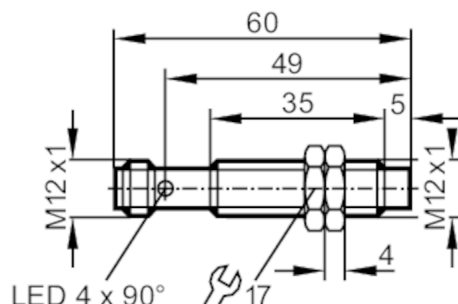


IF5935



Inductive sensor

IFK2007-FRKG/SC/2LED/US-104IRF



Electrical data

Operating voltage	[V]	10...36 DC; ("supply class 2" to cULus)
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]	700
Short-circuit protection		yes
Type of short-circuit protection		pulsed
Overload protection		yes

Detection zone

Sensing range	[mm]	7
Real sensing range Sr	[mm]	7 ± 10 %
Operating distance	[mm]	0...5.7
Increased sensing range		yes

Accuracy / deviations

Correction factor		steel: 1 / stainless steel: 0.7 / brass: 0.5 / aluminium: 0.47 / copper: 0.4
Hysteresis	[% of Sr]	1...20
Switch point drift	[% of Sr]	-10...10

Operating conditions

Ambient temperature	[°C]	-25...70
Protection		IP 68; ("Coolant")

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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 61000-4-5 Surge		0,5 kV line to line, Ri: 2 Ohm
	EN 61000-4-6 HF conducted		10 V
	EN 55011		class B
MTTF	[years]	879	
UL approval	Ta		-25...70 °C
	Enclosure type		Type 1
	voltage supply		Class 2
	File number UL		E174191

Mechanical data

Weight	[g]	41.1
Housing	threaded type	
Mounting	non-flush mountable	
Dimensions	[mm]	M12 x 1 / L = 60
Thread designation	M12 x 1	
Materials	housing: brass anti-spatter; sensing face: PBT anti-spatter; lock nuts: brass anti-spatter	

Displays / operating elements

Display	switching status	4 x 90° LED, yellow
	setting aid	1 x LED, red
Optical setting aid	yes	

Accessories

Accessories (supplied)	lock nuts: 2	
	tooth lock washers: 2	

Remarks

Pack quantity	1 pcs.
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Electrical connection - plug

Connector: 1 x M12; Contacts: gold-plated



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normally open

