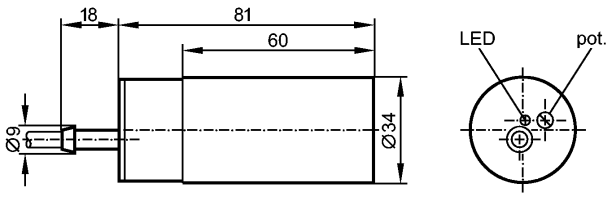
efectorISO

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		IEC 60947-5-2: 2007
MTTF	[Years]	778
Mechanical data		
Mounting		non-flush mountable
Housing materials		PBT
Weight	[kg]	0.255

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Capacitive sensors

Displays / operating elements

Output status indication	LED	yellow

Electrical connection

Connection	PVC cable / 2 m; 3 x 0.5 mm²

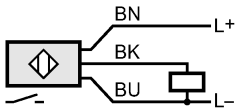
Wiring

Core colours

BN brown

BU blue

BK black



Accessories

Accessories (included)	Mounting clamp; screwdriver

Remarks

Pack quantity	[piece]	1