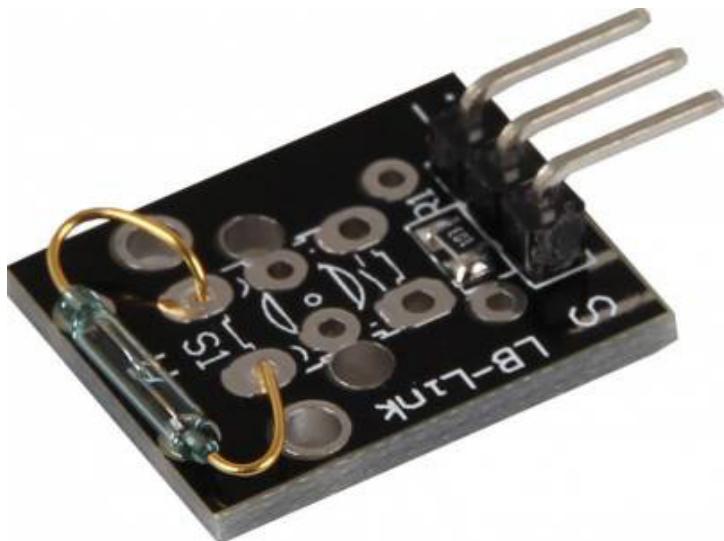


KY-021 Mini magnetic Reed module

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Picture

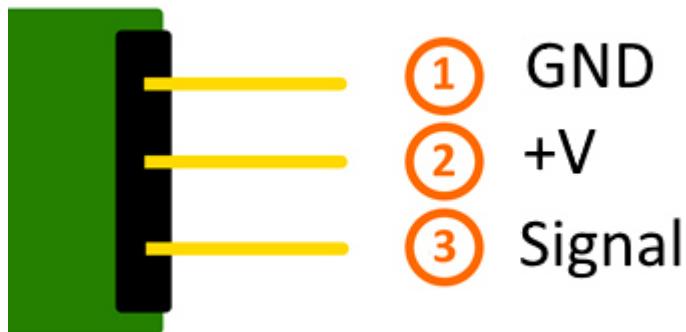


Technical data / Short description

If the sensor is close to a magnetic field, the input pins are connected.

KY-021 Mini magnetic Reed module

Pinout



Code example Arduino

This example will activate a LED if the sensor is close to a magnetic field.

The modules KY-011, KY-016 or KY-029 can be used as a LED.

```
int Led = 13 ;// Declaration of the LED output pin.  
int Sensor = 10; //Declaration of the sensor input pin  
int val; // Temporary variable  
  
void setup ()  
{  
    pinMode (Led, OUTPUT) ; // Initialization output pin  
    pinMode (Sensor, INPUT) ; // Initialization sensor pin  
}  
  
void loop ()  
{  
    val = digitalRead (Sensor) ; // The current signal at the sensor will be read  
  
    if (val == HIGH) // If a signal will be detected, the LED will light up.  
    {  
        digitalWrite (Led, LOW);  
    }  
    else  
    {  
        digitalWrite (Led, HIGH);  
    }  
}
```

Connections Arduino:

LED +	= [Pin 13]
LED -	= [Pin GND]
Sensor Signal	= [Pin 10]
Sensor +V	= [Pin 5V]

KY-021 Mini magnetic Reed module

Sensor - = [Pin GND]

Example program download

[SensorTest_Arduino_withoutPullUP](#)

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.
GPIO_PIN = 24
GPIO.setup(GPIO_PIN, GPIO.IN)

print "Sensor-test [press ctrl+c to end]"

# This outFunction will be started after a signal was detected.
def outFunction(null):
    print("Signal detected")

# The outFunction will be started after a signal (falling signal edge) was detected.
GPIO.add_event_detect(GPIO_PIN, GPIO.FALLING, callback=outFunction, bouncetime=100)

# main program loop
try:
    while True:
        time.sleep(1)

# Scavenging work after the end of the program
except KeyboardInterrupt:
    GPIO.cleanup()
```

Connections Raspberry Pi:

Signal	=	GPIO24	[Pin 18]
+V	=	3,3V	[Pin 1]
GND	=	GND	[Pin 6]

Example program download

[KY-021_mini-magnetic-reed_RPI](#)

To start, enter the command:

```
sudo python SensorTest_RPi_withoutPullUP.py
```