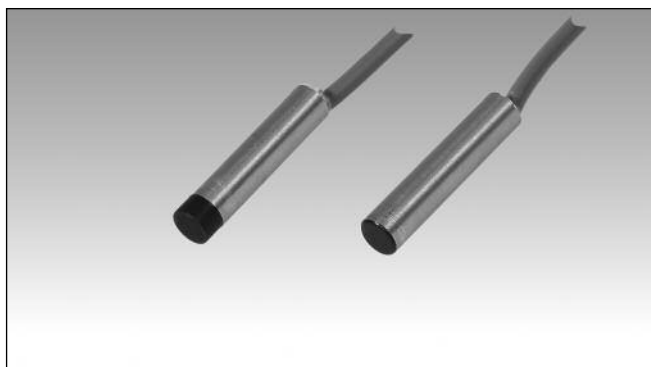


# Proximity Sensors Inductive Stainless Steel Housing Types IA, Ø6.5

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 <sub>n</sub> )	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 <sup>1)</sup>	Cable	IA06BSF10NO	IA06BSF10NC	IA06BSF10PO	IA06BSF10PC
2.0 mm <sup>2)</sup>	Cable	IA06BSN20NO	IA06BSN20NC	IA06BSN20PO	IA06BSN20PC

<sup>1)</sup> For flush mounting

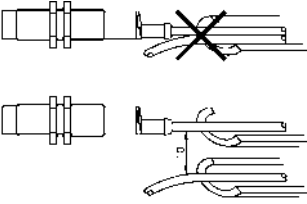
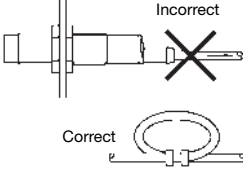
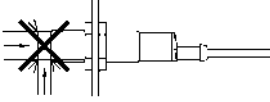
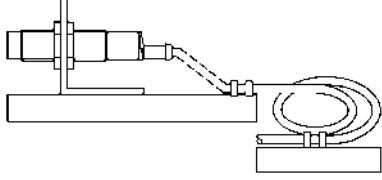
<sup>2)</sup> For non flush mounting

## Specifications

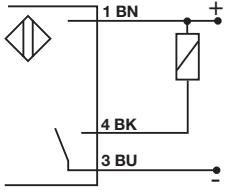
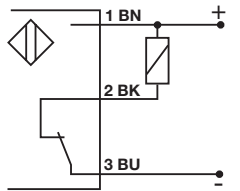
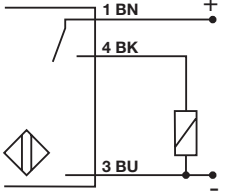
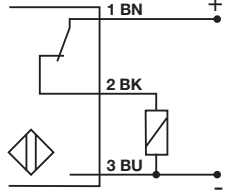
Rated operational volt. (U <sub>B</sub> )	10 to 30 VDC (ripple included)	Effective operating dist. (S <sub>r</sub> )	0.9 x S <sub>n</sub> ≤ S <sub>r</sub> ≤ 1.1 x S <sub>n</sub>
Ripple	≤ 10%	Usable operating dist. (S <sub>u</sub> )	0.85 x S <sub>r</sub> ≤ S <sub>u</sub> ≤ 1.15 x S <sub>r</sub>
Rated operational current (I <sub>e</sub> ) Continuous	≤ 200 mA	Ambient temperature	
No-load supply current (I <sub>o</sub> )	≤ 10 mA (ON)	Operating	-25° to +70°C (-13° to +158°F)
Voltage drop (U <sub>d</sub> )	< 1.0 V (@ I <sub>max</sub> )	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



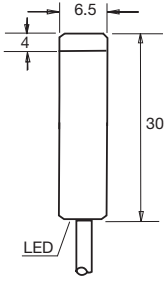
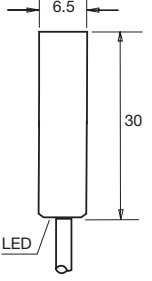
Installation Hints

<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>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>
--	---	---	--

Wiring Diagrams

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

Dimensions

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

# Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

[Carlo Gavazzi:](#)

[IA06BSN20NC](#) [IA06BSN20PO](#) [IA06BSF10PO](#) [IA06BSN20NO](#) [IA06BSF10PCM5](#) [IA06BSN20PC](#) [IA06BSF10NO](#)  
[IA06BSF10NC](#) [IA06BSF10PC](#) [IA06BSF10NCM5](#) [IA06BSF10NOM5](#) [IA06BSF10POM5](#) [IA06BSN20NCM5](#)  
[IA06BSN20NOM5](#) [IA06BSN20PCM5](#) [IA06BSN20POM5](#)