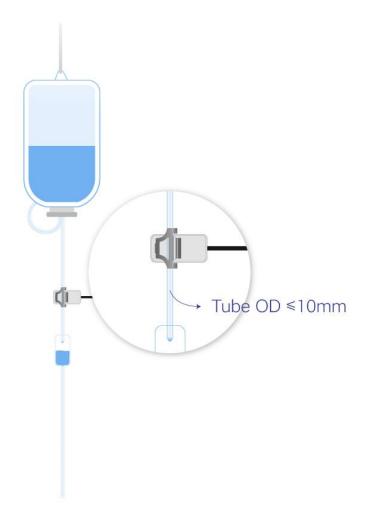
#### Introduction

This is a non-contact liquid level sensor with a status indicator and adjustable sensitivity. It is especially suitable for detecting the liquid level of all sorts of non-metal tubes(outer diameter D≤10MM). The status feedback of the sensor can be given in real-time. Besides that, the sensor comes with a 4pin sensor adaptor that can directly collect digital signal, convenient for connecting with <u>Arduino</u> or other main-controllers.

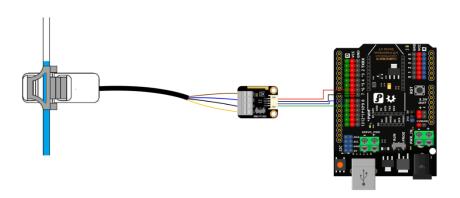
This liquid level sensor can be widely used in liquid detection of water dispenser, small pipes, and perfusion tubes.



This non-contact liquid level sensor is developed on advanced signal process technology by high-speed signal processing chip. It can measure the liquid level of a closed container and it will not be affected by corrosive liquids like strong acid and alkali, or other impurities.

## **Working Principle**

A Non-contact liquid level sensor is used for detecting whether there is liquid by water induction capacitor. When there is no liquid approaching the sensor, there will be some certain static capacitance to ground on the sensor due to the presence of distributed capacitance. When the liquid level rises slowly to approach the sensor, the liquid parasitic capacitor will be coupled to the static capacitance so that the final capacitance value will increase. The changed capacitance signal will be input to the control IC for signal conversion, by which to transform the changed capacitance value into the variation of the certain electric signal. Then the degree of the variation can be detected and determined through specific algorithms. When the variation exceeds a threshold value, it means the liquid level reaches the sensing point.



#### **Features**

- High stability and sensitivity
- Adjustable sensitivity
- With status indicator

### **Specification**

Power Supply: 5~24V

Output: switch quantity

• Response Time: 500ms

Operating Temperature: -5~105°C

• Suitable Pipe Diameter: ≤10mm

• Liquid Level Error: ±1.5mm

Material: ABS

• Waterproof Performance: **IP65** 

## **Documents**

Product Wiki

# **Shipping List**

Non-contact Capacitive Liquid Level Sensor for Tube OD≤10mm x1

Gravity: 4Pin Sensor Adapter x1

Screwdriver x1

<u>Arduino</u>

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