Proximity Sensors Inductive
High Temperature
Types IA, M12, NAMUR

CARLO GAVAZZI

- **Nickel-plated brass housing**
- **Sensing distance: 2 mm**
- **Power supply: 8 VDC**
- **Output: Namur**
- **For flush mounting**
- **2 m silicone cable**

Product Description

Inductive proximity sensor with NAMUR output in M12 housing for flush mounting. Connection with 2 m silicone cable.

Ordering Key

IA 12 ASF 02 UHT-K

- **Type: Ind. prox. switch**
- **Housing style**
- **Housing size**
- **Housing material**
- **Housing length**
- **Detection principle**
- **Sensing distance**
- **Output type**
- **High temperature**

Type Selection

Rated operating dist. (S_n)	Connection type	Housing dimensions	Ordering no. Namur output
2.0 mm	Cable, 2 m	M12	**IA 12 ASF 02 UHT-K**

For flush mounting in metal

Specifications

Rated operational volt. (U_B)	8 VDC
Ripple	≤ 10%
Rated operational current (I_e) Continuous	 Activated: < 1.1 mA Not activated: > 2.2 mA
Frequency of op. cycles (f)	2 kHz
Effective operating dist. (S_r)	0.9 x S_n ≤ S_r ≤ 1.1 x S_n
Usable operating dist. (S_u)	0.85 x S_r ≤ S_u ≤ 1.15 x S_r

Ambient temperature Operating Storage	 -25 to +120°C (-13 to +248°F) -30 to +125°C (-22 to +257°F)
Degree of protection	IP 67 (Nema 1, 3, 4, 6, 13)
Housing material	Nickel-plated brass
CE-marking	Yes
Connection	Cable, silicone, 2 m, AWG 26

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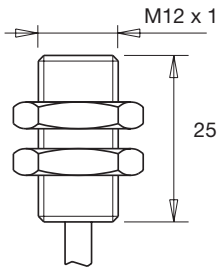
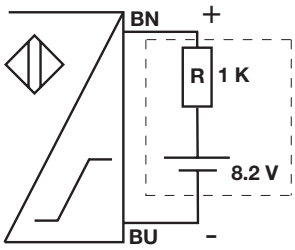
Dimensions

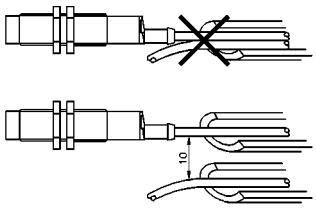


Wiring Diagram

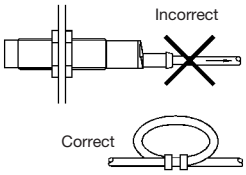


Installation Hints

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

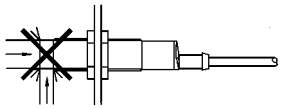


Relief of cable strain



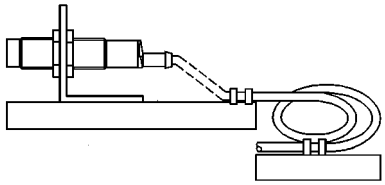
The cable should not be pulled

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