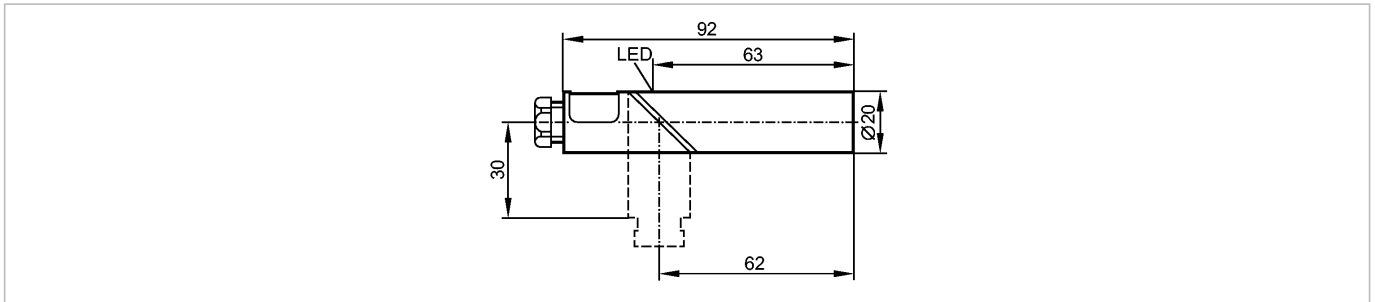


IA0032

IAE2010-FBOA

Inductive sensors



Made in Germany



Product characteristics	
Inductive sensor	
Plastic housing Ø 20 mm	
Terminals	
Sensing range 10 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]	350 AC (...50 °C) / 250 AC (...80 °C) / 100 DC
- 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 / 70 DC
Range	
Sensing range [mm]	10
Real sensing range (Sr) [mm]	10 ± 10 %
Operating distance [mm]	0...8.1
Accuracy / deviations	
Correction factors	mild steel = 1 / stainless steel approx. 0.7 / brass approx. 0.4 / Al approx. 0.3 / Cu approx. 0.2
Hysteresis [% of Sr]	1...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
MTTF [Years]	606

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Mechanical data

Mounting	non-flush mountable
Housing materials	PBT; end cap: polycarbonate
Weight [kg]	0.085

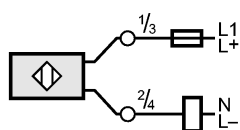
Displays / operating elements

Output status indication	LED	yellow
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Electrical connection

Connection	terminals up to 2.5 mm ² ; cable diameter 4.5...10 mm, cable gland M16 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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