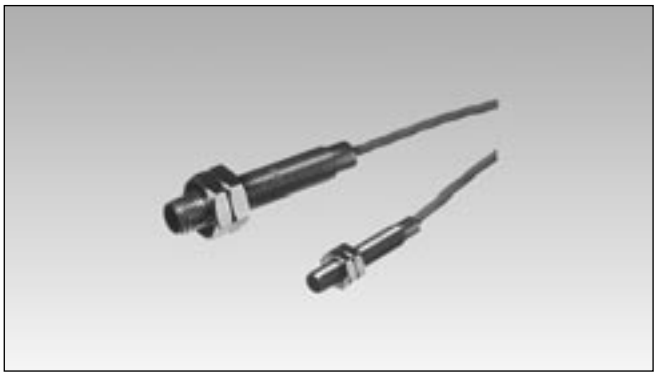
Proximity Sensors Inductive
High Temperature
Types IA, DC, M5, M8



- **Stainless steel housings**
- **Sensing distance: 0.8 - 1 mm**
- **Power supply: 10 to 30 VDC**
- **Output: Transistor NPN or PNP, make switching**
- **For flush mounting**
- **2 m silicone cable**

Product Description

Inductive proximity sensor with transistor output in M5 and M8 stainless steel housing for flush mounting in metal. Output configuration for NPN/PNP with NO as standard. Connection with 2 m silicone cable.

Ordering Key

IA 05 BSF 08 NO HT-K

- **Type**
- **Housing style**
- **Housing size**
- **Housing material**
- **Housing length**
- **Detection principle**
- **Sensing distance**
- **Output type**
- **Output configuration**
- **High temperature**

Type Selection

Rated operating dist. (S_n)	Connection type	Housing dimensions	Ordering no. Transistor NPN Make switching	Ordering no. Transistor PNP Make switching
0.8 mm	Cable, 2 m	M5	**IA 05 BSF 08 NOHT-K**	**IA 05 BSF 08 POHT-K**
1.0 mm	Cable, 2 m	M8	**IA 08 BSF 10 NOHT-K**	**IA 08 BSF 10 POHT-K**

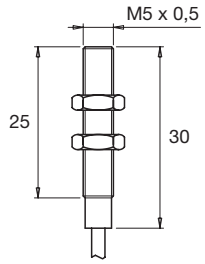
All types for flush mounting in metal

Specifications

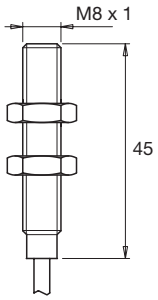
Rated operational volt. (U_B)	10 to 30 VDC (ripple included)
Ripple	≤ 10%
Rated operational current (I_e) Continuous	≤ 50 mA @ + 25°C (+75°F)
No-load supply current (I_o)	≤ 5 mA (ON)
Voltage drop (U_d)	< 3,0 V (@ I_{max})
Frequency of op. cycles (f)	Ø5: 3 kHz Ø8: 2 kHz
Effective operating dist. (S_r)	0.9 x S_n ≤ S_r ≤ 1.1 x S_n
Usable operating dist. (S_u)	0.85 x S_r ≤ S_u ≤ 1.15 x S_r

Ambient temperature	
Operating	-25° to +120°C (-13° to +248°F)
Storage	-30° to +125°C (-22° to +257°F)
Degree of protection	IP 67 (Nema 1, 3, 4, 6, 13)
Housing material	Stainless steel
CE-marking	Yes
Connection	Cable, silicone, 2 m, AWG 26

Dimensions

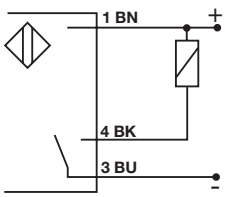


IA 05 BSF 08 .OHT-K

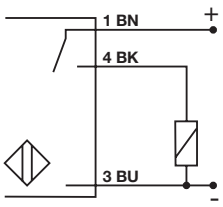


IA 08 BSF 10 .OHT-K

Wiring Diagrams



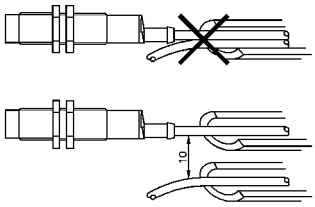
NPN - Make switching



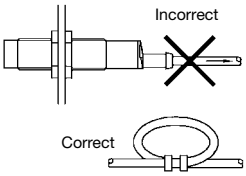
PNP - Make switching

Installation Hints

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

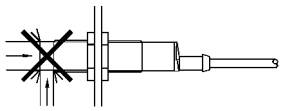


Relief of cable strain



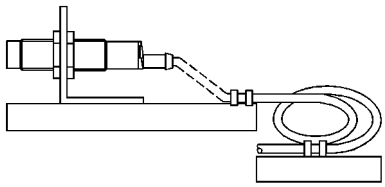
The cable should not be pulled

Protection of the sensing face



A proximity switch should not serve as mechanical stop

Switch mounted on mobile carrier



Any repetitive flexing of the cable should be avoided