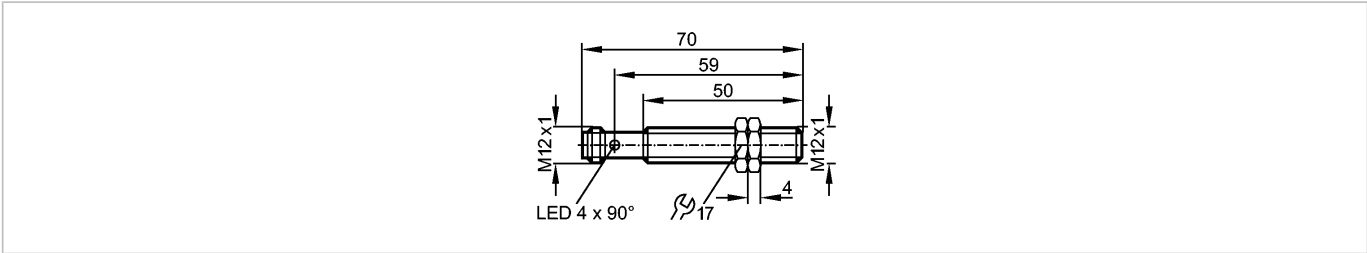


IF6028

IFK3002A1PKG/US

Inductive sensors



Product characteristics

Inductive sensor
Metal thread M12 x 1
Quick disconnect
Analog output 4...20 mA (linear, gradient: 8.88 mA/mm)
Measuring range 0.2...2 mm; [f] flush mountable

Electrical data

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

Outputs

Output function	4...20 mA analog
Max. load [Ω]	500
Short-circuit protection	yes
Overload protection	yes

Monitoring range

Measuring range [mm]	0.2...2
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Accuracy / deviations

Correction factors	mild steel = 1 / stainless steel approx. 0.7 / brass approx. 0.5 / aluminium approx. 0.4 / copper approx. 0.3
Linearity error	$\pm 3\%$; of IA max
Repeatability	$\pm 2\%$; of IA max
Temperature coefficient	$\pm 10\%$; of IA max

Reaction times

Response time [ms]	< 10
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Environment

Ambient temperature [$^{\circ}\text{C}$]	-25...80
Protection	IP 67

Tests / approvals

MTTF [Years]	951
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Mechanical data

Mounting	flush mountable
Housing materials	housing: brass white bronze coated; active face: PBT
Weight [kg]	0.045

Displays / operating elements

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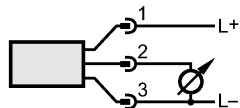
Inductive sensors

Display	within the operating range yellow (permanently lit) outside the operating range yellow (flashing)
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Electrical connection

Connection	M12 connector
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Wiring



Accessories

Accessories (included)	2 lock nuts
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Remarks

Remarks	*) for target 12x12x1 mm made of mild steel and frontal approach
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Pack quantity	[piece]	1
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