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



- 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 mount-ing 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 |
|------------------------|-----------------|
| Туре | |
| 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) |
|---|---------------------------------|
| Ripple | ≤ 10% |
| Rated operational current (Ie) | |
| Continuous | ≤200 mA |
| No-load supply current (l _o) | ≤ 10 mA (ON) |
| Voltage drop (U _d) | < 1.0 V (@ I _{max}) |
| Protection | Short-circuit, reverse polarity |
| Frequency of operating | |
| cycles (f) | 2 kHz |
| Indication for output ON | LED, red |
| | |

| Effective operating dist. (Sr) | $0.9 \; x \; S_n \leq S_r \leq 1.1 \; x \; S_n$ |
|--|---|
| Usable operating dist. (S _u) | $0.85 \; x \; S_r \leq S_u \leq 1.15 \; x \; S_r$ |
| Ambient temperature | |
| Operating | -25° to +70°C (-13° to +158°F) |
| Storage | -30° to +75°C (-22° to +167°F) |
| Degree of protection | IP 67 (Nema 1, 3, 4, 6, 13) |
| Housing material | Stainless steel |
| CE-marking | Yes |
| Connection | 2 m, PVC, oil proof |
| | |
| | |
| | |
| | |



Installation Hints



Wiring Diagrams



Dimensions

