## Contactless Liquid Level Detector XKC-Y26-PNP

Technical Manual Rev 1r0



Intelligent contactless level sensor/detector adopts advanced signal processing technology and high speed signal processing chip, the container thickness will be less relevant to the level measuring, and to the level height of the sealed container, the real non-contact measurement is realized. The level sensor will be mounted in the high/low of the outer container



## **General Specifications:**

This sensor is the most ideal level measuring sensor for various toxic material, strong acid, strong alkali and various liquid in the high pressure sealed container. There will be no special requirements for the liquid medium and vessel material, it's widely used.

Power Input: 5V ~ 24VDC Current Consumption: 200uA Output Voltage (HIGH): 5~24VDC

Output Current: 1~100mA Response Time: 500ms

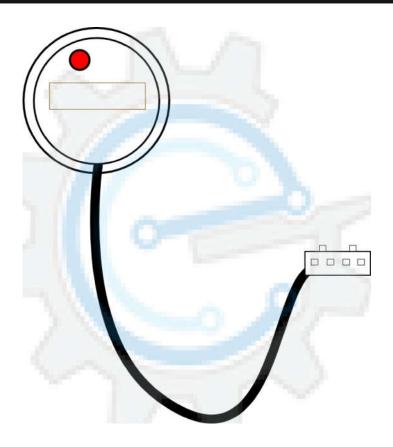
Working Temperature: 0-100 degress Celcius

Induction Thickness Range: 0-22mm

Humidity: 5%-100% Protection Grade: IP67

**Dimensions:** 25.4mm x 28.2mm x 16.8mm





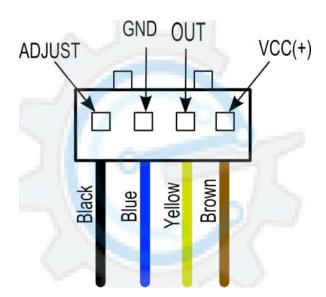


Figure 1. Liquid level detector pinouts



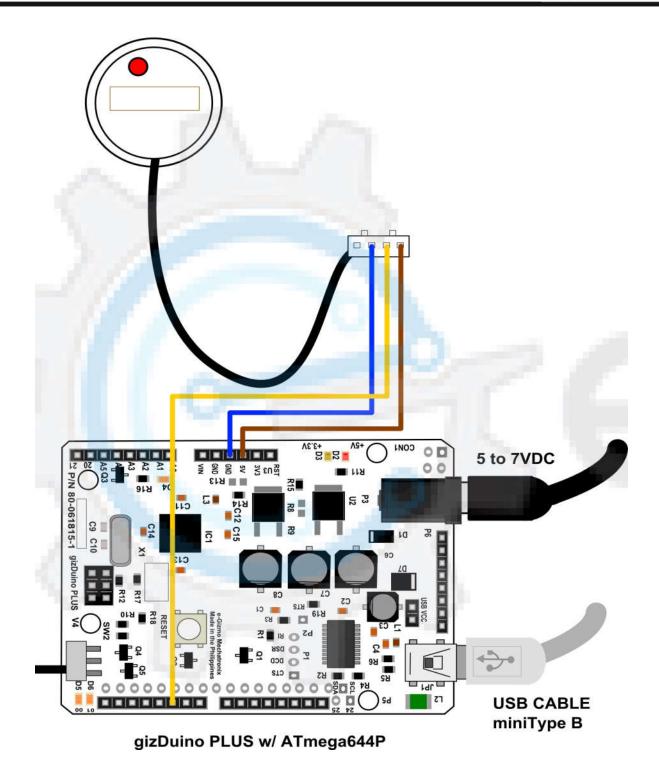


Figure 2. Sample connections



- 1: Non-contact liquid level sensors for non-metallic wall of the container without direct contact with the liquid, are not subject to corrosion acid and alkali and other corrosive liquids, or other debris from the scale effect.
- 2: Intelligent level adjustment and level memory function, level status display, multi-point serial connection; supports NPN Output, high-low level output, PNP output,RS485 signal output
- 3: Detection is accurate and stable, can detect boiling water level
- 4: Pure electronic circuit structure, non-mechanical work, life durability and stable performance
- 5: High stability, high sensitivity, strong interference ability, free from external electromagnetic interference, there are special treatment for frequency interference and common mode interference, compatible with all 5 ~ 24V Power Adapter in the market
- 6: Strong compatibility, penetrate various non-metallic containers, such as plastic, glass, ceramics and other containers, sensing distance up to over 10mm; liquid, powder, particulate matter can be detected
- 7: Open collector output, wide voltage range (5V ~ 12V Or 12V ~ 24V), Suitable for connecting various circuits and product applications

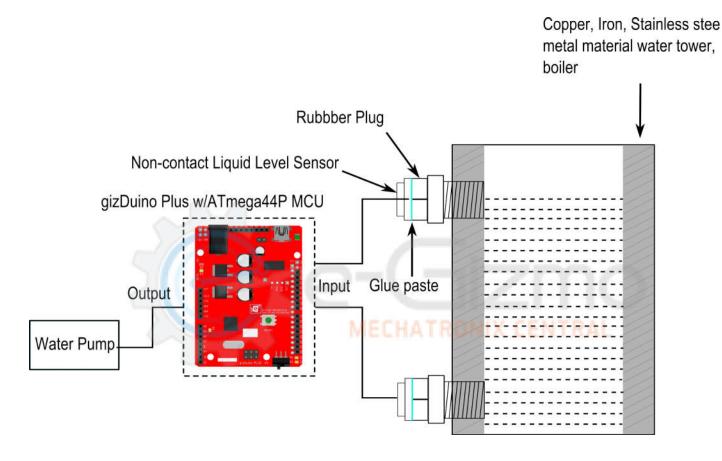


Figure 3. Sample installation with tank



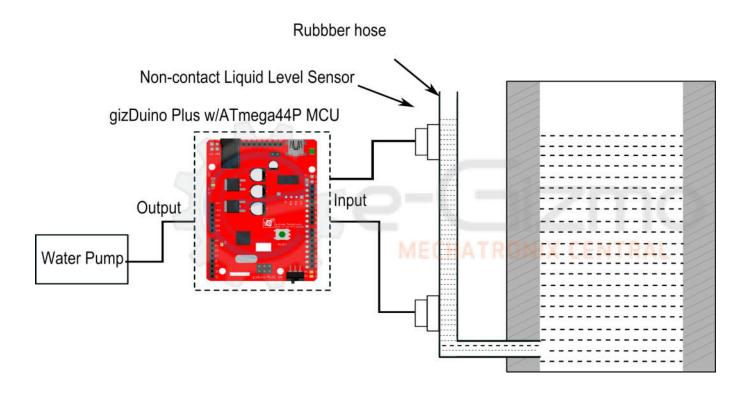


Figure 4. Sample installation with hose



Upload this code to the gizDuino PLUS Microcontroller. then Open the Serial Monitor to see the output value.

```
************************************
//
         Contactless Liquid Level Detector
                                                                 //
//
               XKC-Y26-PNP
                                                                 //
//
                                                                 //
// A simple sketch to get the signal output data of the liquid
                                                                 //
// level detector module. A non-contact liquid level sensors
                                                                 //
// for non-metallic wall of the container without direct
                                                                 //
// contact with the liquid. Supports PNP Ouput, high-low level
                                                                 //
// output. Compatible in all gizDuino boards.
                                                                //
   Output: 1 = liquid detected, 0 = no liquid detected
                                                                //
//
                                                                //
//
                                                                //
          by e-Gizmo Mechatronix Central
//
             http://www.e-gizmo.com
                                                                 //
//
//READ STATE
int LIQUID LEVEL=0;
//PIN ASSIGNENT
int INPUT_PIN = 5;
                                                          Figure 5. Serial Monitor
                                                          Output: 1 = liquid detected,
void setup(){
                                                                  0 = no liquid detected.
 //INTIALIZE
 Serial.begin(9600);
 pinMode(INPUT_PIN,INPUT); //PIN IS SET AS INPUT
                                                                                             X
                                                                                                 Send
}
                                                       LIQUID LEVEL = U
                                                       LIQUID LEVEL = 0
void loop() {
                                                       LIQUID LEVEL = 0
 //READING THE OUTPUT
                                                       LIQUID LEVEL = 0
 LIQUID_LEVEL=digitalRead(INPUT_PIN);
                                                       LIQUID LEVEL = 0
                                                       LIQUID LEVEL = 0
                                                      LIQUID LEVEL = 0
 //PRINTING THE DATA
                                                      LIOUID LEVEL = 0
 Serial.print("LIQUID LEVEL = ");
                                                      LIQUID LEVEL = 0
                                                      LIQUID LEVEL = 0
 //CONVERT IT TO DECIMAL
                                                      LIQUID LEVEL = 0
 Serial.println(LIQUID_LEVEL,DEC);
                                                       LIQUID LEVEL = 0
                                                       LIQUID LEVEL = 0
                                                       LIQUID LEVEL = 0
 //DELAY
                                                       LIQUID LEVEL = 0
 delay(500);
                                                       LIQUID LEVEL = 0
                                                       LIQUID LEVEL = 0
                                                       LIQUID LEVEL = 0
                                                       LIQUID LEVEL = 0
                                                       LIQUID LEVEL = 0

✓ Autoscroll

                                                                              No line ending
                                                                                           9600 baud
```