

Product characteristics

Inductive sensor

Metal thread M12 x 1

Quick disconnect

Sensing range 2 mm; [f] flush mountable

Electrical data

Electrical design

DC NPN

Operating voltage [V]

18...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]

120; 150 (...50 °C)

Short-circuit protection

yes (non-latching)

Overload protection

yes

Switching frequency [Hz]

800

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...80

Protection

IP 65

Tests / approvals

EMC

EN 60947-5-2

EN 55011:

class B

MTTF [Years]

2606

Mechanical data

Mounting

flush mountable

Housing materials

brass nickel-plated; PC (polycarbonate)

Weight [kg]

0.025

Displays / operating elements

Output status indication LED

red

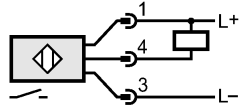
Electrical connection

Connection

M12 connector

Wiring

IF5781 - Inductive sensor - eclass: 27270101 / 27-27-01-01



Accessories

Accessories (included)

2 lock nuts

Remarks

Pack quantity

[piece]

1