

Product characteristics

Inductive sensor

Plastic housing Ø 34 mm

Cable

Sensing range 20 mm; [nrf] 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]

\hat{i} : 2.2 A (20 ms / 0.5 Hz)

Short-circuit proof

no

Overload protection

no

Switching frequency [Hz]

25 AC / 50 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. 0.4 / Al approx. 0.4 / Cu approx. 0.3

Hysteresis [% of Sr]

1...20

Switch-point drift [% of Sr]

-10...10

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]

611

Mechanical data

Mounting

non-flush mountable

Housing materials

housing: PBT; end cap: TPE

Weight [kg]

0.472

Displays / operating elements

IB0105 - Inductive sensor - eclass: 27270101 / 27-27-01-01

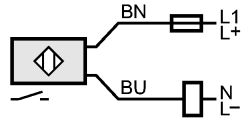
Output status indication	LED	yellow
Electrical connection		
Connection	silicone cable / 6 m; 2 x 0.75 mm ²	

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