



Product characteristics

Inductive sensor

Plastic housing \varnothing 20 mm

Cable

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 (non-latching)

Overload protection

yes

Switching frequency [Hz]

300

Monitoring range

Sensing range [mm]

10

Real sensing range (Sr) [mm]

10 \pm 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 60947-5-2

MTTF [Years]

1853

Mechanical data

Mounting

non-flush mountable

Housing materials

PBT

Weight [kg]

0.35

Displays / operating elements

Output status indication LED

yellow

Electrical connection

Connection

PVC cable / 6 m; 3 x 0.5 mm²

Wiring

IA5083 - Inductive sensor - eclass: 27270101 / 27-27-01-01

Core colors

BN brown

BU blue

BK black



Accessories

Accessories (included)

Mounting clamp

Remarks

Pack quantity

[piece]

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