

Inductive sensor

IG-2005-BBOA/10m

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Product characteristics

Output function		normally closed
Sensing range [mm]		5
Housing		threaded type
Dimensions [mm]		M18 x 1 / L = 80

Electrical data

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

Outputs

Output function		normally closed
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

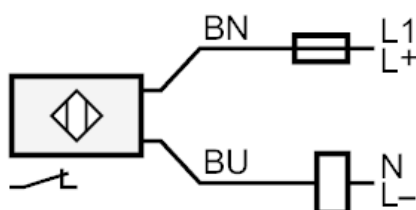
Sensing range [mm]		5
Real sensing range Sr [mm]		5 ± 10 %
Operating distance [mm]		0...4.05



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Accuracy / deviations			
Correction factor		steel: 1 / stainless steel: 0.7 / brass: 0.4 / aluminium: 0.3 / copper: 0.2	
Hysteresis	[% of Sr]	1...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]	609
Mechanical data			
Housing		threaded type	
Mounting		flush mountable	
Dimensions		[mm]	M18 x 1 / L = 80
Thread designation		M18 x 1	
Materials		PBT	
Displays / operating elements			
Display		switching status	1 x LED, yellow
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 safe functioning of the unit after a short circuit.	
Pack quantity		1 pcs.	
Electrical connection			
Cable: 10 m, PVC; 2 x 0.5 mm²			
Connection			



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

Core colours :

BN = brown
BU = blue