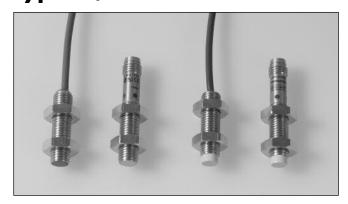
Proximity Sensors Inductive Extended Range, Stainless Steel Housing Type IA, M8





- 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 applications where high sensing range is requested. Outputs are open collector NPN or PNP transistors. Available with cable and M8 plug.

Ordering Key

Housing style

Housing size

Housing material

Housing length—— Detection principle IA08BSF20NOM5

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	Cable	IA 08 BSN 40 NO	IA 08 BSN 40 NC	IA 08 BSN 40 PO	IA 08 BSN 40 PC
4 mm	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⁾ Flush-mountable

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 ≥ 2000 Hz IA08 BSN ≥ 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 (Su)	$0.85 \; x \; S_r \leq S_u \leq 1.15 \; x \; S_r$
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



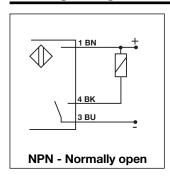
Specifications (cont.)

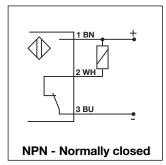
Degree of protection	IP 67	
Weight (cable/nuts included) Tightening torque	IA 08 IA 08 M5 5.0 Nm (x) 8.0 Nm (y)	approx. 30 g approx. 5 g
Approvals	UL, CSA	
CE-marking	Yes	

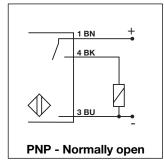
Delivery Contents

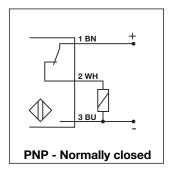
- Inductive proximity switch IA..
- 2 nuts NPB
- · Packaging: plastic bag

Wiring Diagrams

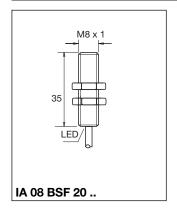


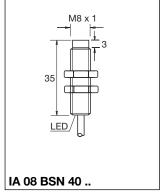


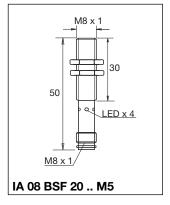


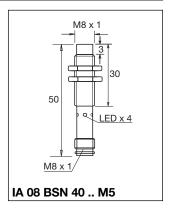


Dimensions









Installation Hints

