

Product characteristics

Inductive sensor

Rectangular, plastics

Quick disconnect

Sensing range 4 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]

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]

Environment

Ambient temperature [°C]

Protection

Tests / approvals

EMC

MTTF [Years]

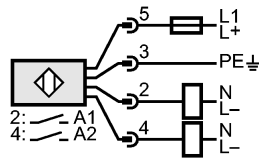
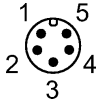
Mechanical data

	AC/DC
Operating voltage [V]	20...140 AC / 10...140 DC (47...63 Hz AC)
Protection class	I
Reverse polarity protection	no
Output function	2 x normally open
Voltage drop [V]	< 5
Minimum load current [mA]	5
Leakage current [mA]	< 0.8
<b>Current rating</b>	
- Current rating (continuous) [mA]	200
- Current rating (peak) [mA]	$\hat{i}$ : 0.9 A (20 ms / 0.5 Hz)
Short-circuit proof	no
Overload protection	no
Switching frequency [Hz]	25
Monitoring range	
Sensing range [mm]	4
Real sensing range (Sr) [mm]	4 ± 10 %
Operating distance [mm]	0...3.25
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]	3...15
Switch-point drift [% of Sr]	-10...10
Environment	
Ambient temperature [°C]	-25...80
Protection	IP 67
Tests / approvals	
EMC	EN 60947-5-2 EN 55011: class B
MTTF [Years]	502
Mechanical data	

**IN0117 - Inductive sensor - eclass: 27270101 / 27-27-01-01**

Mounting	non-flush mountable
Housing materials	stainless steel (303S22); PBT
Weight [kg]	0.079
Displays / operating elements	
Output status indication LED	2 x red
Electrical connection	
Connection	7/8" connector

**Wiring**



Note: miniature fuse to IEC60127-2 sheet 1,  
 $\leq 2$  A (fast acting)  
 Place the fuse outside the hazardous area.

Remarks	
Remarks	Recommendation: check the unit for reliable function after a short circuit.
Pack quantity [piece]	1