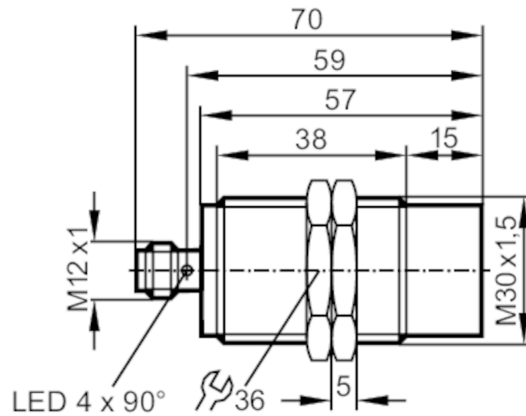


# II5921



## 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
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### 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 $S_r$	[mm]	$22 \pm 10 \%$
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 per frequency; 1 octave per minute in 3 axes
	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
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
	voltage supply	Limited Voltage/Current
	File number UL	E174191
Mechanical data		
Weight [g]	126	
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; connector housing: PEI; lock nuts: brass	
Displays / operating elements		
Display	switching status	4 x 90° LED, yellow
Accessories		
Accessories (supplied)	lock nuts: 2	
Remarks		
Pack quantity	1 pcs.	
Electrical connection - plug		
Connector: 1 x M12; Contacts: gold-plated		

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