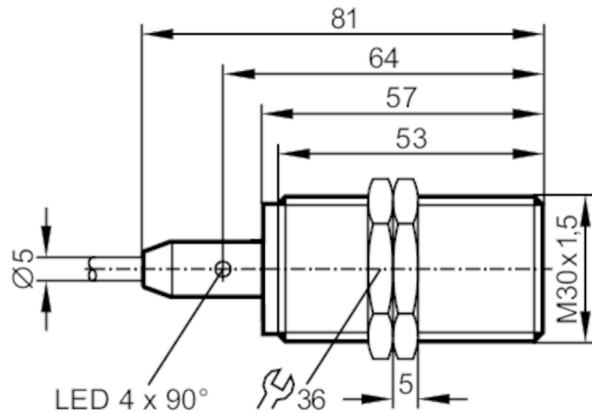


**Inductive sensor**

IICK012BASKG/M/6M/ZH

**Product characteristics**

Electrical design	PNP/NPN
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...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
Overload protection	yes

**Monitoring range**

Sensing range [mm]	12
Operating distance [mm]	0...9.72
Increased sensing range	yes

**Inductive sensor**

IIKC012BASKG/M/6M/ZH

<b>Accuracy / deviations</b>		
Correction factor	steel: 1 / stainless steel: 0.7 / brass: 0.5 / aluminum: 0.45 / copper: 0.4	
Hysteresis	[% of Sr]	
<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 noise immunity according to DIN ISO 11452-2 conducted interference in 24 V networks to ISO 7637-2: 2004 (pulse 1 to 4) and ISO16750-2: 2012 (load dump) pulse Severity level Failure criterion EN 61000-4-2 ESD EN 61000-4-3 HF radiated EN 61000-4-4 Burst EN 61000-4-5 Surge EN 61000-4-6 HF conducted EN 55011	
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]	1101
UL approval	Ta Enclosure type voltage supply File number UL	
<b>Mechanical data</b>		
Weight	[g]	380
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	

**Inductive sensor**

IIKC012BASKG/M/6M/ZH

**Displays / operating elements**

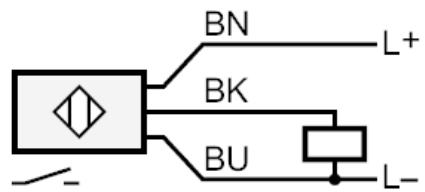
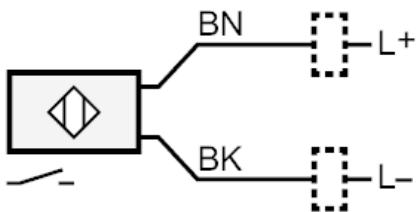
Display	Switching status	4 x 90° LED, yellow
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**Accessories**

Items supplied	lock nuts: 2
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**Remarks**

Pack quantity	1 pcs.
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**Electrical connection**Cable: 6 m, PUR, Ø 5.4 mm; burning behaviour to ECE R118 rev. 2; 3 x 0.5 mm<sup>2</sup>**Connection**

Core colors :

BK =

black

BN =

brown

BU =

blue