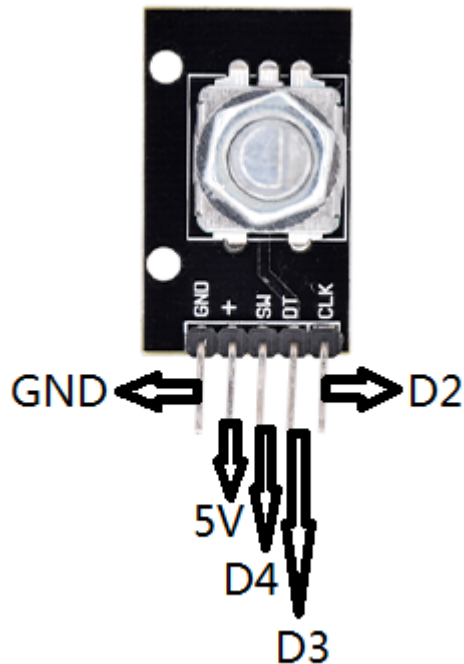


# Rotary Encoders module



## Description:

The rotary encoder is used to measure the speed and with PWM technology can achieve rapid speed devices  
With fixed bolt hole for easy installation  
Great for DIY project

## Specification:

Model: KY-040  
Working voltage: 5V  
Material: PCB + Brass  
Weight: 10g  
Size: 32 x 19 x 30mm

## CODE:

```
/*This is our website www.weikedz.com
For bulk orders, please feel free to contact
sophie@weikedz.com. If any question, for orders,
for technical problems, pls contact us.
We will response you fastest time. */
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 Resistance
  pinMode(DAT, INPUT);
  digitalWrite(3, HIGH);  // Pull High Resistance
  pinMode(BUTTON, INPUT);
  digitalWrite(4, HIGH);  // Pull High Resistance
  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);  
}  
}
```