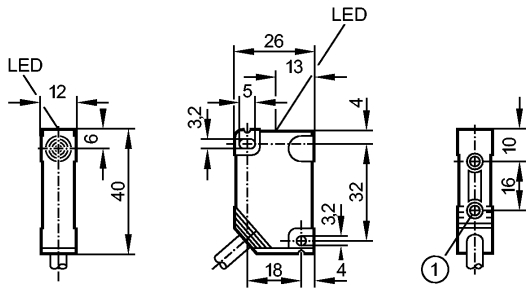
IN0098

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.

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		no
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
Monitoring 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 / aluminium 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		

EMC		EN 61000-4-2 ESD: 4 kV CD / 8 kV AD EN 61000-4-3 HF radiated: EN 61000-4-4 Burst: 2 kV EN 61000-4-6 HF conducted: 3 V EN 55011 (Emission): class B
MTTF	[Years]	609

Mechanical data

Mounting		non-flush mountable
Housing materials		PBT
Weight	[kg]	0.121

Displays / operating elements

Output status indication	LED	yellow

Electrical connection

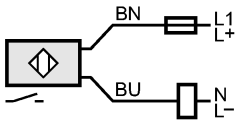
Connection		PVC cable / 2 m; 2 x 0.5 mm²

Wiring

Core colors

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.
Pack quantity	[piece]	1