

Product characteristics

Inductive sensor

Plastic housing Ø 20 mm

Quick disconnect

Sensing range 10 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

Overload protection

yes

Switching frequency [Hz]

300

Monitoring range

Sensing range [mm]

10

Real sensing range (Sr) [mm]

10 ± 10 %

Operating distance [mm]

0...8.1

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 67

Tests / approvals

EMC

EN 61000-4-2 ESD: 8 kV AD
 EN 61000-4-3 HF radiated: 3 V/m
 EN 61000-4-4 Burst: 2 kV
 EN 61000-4-5 Surge: 0.5 kV (line to line, Ri: 20hm)
 EN 61000-4-6 HF conducted: 3 V

MTTF [Years]

1801

Mechanical data

Mounting

non-flush mountable

Housing materials

PBT

Weight [kg]

0.076

Displays / operating elements

Output status indication LED

yellow (4 x 90°)

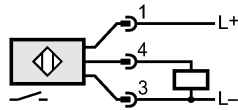
IA5127 - Inductive sensor - eclass: 27270101 / 27-27-01-01

Electrical connection

Connection

M12 connector

Wiring



Accessories

Accessories (included)

Mounting clamp; E10016

Remarks

Pack quantity

[piece]

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