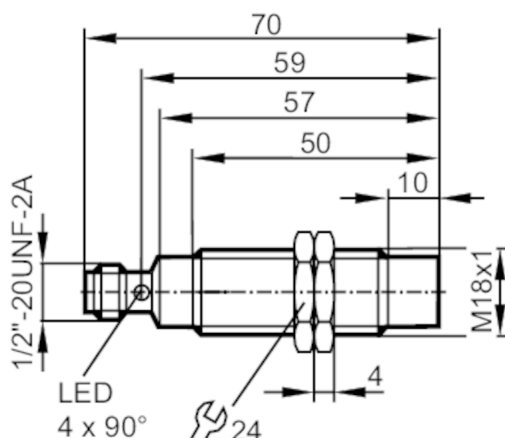




Inductive sensor

IGK2012-ARKA/M/LS-104AK



Electrical data

Frequency AC	[Hz]	47...63
Operating voltage	[V]	20...140 AC/DC
Protection class		II
Reverse polarity protection		yes

Outputs

Output function		normally open
Max. voltage drop switching output DC	[V]	5.5
Max. voltage drop switching output AC	[V]	5.5
Minimum load current	[mA]	5
Max. leakage current	[mA]	1
Permanent current rating of switching output AC	[mA]	200
Permanent current rating of switching output DC	[mA]	200
Short-time current rating of switching output	[mA]	1200; (20 ms / 0,5 Hz)
Switching frequency AC	[Hz]	25
Switching frequency DC	[Hz]	25
Short-circuit protection		yes
Type of short-circuit protection		pulsed
Overload protection		yes

Detection zone

Sensing range	[mm]	12
Real sensing range Sr	[mm]	12 ± 10 %
Operating distance	[mm]	0...9.7
Increased sensing range		yes



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Accuracy / deviations			
Correction factor		steel: 1 / stainless steel: 0.7 / brass: 0.5 / aluminium: 0.4 / copper: 0.3	
Hysteresis	[% of Sr]	3...15	
Switch point drift	[% of Sr]	-10...10	
Operating conditions			
Ambient temperature		[°C]	-25...70
Protection			IP 67
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		class B
MTTF	[years]	394	
UL approval	Ta		0...40 °C
	Enclosure type		Type 1
	voltage supply		Unlimited Voltage
	File number UL		E174191
Mechanical data			
Weight		[g]	59.6
Housing		threaded type	
Mounting		non-flush mountable	
Dimensions		[mm]	M18 x 1 / L = 70
Thread designation		M18 x 1	
Materials		brass white bronze coated; PBT	
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 1/2" ; Contacts: gold-plated			
			

IGS002

Inductive sensor

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