

1) Sensing surface, 2) Potentiometer, 3) NO or NC selectable, 4) LED function indicator



### Basic features

<b>Additional features</b>	Electrically conductive media Foam and residue compensation
<b>Approval/Conformity</b>	CE UKCA cULus WEEE
<b>Basic standard</b>	IEC 60947-5-2
<b>Sensitivity</b>	media-dependent, adjustable
<b>Series</b>	D50

### Electrical connection

<b>Cable length L</b>	2 m
<b>Conductor cross-section</b>	0.25 mm <sup>2</sup>
<b>Number of conductors</b>	3
<b>Polarity reversal protected</b>	yes
<b>Protection against device mix-ups</b>	yes
<b>Short-circuit protection</b>	yes

### Electrical data

<b>Operating voltage U<sub>b</sub></b>	10...35 VDC
<b>Rated insulation voltage U<sub>i</sub></b>	75 V DC
<b>Rated operating current I<sub>e</sub></b>	100 mA
<b>Ripple max. (% of U<sub>e</sub>)</b>	10 %
<b>Switching frequency</b>	2 Hz
<b>Utilization category</b>	DC -13
<b>Voltage drop static max.</b>	1.8 V

### Environmental conditions

<b>Ambient temperature</b>	-10...60 °C
<b>IP rating</b>	IP67

### Interface

<b>Switching output</b>	PNP NO/NC programmable
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### Material

<b>Cover material</b>	POM
<b>Housing material</b>	POM
<b>Material jacket</b>	PVC
<b>Material sensing surface</b>	POM

### Mechanical data

<b>Dimension</b>	Ø 50 x 10 mm
<b>Installation</b>	flush with container outer wall
<b>Size</b>	D50.0

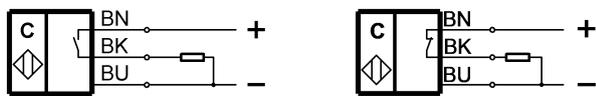
## Remarks

Note for using in standard applications with aqueous media: The Smart Level sensors are factory adjusted for standard applications. With this setting the Smart Level sensors can be used without further adjustment for detecting aqueous media through glass or plastic walls. The factory setting can automatically mask glass or plastic walls (approx. 0.5 mm to 6 mm) and compensate for foam, moisture and dirt buildup inside and outside the container. Special applications: The Smart Level sensors can also be used with aqueous media in previously unsolvable and critical applications such as through glass or plastic walls thicker than 6 mm. Here the user can change the factory setting.

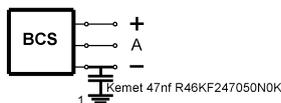
The potentiometer does not have a fixed stop, but can be turned endlessly without destroying anything.

If no change in the switching signal is detected, the potentiometer should be turned forwards or backwards until a signal change occurs at the output.

## Wiring Diagrams (Schematic)



## Installation remarks



1) Machine GND