

Product characteristics

Inductive sensor

Metal housing Ø 6.5 mm

Quick disconnect

Sensing range 4 mm; [nf] non-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

Current rating [mA]

100

Short-circuit protection

yes (non-latching)

Overload protection

yes

Switching frequency [Hz]

700

Monitoring range

Sensing range [mm]

4

Real sensing range (Sr) [mm]

4 ± 10 %

Operating distance [mm]

0...3.25

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]

-20...70

Protection

IP 67; if screwed on

Tests / approvals

EMC

EN 60947-5-2

MTTF [Years]

3262

Mechanical data

Mounting

non-flush mountable

Housing materials

housing: high-grade stainless steel; active face: LCP

Weight [kg]

0.015

Displays / operating elements

Output status indication LED

yellow (4 x 90°)

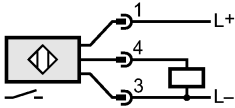
Electrical connection

Connection

M8 connector

Wiring

IT5041 - Inductive sensor - eclass: 27270101 / 27-27-01-01



| | |
|------------------------|----------------|
| Accessories | |
| Accessories (included) | Mounting clamp |
| Remarks | |
| Pack quantity [piece] | 1 |