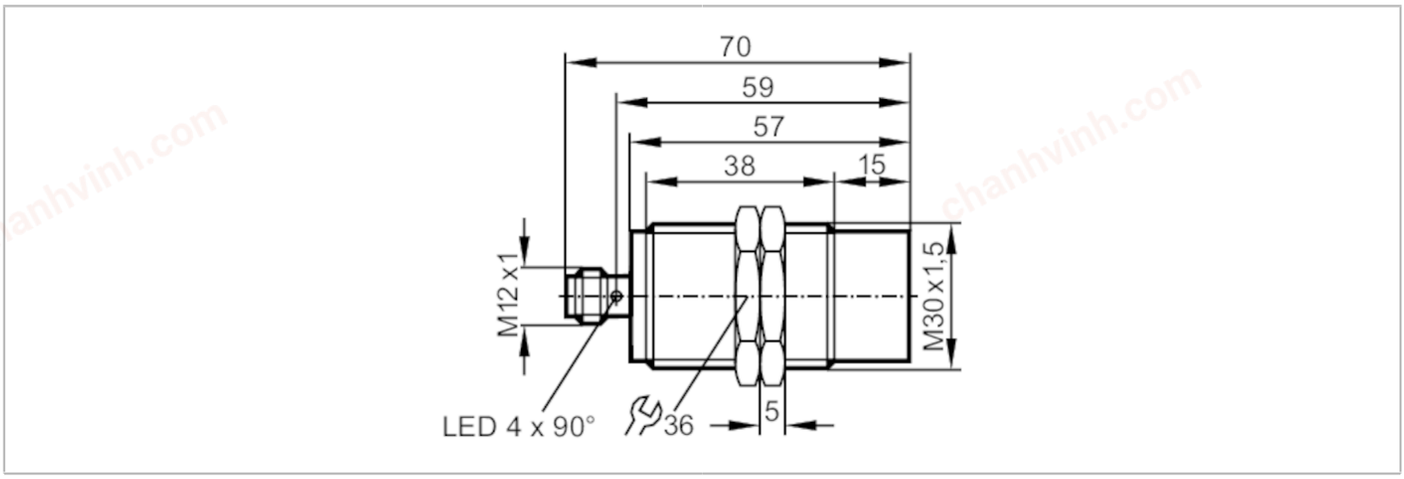
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Inductive sensor

IIKC022-ASKG/US-104



Product characteristics		
Electrical design		PNP/NPN
Output function		normally open
Sensing range	[mm]	22
Housing		threaded type
Dimensions	[mm]	M30 x 1.5 / L = 70
Application		
Special feature		Gold-plated contacts; Increased sensing range
Electrical data		
Operating voltage	[V]	10...36 DC
Current consumption	[mA]	< 10; (only in 3-wire operation)
Protection class		II
Reverse polarity protection		yes
Outputs		
Electrical design		PNP/NPN
Output function		normally open
Max. voltage drop switching output DC	[V]	2.5
Minimum load current	[mA]	2; (only in 2-wire operation)
Max. leakage current	[mA]	0.5; (only in 2-wire operation)
Permanent current rating of switching output DC	[mA]	100
Switching frequency DC	[Hz]	100
Short-circuit protection		yes
Overload protection		yes
Detection zone		
Sensing range	[mm]	22
Real sensing range Sr	[mm]	22 ± 10 %
Operating distance	[mm]	0...17.82
Increased sensing range		yes

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Accuracy / deviations			
Correction factor		steel: 1 / stainless steel: 0.7 / brass: 0.5 / aluminium: 0.45 / copper: 0.35	
Hysteresis	[% of Sr]	1...20	
Switch point drift	[% of Sr]	-10...10	
Operating conditions			
Ambient temperature	[°C]	-40...85	
Protection		IP 67; IP 69K	
Tests / approvals			
EMC		EN 61000-4-2 ESD	4 kV CD / 8 kV AD
		EN 61000-4-3 HF radiated	30 V/m
		EN 61000-4-4 Burst	2 V
		EN 61000-4-5 Surge	0,5 kV mains line to line
		EN 61000-4-6 HF conducted	10 V
		EN 55011	class B
Vibration resistance		EN 60068-2-6 Fc	20 g (10...3000 Hz) / -20...50 °C
			50 sweep cycles, 1 octave per minute, in 3 axes
Shock resistance		EN 60068-2-27 Ea	100 g 11 ms half-sine; 3 shocks each in every direction of the 3 coordinate axes / -40...85 °C
Continuous shock resistance		EN 60068-2-27	40 g 6 ms; 4000 shocks each in every direction of the 3 coordinate axes / -20...50 °C
Salt spray test		EN 60068-2-52 Kb	severity level 5 (4 test cycles)
MTTF	[years]	1089	
UL approval		Ta	-40...85 °C
		Enclosure type	Type 1
		power supply	Limited Voltage/Current
		File number UL	E174191
Mechanical data			
Weight	[g]	125.7	
Housing		threaded type	
Mounting		non-flush mountable	
Dimensions	[mm]	M30 x 1.5 / L = 70	
Thread designation		M30 x 1.5	
Materials		housing: stainless steel; sensing face: LCP natural; LED window: PEI; lock nuts: brass	
Displays / operating elements			
Display		switching status	4 x 90° LED, yellow
Accessories			
Items supplied		lock nuts: 2	
Remarks			
Pack quantity		1 pcs.	

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Electrical connection - plug

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



