

Product characteristics

Inductive sensor

Metal thread M12 x 1

Cable

Sensing range 3 mm; [f] flush mountable

Electrical data

Electrical design

DC PNP

Operating voltage [V]

10...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]

250

Short-circuit protection

yes (non-latching)

Overload protection

yes

Switching frequency [Hz]

400

Monitoring range

Sensing range [mm]

3

Real sensing range (Sr) [mm]

3 ± 10 %

Operating distance [mm]

0...2.4

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]

3...15

Switch-point drift [% of Sr]

-10...10

Environment

Ambient temperature [°C]

-25...80

Protection

IP 67

Tests / approvals

EMC

EN 60947-5-2

EN 55011:

class B

MTTF [Years]

1874

Mechanical data

Mounting

flush mountable

Housing materials

stainless steel 316Ti / 1.4571; PBT (Pocan)

Weight [kg]

0.257

# IF5878 - Inductive sensor - eclass: 27270101 / 27-27-01-01

Displays / operating elements

Output status indication LED | yellow

Electrical connection

Connection | PVC cable / 6 m; 3 x 0.34 mm<sup>2</sup>

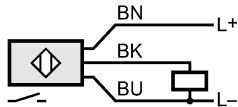
## Wiring

Core colors

BK black

BN brown

BU blue



Accessories

Accessories (included) | 2 lock nuts

Remarks

Pack quantity [piece] | 1