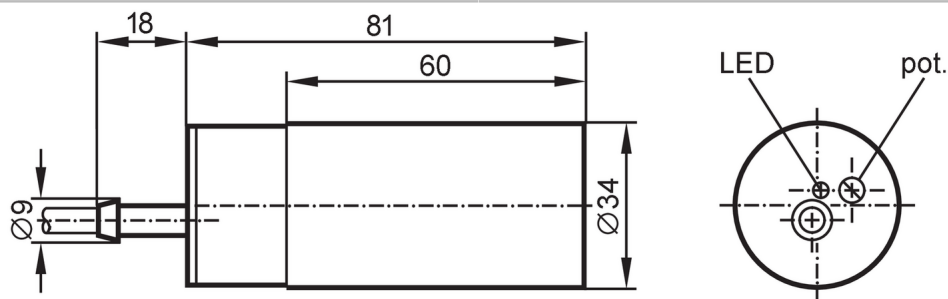




Capacitive sensor

KB-2020-ABOA/NI



Product characteristics

Output function	normally open
Sensing range [mm]	3...20
Housing	cylindrical
Dimensions [mm]	Ø 34 / L = 81

Electrical data

Operating voltage [V]	20...250 AC/DC
Protection class	II
Reverse polarity protection	no

Outputs

Output function	normally open
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

Detection zone

Sensing range [mm]	3...20
Sensing range adjustable	yes
Factory setting sensing range [mm]	20
Real sensing range S_r [mm]	$20 \pm 10 \%$
Operating distance [mm]	0...16.2

Accuracy / deviations

Correction factor	glass: 0.4 / water: 1 / ceramics: 0.2 / PVC: 0.2
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Capacitive sensor

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Hysteresis	[% of Sr]	1...15
Switch point drift	[% of Sr]	-15...15

Operating conditions		
Ambient temperature	[°C]	-25...70
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]	284.5
Housing		cylindrical
Mounting		non-flush mountable
Dimensions	[mm]	Ø 34 / L = 81
Materials		housing: PBT; Sealing: TPE-E; end cap: PC

Displays / operating elements		
Display	switching status	1 x LED, yellow

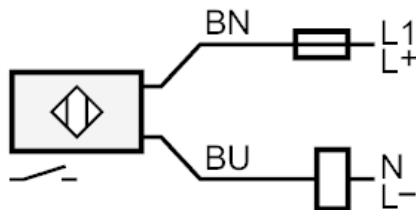
Electrical connection		
Required protection		miniature fuse to IEC60127-2 sheet 1; ≤ 2 A; fast acting

Accessories		
Items supplied		Mounting clamps: 2
		cylinder screws: 2
		spring discs: 2

Remarks		
Remarks		Recommendation: Check the safe functioning of the unit after a short circuit.
Pack quantity		1 pcs.

Electrical connection		
Cable: 2 m, PVC; 2 x 0.5 mm²		

Connection		
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Note miniature fuse to IEC60127-2 sheet 1 ≤ 2 A fast acting
Core colours :
BN = brown
BU = blue