

KY-034 7 Colour LED flash-module

Revision as of 11:30, 21 April 2017 (view source) **Latest revision as of 15:15, 12 May 2017 (view source)**
 Sensorkit wiki admin (Talk | contribs) (→Code example Raspberry Pi) Sensorkit wiki admin (Talk | contribs) (→Code example Raspberry Pi)
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Line 50:

```
==Code example Raspberry Pi==
- Example in the language python
-
<pre class="brush:py"># Needed modules will be
imported and configured
import RPi.GPIO as GPIO
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KY-034 7 Colour LED flash-module

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 then 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()
```

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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
```