

Product characteristics

Inductive sensor

Metal thread M12 x 1

Cable

Sensing range 2 mm; [f] flush mountable

Electrical data

Electrical design

DC PNP

Operating voltage [V]

10...36 DC

Current consumption [mA]

< 15

Protection class

II

Reverse polarity protection

yes

Outputs

Output function

normally open

Voltage drop [V]

< 2.5

Current rating [mA]

150

Short-circuit protection

pulsed

Overload protection

yes

Switching frequency [Hz]

1500

Range

Sensing range [mm]

2

Real sensing range (Sr) [mm]

2 ± 10 %

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...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: 4 kV CD / 8 kV AD
EN 61000-4-3 HF radiated: 10 V/m
EN 61000-4-4 Burst: 2 kV
EN 61000-4-5 Surge: 0.5 kV (line to line, Ri: 20Ω)
EN 61000-4-6 HF conducted: 10 V
EN 55011 (Emission): class B

MTTF [Years]

2531

Mechanical data

Mounting

flush mountable

Housing materials

Brass white bronze coated; active face: PC (polycarbonate)

Weight [kg]

0.032

Displays / operating elements

Output status indication LED

yellow

Electrical connection

Connection

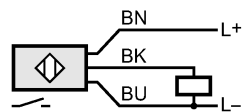
PUR cable / 0.8 m; 3 x 0.34 mm²; Ø 4.9 mm; 6ZPC5W

Wiring

IF6041 - Inductive sensor - eclass: 27270101 / 27-27-01-01

Core colours

- BN brown
- BU blue
- BK black



Remarks

Pack quantity [piece] 1