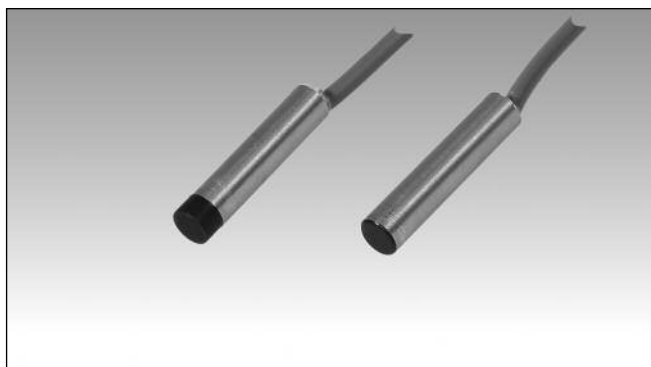


Proximity Sensors Inductive Stainless Steel Housing Types IA, Ø6.5

CARLO GAVAZZI



- Miniature Ø6.5 stainless steel housing
- Short housing
- Sensing distance: 1.0 and 2.0 mm
- Power supply: 10 to 30 VDC
- Output: Transistor NPN/PNP, normally open or normally closed
- Protection: Short-circuit and reverse polarity
- LED-indication for output ON
- For flush mounting/non flush mounting
- 2 m PVC cable

Product Description

Inductive proximity sensor in Ø6.5 stainless steel housing for flush or non-flush mounting in metal.

Output configuration for NPN/PNP with both NO and NC types as standard. Connection with 2 m PVC cable.

Ordering Key

IA 06 BSF 10 NO

Type _____
Housing style _____
Housing size _____
Housing material _____
Housing length _____
Detection principle _____
Sensing distance _____
Output type _____
Output configuration _____

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
1.0 mm ¹⁾	Cable	IA06BSF10NO	IA06BSF10NC	IA06BSF10PO	IA06BSF10PC
2.0 mm ²⁾	Cable	IA06BSN20NO	IA06BSN20NC	IA06BSN20PO	IA06BSN20PC

¹⁾ For flush mounting

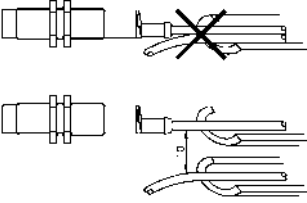
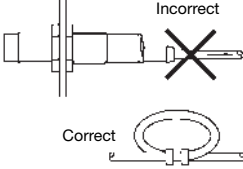
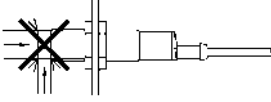
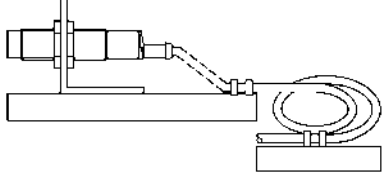
²⁾ For non flush mounting

Specifications

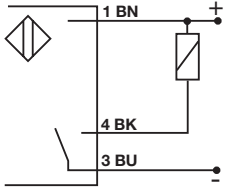
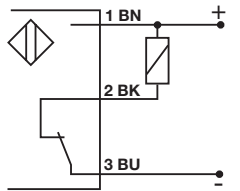
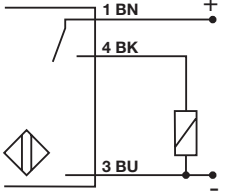
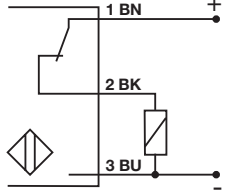
Rated operational volt. (U _B)	10 to 30 VDC (ripple included)	Effective operating dist. (S _r)	0.9 x S _n ≤ S _r ≤ 1.1 x S _n
Ripple	≤ 10%	Usable operating dist. (S _u)	0.85 x S _r ≤ S _u ≤ 1.15 x S _r
Rated operational current (I _e) Continuous	≤ 200 mA	Ambient temperature	
No-load supply current (I _o)	≤ 10 mA (ON)	Operating	-25° to +70°C (-13° to +158°F)
Voltage drop (U _d)	< 1.0 V (@ I _{max})	Storage	-30° to +75°C (-22° to +167°F)
Protection	Short-circuit, reverse polarity	Degree of protection	IP 67 (Nema 1, 3, 4, 6, 13)
Frequency of operating cycles (f)	2 kHz	Housing material	Stainless steel
Indication for output ON	LED, red	CE-marking	Yes
		Connection	2 m, PVC, oil proof



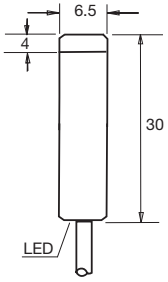
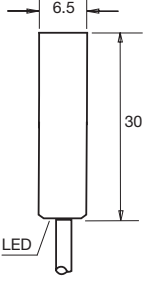
Installation Hints

To avoid interference from inductive voltage/ current peaks, separate the prox. switch power cables from any other power cables, e.g. motor, contactor or solenoid cables 	Relief of cable strain  The cable should not be pulled	Protection of the sensing face  A proximity switch should not serve as mechanical stop	Switch mounted on mobile carrier  Any repetitive flexing of the cable should be avoided
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Wiring Diagrams

 NPN - Normally open	 NPN - Normally closed	 PNP - Normally open	 PNP - Normally closed
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Dimensions

 IA 06 BSN 20 ..	 IA 06 BSF 10 ..
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