

Product characteristics

Inductive sensor

Metal thread M5 x 0.5

Cable

Sensing range 0.8 mm; [f] flush mountable

Electrical data

Electrical design

DC PNP

Operating voltage [V]

10...36 DC; cULus - Class 2 source required

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]

100

Short-circuit protection

yes (non-latching)

Overload protection

yes

Switching frequency [Hz]

2000

Monitoring range

Sensing range [mm]

0.8

Real sensing range (Sr) [mm]

0.8 ± 10 %

Operating distance [mm]

0...0.65

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]

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]

953

Mechanical data

Mounting

flush mountable

Housing materials

stainless steel (303S22); POM (polyoxymethylene)

Weight [kg]

0.042

Displays / operating elements

Output status indication LED

red

Electrical connection

Connection

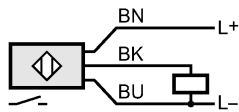
PVC cable / 2 m; 3 x 0.14 mm²

Wiring

IY5046 - Inductive sensor - eclass: 27270101 / 27-27-01-01

Core colors

BK black
BN brown
BU blue



Accessories

Accessories (included)

2 lock nuts

Remarks

Pack quantity

[piece]

1