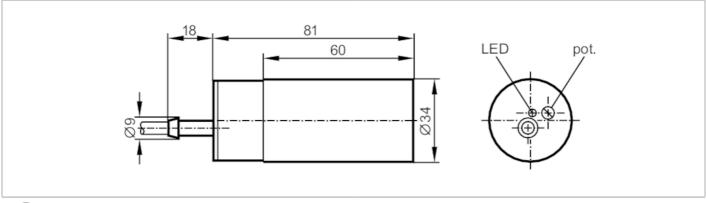
## **KB0029**

## **Capacitive sensor**

KB-2020-BBOA/NI







Product characteristics		
Output function		normally closed
Sensing range	[mm]	320
Housing		tubular
Dimensions	[mm]	Ø 34 / L = 81
Electrical data		
Operating voltage	[V]	20250 AC/DC
Protection class		II
Reverse polarity protection		no
Outputs		
Output function		normally closed
Max. voltage drop switching output DC	[V]	8
Max. voltage drop switching output AC	[V]	10
Minimum load current	[mA]	5
Max. leakage current	[mA]	2.5 (250 V AC) / 1.7 (110 V AC) / 1.5 (24 V DC)
Permanent current rating of switching output AC	[mA]	200; (for UL application: 250 / 100 DC)
Permanent current rating of switching output DC	[mA]	200; (for UL application: 250 AC / 100 DC)
Short-time current rating of switching output	[mA]	1500; (20 ms / 0,5 Hz)
Switching frequency AC	[Hz]	25
Switching frequency DC	[Hz]	40
Short-circuit proof		no
Overload protection		no
Monitoring range		
Sensing range	[mm]	320
Sensing range adjustable		yes
Factory setting sensing range	[mm]	20
Real sensing range Sr	[mm]	20 ± 10 %
Operating distance	[mm]	016.2

# **KB0029**

## **Capacitive sensor**





Accuracy / deviations		
Correction factor		glass: 0.4 / water: 1 / ceramics: 0.2 / PVC: 0.2
Hysteresis	[% of Sr]	115
Switch-point drift	[% of Sr]	-1515
Operating conditions		
Ambient temperature	[°C]	-2570
Protection		IP 65
Increased immunity		yes; (Increased immunity to conducted radio frequency interference)
Tests / approvals		
EMC		EN 60947-5-2
MTTF	[years]	488
Mechanical data		
Weight	[g]	258.5
Housing		tubular
Mounting		non-flush mountable
Dimensions	[mm]	Ø 34 / L = 81
Material		РВТ
Displays / operating ele	ments	
Display		Switching status 1 x LED, yellow
Electrical connection		
Required protection		miniature fuse to IEC60127-2 sheet 1; $\leq$ 2 A; fast acting
Accessories		
Items supplied		Mounting clamp: 2
		cylinder screws: 2
		spring discs: 2
Remarks		
Remarks		Recommendation: check the unit for reliable function after a short circuit.
Pack quantity		1 pcs.

## **KB0029**

#### **Capacitive sensor**

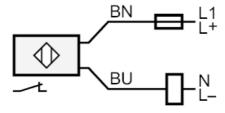
KB-2020-BBOA/NI



#### Electrical connection

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

#### Connection



Note miniature fuse to IEC60127-2 sheet  $1 \le 2$  A fast acting

Core colors:

BN = brown BU = blue