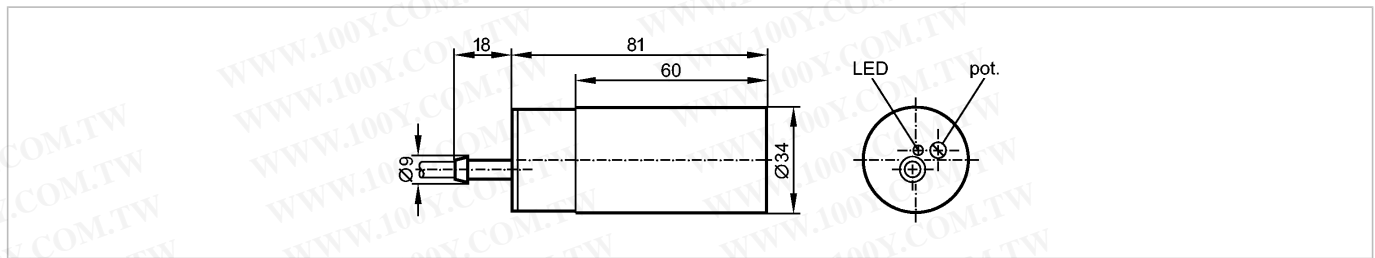


**KB5004**

KB-3020-BPKG/NI

Capacitive sensors



Made in Germany



Product characteristics	
Capacitive sensor	
Plastic housing $\varnothing$ 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	pulsed
Overload protection	yes
Switching frequency [Hz]	40
Range	
Sensing range [mm]	20, adjustable 3...20 mm
Real sensing range (Sr) [mm]	$20 \pm 10\%$
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	EN 60947-5-2
MTTF [Years]	778
Mechanical data	
Mounting	non-flush mountable
Housing materials	PBT
Weight [kg]	0.255
Displays / operating elements	

**KB5004**

KB-3020-BPKG/NI

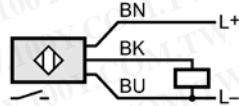
Output status indication LED yellow

**Electrical connection**

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

**Wiring**

Core colours  
 BN brown  
 BU blue  
 BK black



**Accessories**

Accessories (included) Mounting clamp; screwdriver

**Remarks**

Pack quantity [piece] 1