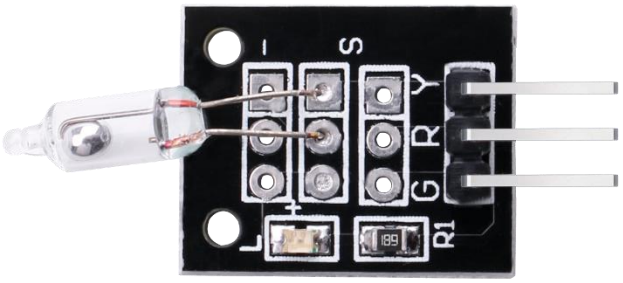
# Mercury tilt switch

## DESCRIPTION:

This mercury tilt switch module can detect when it is tilted. It works because the mercury ball flows into the gap between two electrodes and completes the circuit when the module is tilted at an angle.




## Specification：

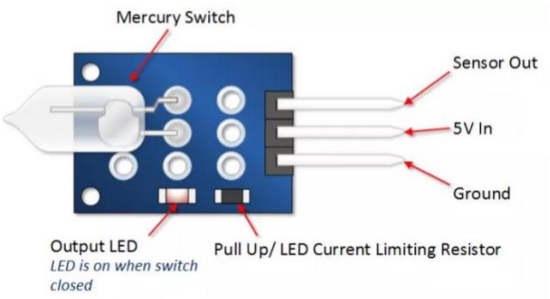
- Operation voltage:3.0~ 5V

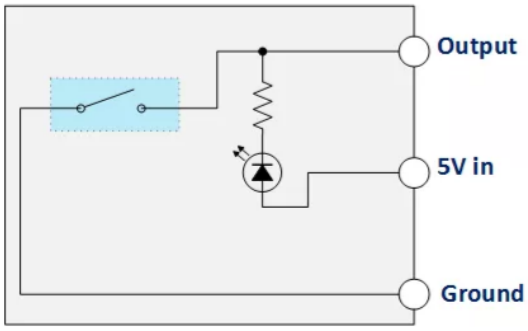
Weight: 1.508g

- Input type: digital signal

## PIN CONFIGURATION:

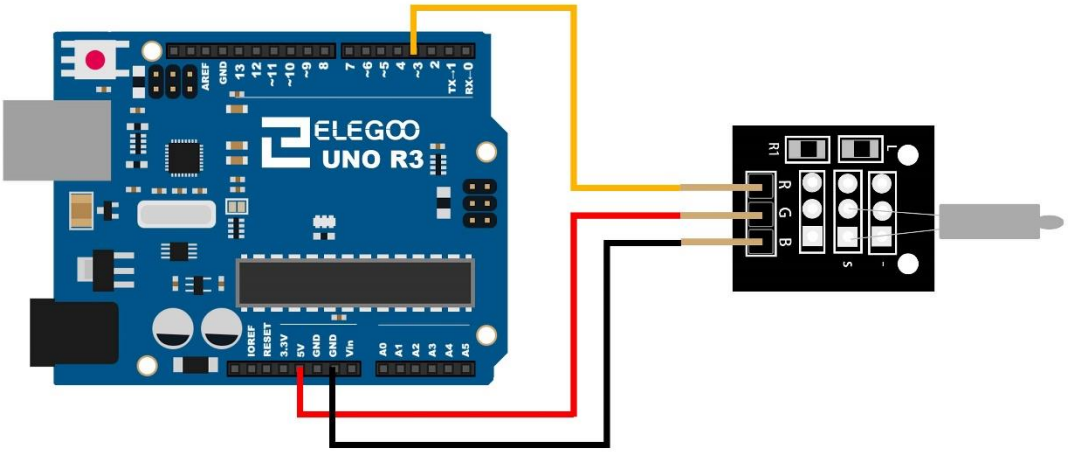
1、 “S”: Output pin
2、 “+” : +5V
3、 “-” : GND




## Example:

Here is an example that shows the LED's color flashing. When the mercury switch module is tilted at an certain angle, LED 13 lights up. The connection is as follows:




## Code:

```
int Led = 13; // define LED Interface
int Mercury = 3; // define the mercury tilt switch sensor interface
int val; // define numeric variables val

void setup() {
pinMode(Led, OUTPUT); // define LED as output interface
pinMode(Mercury, INPUT); // define the mercury tilt switch sensor output interface
}
```

```
void loop() {
val = digitalRead(Mercury); // read the values assigned to the digital interface 3 val

// When the mercury tilt switch sensor detects a signal, LED flashes
if (val == HIGH) {
digitalWrite(Led, HIGH);
}
else {
digitalWrite(Led, LOW);
}
}
```