

**efectoriso**
**ifm electronic**

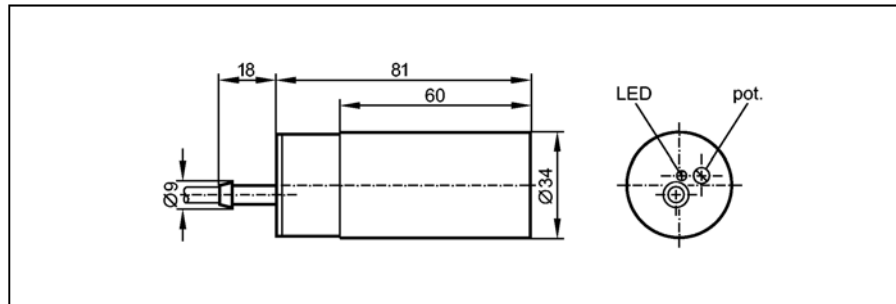

Capacitive sensors

## KB5003

KB-3020-BNKG/NI  
Capacitive sensor  
Plastic housing  $\varnothing$  34 mm  
Cable

Increased immunity to conducted radio  
frequency interference

Sensing range 20 mm [nf]  
adjustable 3...20 mm  
non-flush mountable



Made in Germany

Electrical design	DC NPN
<b>Output</b>	<b>normally closed</b>
Operating voltage [V]	10...36 DC
Current rating [mA]	250
Short-circuit protection	pulsed
Reverse polarity protection	yes
Overload protection	yes
Voltage drop [V]	< 2.5
Current consumption [mA]	< 13 (24 V)
Real sensing range [mm]	20 $\pm$ 10 %
Operating distance [mm]	0...16.2
Switch-point drift [% of Sr]	-15...15
Hysteresis [% of Sr]	1...15
Switching frequency [Hz]	40
Correction factors	water = 1 / glass approx. 0.4 / ceramics approx. 0.2 / PVC approx. 0.2
Ambient temperature [°C]	-25...70
Protection	IP 65, II
EMC	EN 60947-5-2
Housing materials	PBT
Function display	
Switching status LED	yellow
Connection	PVC cable / 2 m; 3 x 0.5 mm <sup>2</sup>
Weight [kg]	0.244
Accessories (included)	Mounting clamp, screwdriver

### Wiring

#### Core colours

BN brown  
BU blue  
BK black

