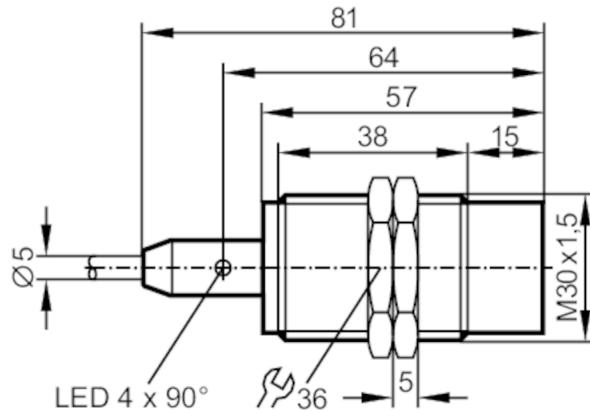


**Inductive sensor**

IIKC022-ASKG/M/6M/ZH

**Product characteristics**

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

**Application**

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

**Electrical data**

Operating voltage [V]	10...36 DC
Current consumption [mA]	< 10; (only in 3-wire operation)
Protection class	II
Reverse polarity protection	yes

**Outputs**

Electrical design	PNP/NPN
Output function	normally open
Max. voltage drop switching output DC [V]	2.5
Minimum load current [mA]	2; (only in 2-wire operation)
Max. leakage current [mA]	0.5; (only in 2-wire operation)
Permanent current rating of switching output DC [mA]	100
Switching frequency DC [Hz]	100
Short-circuit protection	yes
Type of short-circuit protection	pulsed
Overload protection	yes

**Detection zone**

Sensing range [mm]	22
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**Inductive sensor**

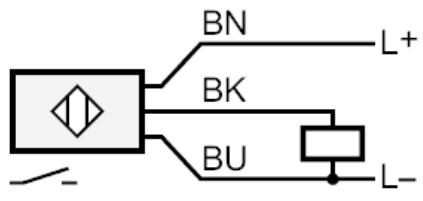
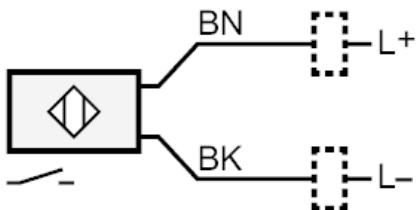
IIKC022-ASKG/M/6M/ZH

Real sensing range Sr	[mm]	22 ± 10 %
Operating distance	[mm]	0...17.82
Increased sensing range		yes
<b>Accuracy / deviations</b>		
Correction factor		steel: 1 / stainless steel: 0.7 / brass: 0.5 / aluminium: 0.45 / copper: 0.4
Hysteresis	[% of Sr]	1...20
Switch point drift	[% of Sr]	-10...10
<b>Operating conditions</b>		
Ambient temperature	[°C]	-40...85
Protection		IP 67; IP 69K
<b>Tests / approvals</b>		
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 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, 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 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]	1089
UL approval	Ta	0...40 °C
	Enclosure type	Type 1
	power supply	Limited Voltage/Current
	File number UL	E174191
<b>Mechanical data</b>		
Weight	[g]	373
Housing		threaded type
Mounting		non-flush mountable
Dimensions	[mm]	M30 x 1.5 / L = 81

**Inductive sensor**

IIKC022-ASKG/M/6M/ZH

Thread designation	M30 x 1.5			
Materials	threaded sleeve: stainless steel; sensing face: LCP natural; LED window: PEI; lock nuts: brass			
<b>Displays / operating elements</b>				
Display	switching status	4 x 90° LED, yellow		
<b>Accessories</b>				
Items supplied	lock nuts: 2			
<b>Remarks</b>				
Pack quantity	1 pcs.			
<b>Electrical connection</b>				
Cable: 6 m, PUR, Ø 5.4 mm; burning behaviour to ECE R118 rev. 2; 3 x 0.5 mm <sup>2</sup>				
<b>Connection</b>				



BK =  
BN =  
BU =

Core colours :  
black  
brown  
blue