

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

System	gold-plated contacts; correction factor = 1; Magnetic-field immune
Application	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

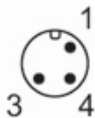
Monitoring range

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



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Accuracy / deviations			
Correction factor		steel: 1 / stainless steel: 1 / brass: 1 / aluminum: 1 / copper: 1	
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
Accessories			
Items supplied		lock nuts: 2	
Remarks			
Pack quantity		1 pcs.	
Electrical connection - plug			
Connector: 1 x M12; coding: A; Contacts: gold-plated			
			



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Connection

