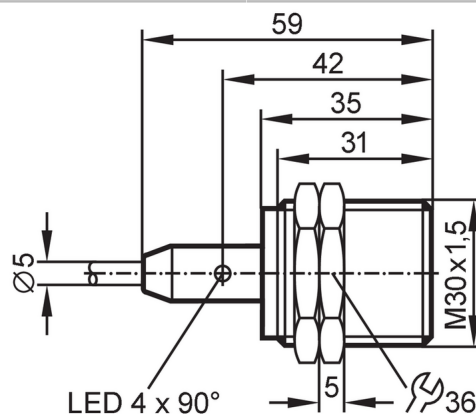




Inductive sensor

IIB3014BBPKG/M/V4A/10M/WH



Product characteristics

Electrical design	PNP
Output function	normally open
Sensing range [mm]	14
Housing	Threaded type
Dimensions [mm]	M30 x 1.5 / L = 59

Application

Special feature	Increased sensing range
Application	Use in hygienic areas / regular cleaning processes

Electrical data

Operating voltage [V]	10...36 DC
Current consumption [mA]	10; (24 V)
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]	100
Short-circuit protection	yes
Type of short-circuit protection	yes (non-latching)
Overload protection	yes

Monitoring range

Sensing range [mm]	14
Real sensing range Sr [mm]	14 ± 10 %
Operating distance [mm]	0...11.34
Increased sensing range	yes



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Accuracy / deviations			
Correction factor		steel: 1 / stainless steel: 0.7 / brass: 0.5 / aluminum: 0.4 / copper: 0.3	
Hysteresis	[% of Sr]	3...15	
Switch-point drift	[% of Sr]	-10...10	
Operating conditions			
Ambient temperature		[°C]	0...100
Protection		IP 68; IP 69K	
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]	1590	
UL approval		Ta	0...40 °C
		Enclosure type	Type 1
		voltage supply	Limited Voltage/Current
		File number UL	E174191
Mechanical data			
Weight	[g]	432	
Housing		Threaded type	
Mounting		flush mountable	
Dimensions	[mm]	M30 x 1.5 / L = 59	
Thread designation		M30 x 1.5	
Material		stainless steel (1.4404 / 316L); sensing face: PEEK	
Displays / operating elements			
Display		Switching status	4 x 90° LED, yellow
Accessories			
Items supplied		lock nuts: 2	
Remarks			
Pack quantity		1 pcs.	



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Electrical connection

Cable: 10 m, PVC; 3 x 0.34 mm²

Connection



Core colors :
 BK = black
 BN = brown
 BU = blue