



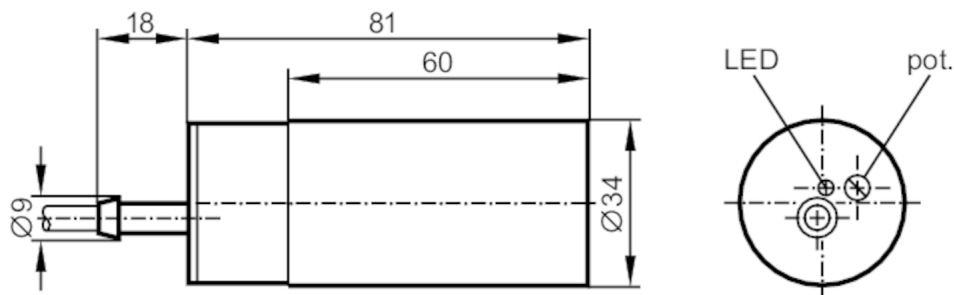
## Capacitive sensor

KB-3020-BNKG/NI

Article no longer available - archive entry

Alternative articles: KI5302 + E10077

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



## Product characteristics

Electrical design	NPN
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	NPN
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

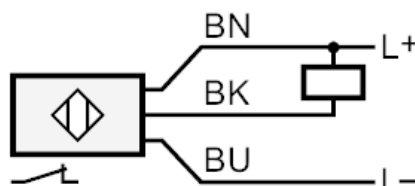
Sensing range [mm]	3...20
Sensing range adjustable	yes
Factory setting sensing range [mm]	20
Real sensing range $S_r$ [mm]	$20 \pm 10 \%$
Operating distance [mm]	0...16.2



## Capacitive sensor

KB-3020-BNKG/NI

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]	255
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