

Product characteristics

Inductive sensor

Metal housing \varnothing 11 mm

Quick disconnect

Sensing range 4 mm; [nf] non-flush mountable

Electrical data

Electrical design

DC PNP

Operating voltage [V]

10...36 DC

Current consumption [mA]

15 (24 V)

Protection class

II

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]

1400

Monitoring range

Sensing range [mm]

4

Real sensing range (Sr) [mm]

$4 \pm 10\%$

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]

3...15

Switch-point drift [% of Sr]

-10...10

Environment

Ambient temperature [°C]

-25...80

Protection

IP 67

Tests / approvals

EMC

EN 60947-5-2

EN 55011:

class B

MTTF [Years]

1965

Mechanical data

Mounting

non-flush mountable

Housing materials

stainless steel 316Ti / 1.4571; PC (polycarbonate)

Weight [kg]

0.016

Displays / operating elements

Output status indication LED

yellow (4 x 90°)

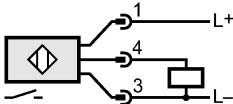
Electrical connection

Connection

M12 connector; gold-plated contacts

Wiring

IF5807 - Inductive sensor - eclass: 27270101 / 27-27-01-01



Remarks

Pack quantity [piece] 1