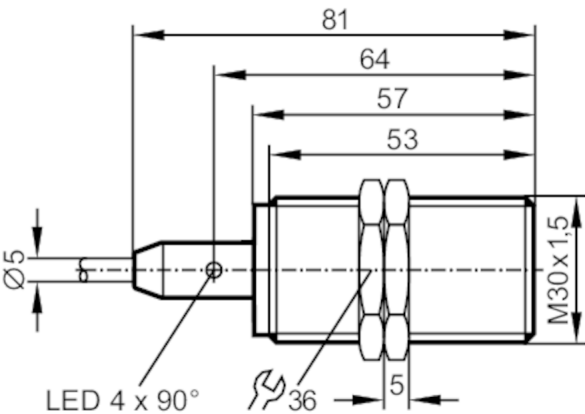




Inductive sensor

IIK3012BBPKG/M/60V/15M/ZH



Product characteristics		
Electrical design		PNP
Output function		normally open
Sensing range	[mm]	12
Housing		Threaded type
Dimensions	[mm]	M30 x 1.5 / L = 81
Application		
System		Increased sensing range
Application		Use in mobile and harsh applications
Electrical data		
Operating voltage	[V]	10...60 DC
Current consumption	[mA]	< 10
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]	200
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]	12
Operating distance	[mm]	0...9.72
Increased sensing range		yes



Inductive sensor

IHK3012BBPKG/M/60V/15M/ZH

Accuracy / deviations		
Correction factor	steel: 1 / stainless steel: 0.7 / brass: 0.5 / aluminum: 0.45 / copper: 0.35	
Hysteresis	[% of Sr]	1...20
Operating conditions		
Ambient temperature	[°C]	-40...85
Protection	IP 67; IP 69K	
Tests / approvals		
EMC	Automotive area	
	Noise emission and noise interference: ECE R10	E1 type approval
	noise immunity according to DIN ISO 11452-2	100 V/m
	conducted interference in 24 V networks to ISO 7637-2: 2004 (pulse 1 to 4) and ISO16750-2: 2012 (load dump)	
	pulse	1 2a 2b 3a 3b 4 Load dump
	Severity level	III III III III III Test A
	Failure criterion	C A C A A C C
	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 mains line to line
	EN 61000-4-6 HF conducted	10 V
	EN 55011	class B
	Vibration resistance	EN 60068-2-6 Fc
		50 sweep cycles per frequency; 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 / -40...85 °C
Continuous shock resistance	EN 60068-2-27	40 g 6 ms; 4000 shocks each in every direction of the 3 coordinate axes / -20...50 °C
Fast temperature changes	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]	907
Mechanical data		
Weight	[g]	696.2
Housing	Threaded type	
Mounting	flush mountable	
Dimensions	[mm]	M30 x 1.5 / L = 81
Thread designation	M30 x 1.5	
Material	threaded sleeve: stainless steel; sensing face: LCP natural; LED window: PEI; lock nuts: brass	
Displays / operating elements		
Display	Switching status	4 x 90° LED, yellow
Accessories		
Items supplied	lock nuts: 2	

IIM219



Inductive sensor

IIK3012BBPKG/M/60V/15M/ZH

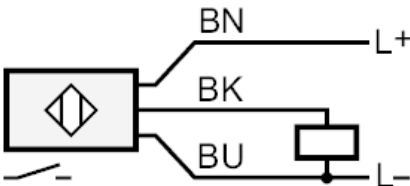
Remarks

Pack quantity	1 pcs.
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Electrical connection

Cable: 15 m, PUR; burning behaviour to ECE R118 rev. 2; 3 x 0.5 mm²

Connection



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