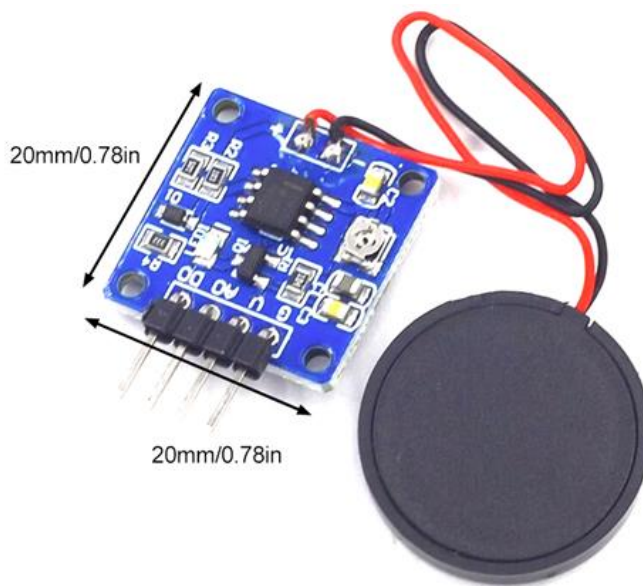




Piezoelectric Vibration & Knock Sensor Module

A piezo is an electronic device that generates a voltage when it's physically deformed by a vibration, sound wave, or mechanical strain. Similarly, when you put a voltage across a piezo, it vibrates and creates a tone. Piezos can be used both to play tones and to detect tones. This vibration sensor module used Piezo element to detect vibration. In this case, a knock on a door, table, or other solid surface will generated an output signal.



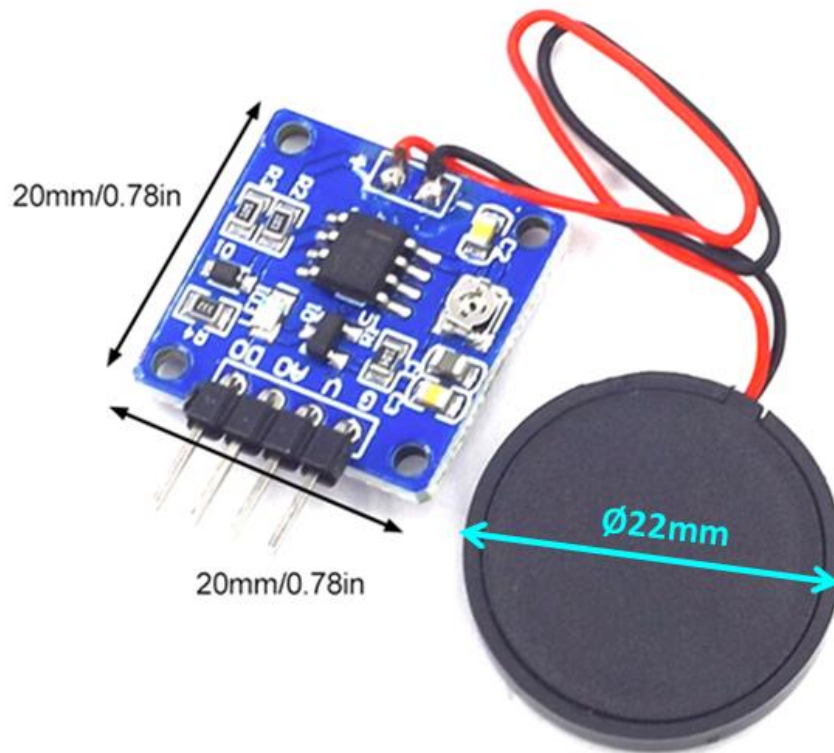
SKU: SSR1072

Brief Data:

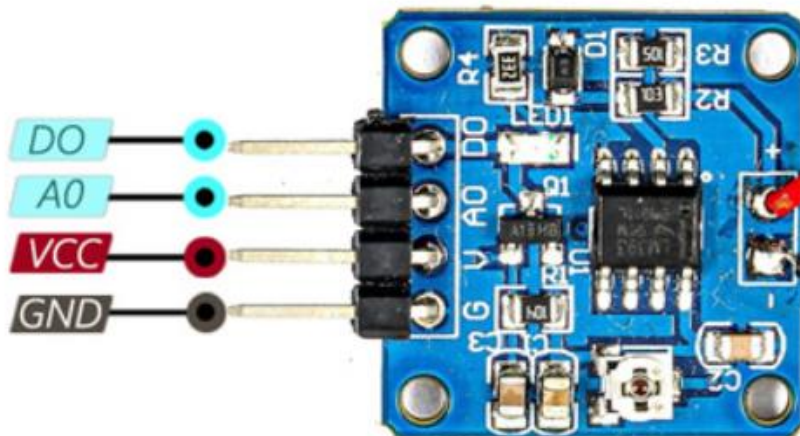
- Operating Voltage: (3.3~5)V.
- Operating Current: <1mA.
- Sensing Type: Piezoelectric Element.
- Output Signal: Analog and Digital.
- Output Indicator LED.
- Sensitivity Adjustment: On board Potentiometer.
- Working Temperature Range: $-10^{\circ}\text{C} \sim +70^{\circ}\text{C}$.

Mechanical Dimension:

Unit: mm

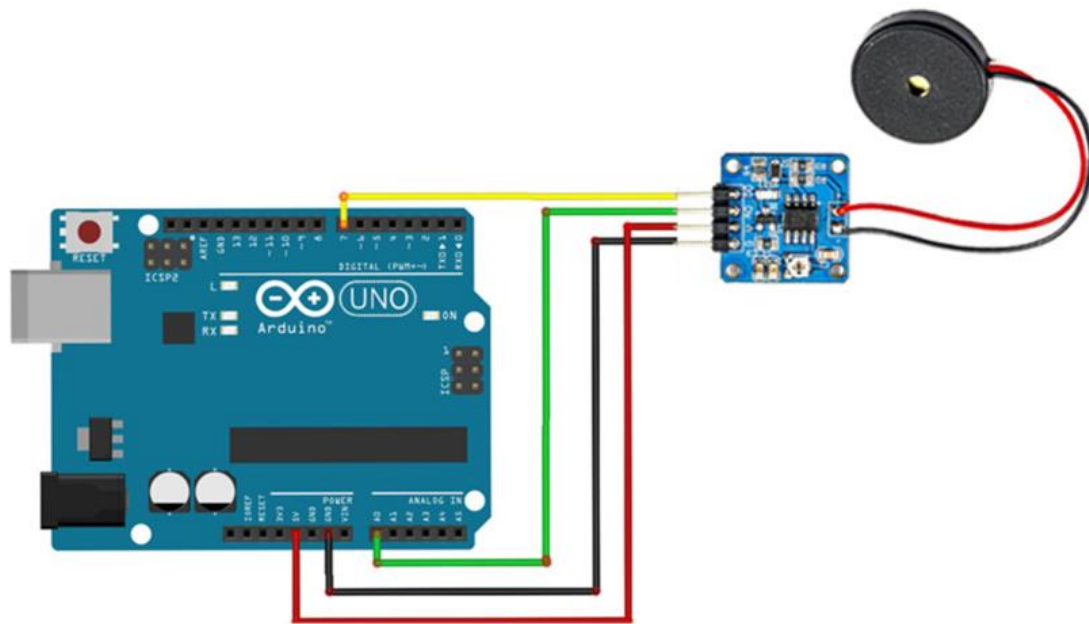


Pin Function Assignment:



- VCC: Module power supply – 3.3V to 5V
- GND: Ground
- D0: Digital Output
- A0: Analog Output

Arduino Interfacing:



Arduino Sketch:

```
*/  
  
#define Dig_pin 7  
int Dig_out = LOW;  
int Ana_out = 0;  
  
void setup() {  
  Serial.begin(9600);  
}  
  
void loop() {  
  Dig_out = digitalRead(Dig_pin)*100;  
  Ana_out = analogRead(A0);  
  Serial.print("Analog : ");  
  Serial.print(Ana_out);  
  Serial.print("    Digital :");  
  Serial.println(Dig_out);  
}
```

Web Resources:

- https://wiki.keyestudio.com/Ks0272_keyestudio_Analog_Piezoelectric_Ceramic_Vibration_Sensor
- <https://electropeak.com/learn/interfacing-piezoelectric-vibration-shock-tap-sensor-with-arduino/>
-



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