

Product characteristics

Inductive sensor

Rectangular, plastics

Quick disconnect

Sensing range 20 mm; [nf] non-flush mountable

Electrical data

Electrical design

AC/DC

Operating voltage [V]

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

Protection class

II

Reverse polarity protection

no

Outputs

Output function

normally open / closed programmable

Voltage drop [V]

< 6.5 AC / < 6 DC

Minimum load current [mA]

5

Leakage current [mA]

< 2.5 (250 V AC) / < 1.3 (110 V AC) / < 0.8 (24 V DC)

Current rating

- Current rating (continuous) [mA]

250 AC / 100 DC; 350 AC (...50 °C)

- Current rating (peak) [mA]

\hat{i} : 2.2 A (20 ms / 0.5 Hz)

Short-circuit protection

no

Overload protection

no

Switching frequency [Hz]

20 AC / 55 DC

Monitoring range

Sensing range [mm]

20

Real sensing range (Sr) [mm]

20 ± 10 %

Operating distance [mm]

0...16.2

Accuracy / deviations

Correction factors

mild steel = 1 / stainless steel approx. 0.7 / brass approx. 0.4 / aluminium approx. 0.3 / copper approx. 0.2

Hysteresis [% of Sr]

1...15

Switch-point drift [% of Sr]

-10...10

Environment

Ambient temperature [°C]

-25...80

Protection

IP 65

Tests / approvals

EMC

EN 60947-5-2

EN 55011:

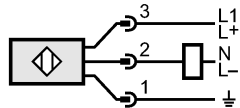
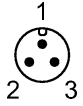
class B

IM3501 - Inductive sensor - eclass: 27270101 / 27-27-01-01

Mechanical data

Mounting	non-flush mountable
Housing materials	PPE
Displays / operating elements	
Output status indication LED	red
Electrical connection	
Connection	7/8" connector

Wiring



Remarks

Remarks	5 positions of the active zone possible
Pack quantity [piece]	1