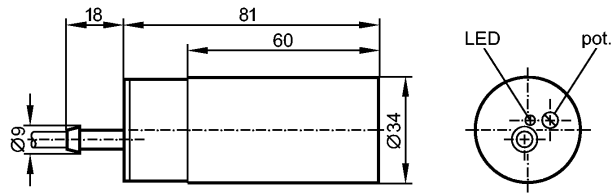


KB5004

KB-3020-BPKG/NI

Capacitive sensors



Made in Germany



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	pulsed
Overload protection	yes
Switching frequency [Hz]	40

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	EN 60947-5-2
MTTF [Years]	778

Mechanical data

Mounting	non-flush mountable
Housing materials	PBT
Weight [kg]	0.253

Displays / operating elements

KB5004

KB-3020-BPKG/NI

Capacitive sensors

Output status indication LED yellow

Electrical connection

Connection PVC cable / 2 m; 3 x 0.5 mm²

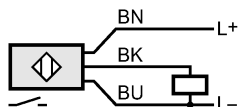
Wiring

Core colours

BN brown

BU blue

BK black



Accessories

Accessories (included) Mounting clamp; screwdriver

Remarks

Pack quantity [piece] 1