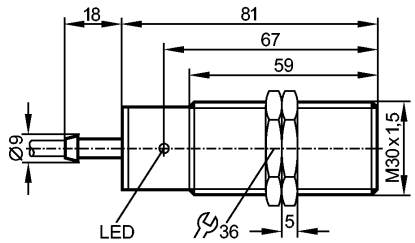
II0051

IIA2010-ABOA/6M

Inductive sensors



Product characteristics		
Inductive sensor		
Metal thread M30 x 1.5		
Cable		
Sensing range 10 mm; [f] flush mountable		
Electrical data		
Electrical design		AC/DC
Operating voltage	[V]	20...250 AC/DC
Protection class		II
Reverse polarity protection		no
Outputs		
Output function		normally open
Voltage drop	[V]	< 6.5 AC / < 6 DC
Minimum load current	[mA]	5
Leakage current	[mA]	< 2.5 (250 V AC) / < 1.3 (110 V AC) / < 0.8 (24 V DC)
Current rating		
- Current rating (continuous)	[mA]	250 AC / 100 DC; 350 AC (...50 °C)
- Current rating (peak)	[mA]	î: 2.2 A (20 ms / 0.5 Hz)
Short-circuit proof		no
Overload protection		no
Switching frequency	[Hz]	25 AC / 50 DC
Monitoring range		
Sensing range	[mm]	10
Real sensing range (Sr)	[mm]	10 ± 10 %
Operating distance	[mm]	0...8.1
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]	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]	607
Mechanical data		
Mounting		flush mountable
Housing materials		brass white bronze coated; active face: PBT
Weight	[kg]	0.405
Displays / operating elements		
Output status indication	LED	yellow

II0051 - Inductive sensor - eclass: 27270101 / 27-27-01-01

Electrical connection

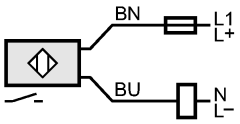
Connection	PVC cable / 6 m; 2 x 0.5 mm²

Wiring

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