



KY-012 Active Piezo-Buzzer module

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Pictures



Technical data / Short description

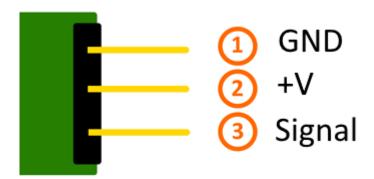
This Buzzer creates a sound with a frequency of 2,5kHz.

The active Buzzer-module doesn't need a square wave, unlike the passiv module (KY-006), to create a sound. If it gets a minimum Voltage of 3.3V at its signal pin, the buzzer will create the square wave by itself.



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Pinout



Code example Arduino

In this example, you will see how the buzzer will be ON for 4 seconds and then will be OFF for 2 seconds.

```
int Buzzer = 13;

void setup ()
{
   pinMode (Buzzer, OUTPUT); // Output pin initialization for the buzzer
}

void loop () //Main program loop
{
   digitalWrite (Buzzer, HIGH); // Buzzer will be on delay (4000); // Waitmode for 4 seconds digitalWrite (Buzzer, LOW); // Buzzer will be off delay (2000); // Waitmode for another 2 seconds in which the buzzer will be off
}
```

Connections Arduino:

```
Sensor Signal = [Pin 13]
Sensor [N.C] =
Sensor GND = [Pin GND]
```

Example program download:

KY-006-RPI_PWM

Code example Raspberry Pi

In this example, you will see how, with a defined output pin, the buzzer will be ON for 4 seconds and then will be OFF for 2 seconds.





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```
import RPi.GPIO as GPIO
import time
GPIO.setmode(GPIO.BCM)
# Output pin declaration for the Buzzer.
Buzzer_PIN = 24
GPIO.setup(Buzzer PIN, GPIO.OUT, initial= GPIO.LOW)
print ("Buzzer-test [press ctrl+c to end the test]")
# Main program loop
try:
          while True:
               print("Buzzer will be on for 4 seconds")
               GPIO.output(Buzzer_PIN,GPIO.HIGH) #Buzzer will be switched on time.sleep(4) #Waitmode for 4 seconds print("Buzzer wil be off for 4 seconds") GPIO.output(Buzzer_PIN,GPIO.LOW) #Buzzer will be switched off
               time.sleep(2) #WaiTmode for another 2 seconds in which the buzzer will be off
# Scavenging work after the end of the program
except KeyboardInterrupt:
          GPIO.cleanup()
```

Connections Raspberry Pi:

Sensor Signal = GPIO24 [Pin 18] Sensor [+V] = 3.3V [Pin 1] Sensor GND = GND [Pin 6]

Example program download

KY-012 Buzzer RPi

To start, enter the command:

sudo python KY-012_Buzzer_RPi.py