IN0086

Inductive sensor

IN-2004-BBOA/6M

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Alternative articles: IN0085

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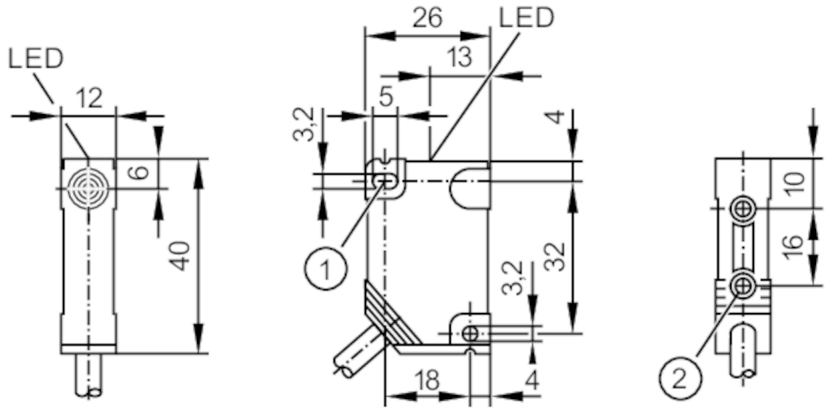

1 mounting hole
2 threaded bush M3 Depth 5.8 mm

Product characteristics		
Output function		normally closed
Sensing range	[mm]	4
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 closed
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

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Short-circuit proof			no
Overload protection			no
Detection zone			
Sensing range	[mm]		4
Real sensing range Sr	[mm]		4 ± 10 %
Operating distance	[mm]		0...3.25
Accuracy / deviations			
Correction factor			steel: 1 / stainless steel: 0.9 / brass: 0.6 / aluminium: 0.5 / copper: 0.4
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 61000-4-6 HF conducted	3 V
		EN 55011 emission	class B
Mechanical data			
Weight	[g]		0.273
Housing			rectangular
Mounting			non-flush mountable
Dimensions	[mm]		40 x 12 x 26
Materials			PBT
Mounting hole			
Tightening torque	[Nm]		< 0.5
Threaded bush			
Tightening torque	[Nm]		< 1.2; (when brass insert in contact with counterpart)
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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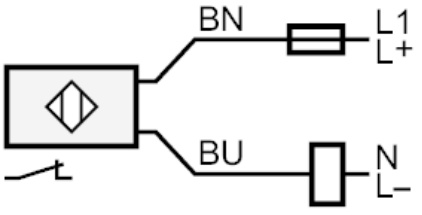
Electrical connection

Cable: 6 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