### **Dimensions**





# **Power Supplies**

Power supplies VDC: > SS 130/140.

#### **Installation Hints**

