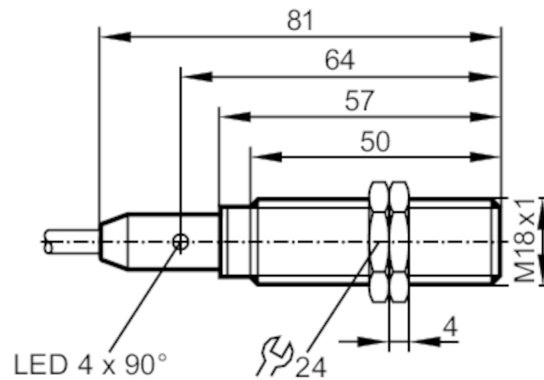


IGM202



Inductive sensor

IGKC008BASKG/M/6M/ZH



Product characteristics

Electrical design	PNP/NPN
Output function	normally open
Sensing range [mm]	8
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

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Detection zone		
Sensing range	[mm]	8
Operating distance	[mm]	0...6.48
Increased sensing range		yes
Accuracy / deviations		
Correction factor		steel: 1 / stainless steel: 0.7 / brass: 0.5 / aluminium: 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 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 4 5
	severity level	IV IV IV IV IV IV
	failure criterion	C C A A A 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 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
Vibration resistance	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 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]	1192
UL approval	Ta	0...40 °C
	Enclosure type	Type 1
	voltage supply	Hazardous voltage
	File number UL	E174191

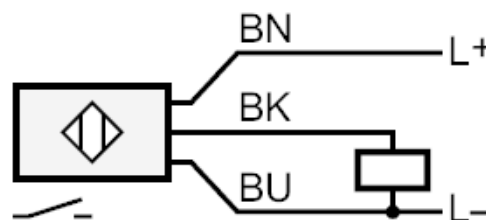
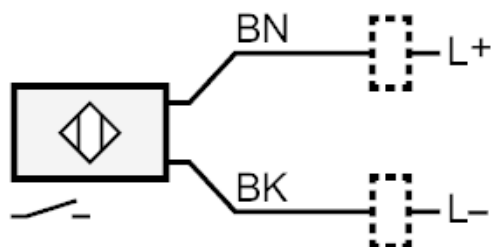
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Inductive sensor

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Mechanical data		
Weight	[g]	306.5
Housing		threaded type
Mounting		flush mountable
Dimensions	[mm]	M18 x 1 / L = 81
Thread designation		M18 x 1
Materials		housing: stainless steel; sensing face: LCP; lock nuts: brass
Displays / operating elements		
Display	switching status	4 x 90° LED, yellow
Accessories		
Accessories (supplied)		lock nuts: 2
Remarks		
Pack quantity		1 pcs.
Electrical connection		
Cable: 6 m, PUR, Ø 5.4 mm; burning behaviour to ECE R118 rev. 2; 3 x 0.5 mm ²		
Connection		



Core colours :

- BK = black
- BN = brown
- BU = blue