

Proximity Sensors Inductive High Temperature, Nickel-plated Brass Housing Types IA, M12

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- Nickel-plated brass housing
- Sensing distance:
Flush mounting: 2 mm or
Non-flush mounting: 4 mm
- Power supply: 10 to 30 VDC
- Output: Transistor PNP and NPN, 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 M12 nickel-plated brass housing for high temperature applications.

Output configuration PNP, and NPN NO (make switching). Connection with 2 m PUR cable or M12 plug.

Ordering Key IA 12 ASF 02 PO M1 HT-K

Type _____
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 | Ordering no. Transistor PNP, Normally open | Ordering no. Transistor NPN Normally open |
|--|-------------------|--|---|
| 2.0 mm ¹⁾ 2.0 mm ¹⁾ | Cable Plug M12 | IA 12 ASF 02 PO HT-K IA 12 ASF 02 PO M1 HT-K | |
| 4.0 mm 4.0 mm | Cable Plug M12 | IA 12 ASN 04 PO HT-K IA 12 ASN 04 PO M1 HT-K | IA 12 ASN 04 NO HT-K |

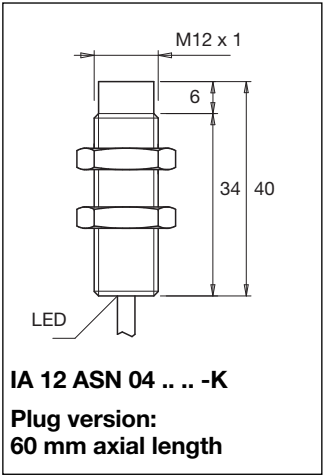
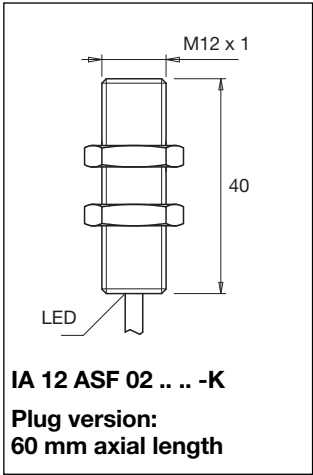
¹⁾ For flush mounting in metal

Specifications

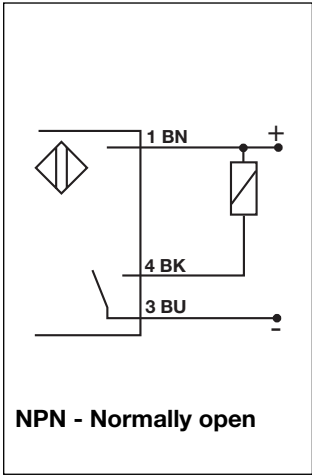
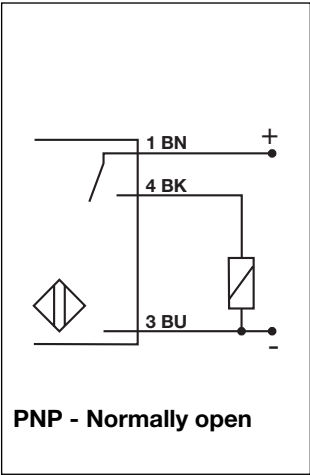
| | | | |
|---|----------------------------------|---|--|
| Rated operational volt. (U _B) | 10 to 30 VDC (ripple included) | Effective operating dist. (S _r) | 0.9 x S _n ≤ S _r ≤ 1.1 x S _n |
| Ripple | ≤ 10% | Usable operating dist. (S _u) | 0.85 x S _r ≤ S _u ≤ 1.15 x S _r |
| Rated operational current (I _a) Continuous | ≤ 200 mA @ + 25°C (+75°F) | Ambient temperature Operating | -40° to +100°C (-40° to +212°F) |
| No-load supply current (I _o) | ≤ 20 mA (ON) | 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) | IA12ASF: 2 kHz IA12ASN: 1 kHz | CE-marking | Yes |
| Indication for output ON | LED, yellow | Connection | Cable, 2 m, PUR, AWG 22 or Plug M12, CONH1A-xxx series |
| Sensing distance | IA12ASF: 2 mm IA12ASN: 4 mm | | |



Dimensions



Wiring Diagrams



Installation Hints

