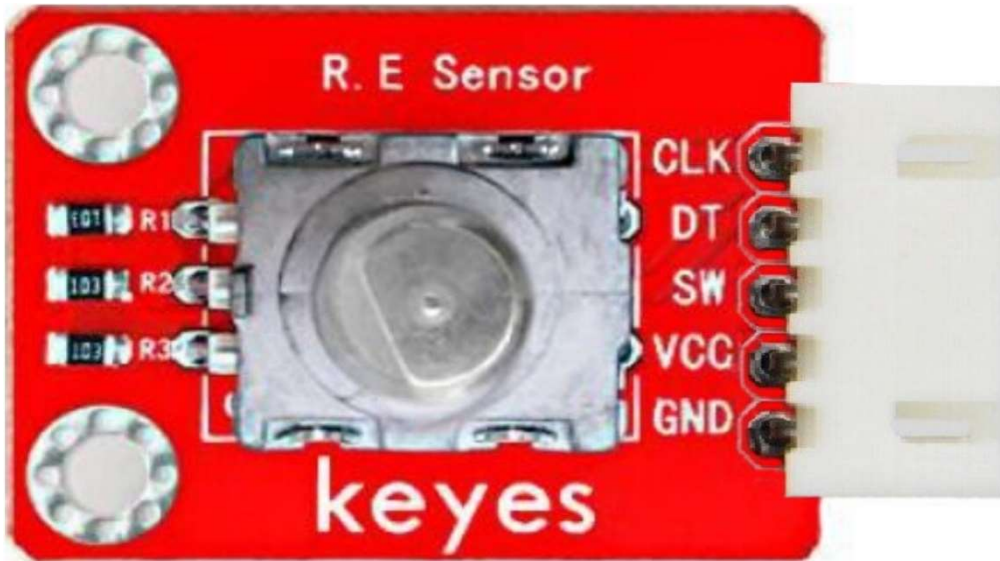


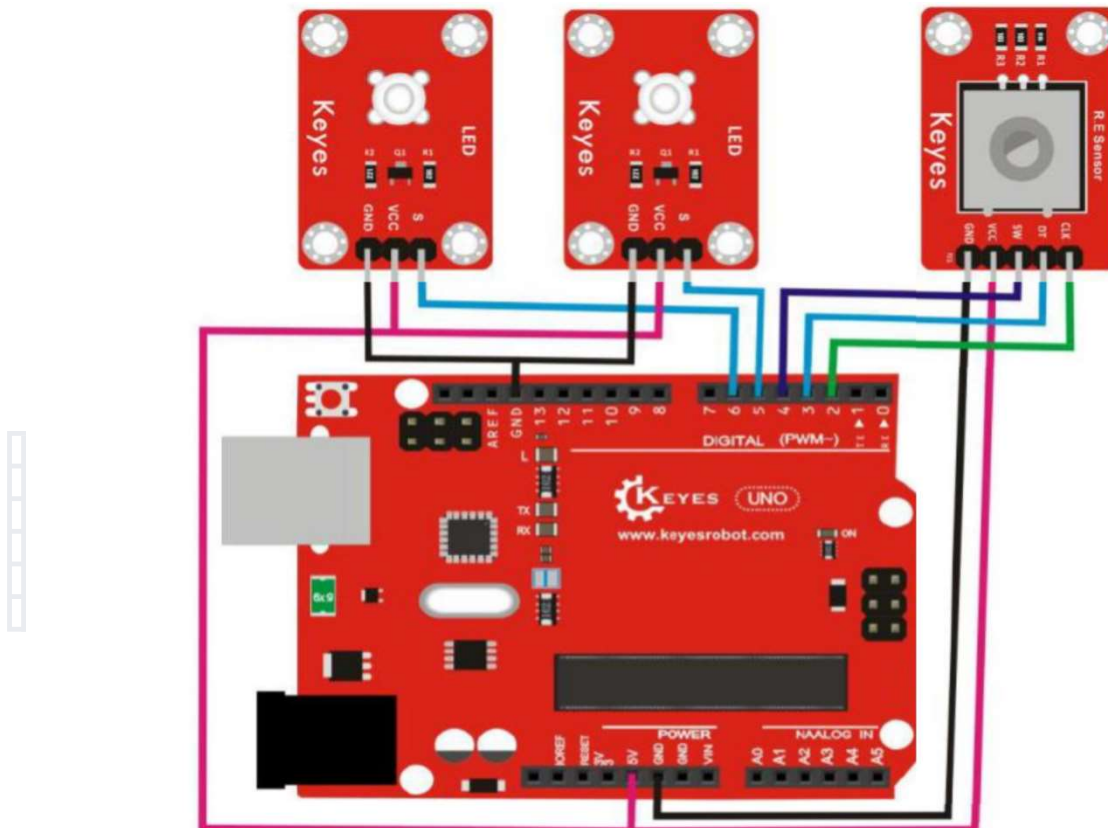
## KE2038 KEYES digital IR transmitter module

### Introduction:

KEYES Rotary Encoder Module is mainly composed of rotary encoder. It can count the number of pulses output in the positive and reverse directions. There is no limit to this rotation count. Reset to the initial state, that is, counting from 0. The module comes with two positioning holes that allow you to secure the module to other devices.



### PINOUT Instruction:



## Sample Code:

```
const int interruptA = 0;
const int interruptB = 1;
int CLK = 2; // PIN2
int DAT = 3; // PIN3
int BUTTON = 4; // PIN4
int LED1 = 5; // PIN5
int LED2 = 6; // PIN6
int COUNT = 0;
void setup()
{
  attachInterrupt(interruptA, RoteStateChanged, FALLING);
  // attachInterrupt(interruptB, buttonState, FALLING);
  pinMode(CLK, INPUT);
  digitalWrite(2, HIGH); // Pull High Restance
  pinMode(DAT, INPUT);
  digitalWrite(3, HIGH); // Pull High Restance
  pinMode(BUTTON, INPUT);
  digitalWrite(4, HIGH); // Pull High Restance
  pinMode(LED1, OUTPUT);
  pinMode(LED2, OUTPUT);
  Serial.begin(9600);
}
void loop()
{
  if (!(digitalRead(BUTTON)))
  {
    COUNT = 0;
    Serial.println("STOP COUNT = 0");
    digitalWrite(LED1, LOW);
    digitalWrite(LED2, LOW);
    delay (2000);
  }
  Serial.println(COUNT);
}
//-----
void RoteStateChanged() //When CLK FALLING READ DAT
{
  if (digitalRead(DAT)) // When DAT = HIGH IS FORWARD
  {
    COUNT++;
    digitalWrite(LED1, HIGH);
    digitalWrite(LED2, LOW);
    delay(20);
  }
  else // When DAT = LOW IS BackRote
  {
    COUNT--;
    digitalWrite(LED2, HIGH);
    digitalWrite(LED1, LOW);
    delay(20);
  }
}
```

## Result:

Wiring well and uploading the above code, you can rotate the encoder module to randomly control two LED modules on and off. When you rotate the encoder module, one LED module is turned on first but another one is off. If you continue to rotate the encoder module, one LED module becomes off while another one is turned on, repeatedly.