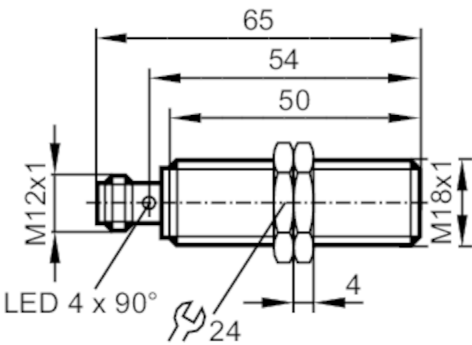




Inductive sensor

IGK3005-BPKG/K1/V4A/US-104

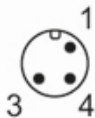


Product characteristics		
Electrical design		PNP
Output function		normally open
Sensing range	[mm]	5
Housing		Threaded type
Dimensions	[mm]	M18 x 1 / L = 65
Application		
System		gold-plated contacts; correction factor = 1; Magnetic-field immune
Application		Oils and coolants
Magnetic-field immune		yes
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 Sr	[mm]	5 ± 10 %
Operating distance	[mm]	0...4.05



Inductive sensor

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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			
			



Inductive sensor

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Connection

