

Product characteristics

Inductive sensor

Rectangular, plastics

Cable

Sensing range 2 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 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

Mounting

Housing materials

	AC/DC
Operating voltage [V]	20...140 AC / 10...140 DC (45...65 Hz AC)
Protection class	II
Reverse polarity protection	no
Output function	normally closed
Voltage drop [V]	< 7
Minimum load current [mA]	5
Leakage current [mA]	< 0.8
- 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
Sensing range [mm]	2
Real sensing range (Sr) [mm]	$2 \pm 10 \%$
Operating distance [mm]	0...1.6
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]	1...15
Switch-point drift [% of Sr]	-10...10
Ambient temperature [°C]	-25...80
Protection	IP 67
EMC	EN 60947-5-2 EN 55011: class B
MTTF [Years]	2006
Mounting	flush mountable
Housing materials	PBT

IS0004 - Inductive sensor - eclass: 27270101 / 27-27-01-01

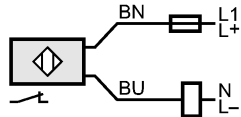
Tightening torque	[Nm]	≤ 0.5 (with washer)
Weight	[kg]	0.063
Displays / operating elements		
Output status indication	LED	red
Electrical connection		
Connection		PUR cable / 2 m; 2 x 0.14 mm ²

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