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





Sensing distance: 2 to 4 mm

- Flush and non-flush types
- Power supply: 10 to 30 VDC
- Output: Transistor
- Make or break switching
- Protection: Reverse polarity, short-circuit and transients
- 2 m cable
- Diameter: 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

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	Connec- tion	Rated operating dist. (S _n)
M8 M8	Short Short	Cable Cable	2 mm ¹⁾ 4 mm ²⁾
¹⁾ For flush mounting in metal		²⁾ For non-flush mounting in metal	

Ordering no. 2 wire DC Normally open IA 08 BSF 02 DO IA 08 BSN 04 DO

Ordering no. 2 wire DC Normally closed

IA 08 BSF 02 DO

IA 08 BSF 02 DC IA 08 BSN 04 DC

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)	\leq 1.2 mA	
Voltage drop (U _d)	\leq 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. (Sr)	$0.9 \ x \ S_n \leq S_r \leq 1.1 \ x \ S_n$	
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 ² , grey PVC, oil proof
CE-marking	Yes





Installation Hints



Power Supplies

Power supplies VDC:

> SS 130/140.