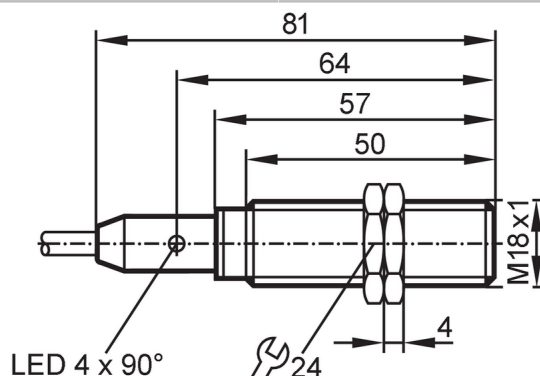


IGM215



Inductive sensor

IGKC008BATKG/M/0.8M/PH



Product characteristics

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

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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		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							
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							
Mechanical data									
Weight [g]		87.2							
Mounting		flush mountable							
Dimensions [mm]		M18 x 1 / L = 81							
Thread designation		M18 x 1							
Material		housing: stainless steel (1.4404 / 316L); sensing face: LCP							
Tightening torque [Nm]		50							
Displays / operating elements									
Display		Switching status		4 x 90° LED, yellow					
Accessories									
Items supplied		lock nuts: 2							
Remarks									
Pack quantity		1 pcs.							

IGM215



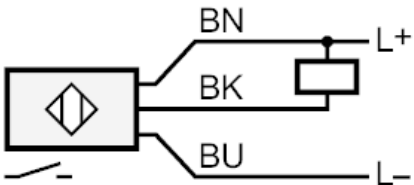
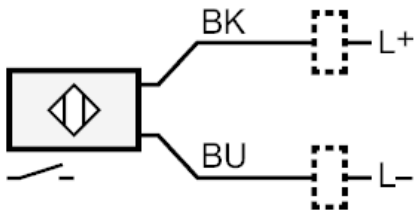
Inductive sensor

IGKC008BATKG/M/0.8M/PH

Electrical connection

Cable: 0.8 m, PUR; burning behaviour to ECE R118 rev. 2; 3 x 0.5 mm²

Connection



	Core colors
BK	black
BN	brown
BU	blue