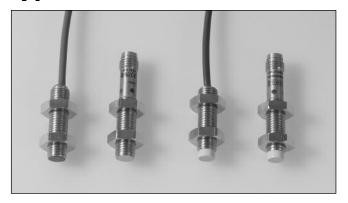
Proximity Inductive Sensors Extended range, Stainless Steel Housing Types IA, M8





- Sensing distance: 2 to 4 mm
- Flush and non-flush types
- Short body
- Rated operational voltage: 10 30 VDC
- Output: DC 200 mA, NPN or PNP, normally open or normally closed
- LED-indication
- Protection: reverse polarity, short-circuit, transients
- Cable and plug versions

Product Description

A family of extended range inductive proximity switches in industrial stainless steel housings. They are able to handle applica tions where high sensing range is requested.

Outputs are open collector NPN or PNP transistors. Available with cable and M8 plug.

Ordering Key	_ IA08BSF20NOM5
Туре	
Housing style	
Housing size	
Housing material	
Housing length	
Detection principle	
Sensing distance	
Output type	
Output configuration	
Connection type	

Type Selection

Rated operating dist. (S _n)	Conn. type	Ordering no. Transistor NPN Normally open	Ordering no. Transistor NPN Normally closed	Ordering no. Transistor PNP Normally open	Ordering no. Transistor PNP Normally closed
2 mm ¹⁾	Cable	IA 08 BSF 20 NO	IA 08 BSF 20 NC	IA 08 BSF 20 PO	IA 08 BSF 20 PC
2 mm ¹⁾	Plug	IA 08 BSF 20 NO M5	IA 08 BSF 20 NC M5	IA 08 BSF 20 PO M5	IA 08 BSF 20 PC M5
4 mm ²⁾ 4 mm ²⁾	Cable	IA 08 BSN 40 NO	IA 08 BSN 40 NC	IA 08 BSN 40 PO	IA 08 BSN 40 PC
	Plug	IA 08 BSN 40 NO M5	IA 08 BSN 40 NC M5	IA 08 BSN 40 PO M5	IA 08 BSN 40 PC M5

¹⁾ For flush mounting in metal

Specifications

Rated operational voltage (U _B)	10 to 30 VDC (ripple incl.)
Ripple	≤ 10%
Output current (I _e)	\leq 200 mA Derating: From +50°C to +70°C, I _c @ 70°C \leq 150 mA
No load supply current (I _o)	≤ 10 mA
Voltage drop (U _d)	Max. 2.5 VDC @ 200 mA
Protection	Reverse polarity, short-circuit, transients
Transient voltage	1 kV/0.5 J
Power ON delay (t _v)	< 100 ms
Operating frequency (f) IA08 BSF IA08 BSN	≥ 2000 Hz ≥ 1000 Hz
Indication for output ON	LED, yellow
Assured operating dist. (Sa)	$0 \leq S_a \leq 0.81~x~S_n$
Effective operating dist. (S _r)	$0.9 \ x \ S_n \leq S_r \leq 1.1 \ x \ S_n$

Usable operating distance (S _u)	$0.85 \ x \ S_r \leq S_u \leq 1.15 \ x \ S_r$
Repeat accuracy (R)	≤ 5%
Differential travel (H)	
(Hysteresis)	1 to 20% of sensing dist.
Ambient temperature	
Operating	-25° to +70°C (-13° to +158°F)
Storage	-30° to +80°C (-22° to +176°F)
Housing material	
Body	Stainless steel (AISI 304/303)
Front	Grey thermoplastic polyester
Backpart	
Plug	NPB
Nuts	NPB
Connection	
Cable	2 m, 3 x 0.14 mm ² , Ø 3,2 grey PVC,oil proof
Plug	M8 x 1
Cables for plug (M5)	CONH5A series
Degree of protection	IP 67

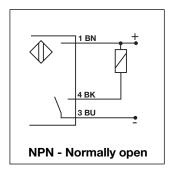
²⁾ For non-flush mounting in metal

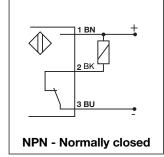


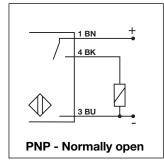
Specifications (cont.)

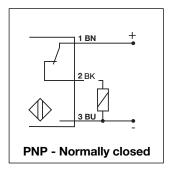
Weight (cable/nuts included)		Approvals	UL, CSA
	Approx. 30 g Approx. 5 g	CE-marking	Yes
Tightening torque	5.0 Nm (x) 8.0 Nm (y)		

Wiring Diagrams

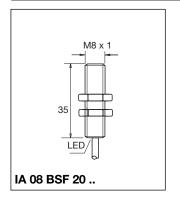


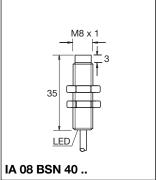


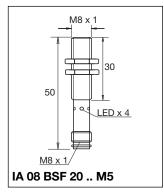


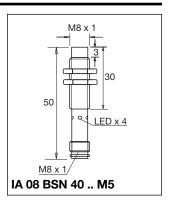


Dimensions

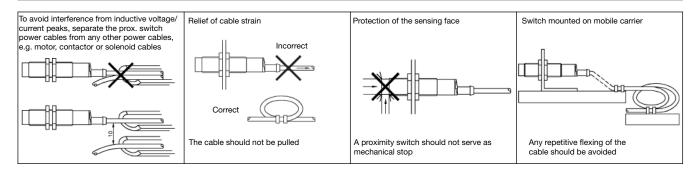








Installation Hints



Delivery Contents

- Inductive proximity switch IA..
- 2 nuts NPB
- Packaging: plastic bag