

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



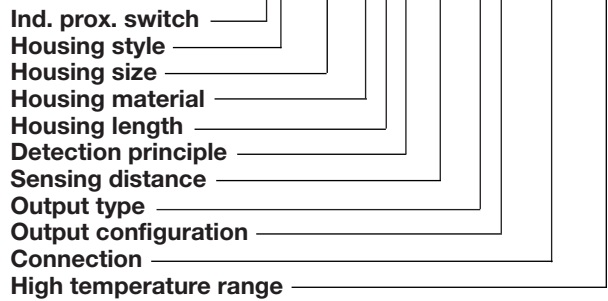
- Nickel-plated brass housing
- Sensing distance: flush mounting: 2 mm or non-flush mounting: 4 mm
- Power supply: 10 to 30 VDC
- Output: Transistor PNP, make switching
- High temperature range: -40° to +100°C
- Protection: Short-circuit
- LED-indication for output ON
- 2 m PUR cable or M12 plug

Product Description

Inductive proximity sensor in M12 nickel-plated brass housing for high temperature applications.

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

Ordering Key IA 12 ASF 02 PO M1 HT-K



Type Selection

| Rated operating distance (S _n) | Connection type | Ordering no. Transistor PNP, Make switching |
|--|-----------------|--|
| 2.0 mm ¹⁾ | Cable | IA 12 ASF 02 PO HT-K |
| 2.0 mm ¹⁾ | Plug M12 | IA 12 ASF 02 PO M1 HT-K |
| 4.0 mm | Cable | IA 12 ASN 04 PO HT-K |
| 4.0 mm | Plug M12 | IA 12 ASN 04 PO M1 HT-K |

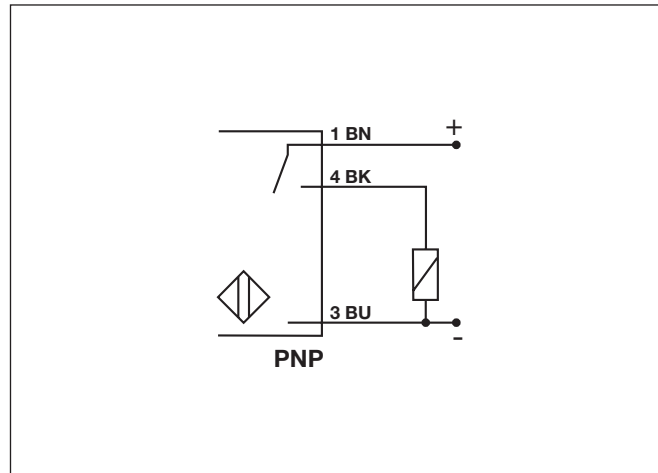
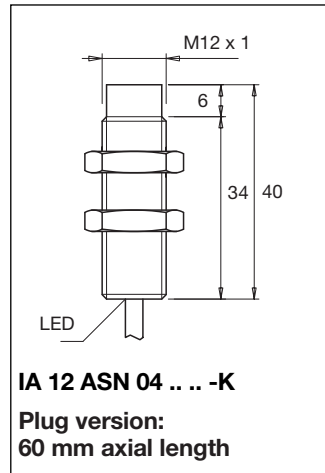
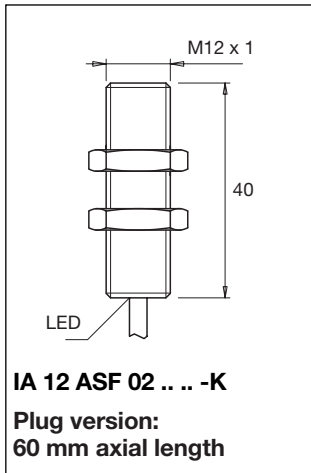
¹⁾ For flush mounting in metal

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 _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) | ≤ 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 serie |
| Sensing distance | IA12ASF: 2 mm IA12ASN: 4 mm | | |

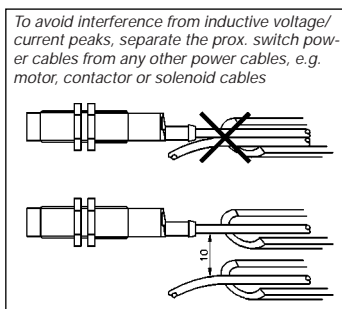
Dimensions

Wiring Diagram

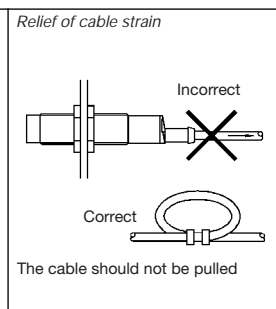


Installation Hints

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

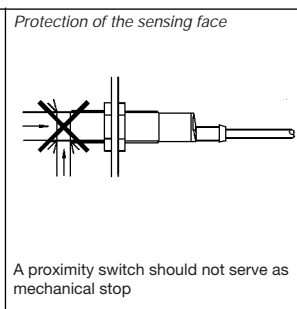


Incorrect

Correct

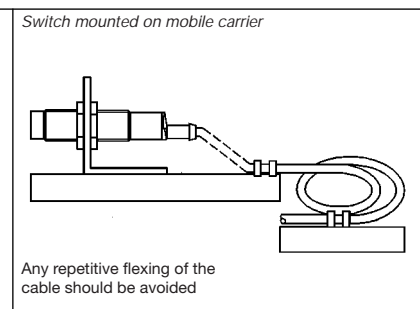
The cable should not be pulled

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