

Product characteristics

Inductive sensor

Plastic housing Ø 34 mm

Cable

Sensing range 30 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]

100 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 / 30 DC

Range

Sensing range [mm]

30

Real sensing range (Sr) [mm]

30 ± 10 %

Operating distance [mm]

0...24.3

Accuracy / deviations

Correction factors

mild steel = 1 / stainless steel approx. 0.7 / brass approx. 0.4 / Al approx. 0.3 / Cu approx. 0.2

Hysteresis [% of Sr]

1...15

Switch-point drift [% of Sr]

-15...15

Environment

Ambient temperature [°C]

-25...100

Protection

IP 67

Tests / approvals

EMC

EN 61000-4-2 ESD: 4 kV CD / 8 kV AD

EN 61000-4-3 HF radiated: 3 V/m

EN 61000-4-4 Burst: 2 kV

EN 61000-4-6 HF conducted: 3 V

EN 55011 (Emission): class B

MTTF [Years]

609

Mechanical data

Mounting

non-flush mountable

Housing materials

housing: PBT

Weight [kg]

0.045

Displays / operating elements

# IB0117 - Inductive sensor - eclass: 27270101 / 27-27-01-01

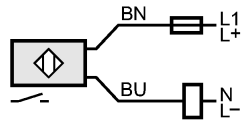
Output status indication	LED	yellow
Electrical connection		
Connection		silicone cable / 2 m

## Wiring

Core colours

BN brown

BU blue



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

Remarks	
Remarks	Recommendation: check the unit for reliable function after a short circuit.
Pack quantity	[piece] 1