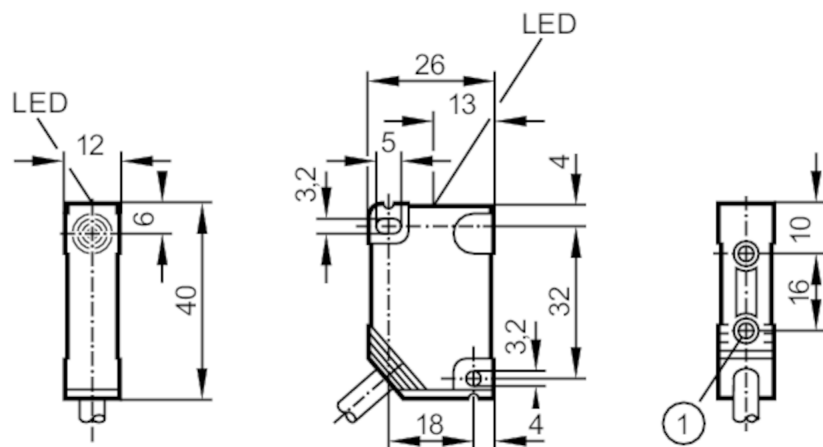




Inductive sensor

IN-2004-BBOA/PPU

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.	

IN0090



Inductive sensor

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Electrical connection

Cable: 2 m, PUR / 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