

Product characteristics

Inductive sensor

Rectangular, plastics

Cable

Sensing range 50 mm; adjustable; [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

Mounting

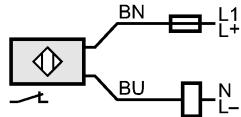
| | AC/DC |
|------------------------------------|---|
| Operating voltage [V] | 20...250 AC/DC |
| Protection class | II |
| Reverse polarity protection | no |
| Output function | normally closed |
| Voltage drop [V] | < 5.5 AC / < 5 DC |
| Minimum load current [mA] | 5 |
| Leakage current [mA] | < 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 / 35 DC |
| Sensing range [mm] | 50, adjustable |
| Real sensing range (Sr) [mm] | 50 ± 10 % |
| Operating distance [mm] | 0...40.5 |
| 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 |
| Ambient temperature [°C] | -25...80 |
| Protection | IP 65 |
| EMC | EN 60947-5-2 EN 55011: class B |
| MTTF [Years] | 512 |
| Mounting | non-flush mountable |

ID0015 - Inductive sensor - eclass: 27270101 / 27-27-01-01

| | |
|-------------------------------|--|
| Housing materials | modified PPE |
| Weight [kg] | 0.583 |
| Displays / operating elements | |
| Output status indication LED | yellow |
| Electrical connection | |
| Connection | PVC cable / 2 m; 2 x 0.5 mm ² |

Wiring

Core colors
 BN brown
 BU blue



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

| | |
|------------------------|---|
| Accessories | |
| Accessories (included) | screwdriver |
| Remarks | |
| Remarks | Recommendation: check the unit for reliable function after a short circuit. |
| Pack quantity [piece] | 1 |