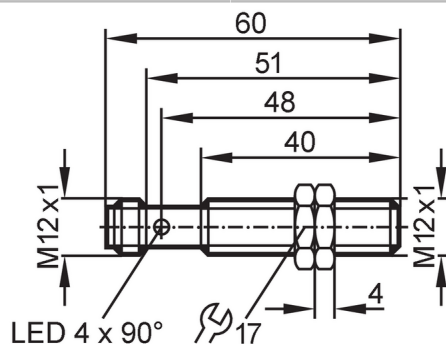


IF5957



Inductive sensor

IFK3004BAPKG/US-104



Product characteristics

Electrical design	PNP
Output function	normally closed
Sensing range [mm]	4
Housing	Threaded type
Dimensions [mm]	M12 x 1 / L = 60

Application

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

Electrical data

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

Outputs

Electrical design	PNP
Output function	normally closed
Max. voltage drop switching output DC [V]	2.5
Permanent current rating of switching output DC [mA]	200
Switching frequency DC [Hz]	700
Short-circuit protection	yes
Overload protection	yes

Monitoring range

Sensing range [mm]	4
Real sensing range Sr [mm]	$4 \pm 10\%$
Operating distance [mm]	0...3.24
Increased sensing range	yes

Accuracy / deviations

Correction factor	steel: 1 / stainless steel: 0.7 / brass: 0.5 / aluminum: 0.4 / copper: 0.3
Hysteresis [% of Sr]	3...15

IF5957



Inductive sensor

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Switch-point drift	[% of Sr]	-10...10
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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]	1083
Embedded software included		no

Mechanical data

Weight	[g]	27.8
Housing		Threaded type
Mounting		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

Displays / operating elements

Display	Switching status	4 x LED, yellow
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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: 3, gold-plated



Connection

