

Product characteristics

Inductive sensor

Metal thread M18 x 1

Quick disconnect

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

Electrical data

Electrical design

Operating voltage [V]

Protection class

Reverse polarity protection

Outputs

Output function

Voltage drop [V]

Minimum load current [mA]

Leakage current [mA]

Current rating

- Current rating (continuous) [mA]

- Current rating (peak) [mA]

Short-circuit proof

Overload protection

Switching frequency [Hz]

Monitoring range

Sensing range [mm]

Real sensing range (Sr) [mm]

Operating distance [mm]

Accuracy / deviations

Correction factors

Hysteresis [% of Sr]

Switch-point drift [% of Sr]

Environment

Ambient temperature [°C]

Protection

Tests / approvals

EMC

MTTF [Years]

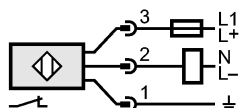
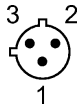
Mechanical data

| | AC/DC |
|------------------------------------|---|
| Operating voltage [V] | 20...250 AC/DC |
| Protection class | I |
| Reverse polarity protection | no |
| Output function | normally closed |
| 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 (continuous) [mA] | 250 AC / 100 DC; 350 AC (...50 °C) |
| - Current rating (peak) [mA] | î: 2.2 A (20 ms / 0.5 Hz) |
| Short-circuit proof | no |
| Overload protection | no |
| Switching frequency [Hz] | 25 AC / 100 DC |
| Sensing range [mm] | 8 |
| Real sensing range (Sr) [mm] | 8 ± 10 % |
| Operating distance [mm] | 0...6.5 |
| Correction factors | mild steel = 1 / stainless steel approx. 0.7 / brass approx. 0.5 / aluminium approx. 0.4 / copper approx. 0.3 |
| Hysteresis [% of Sr] | 3...15 |
| Switch-point drift [% of Sr] | -10...10 |
| Ambient temperature [°C] | -25...80 |
| Protection | IP 67 |
| EMC | EN 60947-5-2 EN 55011: class B |
| MTTF [Years] | 604 |

IG0351 - Inductive sensor - eclass: 27270101 / 27-27-01-01

| | |
|-------------------------------|---|
| Mounting | non-flush mountable |
| Housing materials | brass nickel-plated; PC (polycarbonate) |
| Weight [kg] | 0.061 |
| Displays / operating elements | |
| Output status indication LED | red |
| Electrical connection | |
| Connection | 1/2" connector |

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 |