

Proximity Sensors Inductive

High Temperature, Nickel-plated Brass Housing

Types IA, M18, M30



- 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

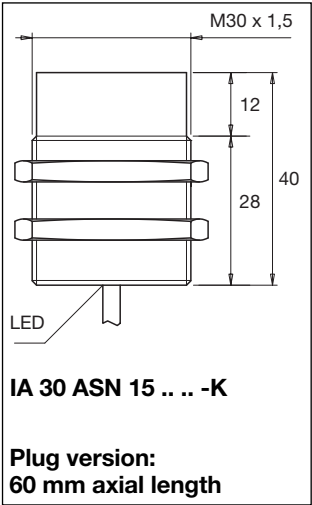
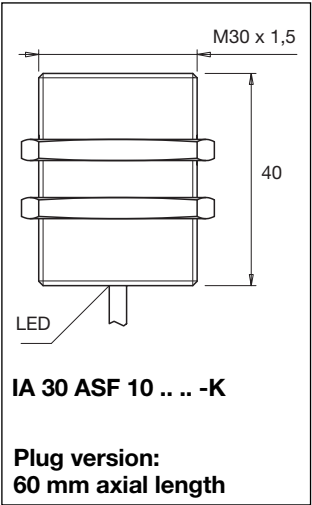
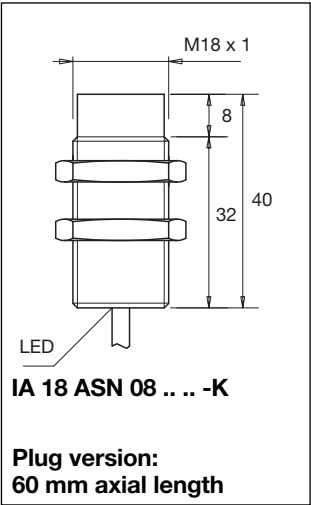
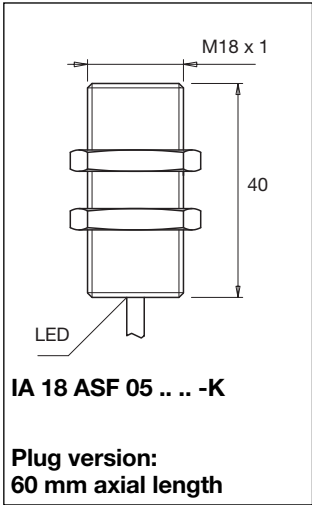
Rated operating distance (S _n)	Connection type	Housing dimensions	Ordering no. Transistor PNP Make switching
5 mm ¹⁾	Cable	M18	IA 18 ASF 05 PO HT-K
5 mm ¹⁾	Plug M12	M18	IA 18 ASF 05 PO M1 HT-K
8 mm	Cable	M18	IA 18 ASN 08 PO HT-K
8 mm	Plug M12	M18	IA 18 ASN 08 PO M1 HT-K
10 mm ¹⁾	Cable	M30	IA 30 ASF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

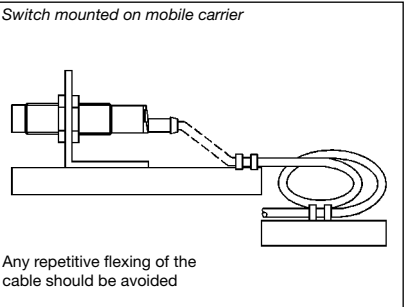
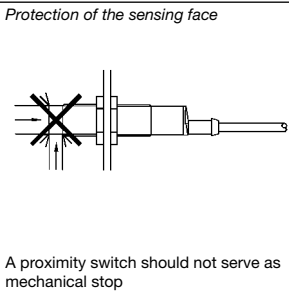
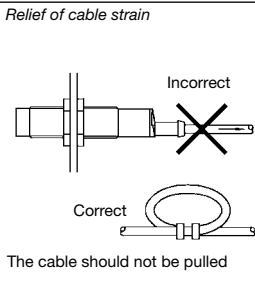
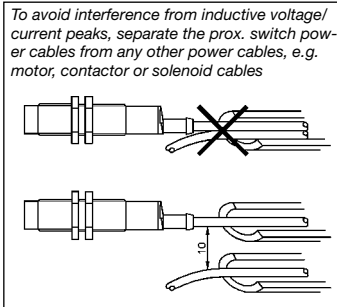
Specifications

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_e) 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 Storage	-40° to +100°C (-40° to +212°F) -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



Installation Hints



Wiring Diagram

