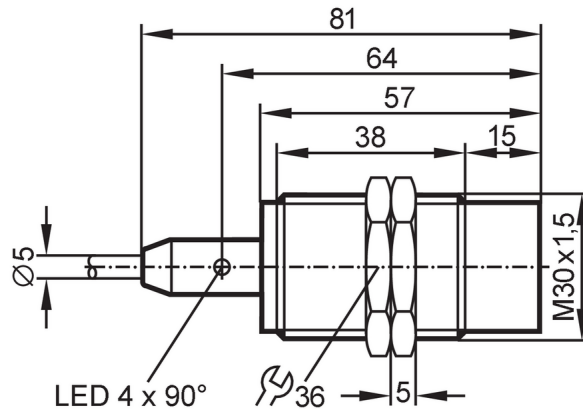


IHK3022-BPKG/M/60V/6M/ZH



Electrical design	PNP
Output function	normally open
Sensing range [mm]	22
Housing	Threaded type
Dimensions [mm]	M30 x 1.5 / L = 81

Special feature	Increased sensing range
Application	Use in mobile and harsh applications

Operating voltage	[V]	10...60 DC
Current consumption	[mA]	< 10
Protection class		II
Reverse polarity protection		yes

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

Sensing range	[mm]	22
Real sensing range Sr	[mm]	22 ± 10 %
Operating distance	[mm]	0...17.82
Increased sensing range		yes



Inductive sensor

IHK3022-BPKG/M/60V/6M/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	
Switch-point drift	[% of Sr]	-10...10	
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	20 g (10...3000 Hz) / -20...50 °C
		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]	900	
UL approval	Ta	0...40 °C	
	Enclosure type	Type 1	
	voltage supply	Class 2	
	File number UL	E174191	
Mechanical data			
Weight	[g]	369	
Housing		Threaded type	
Mounting		non-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	

IIM211



Inductive sensor

IHK3022-BPKG/M/60V/6M/ZH

Displays / operating elements

Display	Switching status	4 x 90° LED, yellow
---------	------------------	---------------------

Accessories

Items supplied	lock nuts: 2
----------------	--------------

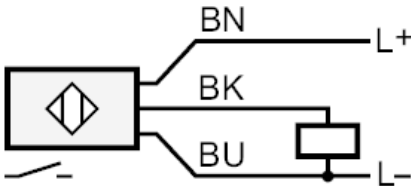
Remarks

Pack quantity	1 pcs.
---------------	--------

Electrical connection

Cable: 6 m, PUR; burning behaviour to ECE R118 rev. 2; 3 x 0.5 mm²

Connection



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