

1: sensing face



Product characteristics

Inductive sensor

Rectangular Metal

Cable

Sensing range 2 mm; [f] flush mountable

Electrical data

Electrical design

DC PNP

Operating voltage [V]

10...36 DC

Current consumption [mA]

15 (24 V)

Protection class

III

Reverse polarity protection

yes

Outputs

Output function

normally open

Voltage drop [V]

< 2.5

Current rating [mA]

250

Short-circuit protection

yes (non-latching)

Overload protection

yes

Switching frequency [Hz]

2000

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. 0.4 / 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...70

Protection

IP 65

Tests / approvals

EMC

EN 60947-5-2

EN 55011:

class B

MTTF [Years]

3449

Mechanical data

Mounting

flush mountable

Housing materials

brass white bronze coated; active face: LCP

Tightening torque [Nm]

1 (For an insertion depth of at least 5 mm)

Weight [kg]

0.045

IL5003 - Inductive sensor - eclass: 27270101 / 27-27-01-01

Displays / operating elements

Output status indication LED | red

Electrical connection

Connection | PUR / PVC cable / 2 m; 3 x 0.14 mm²

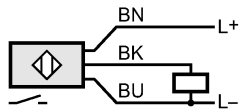
Wiring

Core colors

BN brown

BU blue

BK black



Remarks

Pack quantity [piece] | 1