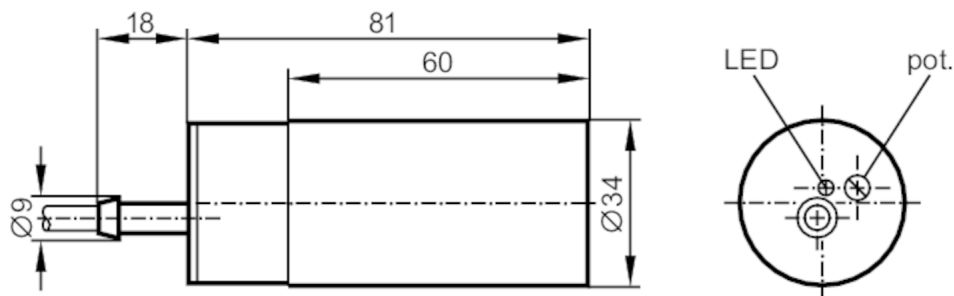




## Capacitive sensor

KB-3020-BPKG/NI/6M

Article to be discontinued



## Product characteristics

Electrical design	PNP
Output function	normally open
Sensing range [mm]	3...20
Housing	tubular
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 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 proof	yes
Overload protection	yes

## Monitoring range

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

## Accuracy / deviations

Correction factor	glass: 0.4 / water: 1 / ceramics: 0.2 / PVC: 0.2
Hysteresis [% of $S_r$ ]	1...15

# KB5014



## Capacitive sensor

KB-3020-BPKG/NI/6M

Switch-point drift	[% of Sr]	-15...15
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### 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]	425.2
Housing		tubular
Mounting		non-flush mountable
Dimensions	[mm]	Ø 34 / L = 81
Material		PBT

### Displays / operating elements

Display	Switching status	1 x LED, yellow
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### Accessories

Items supplied	Mounting clamp: 1
	screwdriver: 1

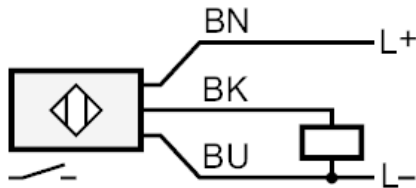
### Remarks

Pack quantity	1 pcs.
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### Electrical connection

Cable: 6 m, PVC; 3 x 0.5 mm<sup>2</sup>

### Connection



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