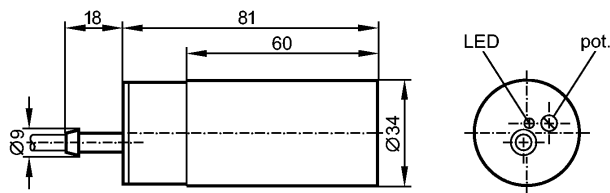


**KB5004**

KB-3020-BPKG/NI

Capacitive sensors


**Product characteristics**

Capacitive sensor
Plastic housing Ø 34 mm
Cable
Increased immunity to conducted radio frequency interference
Sensing range 20 mm; adjustable 3...20 mm; [nf] non-flush mountable

**Electrical data**

Electrical design	DC PNP
Operating voltage [V]	10...36 DC
Current consumption [mA]	13 (24 V)
Protection class	II
Reverse polarity protection	yes

**Outputs**

Output function	normally open
Voltage drop [V]	< 2.5
Current rating [mA]	250
Short-circuit protection	yes (non-latching)
Overload protection	yes
Switching frequency [Hz]	40

**Monitoring range**

Sensing range [mm]	20, adjustable 3...20 mm
Real sensing range (Sr) [mm]	20 ± 10 %
Operating distance [mm]	0...16.2

**Accuracy / deviations**

Correction factors	water = 1 / glass approx. 0.4 / ceramics approx. 0.2 / PVC approx. 0.2
Hysteresis [% of Sr]	1...15
Switch-point drift [% of Sr]	-15...15

**Environment**

Ambient temperature [°C]	-25...70
Protection	IP 65

**Tests / approvals**

EMC	IEC 60947-5-2:	2007
MTTF [Years]		778

**Mechanical data**

Mounting	non-flush mountable
Housing materials	PBT
Weight [kg]	0.255

**KB5004**

KB-3020-BPKG/NI

Capacitive sensors

**Displays / operating elements**

Output status indication      LED      yellow

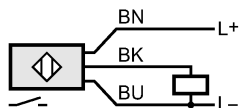
**Electrical connection**

Connection      PVC cable / 2 m; 3 x 0.5 mm<sup>2</sup>

**Wiring**

Core colors

- BN    brown
- BU    blue
- BK    black



**Accessories**

Accessories (included)      Mounting clamp; screwdriver

**Remarks**

Pack quantity      [piece]      1