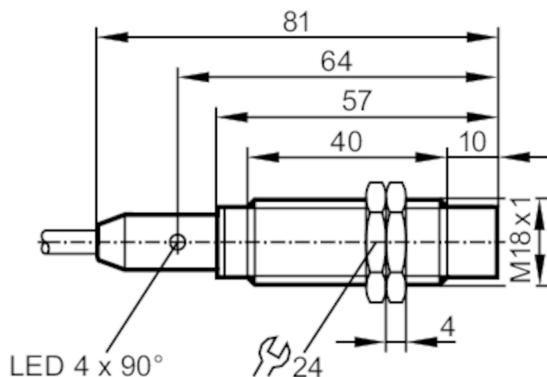


**Inductive sensor**

IGKC012-ASKG/M/6M/ZH

**Product characteristics**

Electrical design	PNP/NPN
Output function	normally open
Sensing range [mm]	12
Housing	threaded type
Dimensions [mm]	M18 x 1 / 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]	200
Short-circuit protection	yes
Type of short-circuit protection	pulsed
Overload protection	yes

**Inductive sensor**

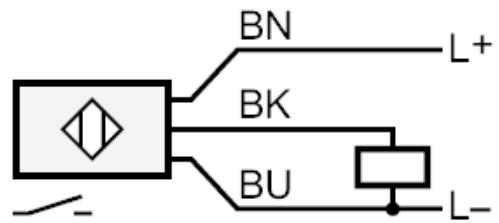
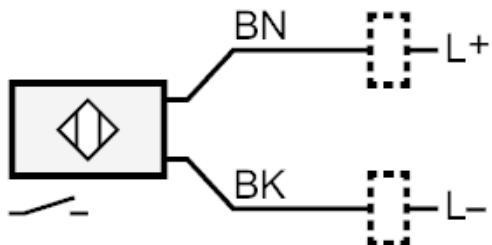
IGKC012-ASKG/M/6M/ZH

<b>Detection zone</b>						
Sensing range	[mm]		12			
Real sensing range Sr	[mm]		12 ± 10 %			
Operating distance	[mm]		0...9.72			
Increased sensing range			yes			
<b>Accuracy / deviations</b>						
Correction factor		steel: 1 / stainless steel: 0.7 / brass: 0.5 / aluminium: 0.45 / copper: 0.35				
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 according to the automotive directive 95/54/EC			E1 type approval	
		noise immunity according to DIN ISO 11452-2			100 V/m	
		conducted interference acc. to ISO 7637-2				
		pulse	1	2	3a	3b
		severity level	IV	IV	IV	IV
		failure criterion	C	C	A	A
		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	
Vibration resistance		EN 61000-4-5 Surge			0,5 kV line to line, Ri: 2 Ohm	
		EN 61000-4-6 HF conducted			10 V	
		EN 55011			class B	
		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					100 g 11 ms half-sine; 3 shocks each in every direction of the 3 coordinate axes / -40...85 °C	
		EN 60068-2-27 Ea				
					40 g 6 ms; 4000 shocks each in every direction of the 3 coordinate axes / -20...50 °C	
Continuous shock resistance		EN 60068-2-27				
					TA = -40 °C; TB = 85 °C; t1 = 30 min; t2 = < 10 s; 50 cycles	
Fast temperature change		EN 60068-2-14 Na				
					severity level 5 (4 test cycles)	
Salt spray test		EN 60068-2-52 Kb				
	MTTF	[years]	1195			
			Ta		0...40 °C	
			Enclosure type		Type 1	
UL approval		voltage supply			Hazardous voltage	
		File number UL			E174191	

**Inductive sensor**

IGKC012-ASKG/M/6M/ZH

<b>Mechanical data</b>		
Weight	[g]	307
Housing		threaded type
Mounting		non-flush mountable
Dimensions	[mm]	M18 x 1 / L = 81
Thread designation		M18 x 1
Materials		housing: 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>		
Accessories (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>		



Core colours :

- BK = black  
 BN = brown  
 BU = blue