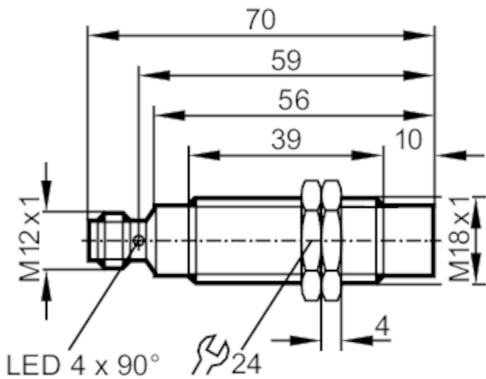




Inductive sensor

IGK2012-FRKG/2LED/US-104



Product characteristics		
Electrical design		PNP/NPN
Output function		normally open / normally closed; (selectable)
Sensing range	[mm]	12
Housing		threaded type
Dimensions	[mm]	M18 x 1 / L = 72
Application		
Special feature		Increased sensing range; Optical setting aid
Electrical data		
Operating voltage	[V]	10...36 DC
Protection class		II
Reverse polarity protection		yes
Outputs		
Electrical design		PNP/NPN
Output function		normally open / normally closed; (selectable)
Max. voltage drop switching output DC	[V]	4.6
Minimum load current	[mA]	4
Max. leakage current	[mA]	1
Permanent current rating of switching output DC	[mA]	100
Switching frequency DC	[Hz]	250
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



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Increased sensing range	yes	
Accuracy / deviations		
Correction factor	steel: 1 / stainless steel: 0.7 / brass: 0.5 / aluminium: 0.5 / copper: 0.4	
Hysteresis [% of Sr]	3...20	
Switch point drift [% of Sr]	-10...10	
Operating conditions		
Ambient temperature [°C]	-25...70	
Protection	IP 68; ("Coolant")	
Tests / approvals		
EMC	EN 60947-5-2	
	EN 55011	class B
MTTF [years]	1341	
Mechanical data		
Weight [g]	52.8	
Housing	threaded type	
Mounting	non-flush mountable	
Dimensions [mm]	M18 x 1 / L = 72	
Thread designation	M18 x 1	
Materials	brass white bronze coated; sensing face: PBT	
Displays / operating elements		
Display	switching status	4 x 90° LED, yellow
	setting aid	1 x LED, red
Optical setting aid	yes	
Accessories		
Items supplied	lock nuts: 2	
Remarks		
Pack quantity	1 pcs.	

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Electrical connection - plug

Connector: 1 x M12; coding: A

