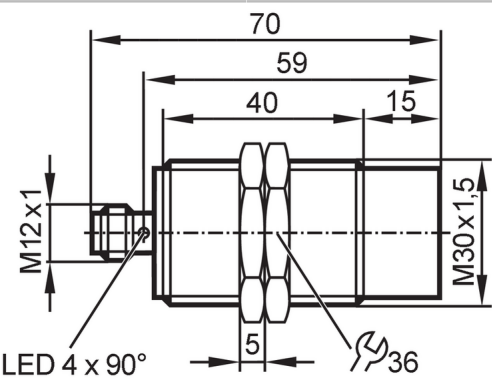




Inductive sensor

IIKC022-ASKG/V4A/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
Application		Use in mobile and harsh applications
Electrical data		
Operating voltage	[V]	10...36 DC
Current consumption	[mA]	< 10
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
Type of short-circuit protection		yes (non-latching)
Overload protection		yes
Monitoring range		
Sensing range	[mm]	22
Real sensing range Sr	[mm]	22 ± 10 %
Operating distance	[mm]	0...17.82



Inductive sensor

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Increased sensing range		yes	
Accuracy / deviations			
Correction factor		steel: 1 / stainless steel: 0.7 / brass: 0.5 / aluminum: 0.4 / copper: 0.3	
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	Automotive area		
	Noise emission and noise interference: ECE R10		E1 type approval
	noise immunity according to DIN ISO 11452-2		100 V/m
	conducted interference in 24 V networks to ISO 7637-2: 2004 (pulse 1 to 4) and ISO16750-2: 2012 (load dump)		
	pulse		1 2a 2b 3a 3b 4 Load dump
	Severity level		III III III III III Test A
	Failure criterion		C A C A A C C
	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 61000-4-5 Surge		0,5 kV mains line to line
	EN 61000-4-6 HF conducted		10 V
	EN 55011		class B
Fast temperature changes	EN 60068-2-14 Na		TA = -40 °C; TB = 85 °C; t1 = 30 min; t2 = < 10 s; 50 cycles
Salt spray test	EN 60068-2-52 Kb		severity level 5 (4 test cycles)
MTTF [years]	1253		
UL approval	Ta		0...40 °C
	Enclosure type		Type 1
	voltage supply		Limited Voltage/Current
	UL approval number		A052
	File number UL		E174191
Mechanical data			
Weight [g]	118.3		
Housing	Threaded type		
Mounting	non-flush mountable		
Dimensions [mm]	M30 x 1.5 / L = 70		
Thread designation	M30 x 1.5		
Material	housing: stainless steel (1.4404 / 316L); sensing face: LCP white; LED window: PEI; lock nuts: brass white bronze coated		
Tightening torque [Nm]	80		
Displays / operating elements			
Display	Switching status	4 x 90° LED, yellow	
Accessories			
Items supplied	lock nuts: 2		



Inductive sensor

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Remarks

Pack quantity 1 pcs.

Electrical connection - plug

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



Connection

