

Product characteristics

Inductive sensor

Rectangular, plastics

Cable

Sensing range 3 mm; [nfl] non-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] 100

Monitoring range

Sensing range [mm] 3

Real sensing range (Sr) [mm] 3 ± 10 %

Operating distance [mm] 0...2.4

Safe switching off distance s(ar) [mm] 2.43

Accuracy / deviations

Correction factors mild steel = 1 / stainless steel approx. 0.7 / brass approx. 0.4 / copper approx. 0.2 / aluminium approx. 0.3

Hysteresis [% of Sr] 1...15

Switch-point drift [% of Sr] -10...20

Environment

Ambient temperature [°C] 0...50

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

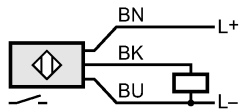
IS5031 - Inductive sensor - eclass: 27270101 / 27-27-01-01

	EN 55011:	class B
Vibration resistance		EN 60947-5-2
Shock resistance		EN 60947-5-2
MTTF [Years]		3004
Mechanical data		
Mounting		non-flush mountable
Housing materials		cover: PBT; housing: PBT
Tightening torque [Nm]	< 0.5 (with washer)	
Weight [kg]		0.044
Displays / operating elements		
Output status indication LED		yellow
Electrical connection		
Connection		PVC cable / 2 m; 3 x 0.14 mm ² ; Ø 3.5 mm

Wiring

Core colors

BK black
 BN brown
 BU blue



Remarks

Pack quantity	[piece]	1
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