

Product characteristics

Inductive sensor

Metal thread M30 x 1.5

Quick disconnect

gold-plated contacts

Sensing range 22 mm; [nf] non-flush mountable

Electrical data

Electrical design

Operating voltage [V]

Protection class

Reverse polarity protection

Outputs

Output function

Voltage drop [V]

Minimum load current [mA]

Leakage current [mA]

Current rating

- Current rating (continuous) [mA]

- Current rating (peak) [mA]

Short-circuit protection

Overload protection

Switching frequency [Hz]

Monitoring range

Sensing range [mm]

Real sensing range (Sr) [mm]

Operating distance [mm]

Accuracy / deviations

Correction factors

Hysteresis [% of Sr]

Switch-point drift [% of Sr]

Reaction times

Power-on delay time [s]

Environment

Ambient temperature [°C]

Protection

Tests / approvals

EMC

AC/DC

20...140 AC/DC

II

yes

normally open

< 5.5

5

< 1

80; 200 (...80 °C)

î: 1.2 A (20ms / 0.5Hz) / 80 mA (> 80°C)

yes (non-latching)

yes

25 AC / 100 DC

22

22 ± 10 %

0...17.82

mild steel = 1 / stainless steel approx. 0.7 / brass approx. 0.5 / aluminium approx. 0.4 / copper approx. 0.3

3...15

-10...10

1

0...100

IP 68 / IP 69K; "COP"

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

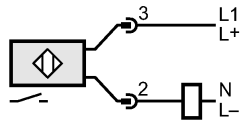
EN 61000-4-6 HF conducted: 10 V

EN 55011: class B

IIT002 - Inductive sensor - eclass: 27270101 / 27-27-01-01

MTTF	[Years]	378
Mechanical data		
Mounting		non-flush mountable
Housing materials		stainless steel (316L); PEEK (polyether ether ketone)
Weight	[kg]	0.141
Displays / operating elements		
Output status indication	LED	yellow (4 x 90°)
Electrical connection		
Connection		1/2" UNF-Connector; gold-plated contacts

Wiring



Accessories		
Accessories (included)		2 lock nuts
Remarks		
Pack quantity	[piece]	1