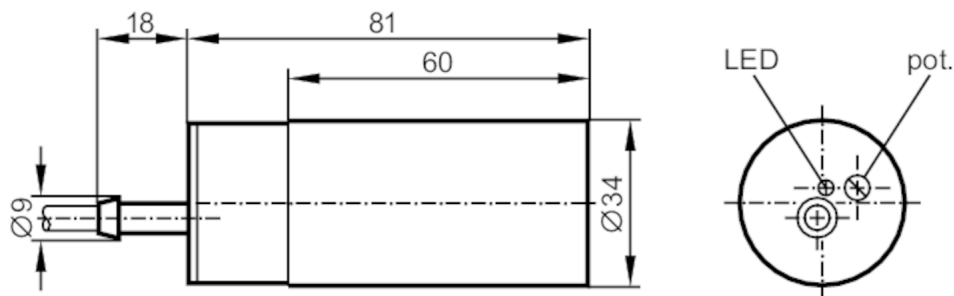


## Capacitive sensor

KB-3020-APKG/NI/6M

Article no longer available - archive entry



## 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

## Accuracy / deviations

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

**Capacitive sensor**

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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	
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**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
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**Accessories**

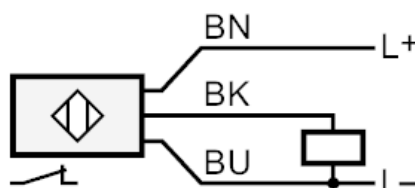
Items supplied	Mounting clamps: 1 screwdriver: 1
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**Remarks**

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