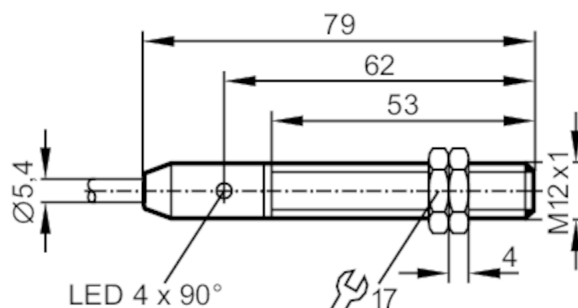




Inductive sensor

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

Special feature	Increased sensing range
Application	Застосування в рухомій техніці та складних умовах

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 [X01]		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				
Аксессуары								
Items supplied	lock nuts: 2							
Remarks								
Pack quantity	1 pcs.							



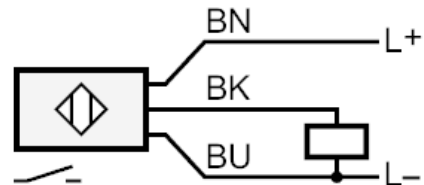
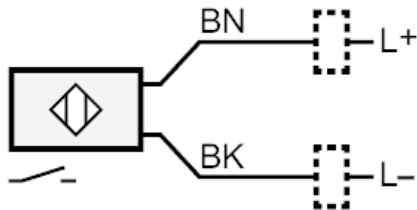
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Electrical connection

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

Connection



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