

KB5003

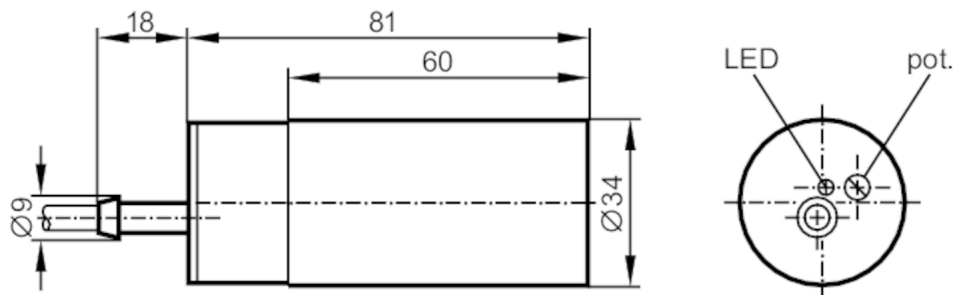
Capacitive sensor

KB-3020-BNKG/NI



Status Archive

/KI5302+E10077



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 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

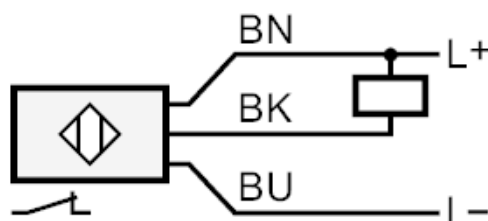
Ambient temperature	[°C]	-25...70
Protection		IP 65
Increased immunity		yes; (increased immunity to conducted radio frequency interference)



Capacitive sensor

KB-3020-BNKG/NI

Tests / approvals		
EMC	EN 60947-5-2	
MTTF	[years]	739
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		
Accessories (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

Status Archive

/KI5302+E10077