

Product characteristics

Inductive sensor

Metal thread M30 x 1.5

Cable

Increased sensing range

Sensing range 14 mm; [f] flush mountable

Electrical data

Electrical design

DC PNP

Operating voltage [V]

10...36 DC

Current consumption [mA]

10 (24 V)

Protection class

II

Reverse polarity protection

yes

Outputs

Output function

normally open

Voltage drop [V]

< 2.5

Current rating [mA]

100

Short-circuit protection

yes (non-latching)

Overload protection

yes

Switching frequency [Hz]

100

Monitoring range

Sensing range [mm]

14

Real sensing range (Sr) [mm]

14 ± 10 %

Operating distance [mm]

0...11.34

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]

0...100

Protection

IP 68 / IP 69K

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: 10 V
EN 55011: class B

MTTF [Years]

1590

Mechanical data

Mounting

flush mountable

Housing materials

stainless steel (316L); active face: PEEK (polyether ether ketone)

Weight [kg]

0.323

Displays / operating elements

IIT209 - Inductive sensor - eclass: 27270101 / 27-27-01-01

Output status indication LED | yellow (4 x 90°)

Electrical connection

Connection | PVC cable / 6 m; 3 x 0.34 mm²

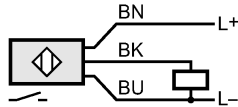
Wiring

Core colors

BK black

BN brown

BU blue



Accessories

Accessories (included) | 2 lock nuts

Remarks

Pack quantity [piece] | 1