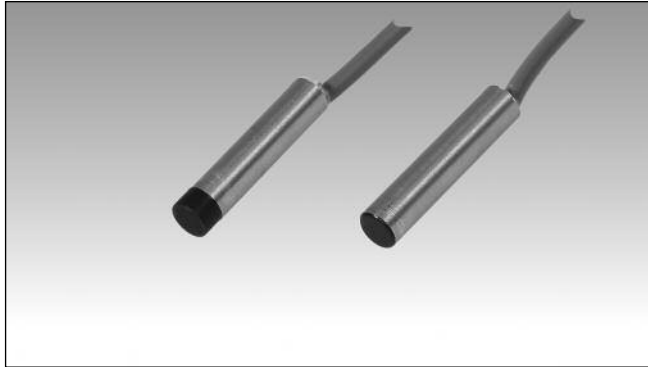


# Proximity Sensors Inductive Stainless Steel Housing Types IA, Ø6.5

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

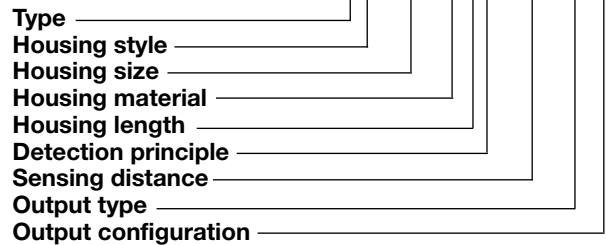
## Product Description

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 <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

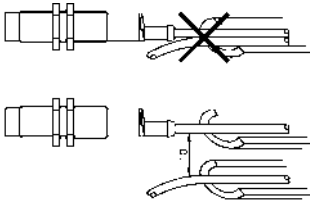
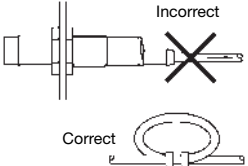
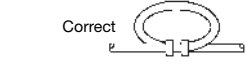
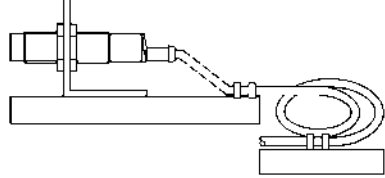
<sup>1)</sup> For flush mounting

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

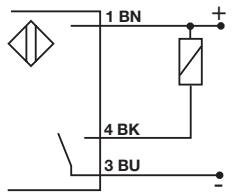
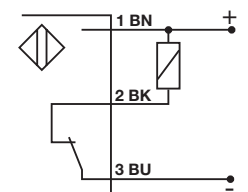
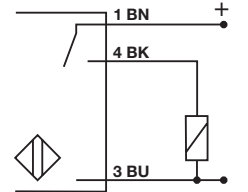
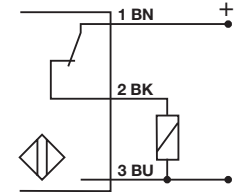
## Specifications

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 Operating	-25° to +70°C (-13° to +158°F)
No-load supply current (I <sub>o</sub> )	≤ 10 mA (ON)	Storage	-30° to +75°C (-22° to +167°F)
Voltage drop (U <sub>d</sub> )	< 1.0 V (@ I <sub>max</sub> )	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

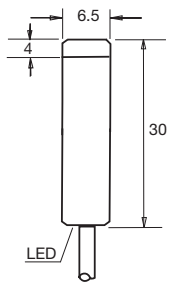
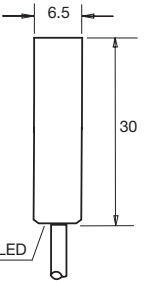
## Installation Hints

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

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