



## Inductive sensor

IN-2002-ABOA



- 1 threaded bush M3 Depth 5.8 mm  
Tightening torque maximum 1.2 Nm screw fixing class 8.8  
when brass insert in contact with counterpart



### Product characteristics

Output function		normally open
Sensing range	[mm]	2
Housing		rectangular
Dimensions	[mm]	40 x 12 x 26

### Electrical data

Operating voltage	[V]	20...250 AC/DC
Protection class		II
Reverse polarity protection		yes

### Outputs

Output function		normally open
Max. voltage drop switching output DC	[V]	6
Max. voltage drop switching output AC	[V]	6.7
Minimum load current	[mA]	5
Max. leakage current	[mA]	2.0 (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; (50 ms / 1 Hz)
Switching frequency AC	[Hz]	25
Switching frequency DC	[Hz]	50
Short-circuit proof		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: 0.7 / brass: 0.25 / aluminium: 0.2 / copper: 0.05
Hysteresis	[% of Sr]	1...20
Switch point drift	[% of Sr]	-10...10
Operating conditions		
Ambient temperature	[°C]	-25...80
Protection		IP 67
Tests / approvals		
EMC	EN 61000-4-2 ESD	4 kV CD / 8 kV AD
	EN 61000-4-3 HF radiated	3 V/m
	EN 61000-4-4 Burst	2 kV
	EN 61000-4-5 Surge	1 kV line to line, Ri: 2 Ohm
	EN 61000-4-6 HF conducted	3 V
	EN 55011 emission	class B
MTTF	[years]	609
Mechanical data		
Weight	[g]	104.5
Housing		rectangular
Mounting		flush mountable
Dimensions	[mm]	40 x 12 x 26
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
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 mm<sup>2</sup>

### Connection



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

BN =

brown

BU =

blue