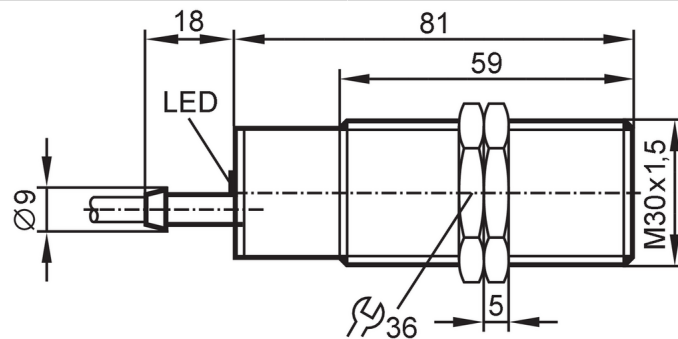


II0310



Inductive sensor

IIA2010RABOA/6M



Product characteristics

Electrical design	Series connection possible AC 100 V = max. 2 AC 200 V = max. 4	
Output function	normally open	
Sensing range [mm]	10	
Housing	Threaded type	
Dimensions [mm]	M30 x 1.5 / L = 81	

Electrical data

Operating voltage [V]	20...250 AC/DC	
Protection class	II	
Reverse polarity protection	no	

Outputs

Electrical design	Series connection possible AC 100 V = max. 2 AC 200 V = max. 4	
Output function	normally open	
Max. voltage drop switching output DC [V]	7.5	
Max. voltage drop switching output AC [V]	7.5	
Minimum load current [mA]	5	
Max. leakage current [mA]	4	
Permanent current rating of switching output AC [mA]	70; (200 (...50 °C))	
Permanent current rating of switching output DC [mA]	100	
Short-time current rating of switching output [mA]	2200; (20 ms / 0,5 Hz)	
Switching frequency AC [Hz]	25	
Switching frequency DC [Hz]	50	
Short-circuit proof	no	
Overload protection	no	

Monitoring range

Sensing range [mm]	10	
Real sensing range Sr [mm]	10 ± 10 %	
Operating distance [mm]	0...8.1	

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Accuracy / deviations		
Correction factor		steel: 1 / stainless steel: 0.7 / brass: 0.4 / aluminum: 0.3 / copper: 0.2
Hysteresis	[% of Sr]	3...15
Switch-point drift	[% of Sr]	-10...10
Operating conditions		
Ambient temperature	[°C]	-25...80
Protection		IP 67
Tests / approvals		
EMC	EN 60947-5-2	
	EN 55011	class B
MTTF	[years]	689
Mechanical data		
Weight	[g]	412
Housing		Threaded type
Mounting		flush mountable
Dimensions	[mm]	M30 x 1.5 / L = 81
Thread designation		M30 x 1.5
Material		housing: brass nickel-plated; sensing face: PBT
Displays / operating elements		
Display	Switching status	1 x LED, red
Electrical connection		
Required protection	miniature fuse to IEC60127-2 sheet 1; ≤ 2 A; fast acting	
Accessories		
Items supplied	lock nuts: 2	
Remarks		
Remarks	Recommendation: check the unit for reliable function after a short circuit.	
Pack quantity	1 pcs.	

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Electrical connection

Cable: 6 m, PVC; 2 x 0.5 mm²

Connection



Note miniature fuse to IEC60127-2 sheet 1 $\leq$ 2 A fast acting

Core colors :

BN =

brown

BU =

blue