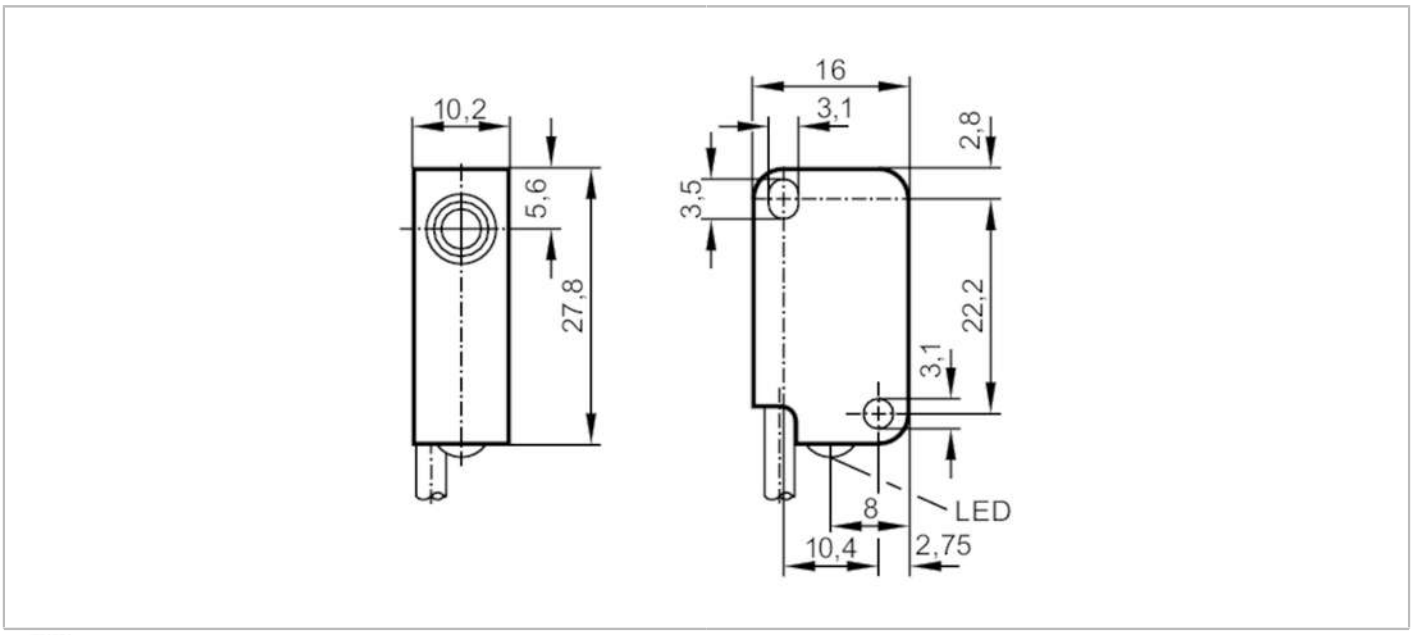
IS3501

Inductive sensor

IS-2002-AROA/12"K



Product characteristics		
Output function		normally open
Sensing range	[mm]	2
Housing		rectangular
Dimensions	[mm]	28 x 10 x 16
Electrical data		
Frequency AC	[Hz]	45...65
Operating voltage	[V]	20...140 AC / 10...140 DC
Protection class		II
Reverse polarity protection		no
Outputs		
Output function		normally open
Max. voltage drop switching output DC	[V]	5
Max. voltage drop switching output AC	[V]	5
Minimum load current	[mA]	5
Max. leakage current	[mA]	0.8
Permanent current rating of switching output AC	[mA]	200
Permanent current rating of switching output DC	[mA]	200
Short-time current rating of switching output	[mA]	900; (20 ms / 0,5 Hz)
Switching frequency AC	[Hz]	25
Switching frequency DC	[Hz]	25
Short-circuit protection		no
Overload protection		no

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Detection zone			
Sensing range	[mm]	2	
Real sensing range Sr	[mm]	2 ± 10 %	
Operating distance	[mm]	0...1.6	
Accuracy / deviations			
Correction factor		steel: 1 / stainless steel: 0.9 / brass: 0.8 / aluminium: 0.5 / copper: 0.46	
Hysteresis	[% of Sr]	1...15	
Switch point drift	[% of Sr]	-10...10	
Operating conditions			
Ambient temperature	[°C]	-20...80	
Protection		IP 67	
Tests / approvals			
EMC		EN 60947-5-2	
		EN 55011	class B
MTTF	[years]	1724	
Mechanical data			
Weight	[g]	15	
Housing		rectangular	
Mounting		flush mountable	
Dimensions	[mm]	28 x 10 x 16	
Materials		PBT	
Tightening torque	[Nm]	< 0.5; (with washer)	
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	
Remarks			
Remarks		Recommendation: Check the safe functioning of the unit after a short circuit.	
Pack quantity		1 pcs.	

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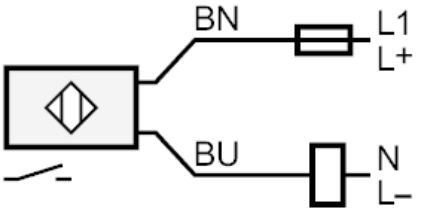
Electrical connection

Cable: 0.3 m, PVC; 2 x 0.25 mm²

Connection



Note miniature fuse to IEC60127-2 sheet 1 ≤ 2 A fast acting
Core colours :

BN = brown
BU = blue