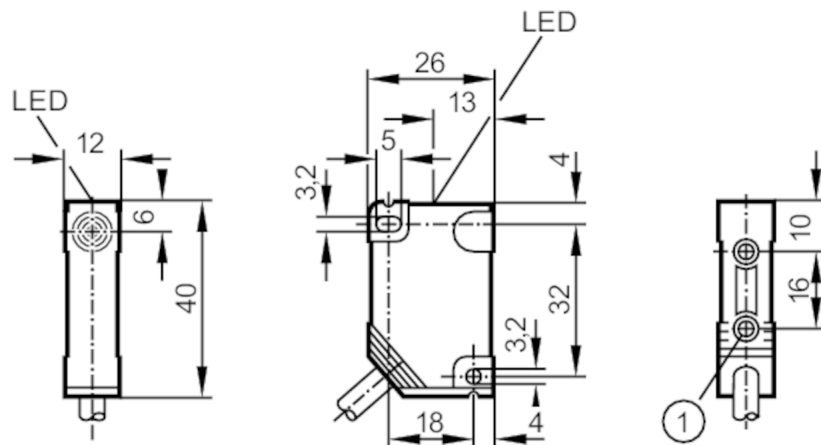




Inductive sensor

IN-2004-BBOA/10m

Article no longer available - archive entry



- 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 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
Short-circuit proof		no



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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 61000-4-5 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			
Housing		rectangular	
Mounting		non-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.	

IN0087



Inductive sensor

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Electrical connection

Cable: 10 m, PVC; 2 x 0.5 mm²

Connection



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

BN =

brown

BU =

blue