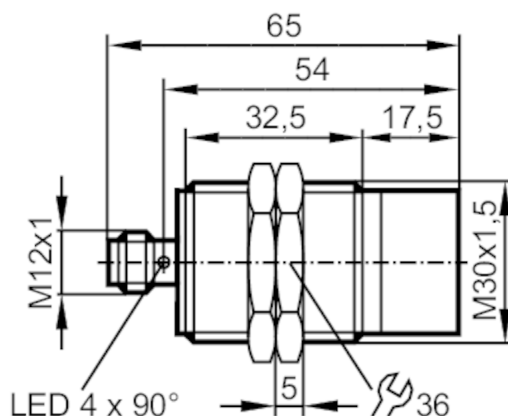


Inductive sensor

IIC3022-BPKG/K1/V4A/US-104



Product characteristics

Electrical design	PNP
Output function	normally open
Sensing range [mm]	22
Housing	threaded type
Dimensions [mm]	M30 x 1.5 / 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]	< 15
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]	22
Real sensing range Sr [mm]	22 ± 10 %
Operating distance [mm]	0...17.82



Inductive sensor

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Accuracy / deviations		
Correction factor	steel: 1 / stainless steel: 1 / brass: 1 / aluminium: 1 / copper: 1	
Hysteresis	[% of Sr]	1...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		
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]	669
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]	86.4
Housing	threaded type	
Mounting	non-flush mountable	
Dimensions	[mm]	M30 x 1.5 / L = 65
Thread designation	M30 x 1.5	
Materials	stainless steel (1.4404 / 316L); sensing face: LCP natural; LED window: PEI; 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



Diagrams and graphs

Installation

