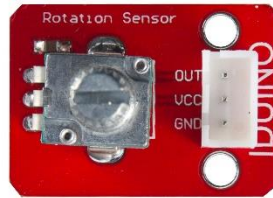
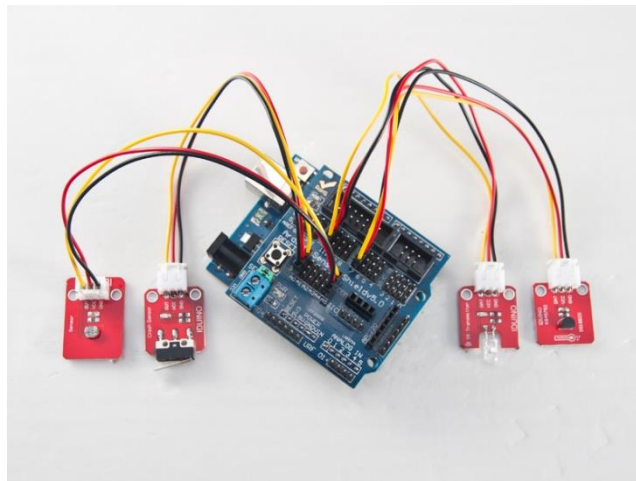


Easy Rotation Sensor Module (SE031)



1. Introduction

This module is a multi-turn precision potentiometer, it can sense the rotation of your control, which is widely used in some control, like adjusting the intensity of light or voice. This module has one indicator light, which would be on when this module's voltage signal is changed. And, this module has integrated 3-pin terminal, which can be simply and tidily connected with Arduino sensor expansion board, like the following picture:



Specification

- Operation voltage: 5V
- With 3-pin Jumper
- Size: 28*15mm
- Weight: 4g

2 Pinout

Pin	Description
OUT	Analog signal output pin
VCC	Power

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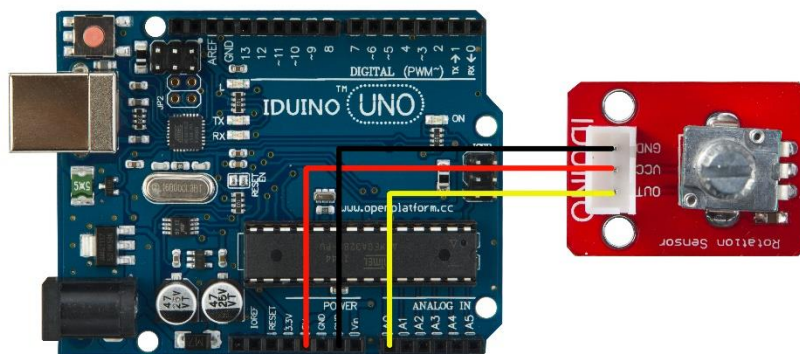
GND

Ground

3.Example

Here is a example to control the intensity of LED13. Rotate this module, the LED13 will be lighter or darker.

The connection as below:



Example code :

```
*****Code begin*****
```

```
const int analogInPin = A0; // Analog input pin that the potentiometer  
is attached to
```

```
const int analogOutPin = 13; // Analog output pin that the LED is attached
```

```
int sensorValue = 0; // value read from the pot
```

```
int outputValue = 0; // value output to the PWM (analog out)
```

```
void setup() {
```

```
  // initialize serial communications at 9600 bps:
```

```
  Serial.begin(9600);
```

```
}
```

```
void loop() {
```

```
  // read the analog in value:
```

```
  sensorValue = analogRead(analogInPin);
```

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```
// map it to the range of the analog out:
outputValue = map(sensorValue, 0, 1023, 0, 255);
// change the analog out value:
analogWrite(analogOutPin, outputValue);

// print the results to the serial monitor:
Serial.print("sensor = ");
Serial.print(sensorValue);
Serial.print("\t output = ");
Serial.println(outputValue);

// wait 2 milliseconds before the next loop
// for the analog-to-digital converter to settle
// after the last reading:
delay(20);
}
*****Code End*****
```