

Robot Controller

DFR0416 Bluno M0 Mainboard

SKU:SEN0551

FORUM

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[](Product Link)

Introduction

This Gravity: liquid flow sensor is designed based on the electromagnetic principle. It adopts O-



EDUCATION

ring rubber seal and uses silicone sealant at the outlet end to strength water-resistance. With high anti-interference and antiimpact, the sensor offers reliable performance and long service life. Also, it is designed with G3/4 thread connectors for easy installation. The sensor can be used with microcontrollers like Arduino UNO to

measure the flow of liquids with high concentration and low viscosity like water, diesel, engine oil, milk, paint, detergent, honey, etc. (no impurity in liquid) **Features**

· Gravity interface, easy to wire Wide voltage of 3.5~24V

- Measure the flow of the high-concentration but low-viscosity
- liquid

Operating Voltage: DC3.5~24V

- · RoHS compliant
- Specification

Operating Current: ≤10mA (DC5V)

• Pipe Diameter: G3/4

· Output Mode: NPN pulse signal

- Thread I.D.: 16mm/0.63" Thread O.D.: 26mm/1.02"
- Water Pressure Resistance: ≤1.2MPA

• Thread Length: 18.7mm/0.74"

- Insulation Resistance: >100MΩ
- Flow Range: 30-3000L/H Error: ±1% (20-3000L/H)
- High Level of Output Pulse: > DC4.7V (input voltage DC5V)

Duty Cycle of Output Pulse: 50%±10%

Operating Temperature: ≤80°C

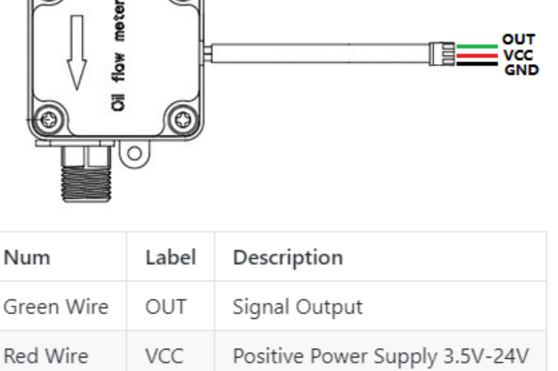
Storage Humidity: 25%~95%RH

• Flow & Pulse Correlation: 1L=75 pulses

Low Level of Output Pulse: <DC0.5V (input voltage DC5V)

- Operating Humidity: 35%~90%RH (no frosting)
- Storage Temperature: -25°~+80°C
- Dimensions: 92×47×39mm/3.62×1.85×1.54"

Pinout

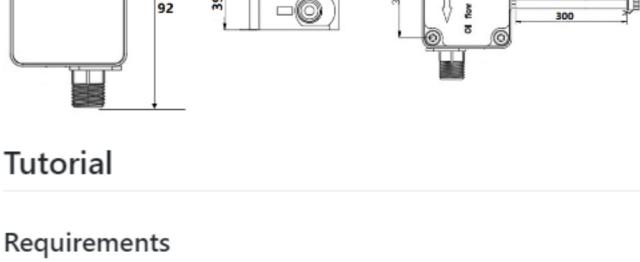


Negative Power Supply

Black Wire

Dimensions

GND



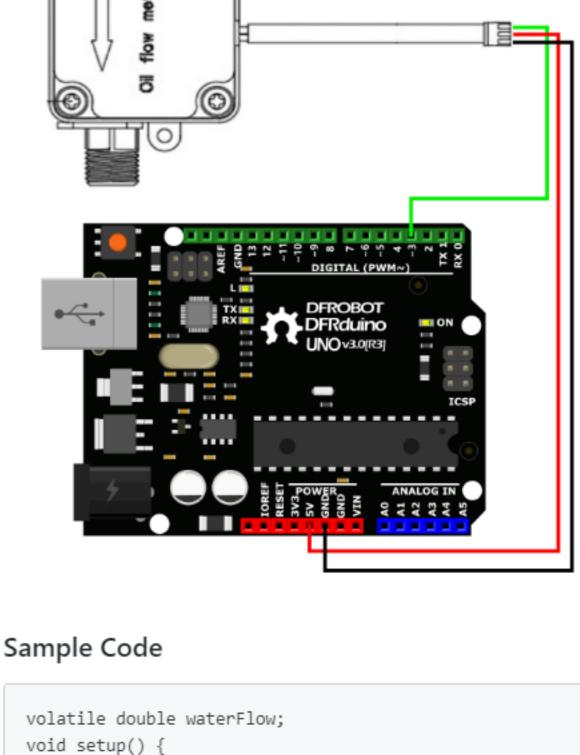
o DFRduino UNO R3 (or similar) x 1

Water Flow Sensor x 1

Hardware

- Software Arduino IDE

Connection Diagram



```
Serial.begin(9600); //baudrate
    waterFlow = 0;
    attachInterrupt(1, pulse, RISING); //DIGITAL Pin 3: Interru
  void loop() {
    Serial.print("waterFlow:");
    Serial.print(waterFlow);
    Serial.println(" L");
    delay(500);
  void pulse() //measure the quantity of square wave
    waterFlow += 1.0 / 75.0; // 75 pulses=1L (refer to product s
FAQ
```

For any questions, advice or cool ideas to share, please visit the

DFRobot Forum.

More Documents

Get Gravity: Water Flow Sensor (G3/4) from DFRobot Store or **DFRobot Distributor.**

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