

1: threaded insert M3, depth 5.8 mm, max. tightening torque 1.2 Nm (screw fixing class 8.8) when brass insert in contact with counterpart.



Product characteristics

Inductive sensor

Rectangular, plastics

Cable

Sensing range 2 mm; [f] flush mountable

Electrical data

Electrical design

AC/DC

Operating voltage [V]

20...250 AC/DC

Protection class

II

Reverse polarity protection

yes

Outputs

Output function

normally open

Voltage drop [V]

< 6.7 AC / < 6 DC

Minimum load current [mA]

5

Leakage current [mA]

< 2.0 (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 (50 ms / 1 Hz)

Short-circuit proof

no

Overload protection

no

Switching frequency [Hz]

25 AC / 50 DC

Monitoring range

Sensing range [mm]

2

Real sensing range (Sr) [mm]

2 ± 10 %

Operating distance [mm]

0...1.6

Accuracy / deviations

Correction factors

mild steel = 1 / stainless steel approx. 0.7 / brass approx. 0.25 / aluminium approx. 0.2 / copper approx. 0.05

Hysteresis [% of Sr]

1...20

Switch-point drift [% of Sr]

-10...10

Environment

Ambient temperature [°C]

-25...80

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

IN0097 - Inductive sensor - eclass: 27270101 / 27-27-01-01

Mechanical data

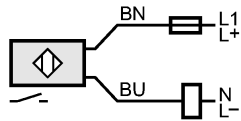
Mounting	flush mountable
Housing materials	PBT
Weight [kg]	0.122
Displays / operating elements	
Output status indication LED	yellow
Electrical connection	
Connection	PVC cable / 2 m; 2 x 0.5 mm ²

Wiring

Core colors

BN brown

BU blue



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

Remarks

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Recommendation: check the unit for reliable function after a short circuit.

Pack quantity

[piece]

1