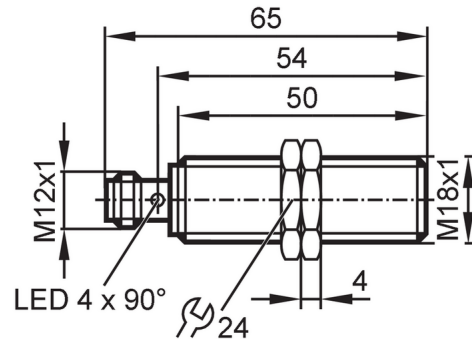




Inductive sensor

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 = 1; Magnetic-field immune
Application		Industrial applications; Oils and coolants
Magnetic-field immune		yes
Max. electromagnetic 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

Monitoring range

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 / aluminum: 1 / copper: 1
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IGC232



Inductive sensor

IGK3005-BPKG/K1/V4A/US-104

Hysteresis	[% of Sr]	3...15
Switch-point drift	[% of Sr]	-10...10
Correction factor = 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
	voltage supply	Limited Voltage/Current
	UL approval number	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
Material		housing: stainless steel (1.4404 / 316L); 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: 3, gold-plated



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Connection

