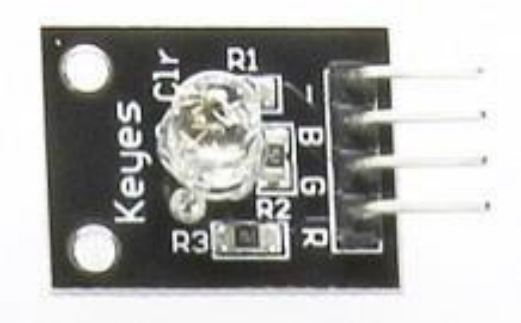
KY-016 RGB LED



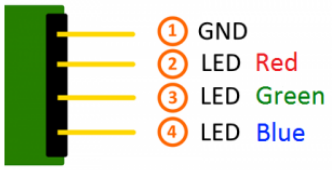
- RGB LED s čirým sklíčkem v jednom pouzdře, obsahuje tři LED diody červenou (red), zelenou (green) a modrou (blue)
- RGB LED diodou lze dosáhnout mnoha barevných kombinací, včetně bílé barvy při zapnutí všech tří diod najednou
- Napájení 5V LED se společnou katodou ("-" pin).
- Vestavěným ochranný sériovým rezistorem 150 ohm.

Specifications

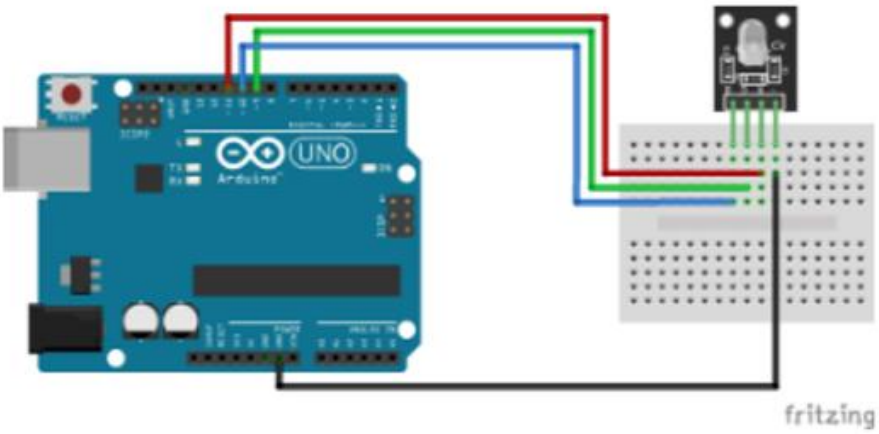
This module consists of a 5mm RGB LED and three 150Ω limiting resistors to prevent burnout. Adjusting the PWM signal on each color pin will result on different colors.

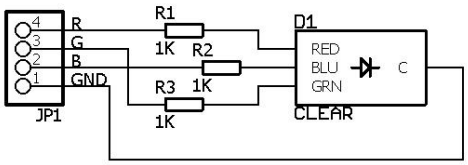
Operating Voltage	5V
LED drive mode	Common cathode driver
LED diameter	5 mm

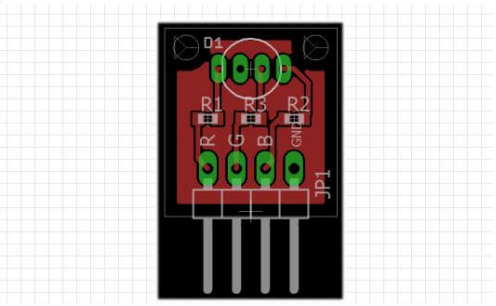
Pinout



KY-016	Arduino
R	Pin 11
B	Pin 10
G	Pin 9
-	GND







https://arduino.cz/forum/tema/1-projekt-rgb-led/
http://arduinonavody.cz/arduino-redgreenblue/
http://navody.arduino-shop.cz/navody-k-produktum/arduino-rgb-led-modul.html
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http://arduinomodules.info/ky-016-rgb-full-color-led-module/
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http://sensorkit.en.joy-it.net/index.php?title=KY-016_RGB_5mm_LED_module
http://www.adrirobot.it
https://tkkrlab.nl/wiki/Arduino_KY-016_3-color_LED_module
https://www.youtube.com/watch?v=le_LuROw5Ww

KY-016 Example Code

The following Arduino sketch will gradually increase/decrease the PWM values on the red, green and blue pins causing the LED to cycle through various colors.

```
int redpin = 11; // select the pin for the red LED
int bluepin =10; // select the pin for the  blue LED
int greenpin =9; // select the pin for the green LED

int val;

void setup() {
  pinMode(redpin, OUTPUT);
  pinMode(bluepin, OUTPUT);
  pinMode(greenpin, OUTPUT);
  Serial.begin(9600);
}

void loop() {
  for(val = 255; val > 0; val--)
  {
    analogWrite(11, val);
    analogWrite(10, 255 - val);
    analogWrite(9, 128 - val);

    Serial.println(val, DEC);
    delay(5);
  }
  for(val = 0; val < 255; val++)
  {
    analogWrite(11, val);
    analogWrite(10, 255 - val);
    analogWrite(9, 128 - val);

    Serial.println(val, DEC);
    delay(5);
  }
}
```