

CSS-02A liquid-level sensor user manual

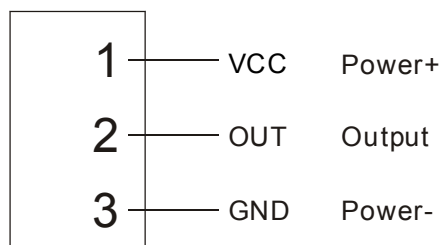
I. Product Characteristic

- ① Electron-contactless inducing sensor is applied to be installed outside of the container without direct contact with the liquid. It is not eroded by the superacid and alkali liquid and also is not affected by the scale.
- ② Liquid level status is displayed by LED.
- ③ High stabilization & sensitivity, good anti-jamming and no interference by outside electromagnetism. It fits for the using under complex environment.
- ④ Mightiness compatibility, it can penetrate various of non-metal material containers, such as Plastic, glass, ceramic and other containers. Its inducing length can reach 10 mm, and it can detect liquid, powder and grain object.
- ⑤ Output with open collector which is applied to every kind of control circuit. Max output current for 30mAC

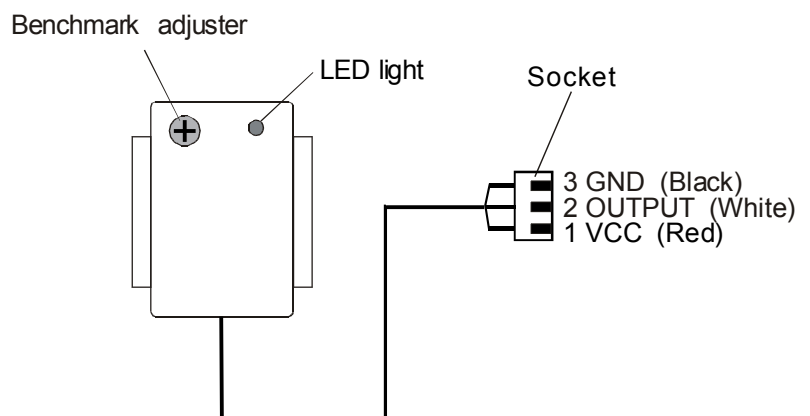
II. Specification parameter

Item	Parameter	Unit	
Working voltage VCC	5	V	
Exterior working voltage Vdd	5~24	V	
Consuming current	5	mA	
Output voltage Voh (Hi)	Vdd	V	
Output voltage Vol (Lo)	0.5	V	
Output current Iol (Lo)	30	mA	
Responding time	0.5	Sec	
Working temperature	0~60	°C	

III. Connection and application

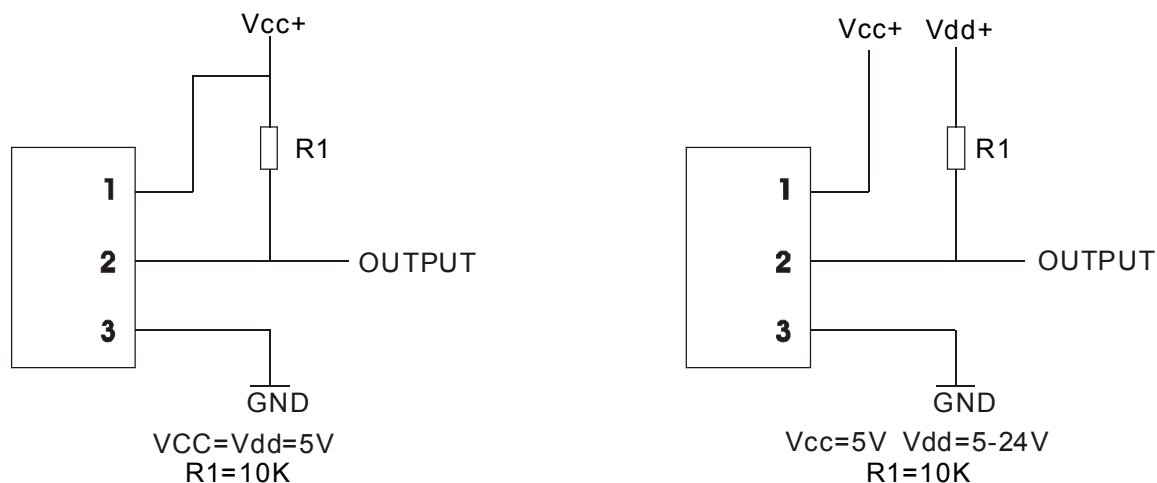


Connection drawing



Product description

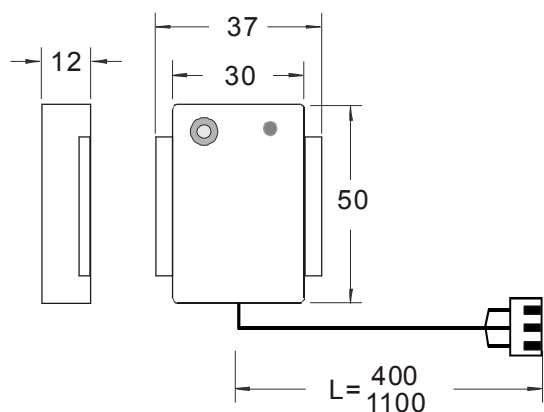
Application drawing



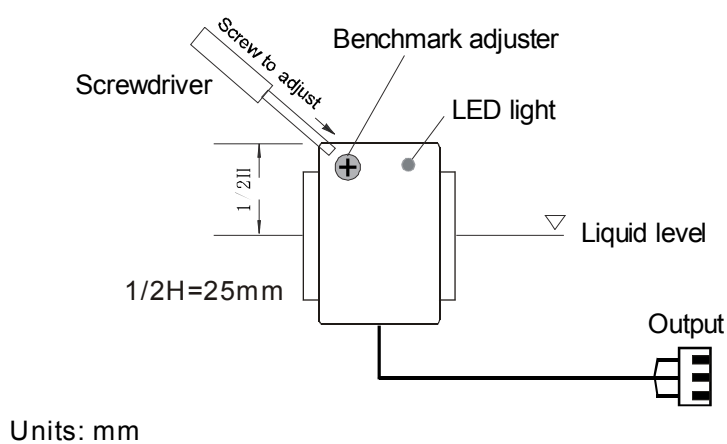
IV. User manual

- ① Make sure the power wiring is correct before using. It should be connected to the output part and pull up the resistance R1.
- ② Surface of the inducing sensor must cling to the container side. Use the resin glue or the double side tape to fix. The down-lead is fetched out from netherward.
- ③ The used container must be nonmetal and insulated, such as glass, plastic, ceramic and so on non-dielectric material.
- ④ The liquid level benchmark should lie in the centerline of the vertical direction of the inducing sensor during installation. After installation, the working liquid level ON/OFF should deviate within 10mm. If go beyond the requirement, use the special tool to adjust again.
- ⑤ Benchmark adjustment method

Surface of the inducing of the sensor clings to the container side and the liquid level lies in the centerline of the vertical direction of the inducing sensor. Take away the QC label, Use a irresponsive screwdriver to adjust the resistor inside the adjustment hole on the top-left of the sensor. When the LED light turns on from the off state that means adjustment is completed.



Size drawing



Benchmark adjustment description

V. Exterior size 50×37×12mm

VI. If you have problems during using, you can't disassemble the products by yourself. Please dismantle the entire sensor and return back to the manufacturer to repair.