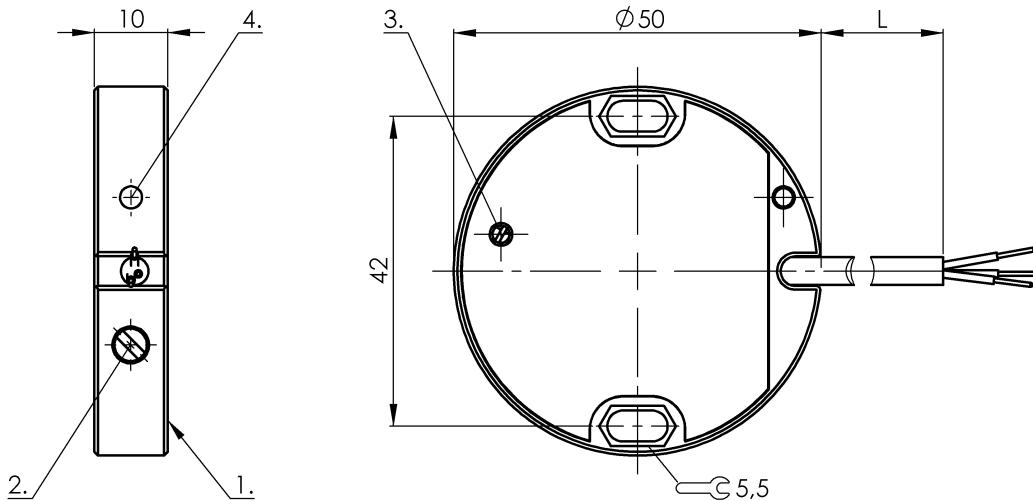


Capacitive Sensors

BCS D500004-PPCFAC-EV02

Order Code: BCS0084

BALLUFF

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



Basic features

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

Electrical connection

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

Electrical data

Operating voltage Ub	10...35 VDC
Rated insulation voltage Ui	75 V DC
Rated operating current Ie	100 mA
Ripple max. (% of Ue)	10 %
Switching frequency	2 Hz
Utilization category	DC -13
Voltage drop static max.	1.8 V

Environmental conditions

Ambient temperature	-10...60 °C
IP rating	IP67

Interface

Switching output	PNP NO/NC programmable
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Material

Cover material	POM
Housing material	POM
Material jacket	PVC
Material sensing surface	POM

Mechanical data

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

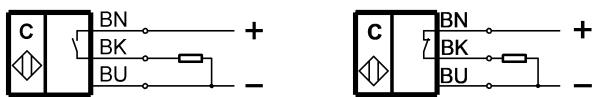
Remarks

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.

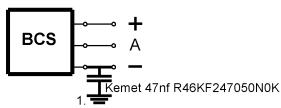
The potentiometer does not have a fixed stop, but can be turned endlessly without destroying anything.

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



Installation remarks



1) Machine GND