

Proximity Sensors Inductive

Short body, Stainless Steel Housing

Types IA, M5 w/short-circuit protection

- Miniature stainless steel housing M5
- Short body
- Sensing distance: 1.0 mm (0.8 mm for IA05BSF10NCP only)
- Power supply: 10 to 30 VDC
- Output: Transistor NPN/PNP, normally open or normally closed
- Protection: Reverse polarity and short-circuit protection
- LED-indication for output ON
- 2 m PVC cable or M8 plug

Product Description

Ordering Key IA 05 BSF 10 NO M5 P

Miniature inductive proximity sensor with reduced body length. Output configuration for NPN/PNP with both NO and NC types as standard. M5 stainless steel housing. Connection with 2 m PVC cable or M8 plug.

Ind. prox. switch Housing style Housing size Housing material Housing length Detection principle Sensing distance Output type

Output configuration Connection Protected

Type Selection

Rated Conn. Ordering no. Ordering no. Ordering no. Ordering no. operating type Transistor NPN Transistor NPN Transistor PNP Transistor PNP dist. (Sn) Normally open Normally closed Normally open Normally closed

0.8 mm 1) Cable IA 05 BSF 10 NC P

1.0 mm 1) Cable IA 05 BSF 10 NO P IA 05 BSF 10 PO P IA 05 BSF 10 PC P

1.0 mm 1) Plug IA 05 BSF 10 NO M5 P IA 05 BSF 10 NC M5 P IA 05 BSF 10 PO M5 P IA 05 BSF 10 PC M5 P

1) For flush mounting in metal

Specifications

Rated operational volt. (UB) 10 to 30 VDC (ripple included)

Ripple $\leq 10\%$

Rated operational current (Ie)

Continuous ≤ 200 mA

No-load supply current (Io) ≤ 10 mA (ON) Voltage drop (Ud) < 1.0 V (@ I_{max}) Protection Reverse polarity and short-circuit protection

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, AISI 303

CE-marking Yes

Connection

Cable 2 m, PVC, oil proof

Frequency of operating

cycles (f) 2000 Hz

Indication for output ON LED, yellow

Effective operating dist. (Sr) $0.9 \times S_n \leq S_r \leq 1.1 \times S_n$

Usable operating dist. (Su) $0.85 \times S_r \leq S_u \leq 1.15 \times S_r$

AWG 26/ 3 x 0.15 mm²

Plug M8, CONH5A-xxx Serie

Specifications are subject to change without notice (06.06.13) 1