

Arduino Adjustable Vibration Sensor Module 3-pin



Vibration sensor is used originally as a vibration switch because of its high sensitivity. It is sensitive to environment vibration, and generally used to detect the ambient vibration strength. When the module does not reach the threshold in shock or vibration strength, DO port output goes high level and when external vibration strength exceeds the threshold, DO port output goes low level.

Applications:

- Theft alarm
- Smart car
- Earthquake alarm
- Motorcycle alarm.

Features:

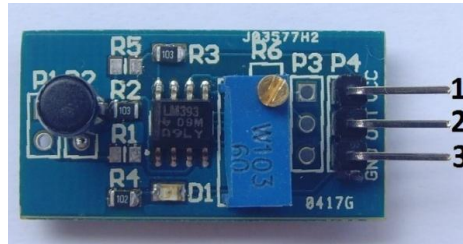
- SW-420 using the normally closed type vibration sensor.
- Operating voltage 3.3V-5V
- Output: Digital switching outputs (0 and 1)
- A fixed bolt hole for easy installation
- Wide voltage LM393 comparator

Dimension:

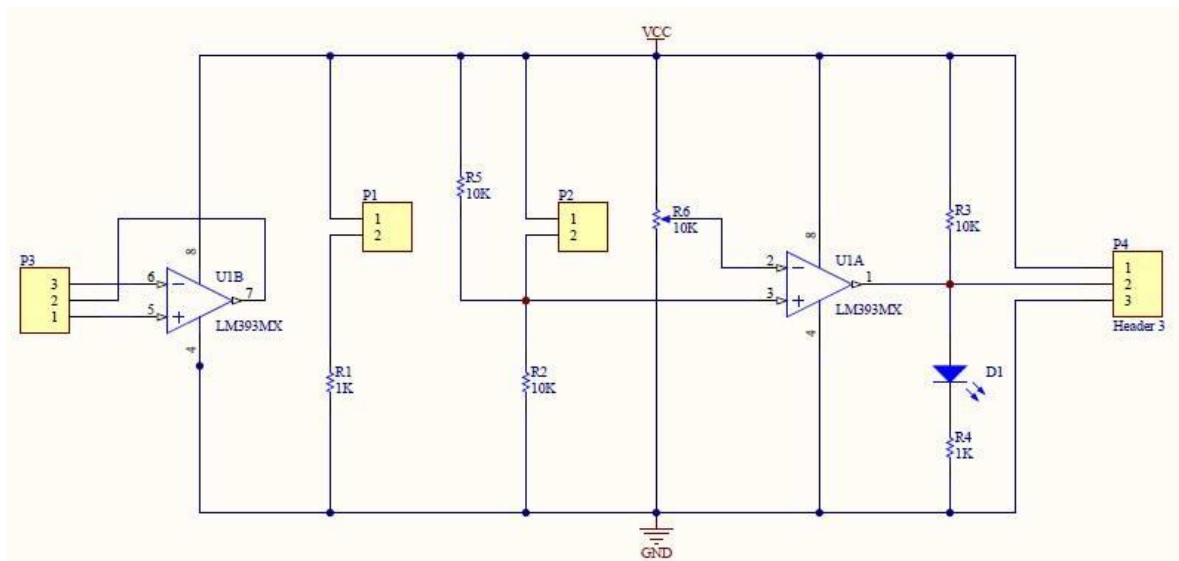
1.50inc x 0.51inc x 0.28inc (3.8cm x 1.3cm x 0.7cm)

Pin Configuration:

1. VCC
2. OUTPUT
3. GND



Schematic:



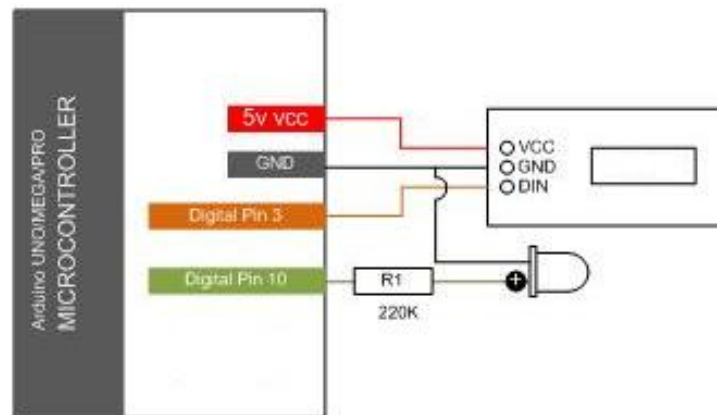
Arduino Adjustable Vibration Sensor Module 3-pin

This application is to show how to make a simple Earth Quake monitoring device and learn how to connect and control the digital shock/vibration sensor module. LED will be used as triggered output instead of using alarm or any special output devices. When the sensor detects a vibration the LED will blink instead of sound alarm.

Components needed:

- Arduino UNO/MEGA/PRO
- 1x Vibration Sensor
- 1x LED
- 1x 220 k Resistor

The connection is as shown below.



Then upload the code provided into arduino.ide. The output (LED) will blink if there is any vibration detected.

