



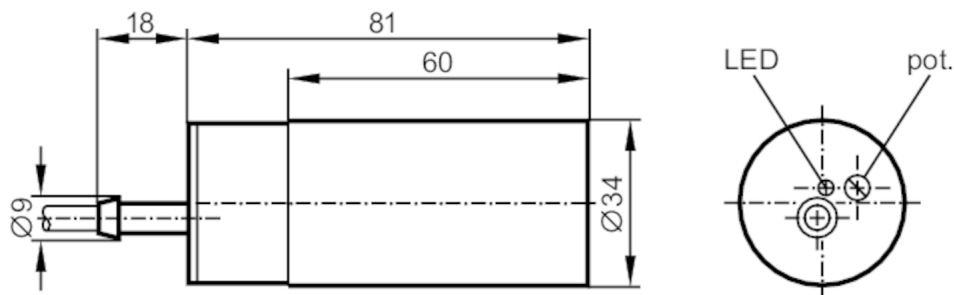
Capacitive sensor

KB-3020-APKG/NI

Article no longer available - archive entry

Alternative articles: KI5301 + E10077

When selecting an alternative article and accessories please note that technical data may differ!



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

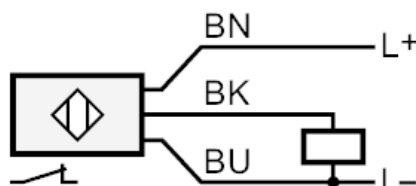
Sensing range [mm]	3...20
Sensing range adjustable	yes
Factory setting sensing range [mm]	20
Real sensing range S_r [mm]	$20 \pm 10 \%$
Operating distance [mm]	0...16.2



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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	
Mechanical data			
Weight		[g]	253.4
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			
Items supplied		Mounting clamps: 1	
		screwdriver: 1	
Remarks			
Pack quantity		1 pcs.	
Electrical connection			
Cable: 2 m, PVC; 3 x 0.5 mm²			
Connection			



Core colours :

BN = brown

BU = blue

BK = black