

KB5008

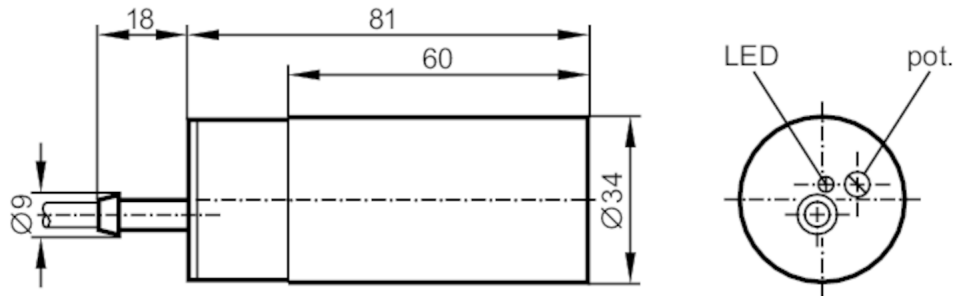


Capacitive sensor

KB-3020-APKG/NI/6M

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Discontinuation date: 31.03.2017



Product characteristics

Electrical design		PNP
Output function		normally closed
Sensing range	[mm]	3...20
Housing		cylindrical
Dimensions	[mm]	Ø 34 / L = 81

Electrical data

Operating voltage	[V]	10...36 DC
Current consumption	[mA]	13; (24 V)
Protection class		II
Reverse polarity protection		yes

Outputs

Electrical design		PNP
Output function		normally closed
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 proof		yes
Overload protection		yes

Detection zone

Sensing range	[mm]	3...20
Sensing range adjustable		yes
Factory setting sensing range	[mm]	20
Real sensing range Sr	[mm]	20 ± 10 %
Operating distance	[mm]	0...16.2

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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...70	
Protection	IP 65	
Increased immunity	yes; (increased immunity to conducted radio frequency interference)	
Tests / approvals		
EMC	EN 60947-5-2	
MTTF [years]	778	
Mechanical data		
Weight [g]	0.425	
Housing	cylindrical	
Mounting	non-flush mountable	
Dimensions [mm]	Ø 34 / L = 81	
Materials	PBT	
Displays / operating elements		
Display	switching status	1 x LED, yellow
Accessories		
Accessories (supplied)	Mounting clamps: 1 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 :

BN = brown
BU = blue
BK = black

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