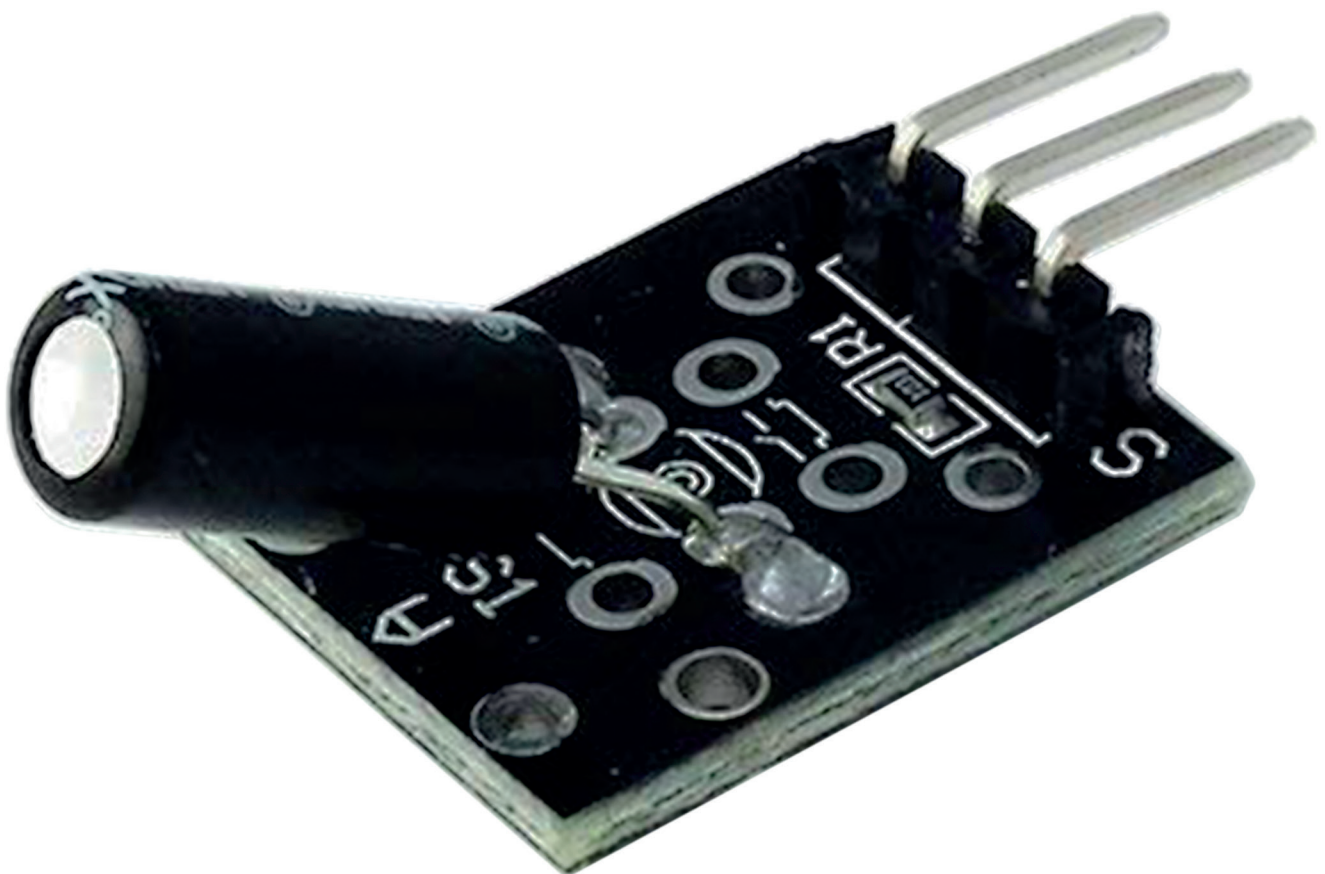


KY-002 Schock Sensor Modul Datenblatt



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1. Description

Arduino Vibration Switch Module KY-002 Keys allows detection of shock and vibration.

The switch primarily consists of a terminal that forms a center post and a second terminal that is a spring that surrounds the center post. When a sufficient force is transferred to the switch, the terminal consisting of the spring moves and shorts both terminals together.

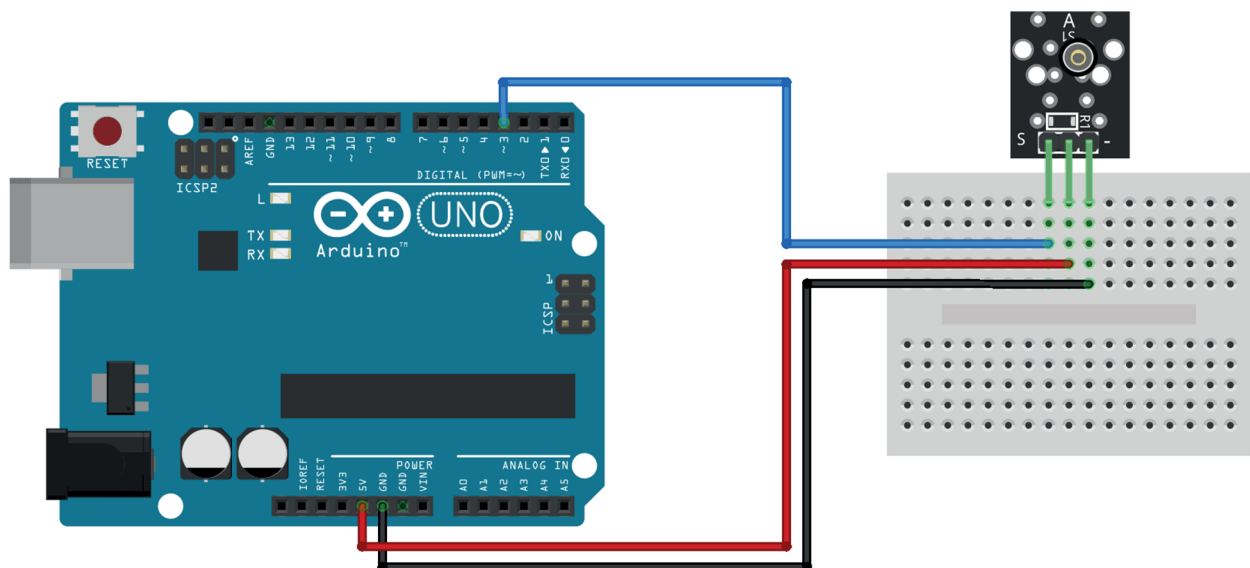
2. Specifications

The KY-002 Vibration Switch Module consists of a conductive vibration spring and a 10k resistor, it will react to shock and vibration by closing the circuit.

Operating Voltage	5v
Dimensions	18.5mm x 15mm [0.728in x 0.591in]

3. Connection Diagram

Connect the Power line (middle) and ground (-) to +5 and GND respectively.
Connect signal (S) to pin 3 on the Arduino.



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4. Example Code

The following Arduino sketch produces a shock flasher. Pin 13 (LED) on the Arduino will flash when KY-002 detects movement. Pin 3 is used as input from KY-002.

```
1  int Led = 13; // define the LED Pin
2  int shock = 3 // define the sensor Pin
3  int val; // define a numeric variable val
4
5  void setup () {
6      pinMode (Led, OUTPUT); // LED pin as output
7      pinMode (shock, INPUT); // input from KY-002 sensor
8  }
9
10 void loop () {
11     val = digitalRead (shock); // read the value from KY-002
12     if (val == HIGH ) { // when sensor detects shock, LED flashes
13         digitalWrite(Led, LOW);
14     } else {
15         digitalWrite (Led, HIGH);
16     }
17 }
```