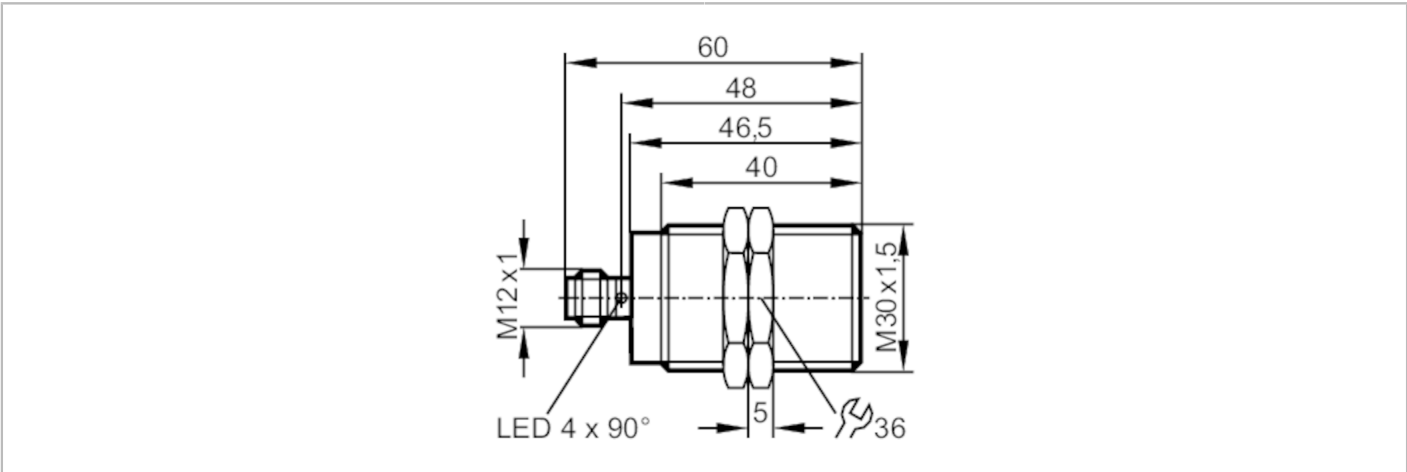




Inductive sensor

IIK3010UBPKG/SC/US-104-DPS



Product characteristics		
Electrical design		PNP
Output function		normally open
Sensing range	[mm]	10
Housing		threaded type
Dimensions	[mm]	M30 x 1.5 / L = 60
Application		
Special feature		Magnetic-field immune
Magnetic-field immune		yes
Electrical data		
Operating voltage	[V]	10...36 DC
Current consumption	[mA]	15; (24 V)
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]	250
Switching frequency DC	[Hz]	250
Short-circuit protection		yes
Type of short-circuit protection		pulsed
Overload protection		yes
Detection zone		
Sensing range	[mm]	10
Real sensing range Sr	[mm]	10 ± 10 %
Operating distance	[mm]	0...8.1



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Accuracy / deviations				
Correction factor		steel: 1 / stainless steel: 0.7 / brass: 0.4 / aluminium: 0.3 / copper: 0.2		
Hysteresis	[% of Sr]	1...15		
Switch point drift	[% of Sr]	-10...10		
Operating conditions				
Ambient temperature		[°C]	-25...70	
Protection		IP 67		
Tests / approvals				
EMC		EN 60947-5-2		
		EN 55011	class B	
MTTF		[years]	1434	
UL approval		Ta		0...40 °C
		Enclosure type		Type 1
		power supply		Hazardous voltage
		File number UL		E174191
Mechanical data				
Weight		[g]	219	
Housing		threaded type		
Mounting		flush mountable		
Dimensions		[mm]	M30 x 1.5 / L = 60	
Thread designation		M30 x 1.5		
Materials		brass PTFE coated; sensing face: PTFE		
Displays / operating elements				
Display		switching status	1 x LED, yellow	
Accessories				
Items supplied		lock nuts: 2		
Remarks				
Pack quantity		1 pcs.		
Electrical connection - plug				
Connector: 1 x M12; coding: A				
				

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Connection

