

# E4A1 Vibration Sensor Guide

E4A1 is a simple mechanical vibration and shock detection sensor.

## Specifications

- Mechanical spring-type vibration sensor
- Digital ON/OFF output
- Two terminals, no polarity
- Low cost and easy to use
- Suitable for alarm and Arduino projects

## Arduino Example

```
#define VIB 2
void setup(){ pinMode(VIB, INPUT_PULLUP); }
void loop(){ if(digitalRead(VIB)==LOW){ /* vibration */ }
```

## Applications

Alarm systems, door/window shock detection, vehicle anti-theft systems, robotics, and vibration monitoring.