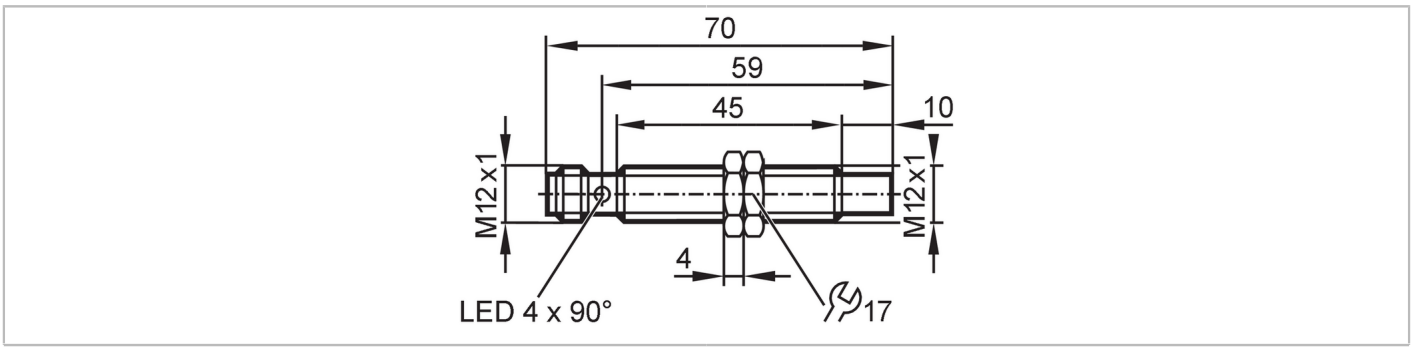
IFT246

Inductive full-metal sensor

IFK3006-ANKG/AM/P/US-104



EC 1935/2004

Product characteristics			
Electrical design		NPN	
Output function		normally open	
Sensing range	[mm]	6	
Housing		threaded type	
Dimensions	[mm]	M12 x 1 / L = 70	
Application			
Special feature		Gold-plated contacts; Increased sensing range; Full-metal housing	
Application		Use in hygienic areas / regular cleaning processes	
Pressure rating		100 bar	10 MPa
Note on pressure rating		sensing face	
Electrical data			
Operating voltage	[V]	10...30 DC	
Current consumption	[mA]	< 25	
Protection class		III	
Reverse polarity protection		yes	
Outputs			
Electrical design		NPN	
Output function		normally open	
Max. voltage drop switching output DC	[V]	2.5	
Permanent current rating of switching output DC	[mA]	100	
Switching frequency DC	[Hz]	250	
Short-circuit protection		yes	
Overload protection		yes	
Detection zone			
Sensing range	[mm]	6	
Real sensing range Sr	[mm]	6 ± 10 %	
Operating distance	[mm]	0...4.9	
Increased sensing range		yes	
Accuracy / deviations			
Correction factor		steel: 1 / stainless steel: 1 / brass: 0.9 / aluminium: 0.8 / copper: 0.6	

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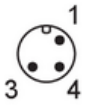
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Hysteresis	[% of Sr]	1...20	
Switch point drift	[% of Sr]	-10...10	
Operating conditions			
Ambient temperature	[°C]	0...100	
Protection		IP 65; IP 67; IP 68; IP 69K	
Tests / approvals			
EMC		EN 61000-4-2 ESD	4 kV CD / 8 kV AD
		EN 61000-4-3 HF radiated	10 V/m
		EN 61000-4-4 Burst	2 kV
		EN 61000-4-6 HF conducted	10 V
		EN 55011 emission	class B
Impact resistance		EN 60068-2-75 Ehc	1 J
MTTF	[years]	1265	
UL approval		Ta	0...70 °C
		Enclosure type	Type 1
		voltage supply	Limited Voltage/Current
		UL approval no.	A012
		File number UL	E174191
Mechanical data			
Weight	[g]	29.7	
Housing		threaded type	
Mounting		non-flush mountable	
Dimensions	[mm]	M12 x 1 / L = 70	
Thread designation		M12 x 1	
Materials		housing: stainless steel (316L/1.4404); sensing face: stainless steel (316L/1.4404); lock nuts: stainless steel (316L/1.4404)	
Tightening torque	[Nm]	15	
Full-metal housing		yes	
Displays / operating elements			
Display		switching status	4 x 90° LED, yellow
Accessories			
Items supplied		lock nuts: 2	
Remarks			
Pack quantity		1 pcs.	

Electrical connection - plug

Connector: 1 x M12; coding: A; Contacts: 3, gold-plated

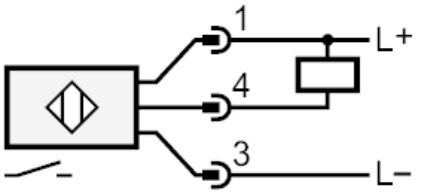


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Connection



Diagrams and graphs

