

Product characteristics

Inductive sensor

Plastic housing Ø 20 mm

Cable

Sensing range 10 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]

î: 2.2 A (20 ms / 0.5 Hz)

Short-circuit proof

no

Overload protection

no

Switching frequency [Hz]

25 AC / 70 DC

Monitoring range

Sensing range [mm]

10

Real sensing range (Sr) [mm]

10 ± 10 %

Operating distance [mm]

0...8.1

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

MTTF [Years]

603

Mechanical data

Mounting

non-flush mountable

Housing materials

PBT

Weight [kg]

0.164

Displays / operating elements

Output status indication LED

red

Electrical connection

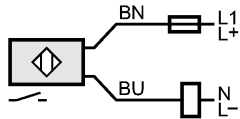
Connection

PVC cable / 2 m; 2 x 0.5 mm<sup>2</sup>

IA0066 - Inductive sensor - eclass: 27270101 / 27-27-01-01

Wiring

Core colors  
BN brown  
BU blue



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

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