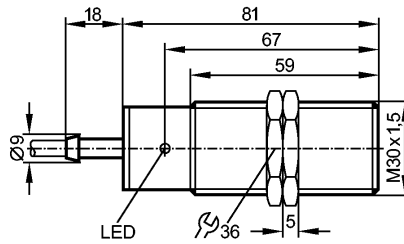


**II0290**

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Inductive sensors

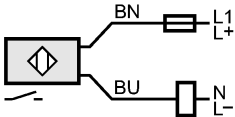


Product characteristics	
Inductive sensor	
Plastic thread M30 x 1.5	
Cable	
Sensing range 15 mm; [nf] non-flush mountable	
Electrical data	
Electrical design	AC/DC
Operating voltage [V]	20...250 AC/DC
Protection class	II
Reverse polarity protection	no
Outputs	
Output function	normally open
Voltage drop [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]	15
Real sensing range (Sr) [mm]	15 ± 10 %
Operating distance [mm]	0...12.1
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

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Mechanical data	
Mounting	non-flush mountable
Housing materials	PBT
Weight [kg]	0.174
Displays / operating elements	
Output status indication	LED
	red
Electrical connection	
Connection	PVC cable / 2 m; 2 x 0.5 mm <sup>2</sup>
<b>Wiring</b> 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