

Product characteristics

Inductive sensor

Rectangular, plastics

Cable

Sensing range 2 mm; [f] flush mountable

Electrical data

Electrical design

DC PNP

Operating voltage [V]

10...30 DC; cULus - Class 2 source required

Current consumption [mA]

< 15

Protection class

III

Reverse polarity protection

yes

Outputs

Output function

normally open

Voltage drop [V]

< 2.5

Leakage current [mA]

< 0.5

**Current rating**

- Current rating (continuous) [mA]

200

- Current rating (peak) [mA]

200

Short-circuit protection

yes

Overload protection

yes

Switching frequency [Hz]

800

Monitoring range

Sensing range [mm]

2

Real sensing range (Sr) [mm]

2 ± 10 %

Operating distance [mm]

0...1.6

Safe switching off distance s(ar) [mm]

1.62

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 61000-4-2 ESD:

-- CD / 15 kV AD

EN 61000-4-3 HF radiated:

10 V/m

EN 61000-4-4 Burst:

2 kV

EN 61000-4-5 Surge:

0.5 kV

EN 61000-4-6 HF conducted:

10 V

**IS5001 - Inductive sensor - eclass: 27270101 / 27-27-01-01**

	EN 55011:	class B
Vibration resistance		EN 60947-5-2
Shock resistance		EN 60947-5-2
MTTF [Years]		3004
Mechanical data		
Mounting		flush mountable
Housing materials		housing: PBT
Tightening torque [Nm]	< 0.5 (with washer)	
Weight [kg]		0.043
Displays / operating elements		
Output status indication LED		yellow
Electrical connection		
Connection	PVC cable / 2 m; 3 x 0.14 mm <sup>2</sup> ; Ø 3.5 mm	

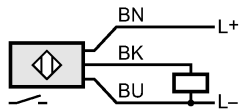
**Wiring**

Core colors

BN brown

BU blue

BK black



Remarks

Pack quantity	[piece]	1
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