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 30 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 _n)	Ordering no. 2 wire DC Normally open	Ordering no. 2 wire DC Normally closed
M8 M8	Short Short	Cable Cable	2 mm ¹⁾ 4 mm ²⁾	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	n mounting in metal		

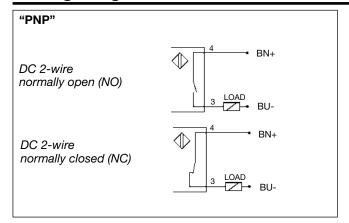
Specifications

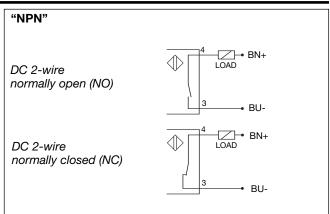
Rated operational volt. (U _B)	10 to 30 VDC (ripple included)
Ripple	≤ 10%
Rated operational current (I _e)	
Continuous	≤ 3-100 mA
No-load supply current (I)	≤ 1.2 mA
Voltage drop (U _d)	≤ 8 VDC at max. load
Protection	Reverse polarity,
	short-circuit, transients
Transient voltage	\leq 2 kV/0.5 J
Power 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 _r)	$0.9 \ x \ S_n \leq S_r \leq 1.1 \ x \ S_n$
Usable operating dist. (S)	$0.85 \times S_r \le S_u \le 1.15 \times S_r$

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 ² , grey PVC, oil proof
Approvals	CSA
CE-marking	Yes

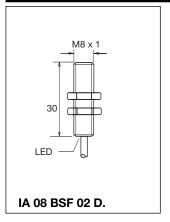


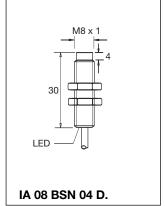
Wiring Diagrams





Dimensions





Power Supplies

Power supplies VDC: > SS 130/140.

Installation Hints

