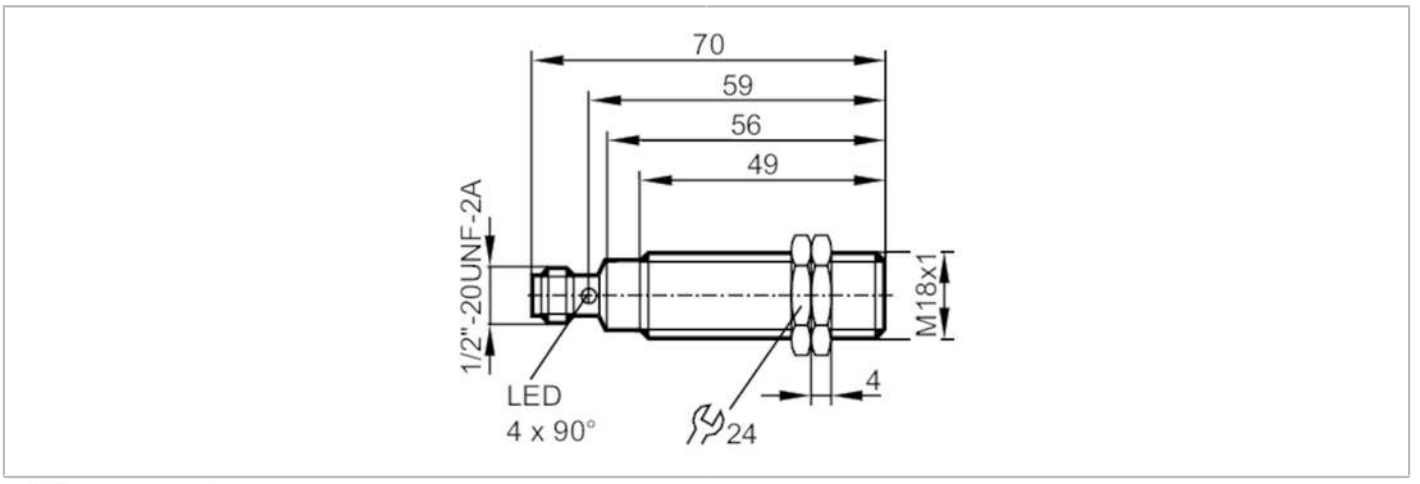
IGS001

Inductive sensor

IGK2008BARKA/M/LS-104AK



Product characteristics		
Output function		normally open
Sensing range	[mm]	8
Housing		threaded type
Dimensions	[mm]	M18 x 1 / L = 70
Application		
Special feature		Gold-plated contacts; Increased sensing range
Application		Industrial applications / factory automation
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

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Overload protection			yes
Detection zone			
Sensing range	[mm]		8
Real sensing range Sr	[mm]		8 ± 10 %
Operating distance	[mm]		0...6.5
Increased sensing range			yes
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
		power supply	Hazardous voltage
		File number UL	E174191
Mechanical data			
Weight	[g]		60.9
Housing			threaded type
Mounting			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			
Items supplied			lock nuts: 2
Remarks			
Pack quantity			1 pcs.

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Electrical connection - plug

Connector: 1 x 1/2"; coding: C; Contacts: gold-plated



