

Proximity Sensors Inductive High Temperature Types IA, M5, 8, NPN/PNP

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- 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: Ind. prox. switch
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

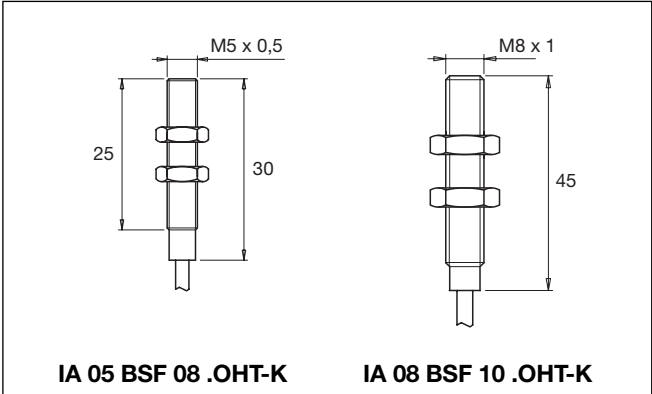
All types for flush mounting in metal

Specifications

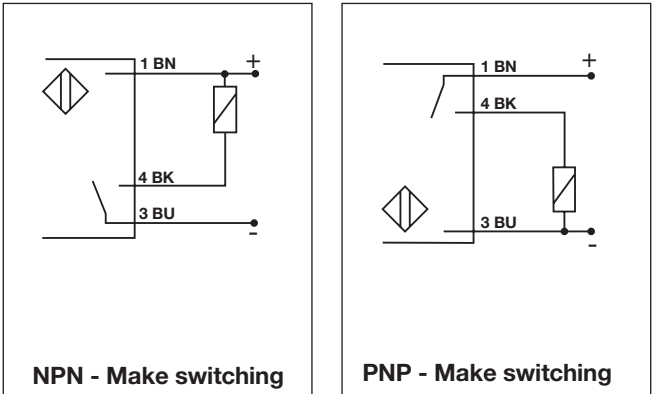
Rated operational volt. (U _B)	10 to 30 VDC (ripple included)	Ambient temperature	
Ripple	≤ 10%	Operating	-25 to +120°C (-13 to +248°F)
Rated operational current (I _e)		Storage	-30 to +125°C (-22 to +257°F)
Continuous	≤ 50 mA @ + 25°C (+75°F)	Degree of protection	IP 67 (Nema 1, 3, 4, 6, 13)
No-load supply current (I _o)	≤ 5 mA (ON)	Housing material	Stainless steel
Voltage drop (U _d)	< 3,0 V (@ I _{max})	CE-marking	Yes
Frequency of op. cycles (f)	Ø5: 3 kHz Ø8: 2 kHz	Connection	Cable, silicone, 2 m, AWG 26
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		



Dimensions



Wiring Diagrams



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 Incorrect Correct 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
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