

Icstation Non-contact Liquid Level Sensor Switch NPN Output

Features

- 1.It is applicable to non-metal outer wall, not necessary to directly contact with liquid, so that it can avoid liquid corrosion of strong acid or alkali, or the influence by scale or other impurities.
- 2.Intelligent liquid level benchmark adjustment and liquid level memory function. It can achieve multi-point serial connection and support NPN output.
- 3.Accurate and stable detection, it can detect boiling water liquid surface. With pure electronic structure and non-mechanical operation way, it has stable performance and long life.
- 4.High stability, high sensitivity, strong anti-interference capacity. it will not be affected by power frequency interference and common mode interference due to special disposals so as to compatible with 5-24V power adapter.
- 5.Strong compatibility, and it can penetrate into non-metal tube, such as plastic, glass, ceramic etc. Its sensing tube wall thickness can be up to 20mm and it is applicable to different shapes of container or tube level's liquid level detection.

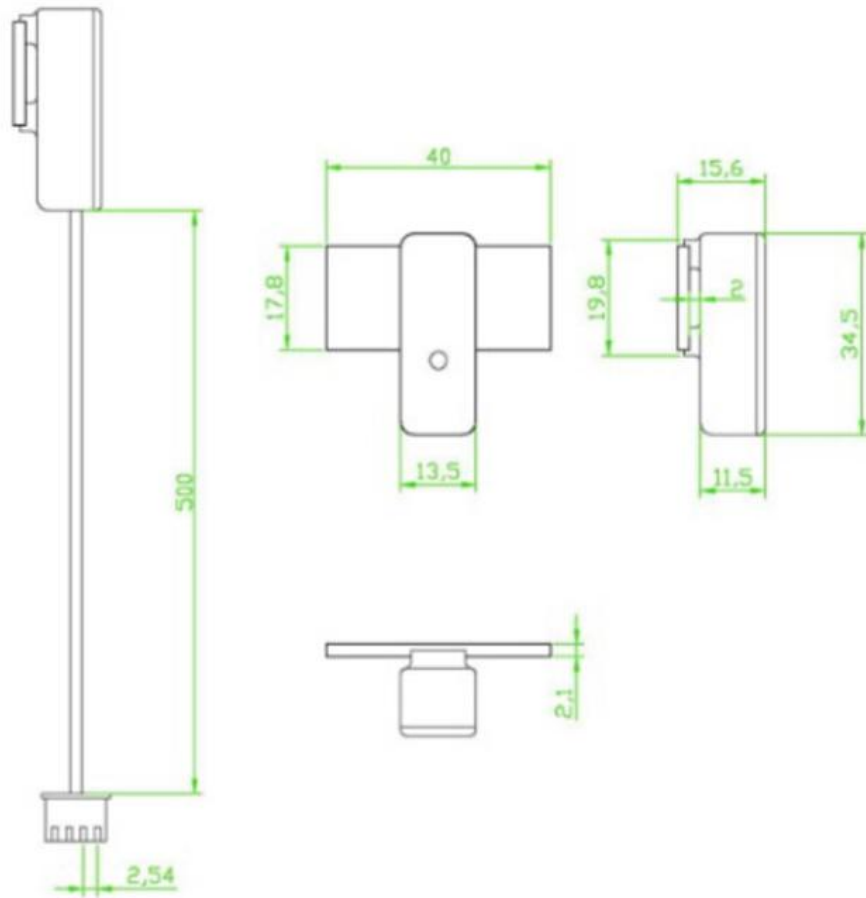
Operating Principle:

Intelligent non-contact liquid level sensor is for detecting whether there is liquid by water induction capacitor.

When there is no liquid to approach the sensor, sensor will generate certain static capacitance because of the capacitor distribution; when the liquid rises slowly to approach the sensor, the liquid parasitic capacitor will coupling to this static capacitor so that the terminal capacitance of sensor will increase.

The changing capacitance signal will be input to control IC and achieve signal switch, then transform the changing capacitance value into variation of certain electric signal. By using certain algorithm to detect and judge the degree of the variation, when the variation has surpassed certain threshold value, then it means the liquid level reaches sensing point.

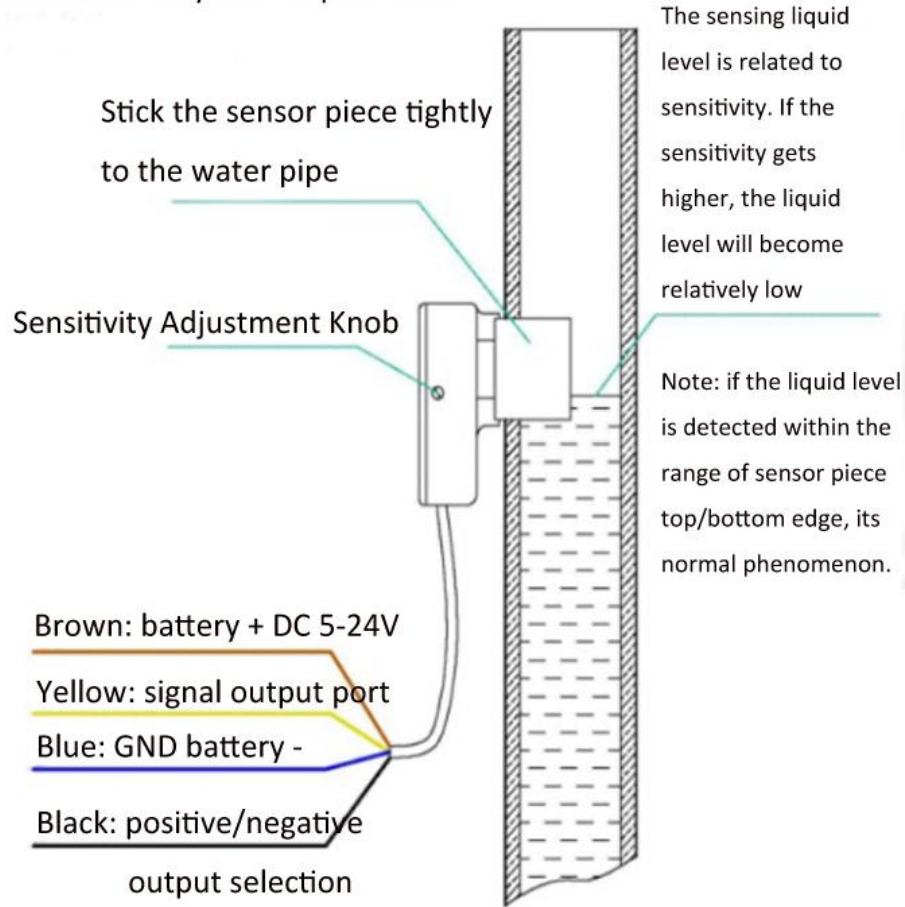




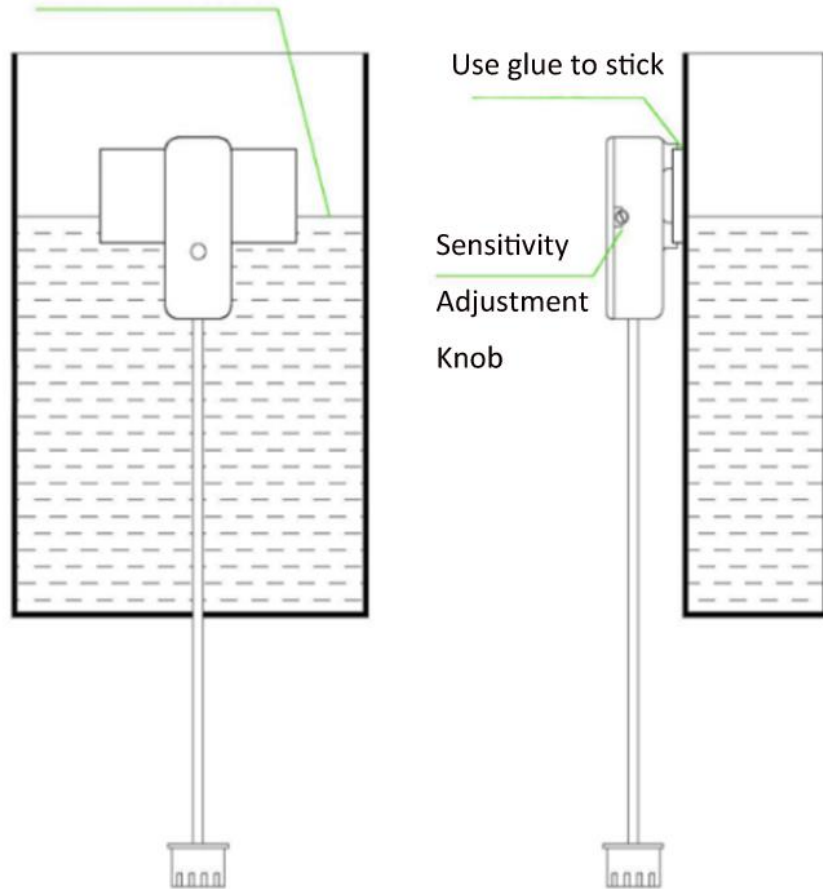
Product Introduction:

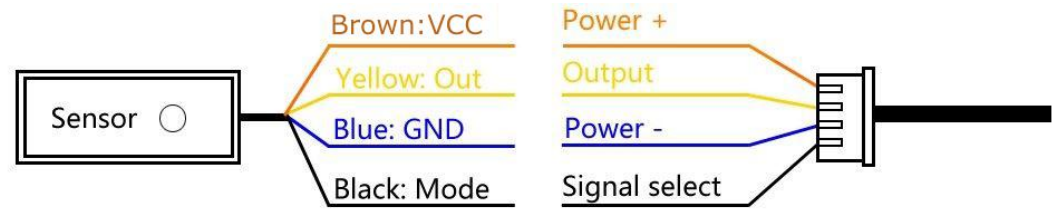
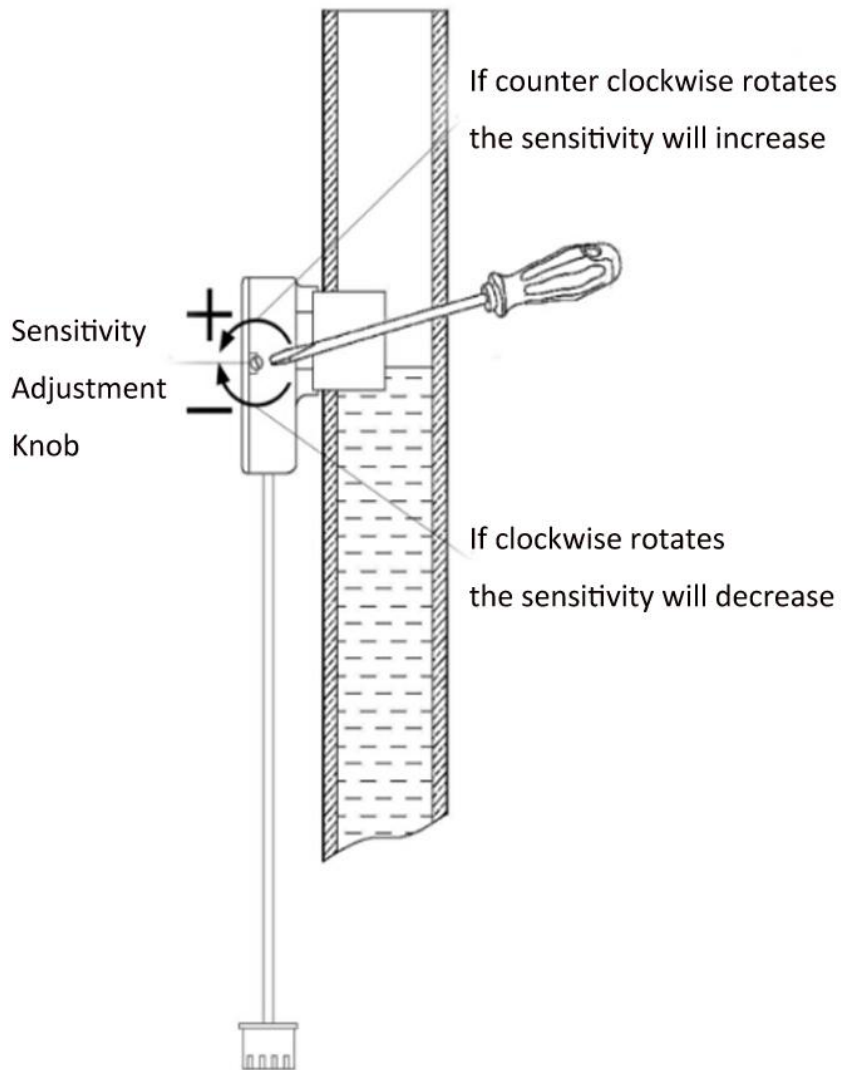
- 1.Model: XKC-Y26-NPN
- 2.Input Voltage: DC 5-24V (Suggest DC 5-12V)
- 3.Power Consumption: 5mA
- 4.Output Voltage (high level): V_{in}
- 5.Output Voltage (low level): 0V
- 6.Output Current: 1-100mA
- 7.Response Time: 500ms
- 8.Operating Ambient Temperature: 0~85 Celsius
- 9.Sensor Sensitivity: tube outer diameter (D:mm); sensor max tube wall (L:mm)
D \geq 100; 20 \pm 2
100 $>$ D \geq 80; 15 \pm 2
80 $>$ D \geq 60; 12 \pm 1.5
60 $>$ D \geq 40; 7 \pm 1.0
40 $>$ D \geq 30; 5 \pm 1.0
30 $>$ D \geq 20; 3 \pm 1.0
20 $>$ D \geq 10; 1.5 \pm 0.5
- 10.Applicable Tube Diameter Range: \geq 10mm
- 11.Liquid Error: \pm 1.5mm
- 12.Humidity: 5%-100%
- 13.Material: ABS
- 14.Waterproof Performance: IP65

Installation Way and Requirements

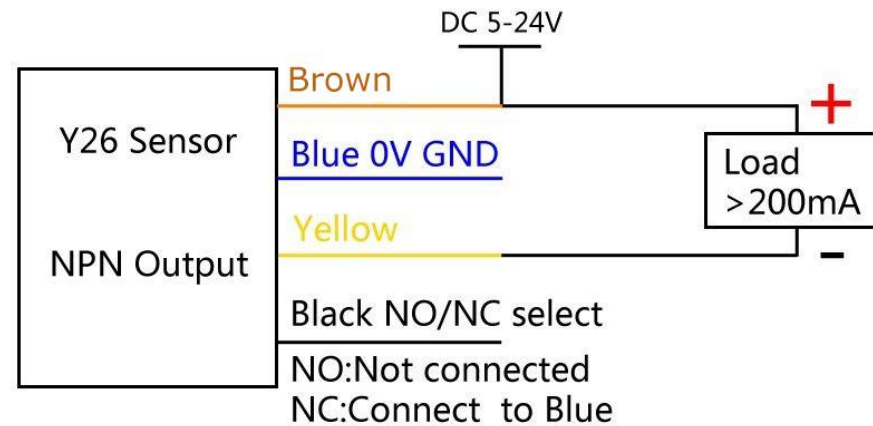


The sensing liquid level height is related to sensitivity





Forward/NO Output: Black Hanging;
Reverse/NC Output: Black connect to Blue cable.



NPN Output: Received an induction signal and output a low level.

NO: The sensor senses the liquid level and outputs a low level.

NC: The sensor does not sense the liquid level and outputs a low level.

NOTE:

1. The Load can be Relay, Buzzer, Speaker, LED indicator;
2. The maximum output current is 200mA;
3. Pay attention to the polarity of the load and power supply.

Substantial and Specialized Supplier:

- ✓ ICStation has 9 years experience about electronic industry products
 - ✓ Millions of inventory and thousands of items
 - ✓ Employ engineers to provide technical assistance
- ✓ After-sales service, all customers' email will be follow up in 12 hours even in holidays
 - ✓ Take charge of all defective items by provide replacement or refund service
- ✓ Looking forward to your inquiry and hope to built long term cooperation relationship with you!

