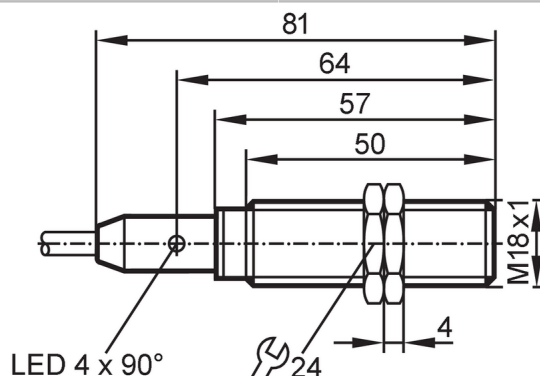


IGM202



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	yes (non-latching)
Overload protection	yes

Monitoring range

Sensing range [mm]	8
Operating distance [mm]	0...6.48
Increased sensing range	yes



Inductive sensor

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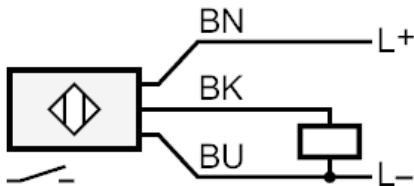
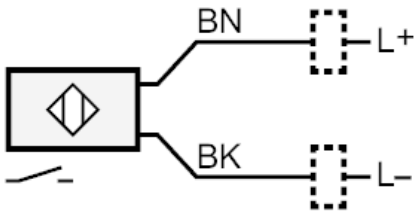
Accuracy / deviations				
Correction factor		steel: 1 / stainless steel: 0.7 / brass: 0.5 / aluminum: 0.45 / copper: 0.35		
Hysteresis	[% of Sr]	1...20		
Operating conditions				
Ambient temperature		[°C]	-40...85	
Protection		IP 67; IP 69K		
Tests / approvals				
EMC		Automotive area		
		Noise emission and noise interference: 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
Shock resistance		EN 60068-2-27 Ea		50 sweep cycles per frequency; 1 octave per minute in 3 axes
				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]	1192	
UL approval		Ta		0...40 °C
		Enclosure type		Type 1
		File number UL		E174191
Mechanical data				
Weight		[g]	305.5	
Housing		Threaded type		
Mounting		flush mountable		
Dimensions		[mm]	M18 x 1 / L = 81	
Thread designation		M18 x 1		
Material		housing: stainless steel; sensing face: LCP; lock nuts: brass		
Displays / operating elements				
Display		Switching status		4 x 90° LED, yellow



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Accessories	
Items 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 mm²	
Connection	



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