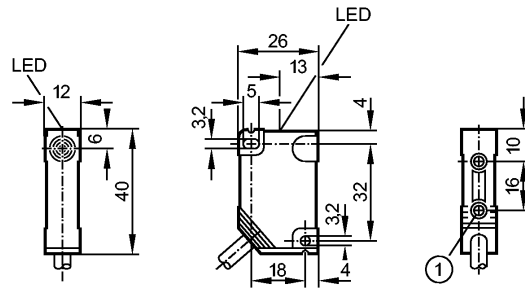


**IN0081**

IN-2004-ABOA

Inductive sensors



1: threaded insert M3, depth 5.8 mm, max. tightening torque 1.2 Nm (screw fixing class 8.8) when brass insert in contact with counterpart.

Made in Germany



Product characteristics	
Inductive sensor	
Rectangular, plastics	
Cable	
Sensing range 4 mm; [nf] non-flush mountable	
Electrical data	
Electrical design	AC/DC
Operating voltage [V]	20...250 AC/DC
Protection class	II
Reverse polarity protection	yes
Outputs	
Output function	normally open
Voltage drop [V]	< 6.7 AC / < 6 DC
Minimum load current [mA]	5
Leakage current [mA]	< 2.0 (250 V AC) / < 1.3 (110 V AC) / < 0.8 (24 V DC)
Current rating	
- Current rating (continuous) [mA]	250 AC / 100 DC; 350 AC (...50 °C)
- Current rating (peak) [mA]	î: 2.2 A (50 ms / 1 Hz)
Short-circuit proof	no
Overload protection	no
Switching frequency [Hz]	25 AC / 50 DC
Range	
Sensing range [mm]	4
Real sensing range (Sr) [mm]	4 ± 10 %
Operating distance [mm]	0...3.25
Accuracy / deviations	
Correction factors	mild steel = 1 / stainless steel approx. 0.9 / brass approx. 0.6 / Al approx. 0.5 / Cu approx. 0.4
Hysteresis [% of Sr]	1...20
Switch-point drift [% of Sr]	-10...10
Environment	
Ambient temperature [°C]	-25...80
Protection	IP 67
Tests / approvals	

## IN0081

IN-2004-ABOA

Inductive sensors

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

MTTF	[Years]	609
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### Mechanical data

Mounting	non-flush mountable
Housing materials	PBT
Weight	[kg] 0.102

### Displays / operating elements

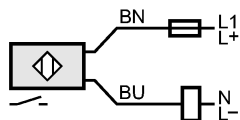
Output status indication	LED	yellow
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### Electrical connection

Connection	PVC cable / 2 m; 2 x 0.5 mm <sup>2</sup>
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### Wiring

Core colours  
 BN brown  
 BU blue



Note: miniature fuse to IEC60127-2 sheet 1,  
 ≤ 2 A (fast acting)

### Remarks

Remarks	Recommendation: check the unit for reliable function after a short circuit.
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Pack quantity	[piece] 1
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