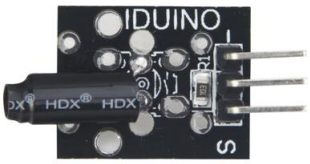
Vibration Shock module(SE053)



1 Introduction

This module is a shock switch module, and if it can detect a jolt ,it output one low level signal. Be similar with our most sensor, It has three pin: Power pin, Ground pin and signal switch pin. That's an interesting function to your Arduino project.

Specification

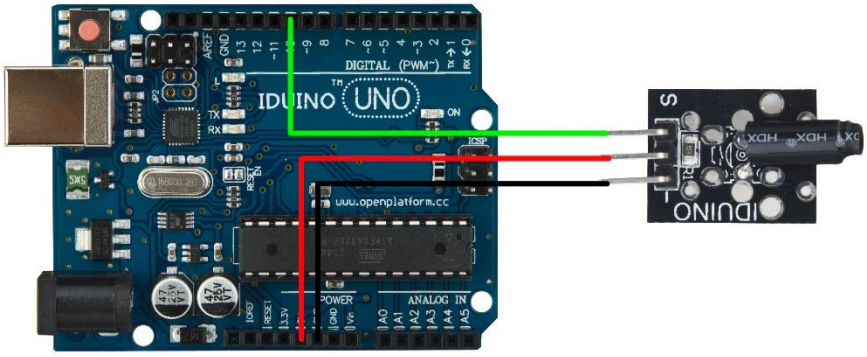
- Operation voltage: 5V
- 3Pin
- Size:25*15mm
- Weight: 2g

2 Pinout

Pin	Description
S	If the sensor detect a jolt, this pin output low level signal
+(middle pin)	Power
-	Ground

3.Example

This example show you how to use this module, connection as below, and upload the sketch, open the serial monitor session, see how it will go~



Example code :

```
******Code begin******
int shockPin = 10; // Use Pin 10 as our Input
int shockVal = HIGH; // This is where we record our shock measurement
boolean bAlarm = false;

unsigned long lastShockTime; // Record the time that we measured a shock

int shockAlarmTime = 250; // Number of milli seconds to keep the shock
alarm high
void setup ()
{
  Serial.begin(9600);
  pinMode (shockPin, INPUT) ; // input from the KY-002
}
void loop ()
{
  shockVal = digitalRead (shockPin) ; // read the value from our sensor

  if (shockVal == LOW) // If we're in an alarm state
  {
    lastShockTime = millis(); // record the time of the shock

    if (!bAlarm){
      Serial.println("IDUINO Shock module");
```

```
      bAlarm = true;
    }
  }
  else
  {
    if( (millis()-lastShockTime) > shockAlarmTime  &&  bAlarm){
      Serial.println("no alarm");
      bAlarm = false;
    }
  }
}
```

******Code End******