

Product characteristics

Inductive sensor

Metal thread M12 x 1

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

Hysteresis [% of Sr]

Switch-point drift [% of Sr]

Environment

Ambient temperature [°C]

Protection

Tests / approvals

EMC

MTTF [Years]

Mechanical data

Mounting

Housing materials

Weight [kg]

Displays / operating elements

Output status indication LED

Electrical connection

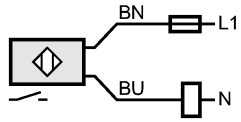
Connection

Wiring

	AC
Operating voltage [V]	20...250 AC (47...63 Hz)
Protection class	II
Reverse polarity protection	no
Outputs	
Output function	normally open
Voltage drop [V]	< 8.5
Minimum load current [mA]	8
Leakage current [mA]	< 2
Current rating	
- Current rating (continuous) [mA]	200; 250 (...50 °C)
- 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]	2
Real sensing range (Sr) [mm]	$2 \pm 10 \%$
Operating distance [mm]	0...1.6
Accuracy / deviations	
Hysteresis [% of Sr]	1...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]	932
Mechanical data	
Mounting	flush mountable
Housing materials	brass white bronze coated; PBT white
Weight [kg]	0.118
Displays / operating elements	
Output status indication LED	red
Electrical connection	
Connection	PVC cable / 2 m; 2 x 0.5 mm ²

IF0303 - Inductive sensor - eclass: 27270101 / 27-27-01-01

Core colors
 BN brown
 BU blue



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

Accessories	
Accessories (included)	2 lock nuts
Remarks	
Remarks	Recommendation: check the unit for reliable function after a short circuit.
Pack quantity [piece]	1