

Inductive analogue sensor

IMC3015A1PKG/US



- 1 LED yellow
2 LED green



Electrical data

Operating voltage	[V]	15...30 DC; ("supply class 2" to cULus)
Current consumption	[mA]	< 20
Protection class		II
Reverse polarity protection		yes

Outputs

Analogue current output	[mA]	4...20; (linear; gradient: 1,143 mA/mm; for frontal approach and for target made of mild steel: 45 x 45 x 1 mm)
Max. load	[Ω]	500
Short-circuit protection		yes
Overload protection		yes

Detection zone

Measuring range	[mm]	1...15
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Accuracy / deviations

Correction factor		steel: 1 / stainless steel: 0.7 / brass: 0.5 / aluminium: 0.4 / copper: 0.3
Linearity error of analogue output	[%]	± 3 %; (of IA max)
Repeatability analogue output	[%]	± 2 %; (of IA max)

IM5139



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Response times		
Response time	[ms]	< 20
Operating conditions		
Ambient temperature	[°C]	-25...80
Protection		IP 67
Tests / approvals		
MTTF	[years]	917
UL approval	Ta	-25...70 °C
	Enclosure type	Type 1
	voltage supply	Class 2
	File number UL	E174191
Mechanical data		
Weight	[g]	151.8
Housing		rectangular
Sensing face		5 positions selectable
Mounting		flush mountable
Dimensions	[mm]	40 x 40 x 54
Materials		PA; brass white bronze coated
Displays / operating elements		
Display	within the operating range	1 x LED, yellow lights
	outside the operating range	1 x LED, yellow flashing
	operation	LED, green
Remarks		
Pack quantity		1 pcs.
Electrical connection - plug		
Connector: 1 x M12		
		

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Connection

