



**Model Number**

IA8-M1K-I3

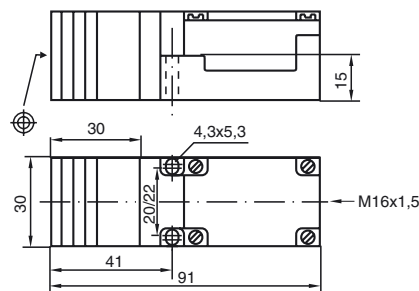
**Features**

- Inductive analog
- Output 0 mA ... 20 mA
- Non-flush mountable

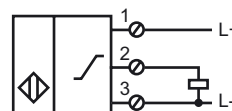
**Technical Data**

<b>General specifications</b>	
Output type	Analog current output
Installation	non-flush
Output polarity	DC
Measurement range	3 ... 8 mm
Output type	3-wire
<b>Nominal ratings</b>	
Operating voltage	$U_B$ 15 ... 30 V
Repeat accuracy	0 ... 6 $\mu$ m
No-load supply current	$I_0$ $\leq$ 8 mA
<b>Functional safety related parameters</b>	
MTTF <sub>d</sub>	2690 a
Mission Time (T <sub>M</sub> )	20 a
Diagnostic Coverage (DC)	0 %
<b>Analog output</b>	
Output type	0 ... 20 mA
Linearity error	$\leq$ $\pm$ 10 % of full-scale value
Load resistor	$\leq$ 500 $\Omega$
Rate of current rise	
0 ... 20 mA	max. 3.2 A/s
20 ... 0 mA	max. 3.9 A/s
Recovery time	1 ... 10 ms , typ. 5 ms
Adjustment tolerance zero point	$\leq$ $\pm$ 10 % of full-scale value
Temperature drift	$\leq$ $\pm$ 0.1 %/K of full-scale value
Operating voltage	$\leq$ 0.5 %
Residual ripple	$\pm$ 30 $\mu$ A
<b>Ambient conditions</b>	
Ambient temperature	-10 ... 70 °C (14 ... 158 °F)
<b>Mechanical specifications</b>	
Connection type	terminal compartment
Core cross-section	up to 2.5 mm <sup>2</sup>
Housing material	PBT
Sensing face	PBT
Degree of protection	IP67
<b>Compliance with standards and directives</b>	
Standard conformity	
Standards	EN 60947-5-2:2007 IEC 60947-5-2:2007 EN 60947-5-7:2003 IEC 60947-5-7:2003
<b>Approvals and certificates</b>	
UL approval	cULus Listed, General Purpose
CSA approval	cCSAus Listed, General Purpose
CCC approval	CCC approval / marking not required for products rated $\leq$ 36 V

**Dimensions**



**Electrical Connection**



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Characteristic Curves

Output characteristics

