

Product characteristics

Inductive sensor

Plastic housing Ø 34 mm

Cable

Sensing range 20 mm; [nf] non-flush mountable

Electrical data

Electrical design

Operating voltage [V]

AC/DC

20...250 AC/DC

Protection class

II

Reverse polarity protection

yes

Outputs

Output function

normally open

Voltage drop [V]

< 6.5

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]

20 AC / 70 DC

Range

Sensing range [mm]

20

Real sensing range (Sr) [mm]

20 ± 10 %

Operating distance [mm]

0...16.2

Accuracy / deviations

Correction factors

mild steel = 1 / stainless steel approx. 0.7 / brass approx. 0.5 / Al approx. 0.4 / Cu approx. 0.3

Hysteresis [% of Sr]

3...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]

606

Mechanical data

Mounting

non-flush mountable

Housing materials

housing: PBT; end cap: Brass nickel-plated; PG cable gland: Brass nickel-plated

Weight [kg]

0.509

Displays / operating elements

Output status indication LED

yellow

# IB0060 - Inductive sensor - eclass: 27270101 / 27-27-01-01

## Electrical connection

Connection

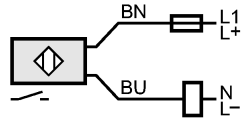
silicone cable / 6 m; 2 x 0.75 mm<sup>2</sup>

### Wiring

Core colours

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