

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]

200; für UL-Applikation: 250 AC / 100 DC

- 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

Monitoring 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]

488

Mechanical data

Mounting

non-flush mountable

Housing materials

PBT

Weight [kg]

0.249

Displays / operating elements

Output status indication LED

red

Electrical connection

Connection

PVC cable / 2 m; 2 x 0.5 mm²

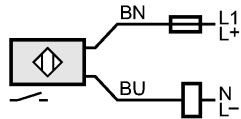
KB0041 - Capacitive sensor - eclass: 27270102 / 27-27-01-02

Wiring

Core colors

BN brown

BU blue



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

Accessories

Accessories (included)

Mounting clamp; screwdriver; spring washer; Head cap screw

Remarks

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

Pack quantity

[piece]

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