

Product characteristics

Inductive sensor

Metal thread M12 x 1

Connector

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

Electrical data

Electrical design

AC

Operating voltage [V]

20...250 AC (47...63 Hz)

Protection class

I

Reverse polarity protection

no

Outputs

Output function

normally open

Voltage drop [V]

< 8.5

Minimum load current [mA]

8

Leakage current [mA]

< 2

**Current rating**

- Current rating (continuous) [mA]

200; 250 (...50 °C)

- Current rating (peak) [mA]

î: 0.9 A (20 ms / 0.5 Hz)

Short-circuit proof

no

Overload protection

no

Switching frequency [Hz]

25

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. 0.3 / Cu approx. 0.2

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 60947-5-2

EN 55011: class B

MTTF [Years]

932

Mechanical data

Mounting

non-flush mountable

Housing materials

Brass nickel-plated; PC (polycarbonate)

Weight [kg]

0.04

Displays / operating elements

Output status indication LED

Red

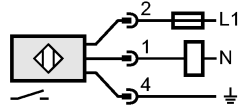
Electrical connection

Connection

M12 connector

# IF0300 - Inductive sensor - eclass: 27270101 / 27-27-01-01

## Wiring



Note: miniature fuse to IEC60127-2 sheet 1,  
 $\leq 2$  A (fast acting)

Accessories	
Accessories (included)	2 lock nuts
Remarks	
Remarks	Recommendation: check the unit for reliable function after a short circuit.
Pack quantity [piece]	1