

Product characteristics

Inductive sensor

Metal thread M12 x 1

Cable

Sensing range 4 mm; [nf] non-flush mountable

Electrical data

Electrical design

DC PNP

Operating voltage [V]

15...30 DC

Current consumption [mA]

< 15

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]

800

Range

Sensing range [mm]

4

Real sensing range (Sr) [mm]

4 ± 10 %

Operating distance [mm]

0...3.25

Accuracy / deviations

Correction factors

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

Hysteresis [% of Sr]

1...20

Switch-point drift [% of Sr]

-10...10

Environment

Ambient temperature [°C]

-25...70

Protection

IP 67

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: 3 V

EN 55011: class B

MTTF [Years]

1121

Mechanical data

Mounting

non-flush mountable

Housing materials

housing: Brass nickel-plated; active face: PBT; lock nuts: Brass

Weight [kg]

0.095

Displays / operating elements

Output status indication LED

yellow

Electrical connection

Connection

PVC cable / 2 m; 3 x 0.34 mm<sup>2</sup>; Ø 4.9 mm

# IF7105 - Inductive sensor - eclass: 27270101 / 27-27-01-01

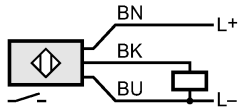
## Wiring

Core colours

BK black

BN brown

BU blue



Accessories

Accessories (included)

2 lock nuts

Remarks

Pack quantity

[piece]

1

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