



Inductive sensor

IB-2020-ABOA



Product characteristics		
Output function		normally open
Sensing range	[mm]	20
Housing		cylindrical
Dimensions	[mm]	Ø 34 / L = 82
Electrical data		
Operating voltage	[V]	20...250 AC/DC
Protection class		II
Reverse polarity protection		no
Outputs		
Output function		normally open
Max. voltage drop switching output DC	[V]	6
Max. voltage drop switching output AC	[V]	6.5
Minimum load current	[mA]	5
Max. leakage current	[mA]	2.5 (250 V AC) / 1.3 (110 V AC) / 0.8 (24 V DC)
Permanent current rating of switching output AC	[mA]	250; (350 (...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
Detection zone		
Sensing range	[mm]	20
Real sensing range Sr	[mm]	20 ± 10 %
Operating distance	[mm]	0...16.2



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Accuracy / deviations				
Correction factor		steel: 1 / stainless steel: 0.7 / brass: 0.5 / aluminium: 0.5 / copper: 0.4		
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]	610		
UL approval		Ta		0...40 °C
		Enclosure type		Type 1
		power supply		Hazardous voltage
		File number UL		E174191
Mechanical data				
Weight		[g]	256	
Housing			cylindrical	
Mounting			non-flush mountable	
Dimensions		[mm]	Ø 34 / L = 82	
Materials			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		Mounting clamps: 1		
Remarks				
Remarks		Recommendation: Check the safe functioning of the unit after a short circuit.		
Pack quantity		1 pcs.		



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Electrical connection

Cable: 2 m, PVC; 2 x 0.5 mm²

Connection



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

BN =

brown

BU =

blue