

Product characteristics

Inductive sensor

Metal thread M18 x 1

Cable

Sensing range 8 mm; [nf] non-flush mountable

Electrical data

Electrical design

Operating voltage [V]

AC/DC

20...250 AC/DC

Protection class

II

Reverse polarity protection

no

Outputs

Output function

normally open

Voltage drop [V]

< 6.5 AC / < 6 DC

Minimum load current [mA]

5

Leakage current [mA]

< 2.5 (250 V AC) / < 1.3 (110 V AC) / < 0.8 (24 V DC)

Current rating

- Current rating (continuous) [mA]

250 AC / 100 DC; 350 AC (...50 °C)

- Current rating (peak) [mA]

\hat{i} : 2.2 A (20 ms / 0.5 Hz)

Short-circuit proof

no

Overload protection

no

Switching frequency [Hz]

25 AC / 50 DC

Monitoring range

Sensing range [mm]

8

Real sensing range (Sr) [mm]

8 ± 10 %

Operating distance [mm]

0...6.5

Accuracy / deviations

Correction factors

mild steel = 1 / stainless steel approx. 0.7 / brass approx. 0.4 / aluminium approx. 0.3 / copper approx. 0.2

Hysteresis [% of Sr]

1...15

Switch-point drift [% of Sr]

-10...10

Environment

Ambient temperature [°C]

-25...80

Protection

IP 67

Tests / approvals

EMC

EN 60947-5-2

EN 55011: class B

MTTF [Years]

604

Mechanical data

Mounting

non-flush mountable

Housing materials

stainless steel 316Ti / 1.4571; PBT (Pocan) uncolored

Weight [kg]

0.152

Displays / operating elements

Output status indication LED

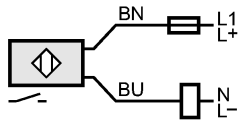
yellow

Electrical connection

IG0062 - Inductive sensor - eclass: 27270101 / 27-27-01-01

| | |
|------------|--|
| Connection | PVC cable / 2 m; 2 x 0.5 mm ² |
|------------|--|

Wiring



Note: miniature fuse to IEC60127-2 sheet 1, ≤ 2 A (fast acting)

Accessories

| | |
|------------------------|-------------|
| Accessories (included) | 2 lock nuts |
|------------------------|-------------|

Remarks

| | |
|---------|---|
| Remarks | Recommendation: check the unit for reliable function after a short circuit. |
|---------|---|

| | | |
|---------------|---------|---|
| Pack quantity | [piece] | 1 |
|---------------|---------|---|