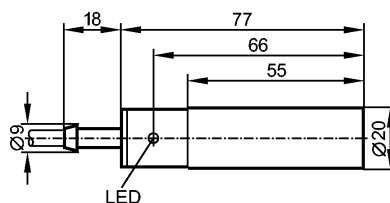


**IA0028**

IA-2010-BBOA/6M

Inductive sensors



Product characteristics	
Inductive sensor	
Plastic housing Ø 20 mm	
Cable	
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 closed
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 / 70 DC
Monitoring 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 / aluminium approx. 0.3 / copper approx. 0.2
Hysteresis [% of Sr]	1...15
Switch-point drift [% of Sr]	-10...10
Environment	
Ambient temperature [°C]	-25...80
Protection	IP 67
Tests / approvals	
EMC	EN 60947-5-2 EN 55011: class B
MTTF [Years]	603
Mechanical data	

**IA0028**

IA-2010-BBOA/6M

**Inductive sensors**

Mounting	non-flush mountable
Housing materials	PBT
Weight [kg]	0.341

**Displays / operating elements**

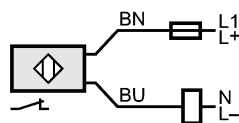
Output status indication	LED	yellow
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**Electrical connection**

Connection	PVC cable / 6 m; 2 x 0.5 mm <sup>2</sup>
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**Wiring**

Core colors  
 BN brown  
 BU blue



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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