

Product characteristics

Inductive sensor	
Rectangular, plastics	
Cable	
Sensing range 2 mm; [f] flush mountable	
Electrical data	
Electrical design	
Operating voltage [V]	AC/DC 20...140 AC / 10...140 DC (45...65 Hz AC)
Protection class	II
Reverse polarity protection	no
Outputs	
Output function	normally open
Voltage drop [V]	< 5
Minimum load current [mA]	5
Leakage current [mA]	< 0.8
Current rating	
- Current rating (continuous) [mA]	200
- Current rating (peak) [mA]	\hat{i} : 0.9 A (20 ms / 0.5 Hz)
Short-circuit protection	no
Overload protection	no
Switching frequency [Hz]	25
Monitoring range	
Sensing range [mm]	2
Real sensing range (Sr) [mm]	$2 \pm 10\%$
Operating distance [mm]	0...1.6
Accuracy / deviations	
Correction factors	mild steel = 1 / stainless steel approx. 0.9 / brass approx. 0.8 / aluminium approx. 0.5 / copper approx. 0.46
Hysteresis [% of Sr]	1...15
Switch-point drift [% of Sr]	-10...10
Environment	
Ambient temperature [°C]	-20...80
Protection	IP 67
Tests / approvals	
EMC	EN 60947-5-2 EN 55011: class B
MTTF [Years]	2006
Mechanical data	
Mounting	flush mountable
Housing materials	PBT

IS3501 - Inductive sensor - eclass: 27270101 / 27-27-01-01

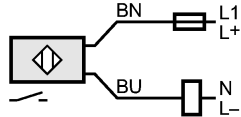
Tightening torque	[Nm]	≤ 0.5 (with washer)
Weight	[kg]	0.02
Displays / operating elements		
Output status indication	LED	red
Electrical connection		
Connection		PVC cable / 0.3 m; 2 x 0.25 mm ²

Wiring

Core colors

BN brown

BU blue



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

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