



Product characteristics

Inductive sensor

Metal thread M30 x 1.5

Cable

Sensing range 10 mm; [f] flush mountable

Electrical data

Electrical design

DC PNP

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]

125; 150 (...50 °C)

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 ± 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]

2279

Mechanical data

Mounting

flush mountable

Housing materials

brass nickel-plated; active face: PBT

Weight [kg]

0.218

Displays / operating elements

Output status indication

LED

yellow

Electrical connection

Connection

PVC cable / 2 m; 3 x 0.5 mm<sup>2</sup>

**Wiring**

# II5166 - Inductive sensor - eclass: 27270101 / 27-27-01-01

## Core colors

BN brown

BU blue

BK black



## Accessories

Accessories (included)

2 lock nuts

## Remarks

Pack quantity

[piece]

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