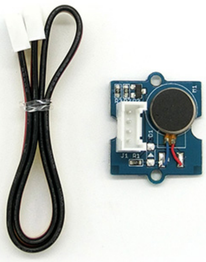
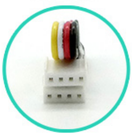
# Grove-Vibration Motor
# 振動馬達傳感器

**兼容Grove**
**無聲**
**低功耗**
**高可靠性**

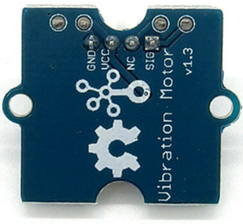


接口圖

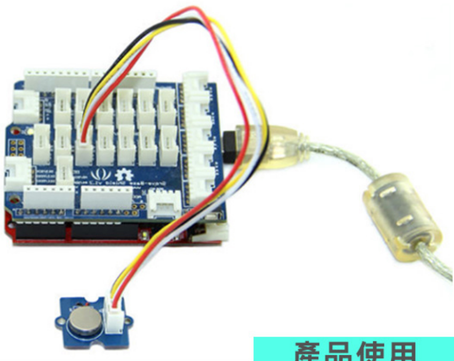


這是一款無聲的迷你震動馬達模組。當輸入高電平時，電機會像手機在靜音模式一樣振動。
支援 Arduino 與 Raspberry Pi藍莓派。

## 產品規格




工作電壓：3.0 V－5.5 V
控制模式：邏輯電平
（高電平電機啟動，低電平電機停止）
額定轉速：9000 rpm



## 產品使用

讓電機振動像點亮一個發光二極管一樣簡單。示例演示瞭如何讓啟動電機。

1.用Grove接線將電機接到Grove基礎擴展板的數字端口9。
2.將Grove基礎擴展板插到Arduino板上。
3.用USB線將Arduino連接到電腦。
4.將下面的代碼複製粘貼到一個新建的Arduino文件並載入到Arduino中。

```
int MoPin = 9; // vibrator Grove connected to digital pin 9

void setup() {
  pinMode( MoPin, OUTPUT );
}

void loop() {

    digitalWrite(MoPin, HIGH);
    delay(1000);

    digitalWrite(MoPin, LOW);
    delay(1000);
 }

}
```

藍莓派使用方式

1.You should have got a raspberry pi and a grovepi or grovepi+.
2.You should have completed configuring the development enviroment, otherwise follow here.
3.Connection

- Plug the sensor to grovepi socket D8 by using a grove cable.

4.Navigate to the demos' directory:

```
cd yourpath/GrovePi/Software/Python/
```

- To see the code

```
nano grove_vibration_motor.py   # "Ctrl+x" to exit #
```

```
import time
import grovepi

# Connect the Grove Vibration Motor to digital port D8
# SIG,NC,VCC,GND
vibration_motor = 8

grovepi.pinMode(vibration_motor,"OUTPUT")

while True:
    try:
        # Start vibrating for 1 second
        grovepi.digitalWrite(vibration_motor,1)
        print 'start'
        time.sleep(1)

        # Stop vibrating for 1 second, then repeat
        grovepi.digitalWrite(vibration_motor,0)
        print 'stop'
        time.sleep(1)

    except KeyboardInterrupt:
        grovepi.digitalWrite(vibration_motor,0)
        break
    except IOError:
        print "Error"
```

5.Run the demo.

```
sudo python grove_vibration_motor.py
```