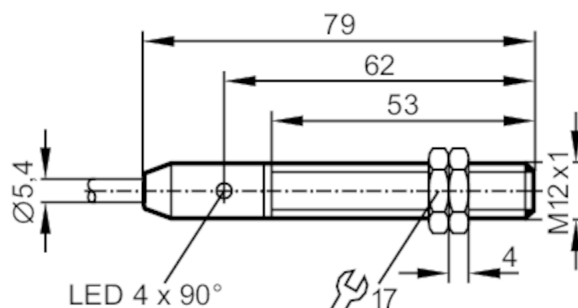




Inductive sensor

IFKC004BASKG/M/60V/8M/ZH

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Product characteristics

Electrical design	PNP/NPN
Output function	normally open
Sensing range [mm]	4
Housing	Threaded type
Dimensions [mm]	M12 x 1 / L = 79

Application

System	Increased sensing range
Application	Use in mobile and harsh applications

Electrical data

Operating voltage [V]	10...60 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; (100 mA)
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]	200
Switching frequency DC [Hz]	400
Short-circuit protection	yes
Type of short-circuit protection	yes (non-latching)
Overload protection	yes

Monitoring range

Sensing range [mm]	4
Operating distance [mm]	0...3.24



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Increased sensing range	yes						
Accuracy / deviations							
Correction factor	steel: 1 / stainless steel: 0.7 / brass: 0.5 / aluminum: 0.5 / copper: 0.4						
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 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					
Vibration resistance	EN 60068-2-6 Fc	20 g (10...3000 Hz) / -20...50 °C					
		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 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)					
Mechanical data							
Weight [g]	0.327						
Housing	Threaded type						
Mounting	flush mountable						
Dimensions [mm]	M12 x 1 / L = 79						
Thread designation	M12 x 1						
Material	housing: stainless steel; sensing face: PBT; LED window: PEI; lock nuts: brass						
Displays / operating elements							
Display	Switching status	4 x 90° LED, yellow					
Accessories							
Items supplied	lock nuts: 2						
Remarks							
Pack quantity	1 pcs.						

IFM219



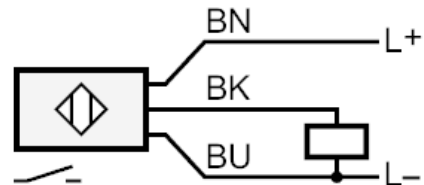
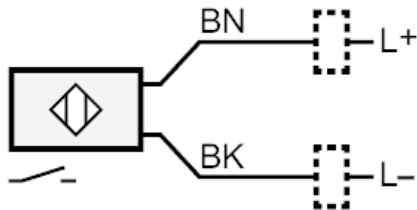
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Electrical connection

Cable: 8 m, PUR, Ø 5.4 mm; 3 x 0.5 mm²

Connection



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