KK7004

Capacitive sensor

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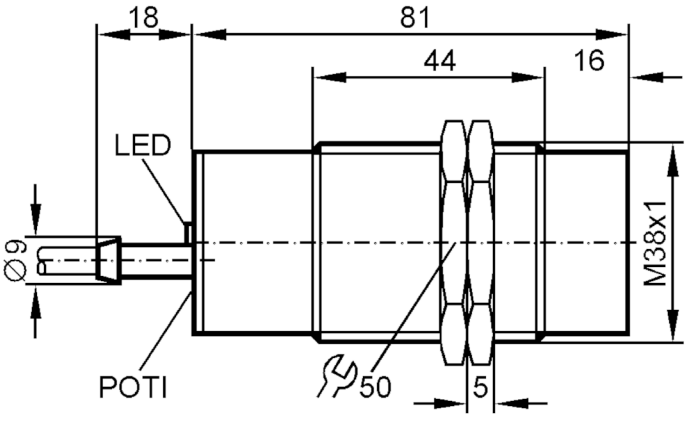

CE

Product characteristics		
Electrical design		PNP
Output function		normally open
Sensing range	[mm]	4...20
Housing		threaded type
Dimensions	[mm]	M38 x 1.5
Electrical data		
Operating voltage	[V]	10...36 DC
Current consumption	[mA]	10; (24 V)
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]	250
Switching frequency DC	[Hz]	40
Short-circuit protection		yes
Type of short-circuit protection		pulsed
Overload protection		yes

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Detection zone			
Sensing range	[mm]	4...20	
Sensing range adjustable		yes	
Factory setting sensing range	[mm]	20	
Real sensing range Sr	[mm]	20 ± 10 %	
Operating distance	[mm]	0...16.2	
Accuracy / deviations			
Correction factor		glass: 0.4 / water: 1 / ceramics: 0.2 / PVC: 0.2	
Hysteresis	[% of Sr]	1...15	
Switch point drift	[% of Sr]	-15...15	
Operating conditions			
Ambient temperature	[°C]	-25...80	
Protection		IP 65	
Tests / approvals			
EMC		EN 60947-5-2	
Mechanical data			
Housing		threaded type	
Mounting		non-flush mountable	
Dimensions	[mm]	M38 x 1.5	
Thread designation		M38 x 1.5	
Materials		brass white bronze coated; PBT	
Displays / operating elements			
Display		switching status	1 x LED, yellow
Accessories			
Items supplied		lock nuts: 2	
		screwdriver: 1	
Remarks			
Pack quantity		1 pcs.	

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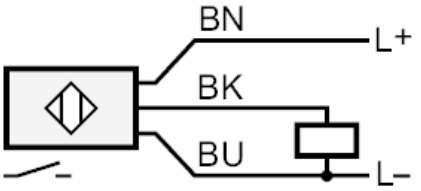
Electrical connection

Cable: 6 m, PVC; 3 x 0.5 mm²

Connection



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