

DFR0392 DFRduino M0

Robot Controller

DFR0398 Romeo BLE Quad

Mainboard Arduino Compatible

DFR0416 Bluno M0 Mainboard

Introduction Features Specification **Board Overview** Dimension Tutorial FAQ More Documents

COMMUNITY NEW

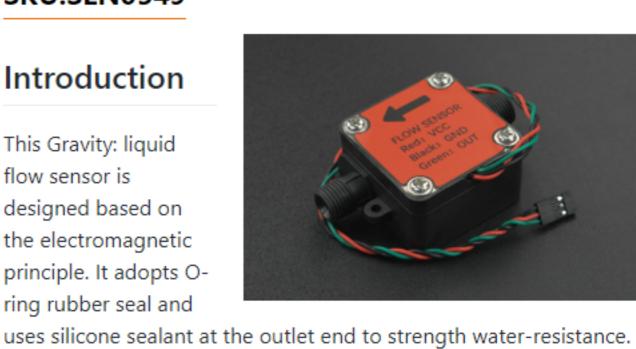
## SKU:SEN0549

**FORUM** 

**BLOG** 

### Introduction

This Gravity: liquid flow sensor is designed based on the electromagnetic principle. It adopts Oring rubber seal and



**EDUCATION** 

With high anti-interference and anti-impact, the sensor offers reliable performance and long service life. Also, it is designed with G1/4 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 connector, easy to wire Wide voltage of 3.5-24V

- · Supports measuring liquid with high concentration and low-
- viscosity
- · RHOS compliant Specification

## Operating Current: ≤10mA ( DC5V )

Pipe Diameter: G1/4"

Operating Voltage: DC3.5-24V

- Thread Outer Diameter: 13mm
- Thread Length: 10mm

· Output: NPN Pulse signal

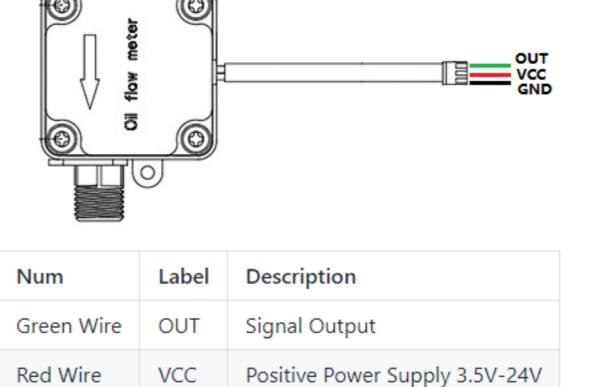
- Water Pressure Resistance: ≤1.0MPA Insulation Resistance: > 100MΩ
- Error: ±1%(0.3-5L/min)
- Output Pulse High Level: > DC4.7V(Input voltage DC5V) Output Pulse Low Level: < DC0.5V(Input voltage DC5V)</li>
- Output Pulse Duty Ratio: 50%±10% • Flow-Pulse Correlation: 1L=540 pulses
- Operating Temperature Range: -10°~70°C Operating Humidity Range: 35%~90%RH(No condensing)
- Storage Humidity: 25%~95%RH

Storage Temperature: -25°~+80°C

Dimension: 804730mm/3.151.851.18"

GND

**Board Overview** 

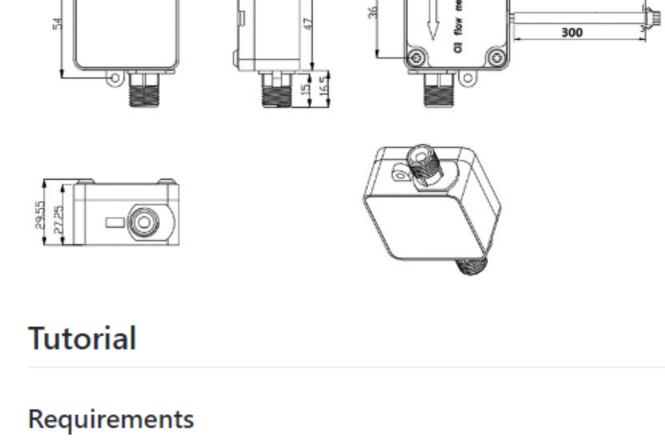


**Negative Power Supply** 

Red Wire

Black Wire

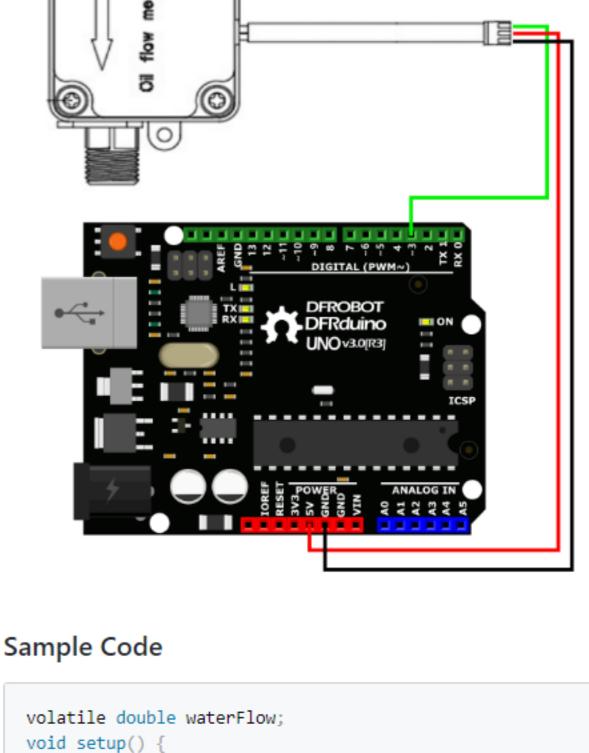
Dimension



### o DFRduino UNO R3 (or similar) x 1 Water Flow Sensor x1

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 / 540.0; // 1L=540 pulses
FAQ
```

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

DFRobot Forum. More Documents

Get Gravity: Water Flow Sensor G1/4 from DFRobot Store or DFRobot Distributor.

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