

Product characteristics

Inductive sensor

Rectangular, plastics

Connector

Increased sensing range

Sensing range 35 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 proof

Overload protection

Switching frequency [Hz]

Range

Sensing range [mm]

Operating distance [mm]

Accuracy / deviations

Correction factors

Hysteresis [% of Sr]

Environment

Ambient temperature [°C]

Protection

Tests / approvals

EMC

MTTF

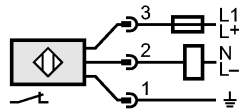
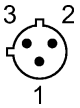
Mechanical data

	AC/DC
Operating voltage [V]	20...250 AC/DC
Protection class	I
Reverse polarity protection	no
Output function	Normally closed
Voltage drop [V]	< 6.5 AC / < 6 DC
Minimum load current [mA]	< 1.9
Leakage current [mA]	< 2.5 (250 V AC) / < 1.3 (130 V AC) / < 0.8 (24 V DC)
<b>Current rating</b>	
- 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 proof	no
Overload protection	no
Switching frequency [Hz]	20 AC / 50 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 EN 55011: class B
MTTF [Years]	600

**IM0057 - Inductive sensor - eclass: 27270101 / 27-27-01-01**

Mounting	non-flush mountable
Housing materials	PPE; bracket: PPS; connector housing: Brass white bronze coated
Weight [kg]	0.165
Displays / operating elements	
Output status indication LED	yellow
Electrical connection	
Connection	1/2" connector

**Wiring**



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

Remarks	
Remarks	Recommendation: check the unit for reliable function after a short circuit. 5 positions of the active zone possible
Pack quantity [piece]	1