

Product characteristics

Inductive sensor

Rectangular, plastics

Cable with connector

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

Reaction times

Power-on delay time [ms]

0.1

Environment

Ambient temperature [°C]

-25...80

Protection

IP 67

Tests / approvals

EMC

EN 61000-4-2

-- CD / 15 kV AD

EN 61000-4-3

10 V/m

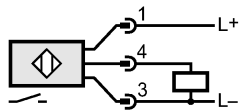
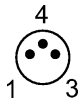
EN 61000-4-4

2 kV CD / 15 kV AD

IS5068 - Inductive sensor - eclass: 27270101 / 27-27-01-01

	EN 61000-4-5 EN 61000-4-6 EN 55011:	0.5 kV / 15 kV AD 10 V / 15 kV AD class B / 15 kV AD
Vibration resistance		EN 60947-5-2
Shock resistance		EN 60947-5-2
MTTF [Years]		3004
Mechanical data		
Mounting		flush mountable
Housing materials		housing: PBT; cover: PBT
Tightening torque [Nm]		≤ 0.5 (with washer)
Weight [kg]		0.019
Displays / operating elements		
Output status indication LED		yellow
Electrical connection		
Connection		PUR cable / 0.3 m; 3 x 0.14 mm ² ; Ø 3.5 mm; with M8 connector

Wiring



Remarks

Pack quantity [piece]

1