

Inductive analogue sensor

IIK4015A2PKG/IO/US



Product characteristics

Housing		threaded type
Dimensions	[mm]	M30 x 1.5 / L = 70

Electrical data

Operating voltage	[V]	15...30 DC
Current consumption	[mA]	< 20
Protection class		II
Reverse polarity protection		yes

Outputs

Analogue voltage output	[V]	0...10; (linear; gradient: 0,714 V/mm; for frontal approach and for target made of mild steel: 45 x 45 x 1 mm)
Min. load resistance	[Ω]	2000
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	[%]	± 1 %; (of UA max)
Repeatability analogue output	[%]	± 1 %; (of UA max)

Response times

Response time	[ms]	< 20
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Operating conditions

Ambient temperature	[°C]	-25...80
Protection		IP 67

Tests / approvals

MTTF	[years]	222
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Mechanical data

Weight	[g]	142
Housing		threaded type
Mounting		non-flush mountable
Dimensions	[mm]	M30 x 1.5 / L = 70
Thread designation		M30 x 1.5
Materials		housing: brass white bronze coated; sensing face: PBT
Tightening torque	[Nm]	50

Displays / operating elements

Display	within the operating range	1 x LED, yellow lights
	outside the operating range	1 x LED, yellow flashing

Accessories

Items supplied	lock nuts: 2
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Remarks

Pack quantity	1 pcs.
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Electrical connection - plug

Connector: 1 x M12; coding: A



Connection

