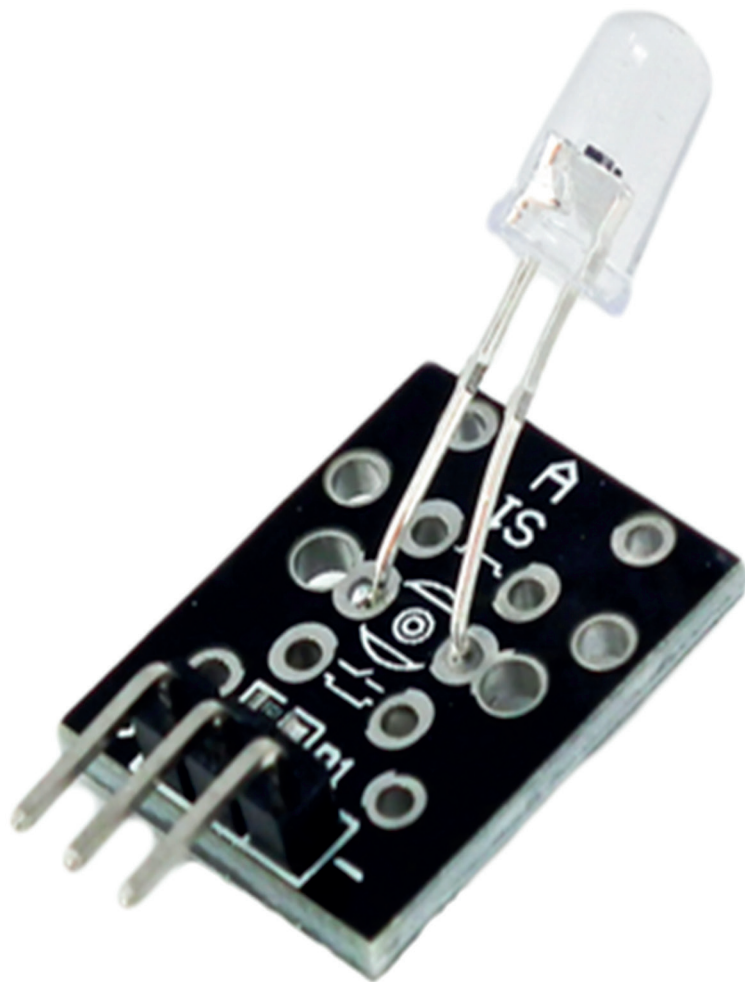


7 Color LED Modul Datenblatt



Contents:

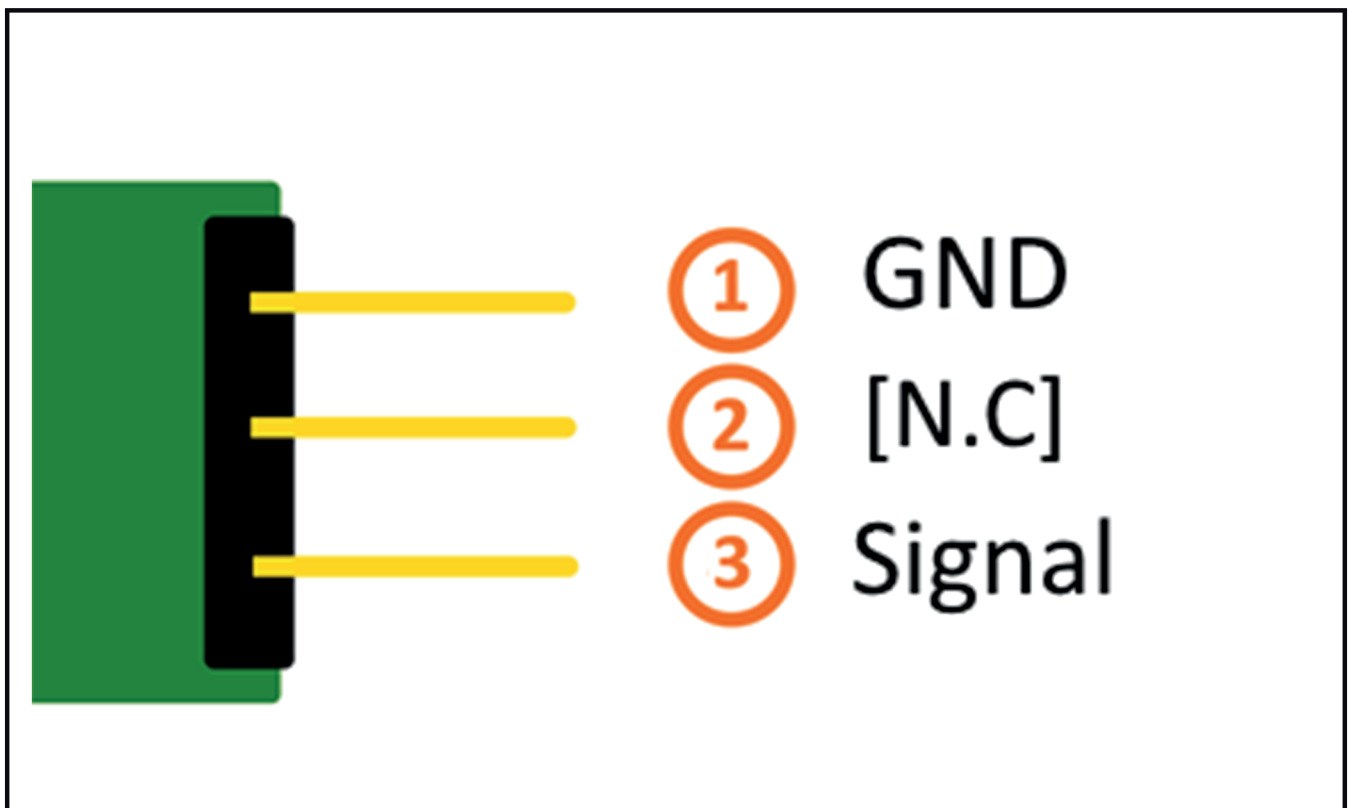
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1. Technical Data

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

2. Pinout



3. 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.

```
1  int Led = 13;
2
3  void setup ()
4  {
5    pinMode (Led, OUTPUT); // Initialization of the LED output pin
6  }
7
8  void loop () // main program loop
9  {
10   digitalWrite (Led, HIGH); // LED will be switched on
11   delay (4000); // waitmode for 4 seconds
12   digitalWrite (Led, LOW); // LED will be switched off
13   delay (2000); // waitmode for another 2 seconds
14 }
```

Connections Arduino:

Sensor Signal = [Pin 13]

Sensor [N.C]=

Sensor GND= [Pin GND]

4. Code example Raspberry Pi

```
1 # Needed modules will be imported and configured
2 import RPi.GPIO as GPIO
3 import time
4
5 GPIO.setmode(GPIO.BCM)
6
7 # Declaration of the input pin which is connected with the sensor.
8 # Additional to that the pull up resistor from the input will be activated.
9 LED_PIN = 24
10 GPIO.setup(LED_PIN, GPIO.OUT, initial= GPIO.LOW)
11
12 print "LED-Test [press ctrl+c to end]"
13
14 # main program loop
15 try:
16     while True:
17         print("LED is on for 4 seconds")
18         GPIO.output(LED_PIN,GPIO.HIGH) #LED will be switched on
19         time.sleep(4) # Waitmode for 4 seconds
20         print("LED is off for 2 Sekunden")
21         GPIO.output(LED_PIN,GPIO.LOW) #LED will be switched off
22         time.sleep(2) # Waitmode for another 2 seconds
23
24 # Scavenging work after the end of the program
25 except KeyboardInterrupt:
26     GPIO.cleanup()
```

Connections Raspberry Pi:

Sensor Signal= GPIO24 [Pin 18]

Sensor [N.C]=

Sensor GND= GND[Pin 6]

To start, enter the command:

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