Proximity Sensors Inductive Short body, Stainless Steel Housing Types IA, M5 w/short-circuit protection

CARLO GAVAZZI



- 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	101	10	M5	Ρ
Ind. prox. switch						Т
Housing style ———						
Housing size						
Housing material		_!				
Housing length						
Detection principle						
Sensing distance						
Output type						
Output configuration —						
Connection						
Protected —						

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⁾ 1.0 mm ¹⁾ 1.0 mm ¹⁾	Cable Cable Plug	IA 05 BSF 10 NO P IA 05 BSF 10 NO M5 P	IA 05 BSF 10 NC P IA 05 BSF 10 NC M5 P	IA 05 BSF 10 PO P IA 05 BSF 10 PO M5 P	IA 05 BSF 10 PC P IA 05 BSF 10 PC M5 P

¹⁾ For flush mounting in metal

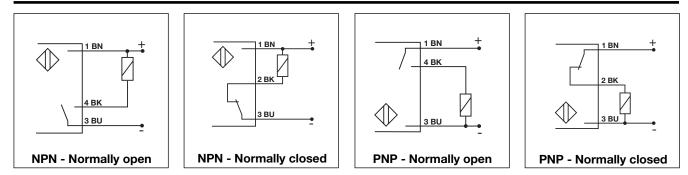
Specifications

Rated operational volt. (U_B)	10 to 30 VDC (ripple included)
Ripple	≤10%
Rated operational current (I _e) Continuous	≤ 200 mA
No-load supply current (I _o)	≤ 10 mA (ON)
Voltage drop (U _d)	< 1.0 V (@ I _{max})
Protection	Reverse polarity and short-circuit protection
Frequency of operating cycles (f)	2000 Hz
Indication for output ON	LED, yellow
Effective operating dist. (Sr)	$0.9 \ x \ S_n \leq S_r \leq 1.1 \ x \ S_n$
Usable operating dist. (S_u)	$0.85 \ x \ S_r \le S_u \le 1.15 \ x \ S_r$

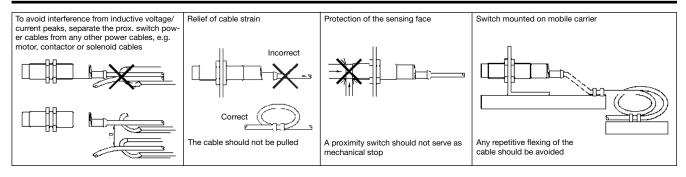
Ambient temperature Operating Storage	-25° to +70°C (-13° to +158°F) -30° to +75°C (-22° to +167°F)	
Degree of protection	IP 67 (Nema 1, 3, 4, 6, 13)	
Housing material	Stainless steel, AISI 303	
CE-marking	Yes	
Connection Cable Plug	2 m, PVC, oil proof AWG 26/ 3 x 0.15 mm² M8, CONH5A-xxx Serie	



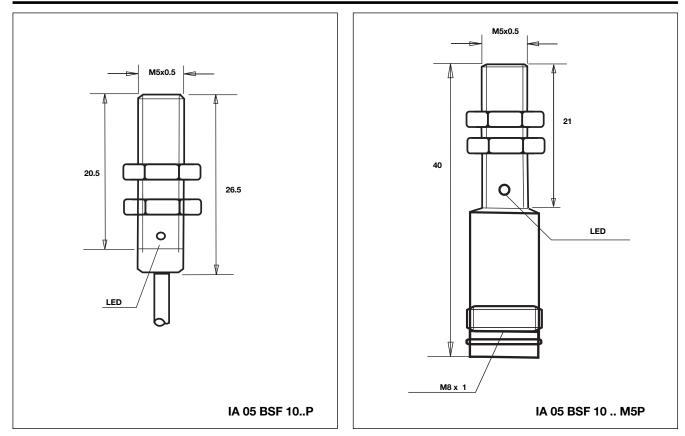
Wiring Diagrams



Installation Hints



Dimensions



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