

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

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]

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

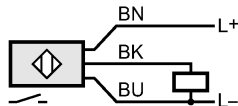
IS5005 - Inductive sensor - eclass: 27270101 / 27-27-01-01

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|-------------------------------|----------------------------|--|
| | EN 61000-4-5 Surge: | 0.5 kV |
| | EN 61000-4-6 HF conducted: | 10 V |
| | 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; cover: PBT |
| Tightening torque [Nm] | < 0.5 (with washer) | |
| Weight [kg] | | 0.128 |
| Displays / operating elements | | |
| Output status indication LED | | yellow |
| Electrical connection | | |
| Connection | | PVC cable / 6 m; 3 x 0.14 mm ² ; Ø 3.5 mm |

Wiring

Core colors

BN brown
 BU blue
 BK black



Remarks

| | |
|-----------------------|---|
| Pack quantity [piece] | 1 |
|-----------------------|---|