KY-034 7 Colour LED flash-module
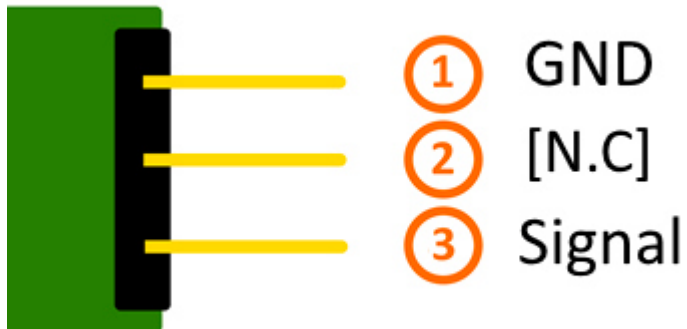
Contents

Picture

Technical data / Short description

If you connect this module with a power supply, a LED will light up which changes its colour automatically. It includes 7 different colours.

Voltage range: 3,3V - 5V

Pinout

Code example Arduino

This code example shows how you can switch a LED on for 4 seconds and than off for 2 seconds via defined output pin.

```
int Led = 13;

void setup ()
{
  pinMode (Led, OUTPUT); // Initialization of the LED output pin
}

void loop () // main program loop
{
  digitalWrite (Led, HIGH); // LED will be switched on
  delay (4000); // waitmode for 4 seconds
  digitalWrite (Led, LOW); // LED will be switched off
  delay (2000); // waitmode for another 2 seconds
}
```

Connections Arduino:

Sensor Signal   = [Pin 13]

Sensor [N.C]   =

Sensor GND   = [Pin GND]

Example program download:

KY-034_7-color-led-flash-module

Code example Raspberry Pi

```
# Needed modules will be imported and configured
import RPi.GPIO as GPIO
import time

GPIO.setmode(GPIO.BCM)

# Declaration of the input pin which is connected with the sensor.
# Additional to that the pull up resistor from the input will be activated.
LED_PIN = 24
GPIO.setup(LED_PIN, GPIO.OUT, initial= GPIO.LOW)

print "LED-Test [press ctrl+c to end]"

# main program loop
try:
        while True:
                print("LED is on for 4 seconds")
                GPIO.output(LED_PIN,GPIO.HIGH) #LED will be switched on
                time.sleep(4) # Waitmode for 4 seconds
                print("LED is off for 2 Sekunden")
                GPIO.output(LED_PIN,GPIO.LOW) #LED will be switched off
                time.sleep(2) # Waitmode for another 2 seconds

# Scavenging work after the end of the program
except KeyboardInterrupt:
        GPIO.cleanup()
```

Connections Raspberry Pi:

Sensor Signal   = GPIO24   [Pin 18]

Sensor [N.C]   =

Sensor GND   = GND   [Pin 6]

Example program download

KY-034_7-color-led-flash-module_RPi

To start, enter the command:

```
sudo python KY-034_7-color-led-flash-module_RPi.py
```