

Proximity Sensors Inductive High Temperature, Nickel-plated Brass Housing Types IA, M18, M30

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- Nickel-plated brass housing
- Sensing distance: 5 to 15 mm
- Short body versions
- Power supply: 10 to 30 VDC
- Output: Transistor PNP, normally open
- High temperature range: -40° to +100°C
- Protection: Short-circuit
- LED-indication for output ON
- 2 m PUR cable or M12 plug

Product Description

Inductive proximity sensor in M18 and M30 nickel-plated brass housings for high temperature applications. Output configuration PNP, NO (make switching). Connection with 2 m PUR cable or M12 plug.

Ordering Key IA 18 ASF 05 PO M1 HT-K

Ind. prox. switch	IA
Housing style	18
Housing size	ASF
Housing material	05
Housing length	PO
Detection principle	M1
Sensing distance	HT
Output type	K
Output configuration	
Connection	
High temperature range	

Type Selection

Rated operating distance (S _n)	Connection type	Housing dimensions	Ordering no. Transistor PNP Normally open
5 mm ¹⁾	Cable	M18	IA 18 ASF 05 PO HT-K
5 mm ¹⁾	Plug M12	M18	IA 18 ASF 05 PO M1 HT-K
8 mm ²⁾	Cable	M18	IA 18 ASN 08 PO HT-K
8 mm ²⁾	Plug M12	M18	IA 18 ASN 08 PO M1 HT-K
10 mm ¹⁾	Cable	M30	IA 30 ASF 10 PO HT-K
10 mm ¹⁾	Plug M12	M30	IA 30 ASF 10 PO M1 HT-K
15 mm ²⁾	Cable	M30	IA 30 ASN 15 PO HT-K
15 mm ²⁾	Plug M12	M30	IA 30 ASN 15 PO M1 HT-K

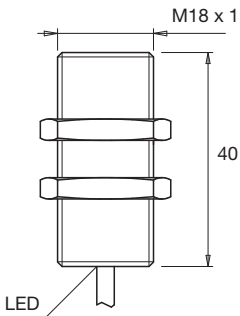
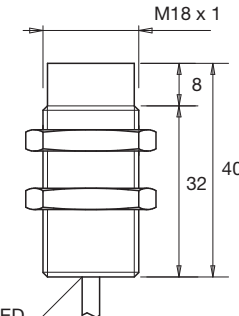
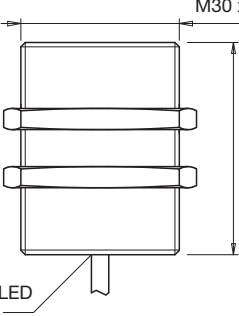
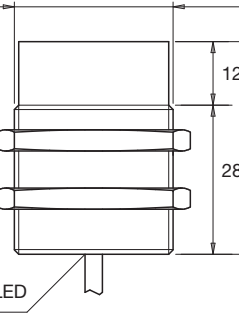
¹⁾ For flush mounting in metal

²⁾ For non-flush mounting in metal

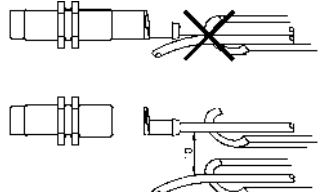
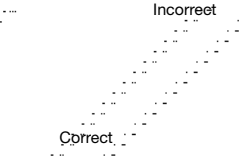
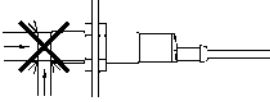
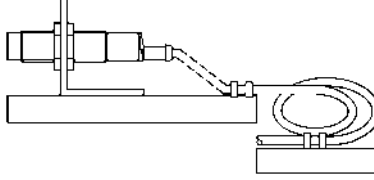
Specifications

Rated operational volt. (U _B)	10 to 30 VDC (ripple included)	Effective operating dist. (S _r)	0.9 x S _n ≤ S _r ≤ 1.1 x S _n
Ripple	≤ 10%	Usable operating dist. (S _u)	0.85 x S _r ≤ S _u ≤ 1.15 x S _r
Rated operational current (I _e) Continuous	≤ 200 mA @ + 25°C (+75°F)	Ambient temperature Operating	-40° to +100°C (-40° to +212°F)
No-load supply current (I _o)	≤ 25 mA (ON)	Storage	-45° to +105°C (-49° to +221°F)
Voltage drop (U _d)	< 2,4 V (@ I _{max})	Connection	Cable, 2 m, PUR, AWG 22 or Plug M12, CONH1A-xxx serie
Protection	Short circuit	Degree of protection	IP 67 (Nema 1, 3, 4, 6, 13)
Frequency of operating cycles (f)	IA18ASF 1 kHz IA18ASN 500 Hz IA30ASF 500 Hz IA30ASN 300 Hz	Housing material	Nickel-plated brass
Indication for output ON	LED, yellow	CE-marking	Yes

Dimensions

 <p>IA 18 ASF 05 ... -K</p> <p>Plug version: 60 mm axial length</p>	 <p>IA 18 ASN 08 ... -K</p> <p>Plug version: 60 mm axial length</p>	 <p>IA 30 ASF 10 ... -K</p> <p>Plug version: 60 mm axial length</p>	 <p>IA 30 ASN 15 ... -K</p> <p>Plug version: 60 mm axial length</p>
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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 Diagram

