

Product characteristics

Inductive sensor

Rectangular, plastics

Connector

Sensing range 20 mm; [f] 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]

Range

Sensing range [mm]

Real sensing range (Sr) [mm]

Operating distance [mm]

Accuracy / deviations

Correction factors

Hysteresis [% of Sr]

Switch-point drift [% of Sr]

Environment

Ambient temperature [°C]

Protection

Tests / approvals

EMC

MTTF [Years]

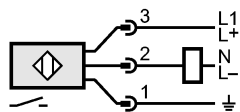
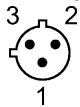
Mechanical data

	AC/DC
Operating voltage [V]	20...140 AC / 10...140 DC (47...63 Hz AC)
Protection class	I
Reverse polarity protection	yes
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 (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
Sensing range [mm]	20
Real sensing range (Sr) [mm]	20 ± 10 %
Operating distance [mm]	0...16.2
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...20
Switch-point drift [% of Sr]	-10...10
Ambient temperature [°C]	-25...70
Protection	IP 67
EMC	EN 60947-5-2
MTTF [Years]	351

**IM0055 - Inductive sensor - eclass: 27270101 / 27-27-01-01**

Mounting		flush mountable
Housing materials		housing: PPE; active face: PPE; end cap: diecast zinc; connector housing: Brass white bronze coated; bracket: diecast zinc
Weight	[kg]	0.259
Displays / operating elements		
Output status indication	LED	Red
Operation	LED	green
Function display	LED	green and red flashing alternately (short-circuit)
Electrical connection		
Connection		1/2" connector

**Wiring**



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