

Product characteristics

Inductive sensor

Metal thread M12 x 1

Quick disconnect

gold-plated contacts

Sensing range 2 mm; [f] flush mountable

Electrical data

Electrical design

DC NPN

Operating voltage [V]

10...30 DC

Current consumption [mA]

< 10

Protection class

III

Reverse polarity protection

no

Outputs

Output function

normally open

Voltage drop [V]

< 1

Current rating [mA]

200

Short-circuit protection

yes

Overload protection

yes

Switching frequency [Hz]

700

Monitoring range

Sensing range [mm]

2

Real sensing range (Sr) [mm]

2 ± 10 %

Operating distance [mm]

0...1.62

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]

1646

Mechanical data

Mounting

flush mountable

Housing materials

brass white bronze coated; active face: PBT orange; lock nuts: brass white bronze coated

Weight [kg]

0.03

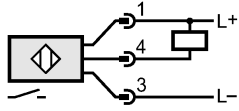
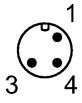
Electrical connection

Connection

M12 connector; gold-plated contacts

**Wiring**

**IF5505 - Inductive sensor - eclass: 27270101 / 27-27-01-01**



Accessories

Accessories (included)

2 lock nuts

Remarks

Pack quantity

[piece]

1