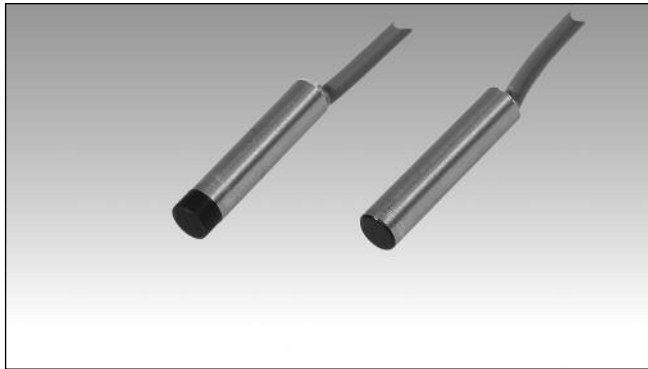


Proximity Sensors Inductive Stainless Steel Housing Types IA, Ø6.5

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

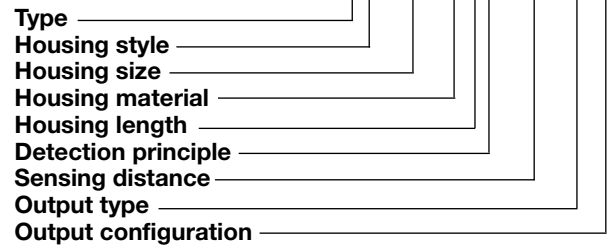
Product Description

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 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

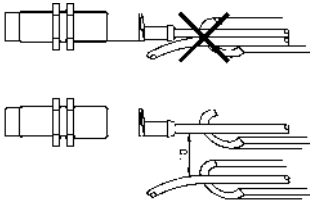
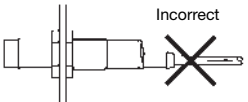
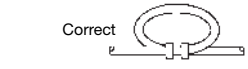
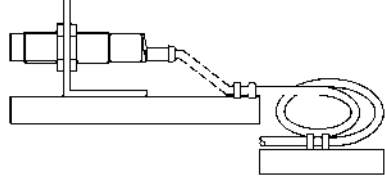
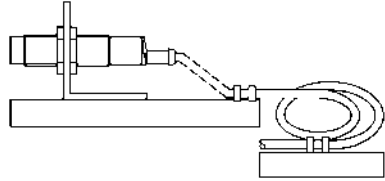
¹⁾ For flush mounting

²⁾ For non flush mounting

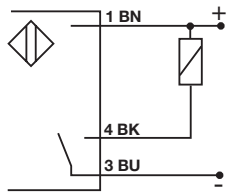
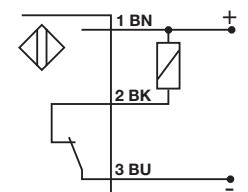
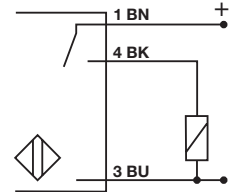
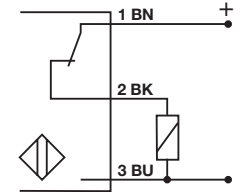
Specifications

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 Operating	-25° to +70°C (-13° to +158°F)
No-load supply current (I _o)	≤ 10 mA (ON)	Storage	-30° to +75°C (-22° to +167°F)
Voltage drop (U _d)	< 1.0 V (@ I _{max})	Degree of protection	IP 67 (Nema 1, 3, 4, 6, 13)
Protection	Short-circuit, reverse polarity	Housing material	Stainless steel
Frequency of operating cycles (f)	2 kHz	CE-marking	Yes
Indication for output ON	LED, red	Connection	2 m, PVC, oil proof

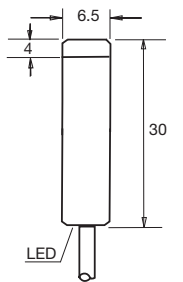
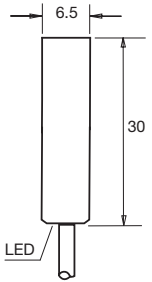
Installation Hints

<p>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</p> 	<p>Relief of cable strain</p> <p>Incorrect</p>  <p>Correct</p>  <p>The cable should not be pulled</p>	<p>Protection of the sensing face</p>  <p>A proximity switch should not serve as mechanical stop</p>	<p>Switch mounted on mobile carrier</p>  <p>Any repetitive flexing of the cable should be avoided</p>
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Wiring Diagrams

 <p>NPN - Normally open</p>	 <p>NPN - Normally closed</p>	 <p>PNP - Normally open</p>	 <p>PNP - Normally closed</p>
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Dimensions

 <p>IA 06 BSN 20 ..</p>	 <p>IA 06 BSF 10 ..</p>
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