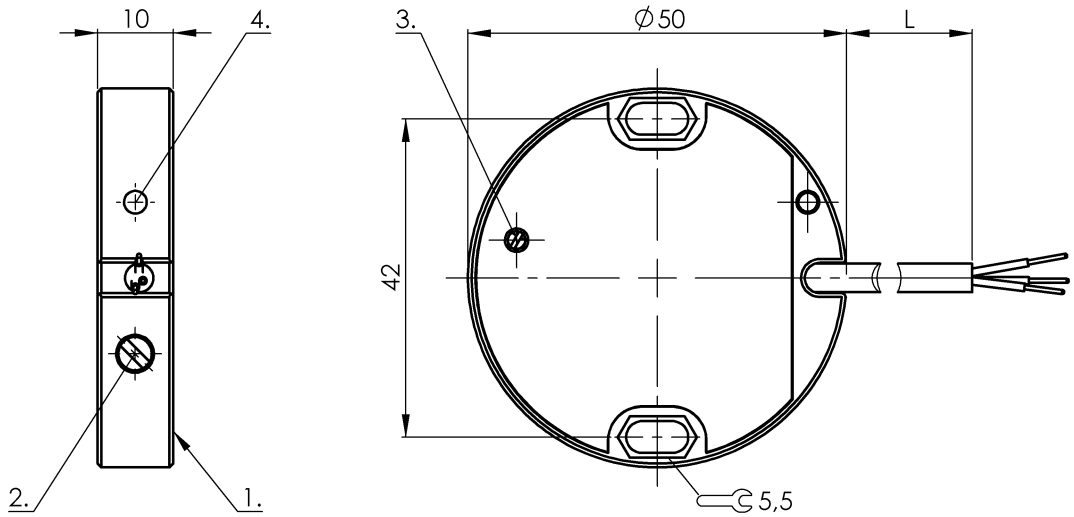
BCS D50OO04-PPCFAC-EV02
Order code: BCS0084

Capacitive Sensor
? x ? x D50.0 x 10,0 mm

Level Sensor
DC, direct current
PNP / Output programmable
Flush (shielded)

BALLUFF
sensors worldwide



1) Active surface 2) Pot 3) NO or NC selectable 4) LED function indicator

Sensing data

Eff. operating distance Sr	?
Tolerance Sr	?
Assured operating distance Sa	?
Working range Sa min.	?
Working range Sa max.	?
Hysteresis H max. (in % of Sr)	?
Repeat accur. R max. (% of Sr)	?
Ambient temperature Ta min.	-10 °C
Ambient temperature Ta max.	60 °C
Temp. drift max. (% of Sr)	?
Temp. drift max. of span	?
Switching freq. f max. (at Ue)	2 Hz
Ready delay tv max.	?
Utilization category	DC 13
Function indicator	?
Power indicator	?
Additional features	?

Electrical data

Eff. operating voltage Ue DC	?
Operating voltage UB min. DC	10,0 V
Operating voltage UB max. DC	35,0 V
Ripple max. (% of Ue)	10 %
Voltage drop static max.	1,8 V
Rated insulation voltage Ui	75 DC
Eff. operating current Ie	300 mA
Minimum operating current Im	?
No-load current Io damped	20,0 mA
No-load current Io undamped	?
Off-state current Ir max.	?
Short circuit protected	Yes
Protected against miswiring	Yes
Polarity reversal protected	?
Rated short circuit current	?
Load capacitance max. (at Ue)	?

Mechanical data

Sensing face material	POM
Housing material	POM
Cover material	POM
Surface protection	?
Thread (A)	?
Tightening torque	?
Mounting length	?
Connection type	Cable
Cable jacket material	PVC
Cable diameter D max.	?
Cable short description	?
Cable length (L)	2,00 m
Number of conductors	3
Conductor cross-section	0.25 mm²
Enclosure Type per IEC 60529	IP67
Protection Class	?
Shock rating	?
Vibration rating	?
Degree of contamination	?

Approval

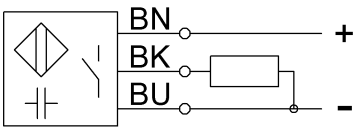
Approvals	CE

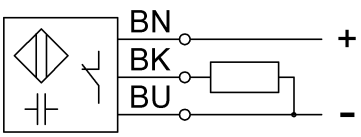
Remarks

Base type deviation	?
Scope of delivery	?
Correction factor	?

Application notes for water based media:

The Smart Level Sensors have been adjusted in the factory for standard applications. With this setting, the Smart Level Sensors are suitable for detecting water based liquids through glass or plastic walls without any further adjustment. The factory setting can automatically mask out glass or plastic walls(approx. 0.5 mm to 6 mm), and compensates within wide limits for foam, moisture and material build up to the inside and outside of the tank concerned.





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