

Proximity Sensors Inductive High Temperature, Nickel-plated Brass Housing Types IA, M18, 30

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- Nickel-plated brass housing
- Sensing distance: flush mounting: 5 or 10 mm
non-flush mounting: 8 or 15 mm
- Power supply: 10 to 30 VDC
- Output: Transistor PNP, make switching
- 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	_____
Housing style	_____
Housing size	_____
Housing material	_____
Housing length	_____
Detection principle	_____
Sensing distance	_____
Output type	_____
Output configuration	_____
Connection	_____
High temperature range	_____

Type Selection

Rated operating distance (S _n)	Connection type	Housing dimensions	Ordering no. Transistor PNP, Make switching
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	Cable	M18	IA 18 ASN 08 PO HT-K
8 mm	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	Cable	M30	IA 30 ASN 15 PO HT-K
15 mm	Plug M12	M30	IA 30 ASN 15 PO M1 HT-K

¹⁾ For flush mounting in metal

Specifications

Rated operational volt. (U _B)	10 to 30 VDC (ripple included)	Sensing distance	IA18ASF: 5 mm IA18ASN: 8 mm IA30ASF: 10 mm IA30ASN: 15 mm
Ripple	≤ 10%	Effective operating dist. (S _r)	0.9 x S _n ≤ S _r ≤ 1.1 x S _n
Rated operational current (I _B) Continuous	≤ 200 mA @ + 25°C (+75°F)	Usable operating dist. (S _u)	0.85 x S _r ≤ S _u ≤ 1.15 x S _r
No-load supply current (I _o)	≤ 25 mA (ON)	Ambient temperature	Operating: -40° to +100°C (-40° to +212°F) Storage: -45° to +105°C (-49° to +221°F)
Voltage drop (U _d)	< 2,4 V (@ I _{max})	Degree of protection	IP 67 (Nema 1, 3, 4, 6, 13)
Protection	Short circuit	Housing material	Nickel-plated brass
Frequency of operating cycles (f)	IA18ASF: 1 kHz IA18ASN: 500 Hz IA30ASF: 500 Hz IA30ASN: 300 Hz	CE-marking	Yes
Indication for output ON	LED, yellow	Connection	Cable, 2 m, PUR, AWG 22 or Plug M12, CONH1A-xxx serie



Dimensions

M18 x 1 40 LED IA 18 ASF 05 .. -K Plug version: 60 mm axial length	M18 x 1 8 32 40 LED IA 18 ASN 08 .. -K Plug version: 60 mm axial length	M30 x 1,5 40 LED IA 30 ASF 10 .. -K Plug version: 60 mm axial length	M30 x 1,5 12 28 40 LED IA 30 ASN 15 .. -K Plug version: 60 mm axial length
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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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Wiring Diagram

