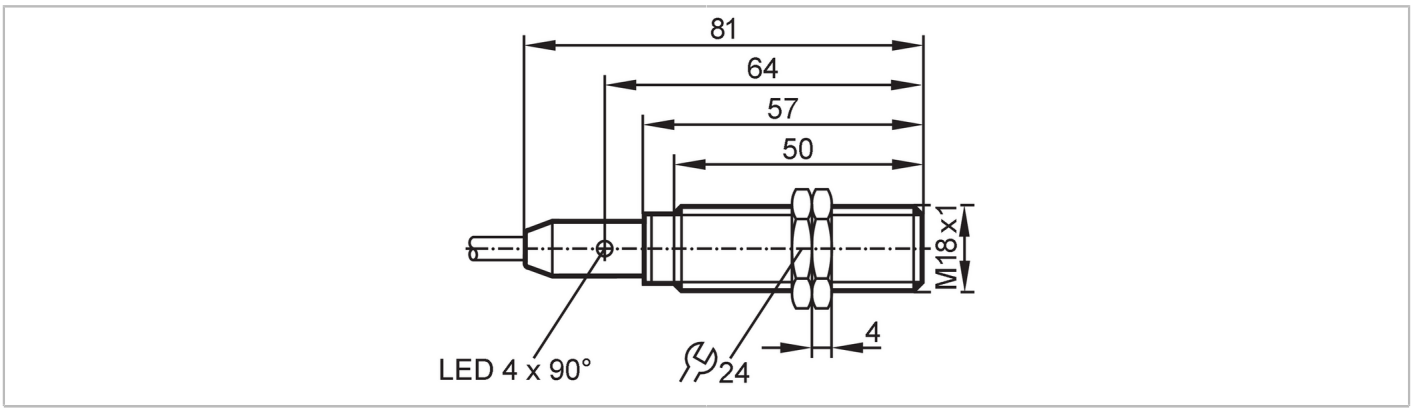
IGM202

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

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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 immunity: 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]	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	
Materials		housing: stainless steel; sensing face: LCP; lock nuts: brass	
Displays / operating elements			
Display		switching status	4 x 90° LED, yellow

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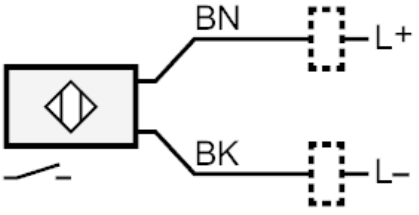
Accessories	
Items supplied	lock nuts: 2

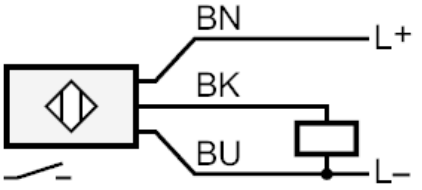
Remarks	
Pack quantity	1 pcs.

Electrical connection

Cable: 6 m, PUR, Ø 5.4 mm; burning behaviour to ECE R118 rev. 2; 3 x 0.5 mm²

Connection





Core colours :

BK = black
BN = brown
BU = blue