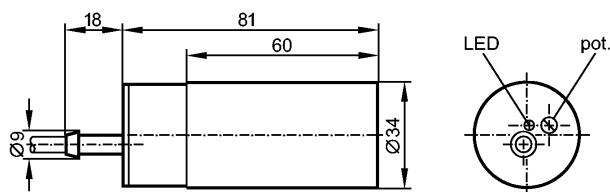


KB0025

KB-2020-ABOA/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	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]	î: 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 ± 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:	1997 + A1: 1999 + A2: 2003
MTTF [Years]		302

Mechanical data

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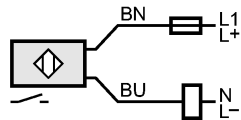
Mounting	non-flush mountable
Housing materials	PBT
Weight [kg]	0.25

Displays / operating elements	
Output status indication	LED yellow

Electrical connection	
Connection	PVC cable / 2 m; 2 x 0.5 mm ²

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

Remarks	
Remarks	Recommendation: check the unit for reliable function after a short circuit.

Pack quantity [piece]	1
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