

Product characteristics
Inductive sensor

Metal housing Ø 3 mm

Cable

Sensing range 1 mm; [nf] non-flush mountable

Electrical data

Electrical design

DC PNP

Operating voltage [V]

10...30 DC

Current consumption [mA]

12 (24 V)

Reverse polarity protection

yes

Outputs

Output function

normally open

Voltage drop [V]

< 1.5

Current rating [mA]

100

Short-circuit protection

yes (non-latching)

Overload protection

no

Switching frequency [Hz]

5000

Monitoring range

Sensing range [mm]

1

Real sensing range (Sr) [mm]

1 ± 10 %

Operating distance [mm]

0...0.8

Accuracy / deviations

Correction factors

mild steel = 1 / stainless steel approx. 0.7 / brass approx. 0.5 / aluminium approx. 0.4 / copper approx. 0.3

Hysteresis [% of Sr]

< 15

Switch-point drift [% of Sr]

-10...10

Environment

Ambient temperature [°C]

0...70

Protection

IP 67

Tests / approvals

EMC

EN 60947-5-2

EN 55011:

class B

MTTF [Years]

735

Mechanical data

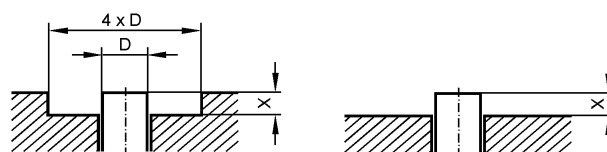
Mounting

non-flush mountable

Housing materials

housing: stainless steel; active face: POM (polyoxymethylene)

Installation



If Sr varies by < 10 % the following free space must be maintained:
X > 1.5 mm for ferromagnetic materials
X > 3.0 mm for other metals

Weight [kg]

0.048

IZ5048 - Inductive sensor - eclass: 27270101 / 27-27-01-01

Displays / operating elements

Output status indication LED | red

Electrical connection

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

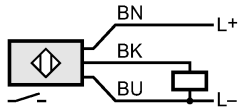
Wiring

Core colors

BK black

BN brown

BU blue



Accessories

Accessories (included) | Mounting clamp; E20107

Remarks

Pack quantity [piece] | 1