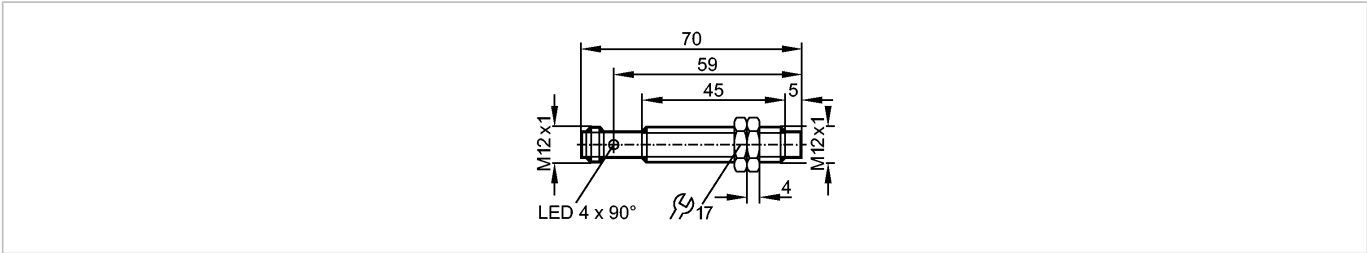


**IF6031**

IFK3004A2PKG/US

Inductive sensors



**Product characteristics**

Inductive sensor
Metal thread M12 x 1
Quick disconnect
Analog output 0...10 V (linear, gradient: 2.77 V/mm) *)
Measuring range 0.4...4 mm; [nf] non-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	0...10 V analog
Min. load [ $\Omega$ ]	2000
Short-circuit protection	yes
Overload protection	yes

**Monitoring range**

Measuring range [mm]	0.4...4
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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]	1000
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**Mechanical data**

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

**Displays / operating elements**

## IF6031

IFK3004A2PKG/US

Inductive sensors

Display

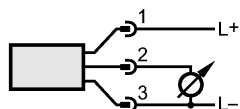
within the operating range yellow (permanently lit)  
outside the operating range yellow (flashing)

### Electrical connection

Connection

M12 connector

### Wiring



### Accessories

Accessories (included)

2 lock nuts

### Remarks

Remarks

\*) for target 12x12x1 mm made of mild steel and frontal approach

Pack quantity

[piece]

1