

Product characteristics

Inductive sensor

Rectangular, plastics

Connector

Increased sensing range

Sensing range 35 mm; [nf] non-flush mountable

Electrical data

Electrical design

AC/DC

Operating voltage [V]

20...140 AC / 10...140 DC (47...63 Hz AC)

Protection class

I

Reverse polarity protection

yes

Outputs

Output function

normally open

Voltage drop [V]

< 5.5

Minimum load current [mA]

5.5

Leakage current [mA]

< 1.7 (140 V AC/DC)

**Current rating**

- Current rating (continuous) [mA]

450

- Current rating (peak) [mA]

î: 2.2 A (20 ms / 0.5 Hz)

Short-circuit protection

pulsed

Overload protection

yes

Switching frequency [Hz]

25 AC / 100 DC

Range

Sensing range [mm]

35

Operating distance [mm]

0...28.3

Accuracy / deviations

Correction factors

mild steel = 1 / stainless steel approx. 0.7 / brass approx. 0.4 / Al approx. 0.4 / Cu approx. 0.3

Hysteresis [% of Sr]

3...15

Environment

Ambient temperature [°C]

-25...70

Protection

IP 67

Tests / approvals

EMC

EN 60947-5-2

MTTF [Years]

353

Mechanical data

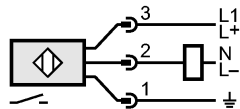
Mounting

non-flush mountable

# IM0042 - Inductive sensor - eclass: 27270101 / 27-27-01-01

|                               |      |  |
|-------------------------------|------|--|
| Housing materials             |      | PPE; connector housing: Brass; bracket: diecast zinc |
| Weight                        | [kg] | 0.266  |
| Displays / operating elements |      |  |
| Output status indication      | LED  | Red  |
| Operation                     | LED  | green  |
| Electrical connection         |      |  |
| Connection                    |      | 7/8" connector                                       |

## Wiring



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