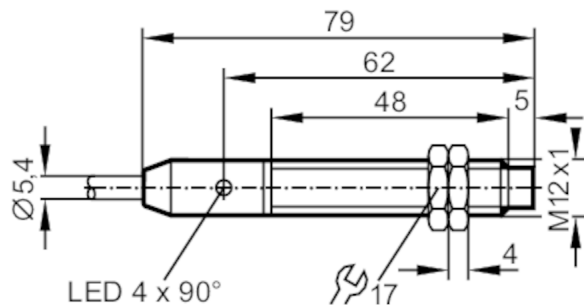


IFM210



Inductive sensor

IFK3007-BPKG/M/60V/6M/ZH



Product characteristics

Electrical design	PNP
Output function	normally open
Sensing range [mm]	7
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
Protection class	II
Reverse polarity protection	yes

Outputs

Electrical design	PNP
Output function	normally open
Max. voltage drop switching output DC [V]	2.5
Permanent current rating of switching output DC [mA]	200
Switching frequency DC [Hz]	300
Short-circuit protection	yes
Type of short-circuit protection	pulsed
Overload protection	yes

Detection zone

Sensing range [mm]	7
Real sensing range Sr [mm]	7 ± 10 %
Operating distance [mm]	0...5.67
Increased sensing range	yes



Inductive sensor

IFK3007-BPKG/M/60V/6M/ZH

Accuracy / deviations		
Correction factor		steel: 1 / stainless steel: 0.7 / brass: 0.5 / aluminium: 0.5 / copper: 0.4
Hysteresis	[X01]	1...20
Switch point drift	[X01]	-10...10
Operating conditions		
Ambient temperature	[°C]	-40...85
Protection		IP 67; IP 69K
Tests / approvals		
EMC	automotive area	
	noise emission and noise interference: ECE R10	E1 type approval
	noise immunity according to DIN ISO 11452-2	100 V/m
	conducted interference in 24 V networks to ISO 7637-2: 2004 (pulse 1 to 4) and ISO16750-2: 2012 (load dump)	
	pulse	1 2a 2b 3a 3b 4 Load dump
	severity level	III III III III III Test A
	failure criterion	C A C A A C 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 mains line to line
	EN 61000-4-6 HF conducted	10 V
	EN 55011	class B
	Vibration resistance	EN 60068-2-6 Fc
		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)
MTTF	[ANN]	666
UL approval	Ta	0...40 °C
	Enclosure type	Type 1
	подача напруги	Hazardous voltage
	File number UL	E174191
Mechanical data		
Weight	[g]	283
Housing		threaded type
Mounting		non-flush mountable
Dimensions	[mm]	M12 x 1 / L = 79
Thread designation		M12 x 1
Materials		housing: stainless steel; sensing face: LCP natural; LED window: PEI; lock nuts: brass

IFM210



Inductive sensor

IFK3007-BPKG/M/60V/6M/ZH

Displays / operating elements

Display	switching status	4 x 90° LED, yellow
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Аксессуары

Items supplied	lock nuts: 2
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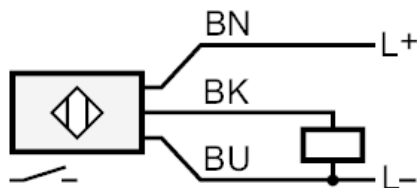
Remarks

Pack quantity	1 pcs.
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Electrical connection

Cable: 6 m, PUR; burning behaviour to ECE R118 rev. 2; 3 x 0.5 mm²

Connection



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