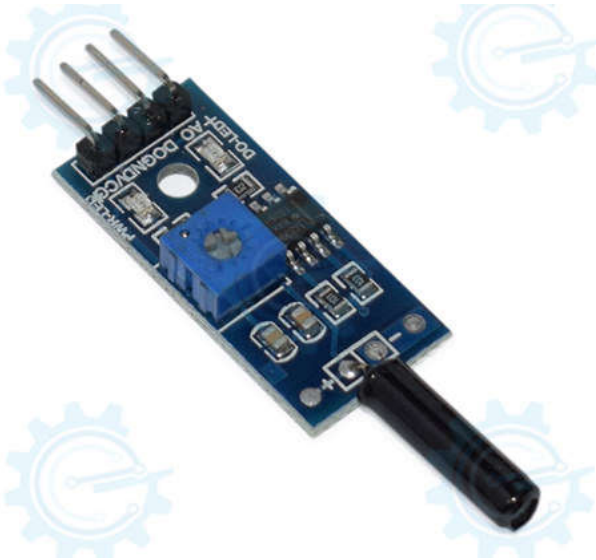
Vibration sensor module

Technical Manual Rev 1r0



This ***Vibration Sensor*** use the ***SW-18010P*** from MEC to measure the vibration.It can triggerd from any angle, and often used for flex, touch, vibration and shock measurements.

There is an on-board potentiometer to adjust the threshold of vibration.It outputs logic HIGH when this module not triggered while logic Low when triggered.

General Specifications:

Input supply voltage: 5VDC
Output: Digital and Analog
0 - detected, 1 - no detection
On board IC: LM393 comparator IC
Sensor: SW-18010P
PCB Dimensions: 31.5mm x 14.5mm

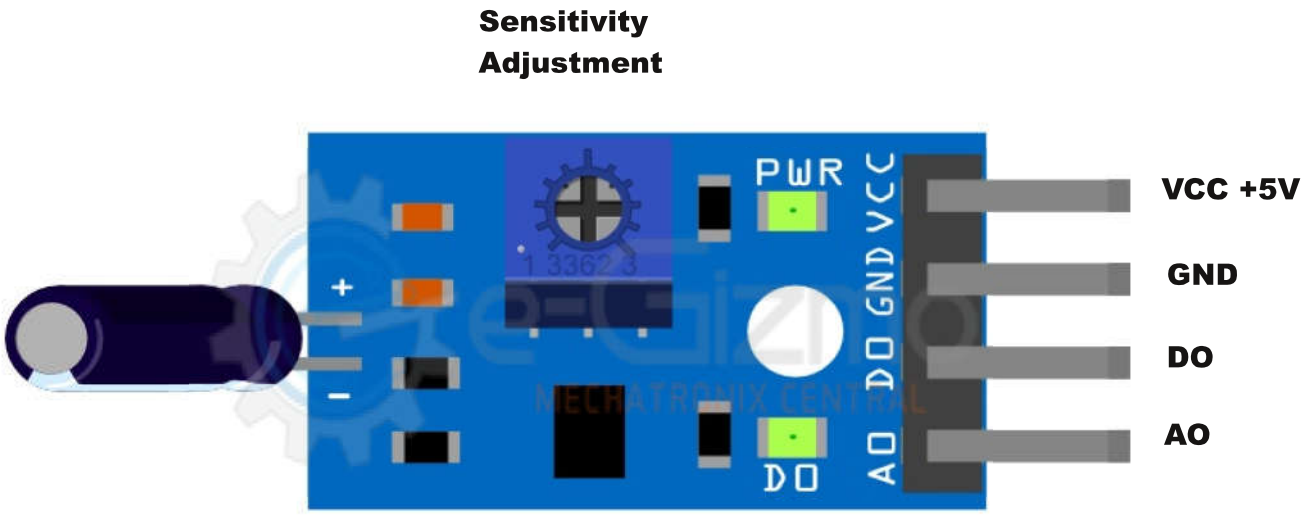
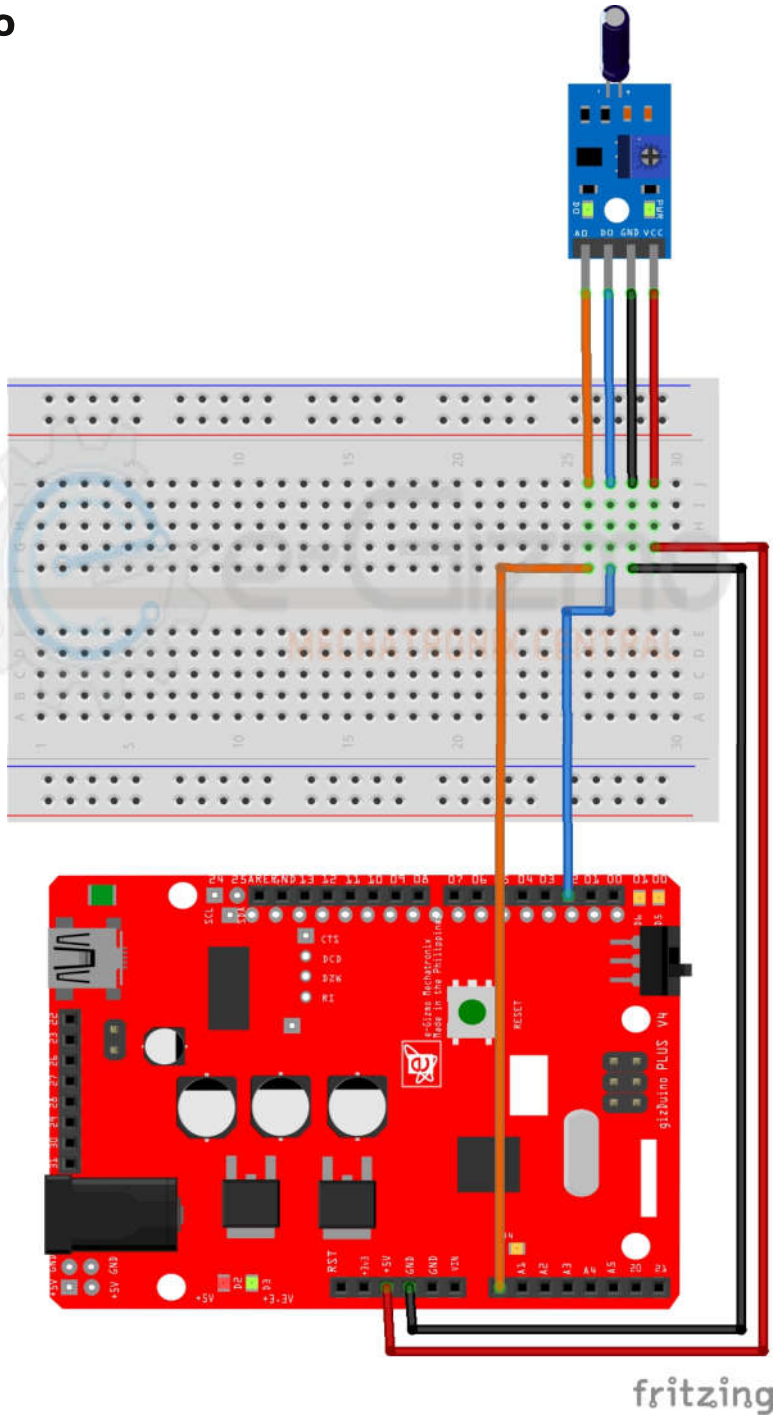


Figure 1: Major parts of Vibration sensor module.

Wiring Connections:

Gizduino to Vibration sensor

+5V	**VCC**
GND	**GND**
D2	**DO**
A0	**AO**



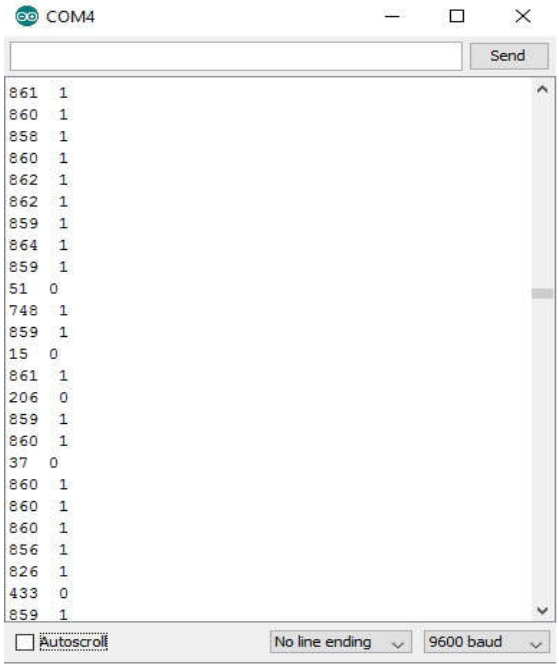
```
/*
  e-Gizmo Vibration sensor module

  This example code reads an analog input on pin 0
  and on pin 2 digital input, then prints the
  result to the serial monitor.

  Codes by
  e-Gizmo Mechtronix Central
  http://www.e-gizmo.com
  August 10,2017

 */
// pins assignment
int OUTPUT_PIN = 2;
// the setup routine runs once when you press reset:
void setup() {
  // initialize serial communication at 9600 bits per second:
  Serial.begin(9600);
    pinMode(OUTPUT_PIN, INPUT);
}

// the loop routine runs over and over again forever:
void loop() {
  // read the input on analog pin 0 and pin 2:
  int SENSOR_VALUE = analogRead(A0);
  int OUTPUT_STATE = digitalRead(OUTPUT_PIN);
  // print out the value you read:
  Serial.print(SENSOR_VALUE);
  Serial.print("  ");
  Serial.println(OUTPUT_STATE);
  delay(10);        // delay in between reads for stability
}
```



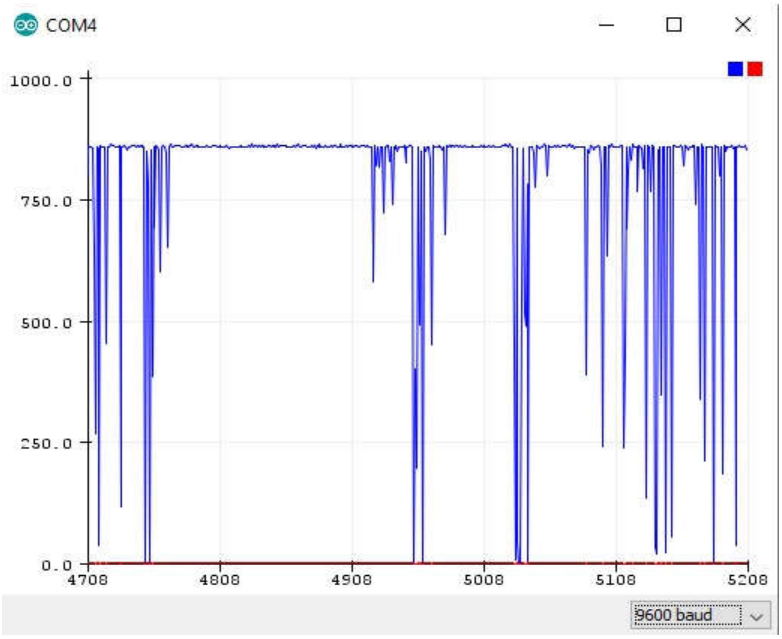


Figure 2: Analog Output.

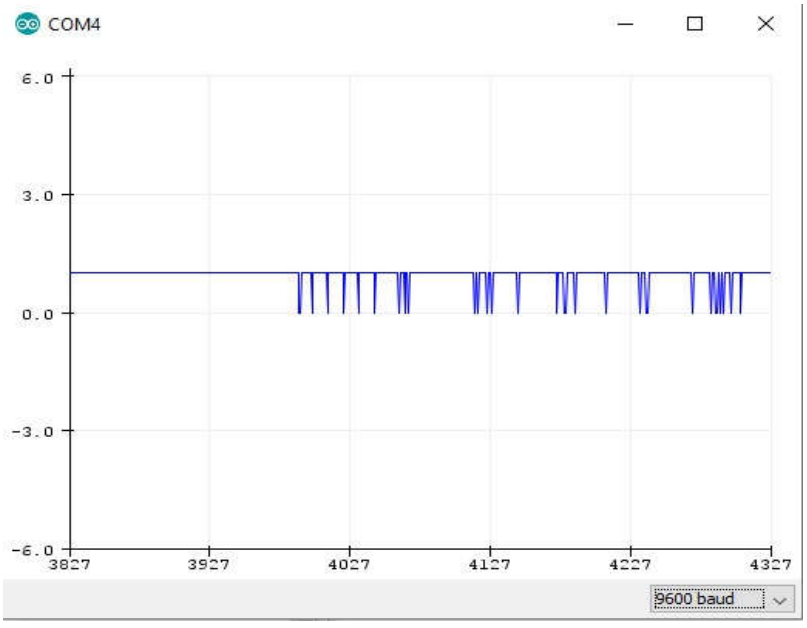


Figure 3: Digital Output.