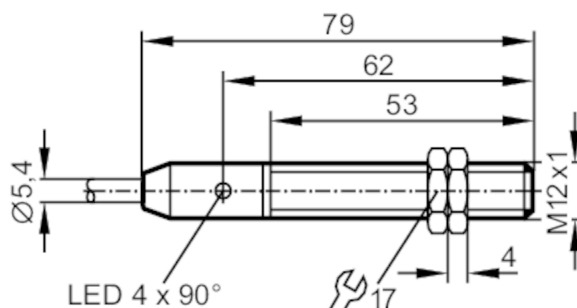




Inductive sensor

IFKC004BASKG/M/60V/8M/ZH

Article no longer available - archive entry



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

Special feature	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	pulsed
Overload protection	yes

Detection zone

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 / aluminium: 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 interference 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, 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)				
Mechanical data						
Weight [g]	0.327					
Housing	threaded type					
Mounting	flush mountable					
Dimensions [mm]	M12 x 1 / L = 79					
Thread designation	M12 x 1					
Materials	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



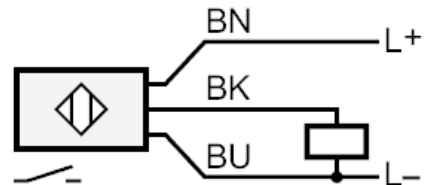
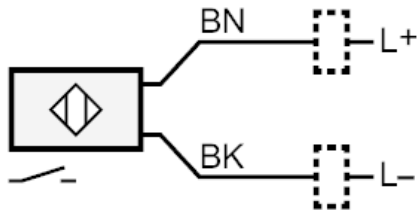
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Electrical connection

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

Connection



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