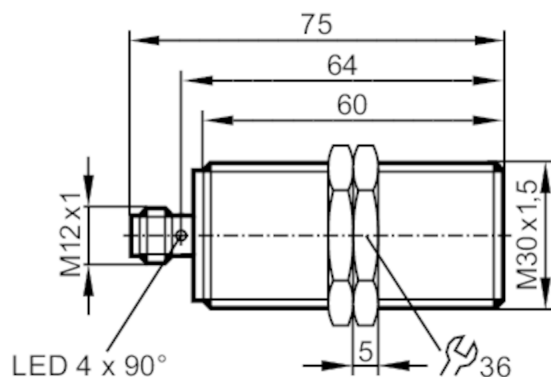


Inductive sensor

IIA3015BBPKG/US-104



Product characteristics

Electrical design	PNP
Output function	normally open
Sensing range [mm]	15
Housing	threaded type
Dimensions [mm]	M30 x 1.5 / L = 75

Application

Special feature	Gold-plated contacts; Increased sensing range
Application	Suitable for industrial, mobile, cooling and lubricating applications; Industrial applications / factory automation

Electrical data

Operating voltage [V]	10...32 DC
Current consumption [mA]	< 10
Protection class	III
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
Overload protection	yes

Detection zone

Sensing range [mm]	15
Real sensing range S_r [mm]	$15 \pm 10 \%$
Operating distance [mm]	0...12.15
Increased sensing range	yes



Inductive sensor

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Accuracy / deviations				
Correction factor		steel: 1 / stainless steel: 0.7 / brass: 0.5 / aluminium: 0.4 / copper: 0.3		
Hysteresis	[% of Sr]	3...15		
Switch point drift	[% of Sr]	-10...10		
Operating conditions				
Ambient temperature		[°C]	-40...85	
Protection		IP 65; IP 66; IP 67; 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 61000-4-5 Surge		0,5 kV line to line, Ri: 2 Ohm	
	EN 61000-4-6 HF conducted		10 V	
	EN 55011 emission		class B	
	signal-to-noise ratio walkie-talkie		150 MHz (5 W): 0 cm / 450 MHz (5 W): 0 cm / 900 MHz (2 W): 7,5 cm	
Vibration resistance		EN 60068-2-6 Fc		20 g (10...3000 Hz) / 50 sweep cycles, 1 octave per minute, in 3 axes
Shock resistance		EN 60068-2-27 Ea		100 g 11 ms half-sine; 3 shocks each in every direction of the 3 coordinate axes
Continuous shock resistance		EN 60068-2-27		40 g 6 ms; 4000 shocks each in every direction of the 3 coordinate axes
Fast temperature change		EN 60068-2-14 Na		TA = -40 °C; TB = 85 °C; t1 = 30 min; t2 = < 10 s; 50 cycles
Salt spray test		EN 60068-2-52 Kb		severity level 5 (4 test cycles)
MTTF		[years]	1528	
Embedded software included		yes		
UL approval	Ta		-25...70 °C	
	Enclosure type		Type 1	
	power supply		Limited Voltage/Current	
	UL Approval no.		A001	
	File number UL		E174191	
Mechanical data				
Weight		[g]	130.5	
Housing		threaded type		
Mounting		flush mountable		
Dimensions		[mm]	M30 x 1.5 / L = 75	
Thread designation		M30 x 1.5		
Materials		brass white bronze coated; sensing face: PBT orange; LED window: PEI; lock nuts: brass white bronze coated		
Displays / operating elements				
Display		switching status	4 x LED, yellow	
Accessories				
Items supplied		lock nuts: 2		
Remarks				
Pack quantity		1 pcs.		

IIS260



Inductive sensor

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Electrical connection - plug

Connector: 1 x M12; coding: A; Contacts: gold-plated



Connection

