

Product characteristics

Inductive sensor

Metal housing Ø 12 mm

Connector

Full metal housing

Increased sensing range

Gold-plated contacts

Sensing range 3 mm; [f] flush mountable

Electrical data

Electrical design

DC PNP

Operating voltage [V]

10...36 DC

Current consumption [mA]

< 20

Protection class

III

Reverse polarity protection

yes

Outputs

Output function

normally open

Voltage drop [V]

< 2.5

Current rating [mA]

100

Short-circuit protection

pulsed

Overload protection

yes

Switching frequency [Hz]

100

Range

Sensing range [mm]

3

Operating distance [mm]

0...2.4

Accuracy / deviations

Correction factors

mild steel = 1 / stainless steel approx. 0.7 / brass approx. 0.4 / Al approx. 0.3 / Cu approx. 0.1

Hysteresis [% of Sr]

1...20

Environment

Pressure rating [bar]

50; sensing face

Ambient temperature [°C]

0...100

Protection

IP 68 / IP 69K

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 (Emission): class B

Impact resistance

DIN EN 60068-2-75 Ehc: 1 J

MTTF [Years]

1633

Mechanical data

Mounting

flush mountable

Housing materials

housing: stainless steel 316L / 1.4404; active face: stainless steel 316L / 1.4404; lock nuts: stainless steel 316L / 1.4404; connector housing: PEI

Weight [kg]

0.023

# IFT243 - Inductive sensor - eclass: 27270101 / 27-27-01-01

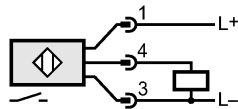
Displays / operating elements

Output status indication LED | yellow (4 x 90°)

Electrical connection

Connection | M12 connector; Gold-plated contacts

## Wiring



Remarks

Pack quantity [piece] | 1

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