

Proximity Sensors Inductive

Short body, Stainless Steel Housing

Types IA, M5 w/short-circuit protection



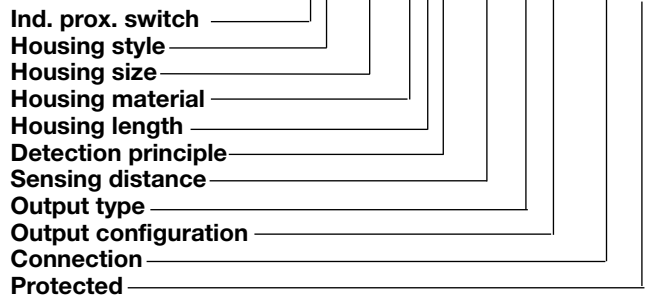
- Miniature stainless steel housing M5
- Short body
- Sensing distance: 1.0 mm (0.8 mm for IA05BSF10NCP only)
- Power supply: 10 to 30 VDC
- Output: Transistor NPN/PNP, normally open or normally closed
- Protection: Reverse polarity and short-circuit protection
- LED-indication for output ON
- 2 m PVC cable or M8 plug.

Product Description

Miniature inductive proximity sensor with reduced body length. Output configuration for NPN/PNP with both NO and NC types as standard. M5 stainless steel housing. Connection with 2 m PVC cable or M8 plug.

Ordering Key

IA 05 BSF 10 NO M5 P



Type Selection

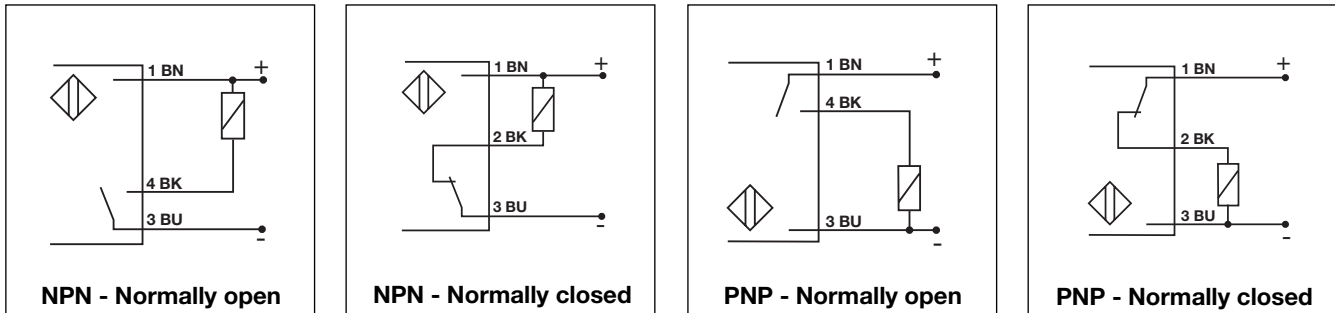
Rated operating dist. (S _n)	Conn. type	Ordering no. Transistor NPN Normally open	Ordering no. Transistor NPN Normally closed	Ordering no. Transistor PNP Normally open	Ordering no. Transistor PNP Normally closed
0.8 mm ¹⁾	Cable		IA 05 BSF 10 NC P		
1.0 mm ¹⁾	Cable	IA 05 BSF 10 NO P		IA 05 BSF 10 PO P	IA 05 BSF 10 PC P
1.0 mm ¹⁾	Plug	IA 05 BSF 10 NO M5 P	IA 05 BSF 10 NC M5 P	IA 05 BSF 10 PO M5 P	IA 05 BSF 10 PC M5 P

¹⁾ For flush mounting in metal

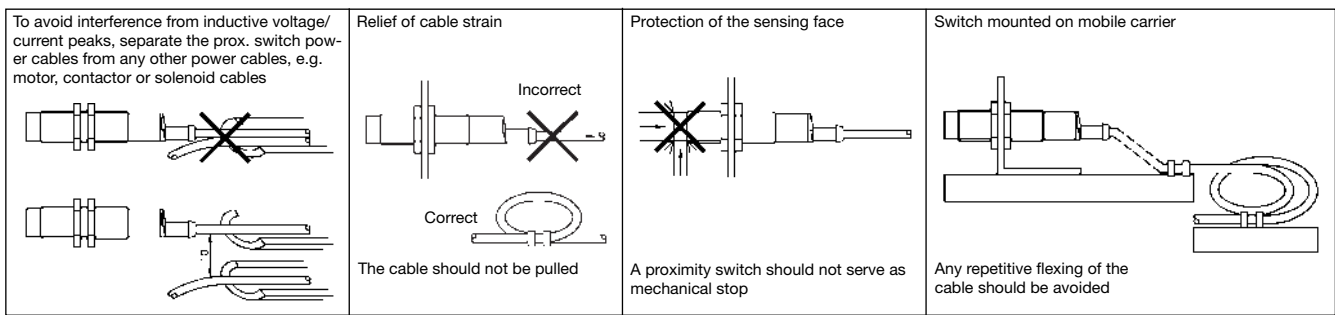
Specifications

Rated operational volt. (U_B)	10 to 30 VDC (ripple included)	Ambient temperature	
Ripple	≤ 10%	Operating	-25° to +70°C (-13° to +158°F)
Rated operational current (I_a) Continuous	≤ 200 mA	Storage	-30° to +75°C (-22° to +167°F)
No-load supply current (I_o)	≤ 10 mA (ON)	Degree of protection	IP 67 (Nema 1, 3, 4, 6, 13)
Voltage drop (U_d)	< 1.0 V (@ I _{max})	Housing material	Stainless steel, AISI 303
Protection	Reverse polarity and short-circuit protection	CE-marking	Yes
Frequency of operating cycles (f)	2000 Hz	Connection	
Indication for output ON	LED, yellow	Cable	2 m, PVC, oil proof AWG 26/ 3 x 0.15 mm ²
Effective operating dist. (S_r)	0.9 x S _n ≤ S _r ≤ 1.1 x S _n	Plug	M8, CONH5A-xxx Serie
Usable operating dist. (S_u)	0.85 x S _r ≤ S _u ≤ 1.15 x S _r		

Wiring Diagrams



Installation Hints



Dimensions

