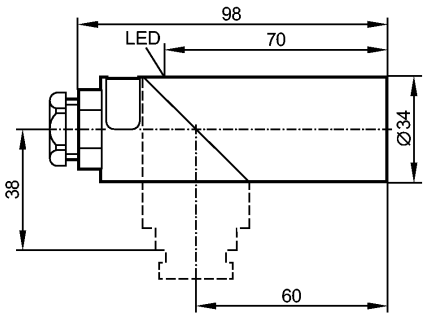
IB0016

IBE2020-FBOA

Inductive sensors



Made in Germany

Product characteristics		
Inductive sensor		
Plastic housing Ø 34 mm		
Terminals		
Sensing range 20 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 / closed programmable
Voltage drop	[V]	< 6.5 AC / < 6 DC
Minimum load current	[mA]	5
Leakage current	[mA]	< 2.5 (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 (20 ms / 0.5 Hz)
Short-circuit proof		no
Overload protection		no
Switching frequency	[Hz]	25 AC / 50 DC
Range		
Sensing range	[mm]	20
Real sensing range (Sr)	[mm]	20 ± 10 %
Operating distance	[mm]	0...16.2
Accuracy / deviations		
Correction factors		mild steel = 1 / stainless steel approx. 0.7 / brass approx. 0.4 / Al approx. 0.4 / Cu approx. 0.3
Hysteresis	[% of Sr]	3...15
Switch-point drift	[% of Sr]	-10...10
Environment		
Ambient temperature	[°C]	-25...80
Protection		IP 65
Tests / approvals		
EMC		EN 60947-5-2 EN 55011: class B

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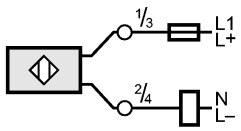
MTTF	[Years]	610
Mechanical data		
Mounting		non-flush mountable
Housing materials		PBT; end cap: polycarbonate
Weight	[kg]	0.183
Displays / operating elements		
Output status indication	LED	yellow
Electrical connection		
Connection		terminals up to 2.5 mm²; cable diameter 7...13 mm, cable gland M20 x 1.5

Wiring



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

Accessories		
Accessories (included)		Mounting clamp
Remarks		
Remarks		Recommendation: check the unit for reliable function after a short circuit.
Pack quantity	[piece]	1