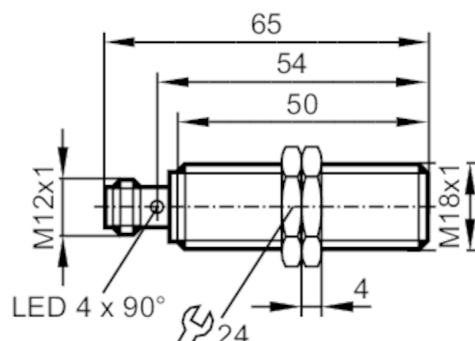




Inductive sensor

IGK3005-BPKG/K1/V4A/US-104



Product characteristics

Electrical design	PNP
Output function	normally open
Sensing range [mm]	5
Housing	threaded type
Dimensions [mm]	M18 x 1 / L = 65

Application

Special feature	Gold-plated contacts; Correction factor K = 1; Magnetic-field immune
Application	Use in machine tools, coolants and lubricants
Magnetic-field immune	yes
Max. magnetic field immunity [mT]	300

Electrical data

Operating voltage [V]	10...30 DC
Current consumption [mA]	20
Protection class	II
Reverse polarity protection	yes

Outputs

Electrical design	PNP
Output function	normally open
Max. voltage drop switching output DC [V]	2.5
Permanent current rating of switching output DC [mA]	100
Switching frequency DC [Hz]	2000
Short-circuit protection	yes
Overload protection	yes

Detection zone

Sensing range [mm]	5
Real sensing range S_r [mm]	$5 \pm 10 \%$
Operating distance [mm]	0...4.05

Accuracy / deviations

Correction factor	steel: 1 / stainless steel: 1 / brass: 1 / aluminium: 1 / copper: 1
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Hysteresis	[% of Sr]	3...15
Switch point drift	[% of Sr]	-10...10
Correction factor K = 1		yes

Operating conditions

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

Tests / approvals

MTTF	[years]	657
Embedded software included		yes
UL approval	Ta	-25...70 °C
	Enclosure type	Type 1
	power supply	Limited Voltage/Current
	UL Approval no.	A005
	File number UL	E174191

Mechanical data

Weight	[g]	45.5
Housing		threaded type
Mounting		flush mountable
Dimensions	[mm]	M18 x 1 / L = 65
Thread designation		M18 x 1
Materials		housing: stainless steel (316L/1.4404); sensing face: LCP white; LED window: PEI white; lock nuts: brass white bronze coated

Displays / operating elements

Display	switching status	4 x 90° 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: gold-plated





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Connection

