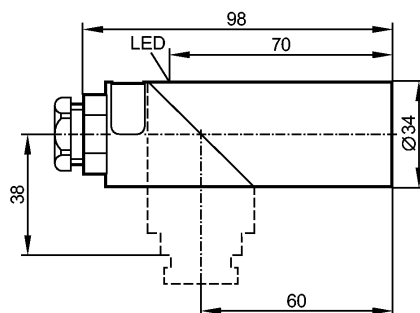


IB0016

IBE2020-FBOA

Inductive sensors



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

Monitoring 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 / aluminium approx. 0.4 / copper 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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IB0016

IBE2020-FBOA

Inductive sensors

MTTF	[Years]	610
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Mechanical data

Mounting	non-flush mountable	
Housing materials	PBT; end cap: polycarbonate	
Weight	[kg]	0.183

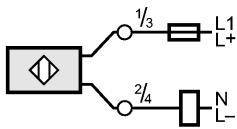
Displays / operating elements

Output status indication	LED	yellow
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Electrical connection

Connection	terminals up to 2.5 mm ² ; cable diameter 7...13 mm, cable gland M20 x 1.5	
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Wiring



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

Accessories

Accessories (included)	Mounting clamp	
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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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