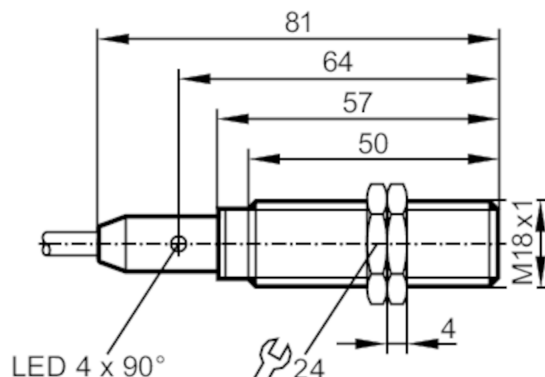


Inductive sensor

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	pulsed
Overload protection	yes

Detection zone

Sensing range [mm]	8
Operating distance [mm]	0...6.48



Inductive sensor

IGKC008BATKG/M/0.8M/PH

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	noise immunity according to DIN ISO 11452-2 100 V/m
	conducted interference acc. to ISO 7637-2
	pulse
	severity level
	failure criterion
	EN 61000-4-2 ESD
	EN 61000-4-3 HF radiated
	EN 61000-4-4 Burst
	EN 61000-4-5 Surge
	EN 61000-4-6 HF conducted
Continuous shock resistance	EN 55011
	EN 60068-2-27
Fast temperature change	EN 60068-2-14 Na
Salt spray test	EN 60068-2-52 Kb
MTTF [years]	1192
Mechanical data	
Weight [g]	87.2
Mounting	flush mountable
Dimensions [mm]	M18 x 1 / L = 81
Thread designation	M18 x 1
Materials	housing: stainless steel (316L/1.4404); 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



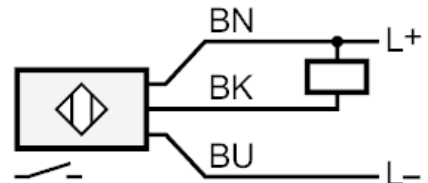
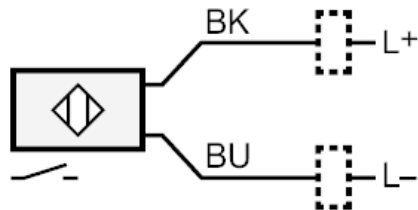
Inductive sensor

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 colours
BK	black
BN	brown
BU	blue