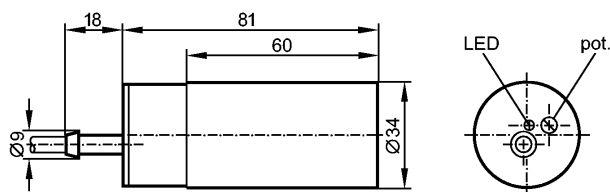


KB0025

KB-2020-ABOA/NI

Capacitive sensors


Made in Germany

Product characteristics

Capacitive sensor
 Plastic housing \varnothing 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		AC/DC
Operating voltage	[V]	20...250 AC/DC
Protection class		II
Reverse polarity protection		no

Outputs

Output function		normally open
Voltage drop	[V]	< 10 AC / < 8 DC
Minimum load current	[mA]	5
Leakage current	[mA]	< 2.5 (250 V AC) / < 1.7 (110 V AC) / < 1.5 (24 V DC)

Current rating

- Current rating (continuous)	[mA]	250 (...50 °C) / 200 (...70 °C)
- Current rating (peak)	[mA]	\hat{I} : 1.5 A (20 ms / 0.5 Hz)
Short-circuit proof		no
Overload protection		no
Switching frequency	[Hz]	25 AC / 40 DC

Range

Sensing range	[mm]	20, adjustable 3...20 mm
Real sensing range (Sr)	[mm]	20 \pm 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]	302

Mechanical data

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Capacitive sensors

Mounting	non-flush mountable
Housing materials	PBT
Weight [kg]	0.25

Displays / operating elements

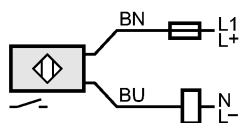
Output status indication	LED	yellow
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Electrical connection

Connection	PVC cable / 2 m; 2 x 0.5 mm ²
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Wiring

Core colours
 BN brown
 BU blue



Note: miniature fuse to IEC60127-2 sheet 1, ≤ 2 A (fast acting)

Accessories

Accessories (included)	Mounting clamp; screwdriver; Head cap screw; spring washer
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Remarks

Remarks	Recommendation: check the unit for reliable function after a short circuit.
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Pack quantity [piece]	1
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