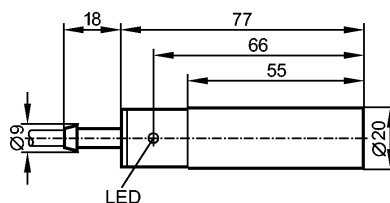


**IA0068**

IA-2010ZABOA/SS

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
Reverse polarity protection	yes

**Outputs**

Output function	normally open
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)

<b>Current rating</b>	
- Current rating (continuous) [mA]	100 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	yes
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...100
Protection	IP 67

**Tests / approvals**

EMC	EN 60947-5-2
MTTF [Years]	605

**Mechanical data**

Mounting	non-flush mountable
Housing materials	PBT

**IA0068**

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**Inductive sensors**

Weight	[kg]	0.177
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**Displays / operating elements**

Output status indication	LED	yellow
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**Electrical connection**

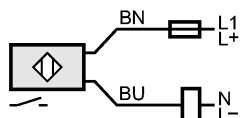
Connection	silicone cable / 2 m; 2 x 0.75 mm <sup>2</sup>
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**Wiring**

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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