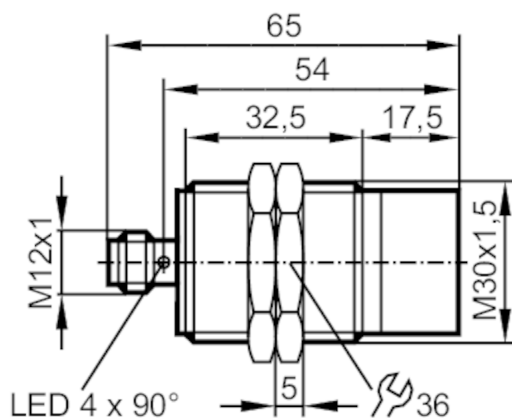




Inductive sensor

IIC3022-BPKG/K1/V4A/US-104



Application

Magnetic-field immune	yes
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Electrical data

Operating voltage	[V]	10...30 DC; ("supply class 2" to cULus)
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 S_r	[mm]	$22 \pm 10 \%$
Operating distance	[mm]	0...17.82

Accuracy / deviations

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

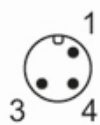
Operating conditions

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



Inductive sensor

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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
UL approval	Ta	-25...70 °C
	Enclosure type	Type 1
	voltage supply	Limited Voltage/Current
	UL Approval no.	A005
	File number UL	E174191
Mechanical data		
Weight	[g]	86.5
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		
Accessories (supplied)		lock nuts: 2
Remarks		
Pack quantity		1 pcs.
Electrical connection - plug		
Connector: 1 x M12; Contacts: gold-plated		
		

Inductive sensor

IIC3022-BPKG/K1/V4A/US-104

Connection



Diagrams and graphs

Installation

