

Product characteristics

Inductive sensor

Metal thread M12 x 1

Quick disconnect

Increased sensing range

gold-plated contacts

Sensing range 7 mm; [nf] non-flush mountable

Electrical data

Electrical design

DC PNP

Operating voltage [V]

10...36 DC

Current consumption [mA]

10 (24 V)

Protection class

II

Reverse polarity protection

yes

Outputs

Output function

normally closed

Voltage drop [V]

< 2.5

Current rating [mA]

100

Short-circuit protection

yes (non-latching)

Overload protection

yes

Switching frequency [Hz]

800

Monitoring range

Sensing range [mm]

7

Real sensing range (Sr) [mm]

7 ± 10 %

Operating distance [mm]

0...5.7

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...20

Switch-point drift [% of Sr]

-10...10

Environment

Ambient temperature [°C]

0...100

Protection

IP 68 / IP 69K; "COP"

Tests / approvals

EMC

EN 61000-4-2 ESD: 4 kV CD / 8 kV AD

EN 61000-4-3 HF radiated: 10 V/m

EN 61000-4-4 Burst: 2 kV

EN 61000-4-6 HF conducted: 10 V

EN 55011: class B

MTTF [Years]

2006

Mechanical data

Mounting

non-flush mountable

Housing materials

stainless steel (316L); active face: PEEK (polyether ether ketone)

Weight [kg]

0.025

Displays / operating elements

Output status indication LED

yellow (4 x 90°)

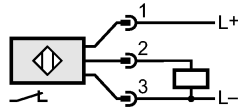
IFT201 - Inductive sensor - eclass: 27270101 / 27-27-01-01

Electrical connection

Connection

M12 connector; gold-plated contacts

Wiring



Accessories

Accessories (included)

2 lock nuts

Remarks

Pack quantity

[piece]

1