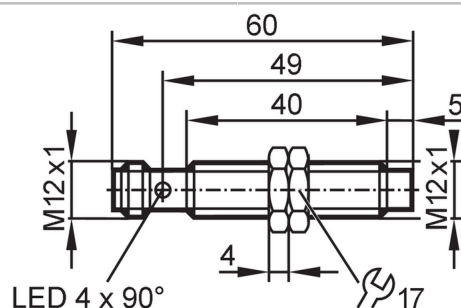




Inductive sensor

IFK2007-FRKG/2LED/US-104



Product characteristics

Electrical design	PNP/NPN
Output function	normally open / closed; (selectable)
Sensing range [mm]	7
Housing	Threaded type
Dimensions [mm]	M12 x 1 / L = 60

Application

Special feature	gold-plated contacts; Increased sensing range; optical setting aid
Application	Industrial applications; Oils and coolants

Electrical data

Operating voltage [V]	10...30 DC
Protection class	II
Reverse polarity protection	yes

Outputs

Electrical design	PNP/NPN
Output function	normally open / 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]	500
Short-circuit protection	yes
Type of short-circuit protection	yes (non-latching)
Overload protection	yes

Monitoring range

Sensing range [mm]	7
Real sensing range S_r [mm]	$7 \pm 10\%$
Operating distance [mm]	0...5.7
Increased sensing range	yes

Accuracy / deviations

Correction factor	steel: 1 / stainless steel: 0.7 / brass: 0.5 / aluminum: 0.5 / copper: 0.4
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IFC235



Inductive sensor

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Hysteresis	[% of Sr]	3...15
Switch-point drift	[% of Sr]	-10...10

Operating conditions

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

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]	1544

Mechanical data

Weight	[g]	28.2
Housing		Threaded type
Mounting		non-flush mountable
Dimensions	[mm]	M12 x 1 / L = 60
Thread designation		M12 x 1
Material		housing: brass white bronze coated; sensing face: LCP white; LED window: PEI; lock nuts: brass white bronze coated
Tightening torque	[Nm]	7

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
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Remarks

Pack quantity	1 pcs.
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Electrical connection - plug

Connector: 1 x M12; coding: A; Contacts: 2, gold-plated



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Connection

