



Inductive sensor

IB-2020-BBOA/20mPPU

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Product characteristics

Output function		normally closed
Sensing range	[mm]	20
Housing		tubular
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 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

Monitoring range

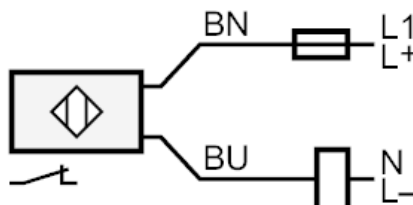
Sensing range	[mm]	20
Real sensing range Sr	[mm]	20 ± 10 %
Operating distance	[mm]	0...16.2



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Accuracy / deviations			
Correction factor		steel: 1 / stainless steel: 0.7 / brass: 0.4 / aluminum: 0.4 / copper: 0.3	
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]	610
Mechanical data			
Housing		tubular	
Mounting		non-flush mountable	
Dimensions		[mm]	Ø 34 / L = 82
Material		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		Mounting clamp: 1	
Remarks			
Remarks		Recommendation: check the unit for reliable function after a short circuit.	
Pack quantity		1 pcs.	
Electrical connection			
Cable: 20 m, PUR / PVC; 2 x 0.5 mm²			
Connection			



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

Core colors :

BN = brown
BU = blue