

CSS-03A water level sensor user manual

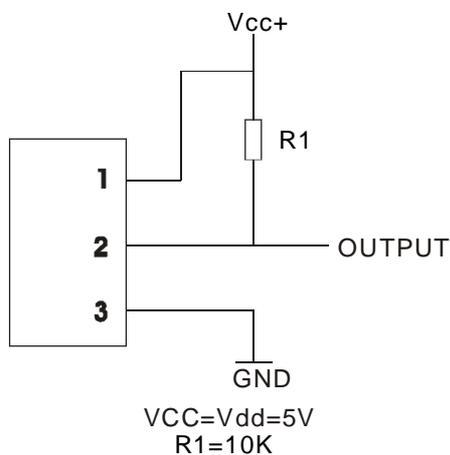
I . Product characteristic

- 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 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 container. Its inducing length can reach 10mm, and it can detect Liquid, powder & grain object. Small size that is paste and use. Fit to use to detect the liquidi level Of the pipe.
- ⑤ Output with open collector which is applied to every kind of control circuit. Max output current is 30 mA.

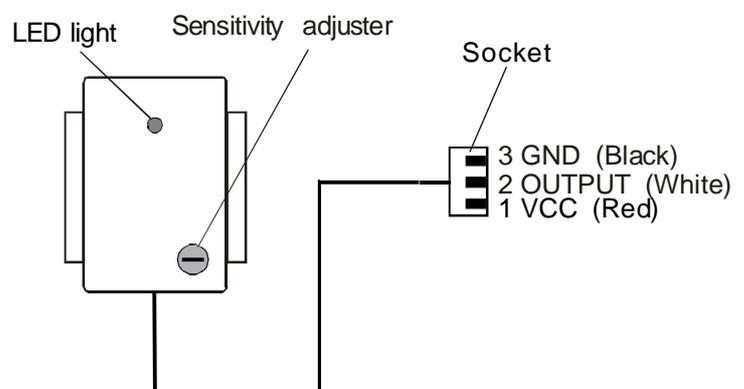
II . Specification parameter

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



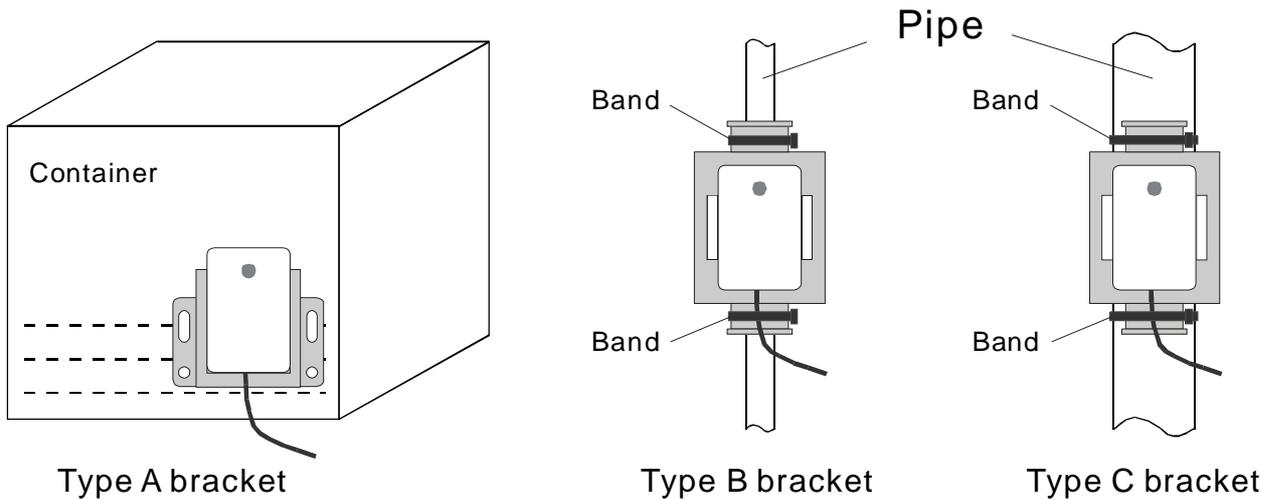
Connection drawing



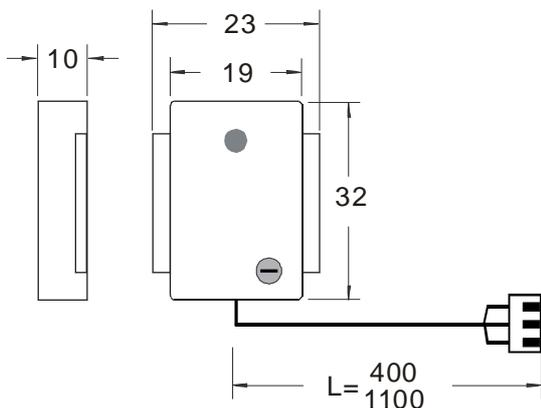
Product description

IV. User manual

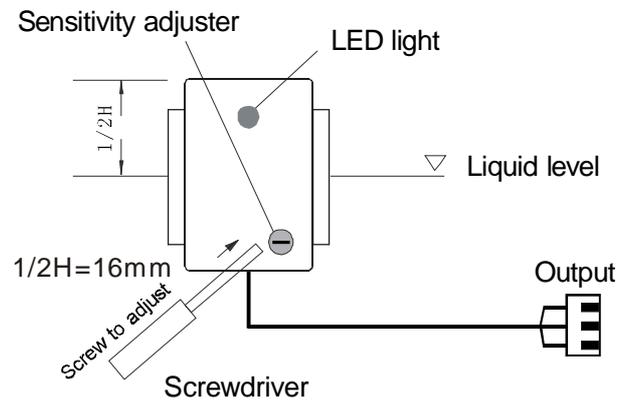
- ① Make sure the power wiring is correct before using. It should be connected to the output part and pull up the resistance R1.
- ② The sensor can use in the nonmetal container such as plastic, glass, ceramic also in the pipe. That can use double side tape or bracket to fix the sensor on the surface of container side when installation. Use type B or type C bracket to fit the pipe size with $\varnothing 8-12\text{mm}$ or $\varnothing 12-26\text{mm}$ when use the sensor to detect the liquid level of the pipe as below:



- ③ The liquid level benchmark should lie in the central line 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.
- ④ Sensibility adjustment method
Take away the QC label, Use a responsive 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



Unit: mm

Sensitivity adjustment description

V. Exterior size 30×19×10mm

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.

Non-contact liquid level sensor



Size: 30×19×10mm
Working volt: 5V/12~24V
Output Amp: 30mA

Small size fit to detect
the liquid level of the pipe
Pipe size: 8-26mm



Non-contact liquid level sensor

Size: 30×19×10mm
Working volt: 5V/12~24V
Output Amp: 30mA