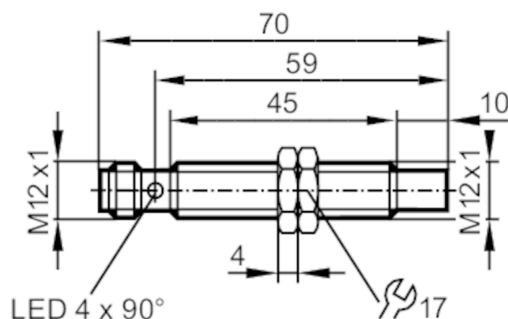


Inductive full-metal sensor

IFK3006-ANKG/AM/P/US-104



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	constant cleaning with aggressive cleaning agents; regular cleaning processes
Pressure rating [bar]	100
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 S_r [mm]	$6 \pm 10 \%$
Operating distance [mm]	0...4.9
Increased sensing range	yes



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Accuracy / deviations		
Correction factor	steel: 1 / stainless steel: 1 / brass: 0.9 / aluminium: 0.8 / copper: 0.6	
Hysteresis	[X01]	1...20
Switch point drift	[X01]	-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	[ANN]	1265
UL approval	Ta	0...70 °C
	Enclosure type	Type 1
	подача напруги	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 (1.4404 / 316L); sensing face: stainless steel (1.4404 / 316L); lock nuts: stainless steel (1.4404 / 316L)	
Tightening torque	[Nm]	15
Full-metal housing	yes	
Displays / operating elements		
Display	switching status	4 x 90° LED, yellow
Аксессуары		
Items supplied	lock nuts: 2	
Remarks		
Pack quantity	1 pcs.	
Electrical connection - plug		
Connector: 1 x M12; coding: A; Contacts: gold-plated		
		

IFT246



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Connection



Diagrams and graphs

