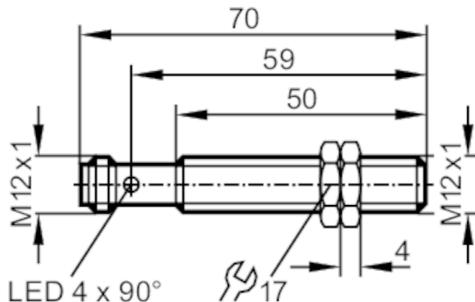


Inductive analogue sensor

IFK3002A1PKG/US

Product characteristics

Housing	threaded type
Dimensions [mm]	M12 x 1 / L = 70

Electrical data

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

Outputs

Analogue current output [mA]	4...20; (linear; gradient: 8,88 mA/mm; for frontal approach and for target made of mild steel: 12 x 12 x 1 mm)
Max. load [Ω]	500
Short-circuit protection	yes
Overload protection	yes

Detection zone

Measuring range [mm]	0.2...2
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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)

Response times

Response time [ms]	< 10
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Operating conditions

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

Tests / approvals

MTTF [years]	217
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Inductive analogue sensor

IFK3002A1PKG/US

Mechanical data		
Weight	[g]	30
Housing		threaded type
Mounting		flush mountable
Dimensions	[mm]	M12 x 1 / L = 70
Thread designation		M12 x 1
Materials		housing: brass white bronze coated; sensing face: PBT
Tightening torque	[Nm]	7
Displays / operating elements		
Display	within the operating range	1 x LED, yellow lights
	outside the operating range	1 x LED, yellow flashing
Accessories		
Accessories (supplied)		lock nuts: 2
Remarks		
Pack quantity		1 pcs.
Electrical connection - plug		
Connector: 1 x M12		



Connection
