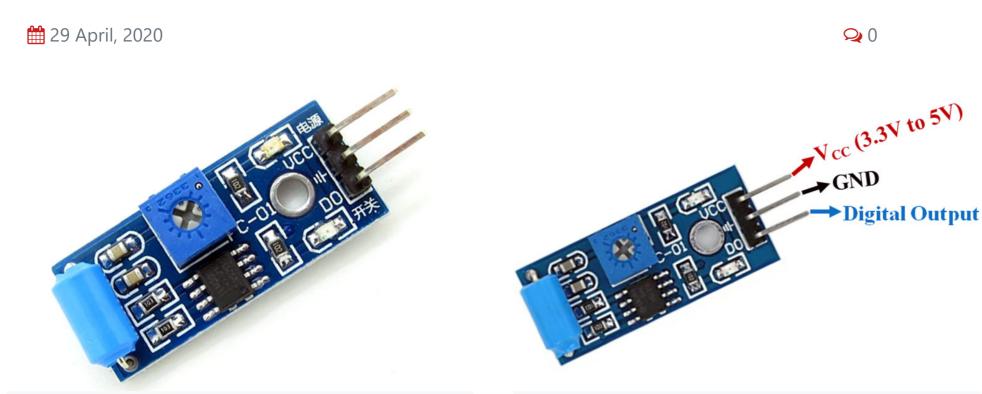
COMPONENTS 101

SW-420 Vibration Sensor Module



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The vibration sensor module based on the vibration sensor SW-420 and Comparator LM393 is used

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OKAY, I UNDERSTAND

to detect vibrations. The threshold can adjust using an on-board potentiometer. During no vibration, the sensor provides Logic Low and when the vibration is detected, the sensor provides Logic High.

Pin Configuration of Vibration Sensor Module

Description Pin Name

	•
VCC	The Vcc pin powers the module, typically with +5V
GND	Power Supply Ground
DO	Digital Out Pin for Digital Output.

• Operating Voltage: 3.3V to 5V DC • Operating Current: 15mA

Vibration Sensor Module Features & Specifications

- Using SW-420 normally closed type vibration sensor
- LEDs indicating output and power • LM393 based design
- Easy to use with Microcontrollers or even with normal Digital/Analog IC
- With bolt holes for easy installation
- Small, cheap and easily available
- Alternate Sensor Modules: IR Sensor Module, LDR Sensor Module, TP4056A Li-ion Battery Charging/Discharging Module, DS3231 RTC Module, TMC2209 Stepper Motor Driver Module, DRV8825

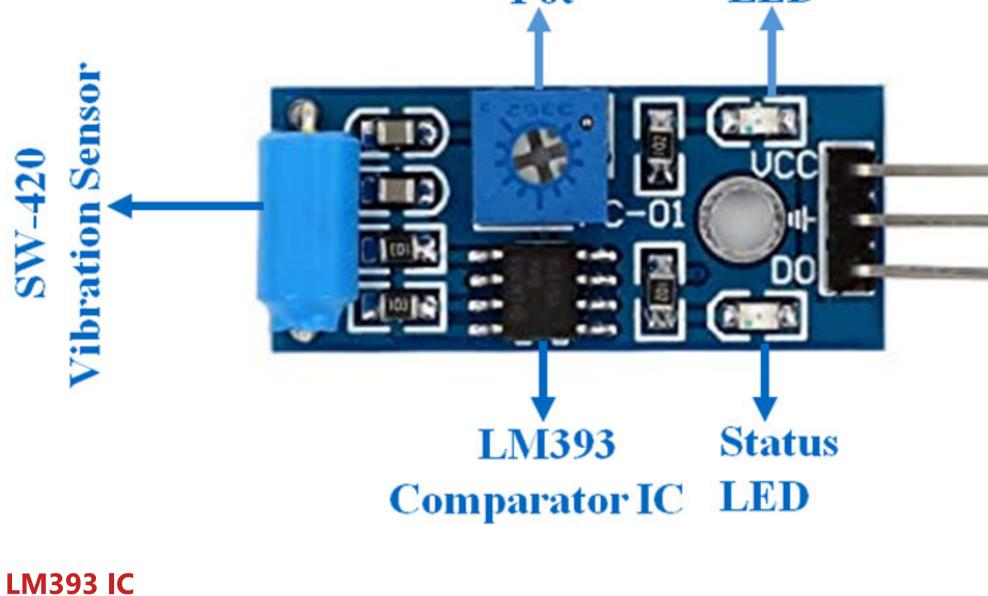
Stepper Motor Driver Module, A4988 Stepper Motor Driver Module, NEO-6MV2 GPS Module, Joystick Module, EM18 - RFID Reader Module, ADXL335 Accelerometer Module, HMC5883L Magnetometer Module, Soil Moisture Sensor Related Components: LM393 Comparator IC, 10K Potentiometer, Capacitor, SW-420 Vibration Sensor

Brief about SW-420 Vibration Sensor/Motion Sensor Module

This Vibration Sensor Module consists of an SW-420 Vibration Sensor, resistors, capacitor,

potentiometer, comparator LM393 IC, Power, and status LED in an integrated circuit. It is useful for a

variety of shocks triggering, theft alarm, smart car, an earthquake alarm, motorcycle alarm, etc. Power 10K Pot LED



is connected to Preset ($10K\Omega$ Pot) while pin 3 is connected to vibration sensor. The comparator IC will

compare the threshold voltage set using the preset (pin2) and the Vibration Sensor pin (pin3). **Preset (Trimmer pot)**

LM393 Comparator IC is used as a voltage comparator in this vibration sensor module. Pin 2 of LM393

module is given below.

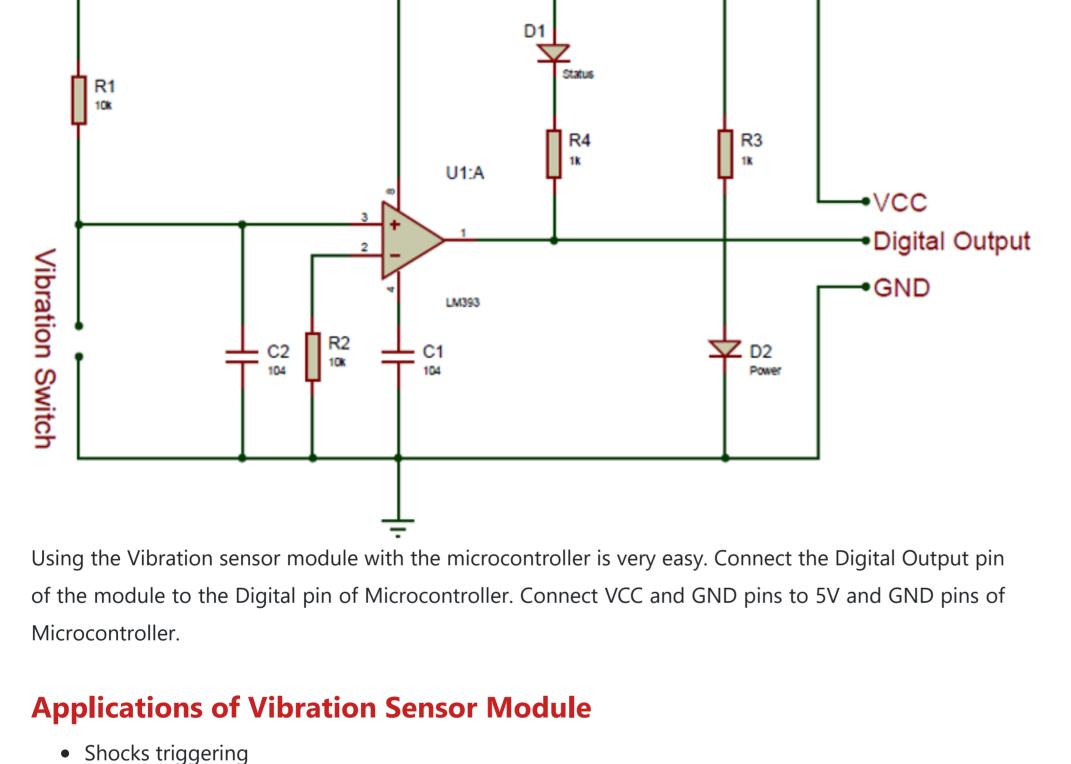
SW-420 Vibration Switch

Using the onboard preset, you can adjust the threshold (sensitivity) of the digital output.

can be electrical contact closure or contact opening. The electrical contact may be either an electromechanical relay or a solid-state device.

How to Use SW-420 Vibration Sensor Module Vibration sensor module consists of three pins i.e. VCC, GND, and DO. The Digital out pin is connected to the output pin of the LM393 comparator IC. The Internal Circuit diagram of the Temperature sensor

Vibration switch recognizes the amplitude of the vibration to which it is exposed. The switch response



• Theft alarm • Smart car • Earthquake alarm

SW-420 Vibration Sensor Datasheet

Part Number **♦**

SW-420

SW-420

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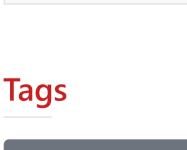
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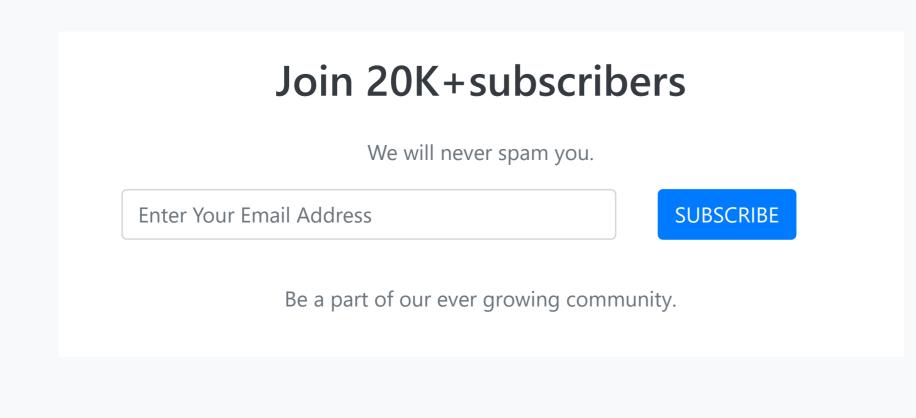


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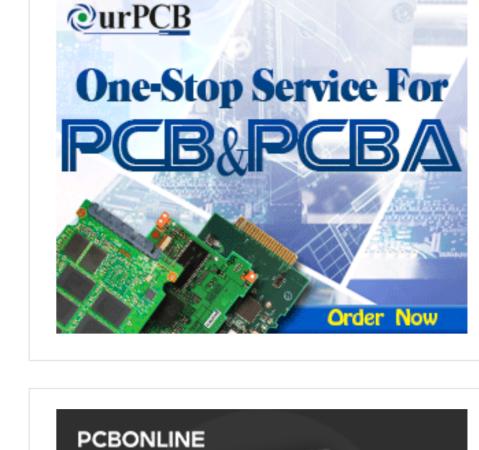
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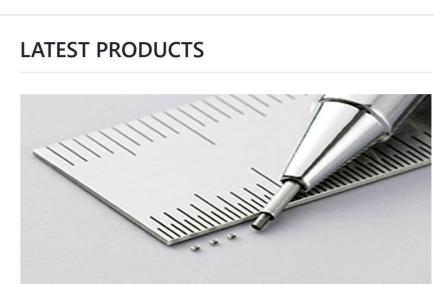
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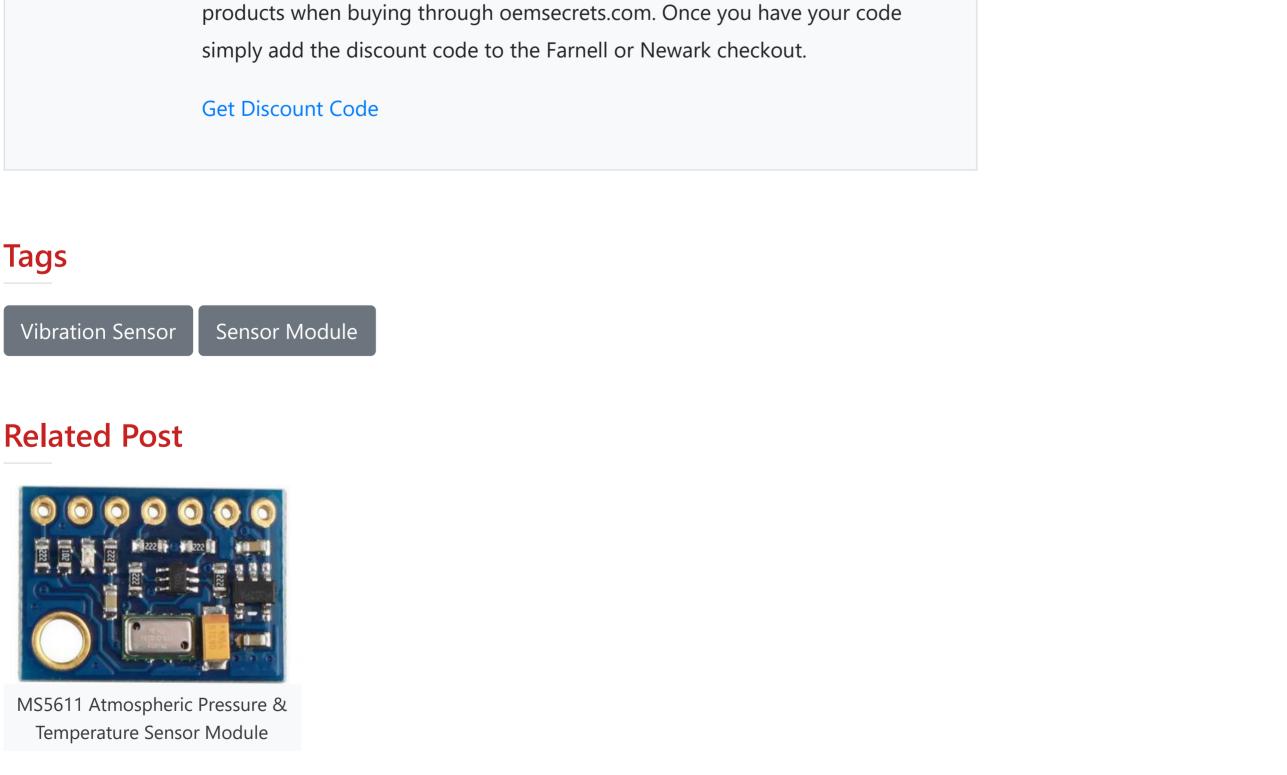
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