

PUSH-BUTTON MODULE

COM-KY004TM

1. GENERAL INFORMATION

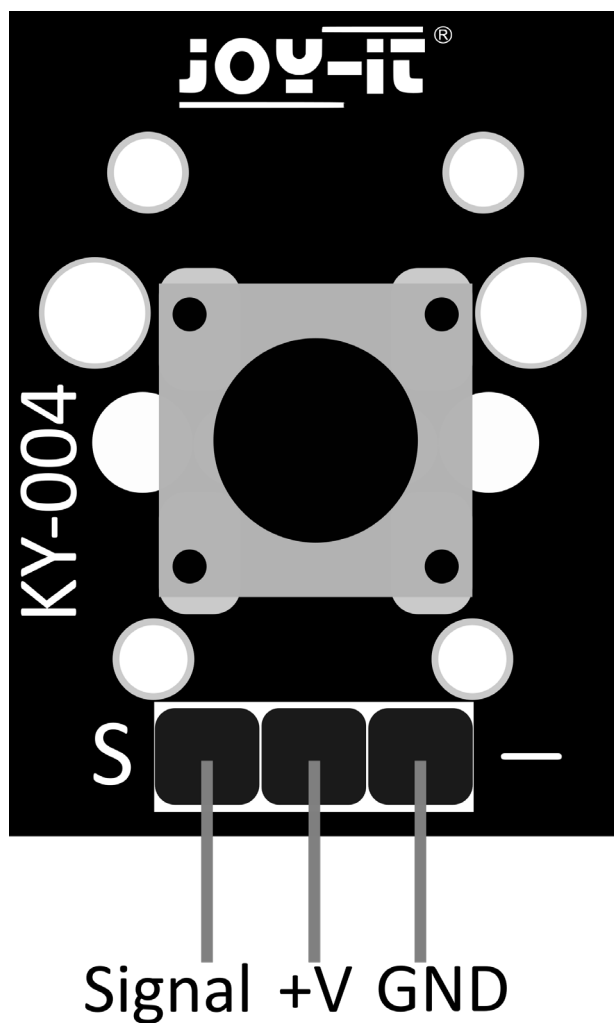
Dear customer,
thank you for choosing our product. Below we will show you what you need to bear in mind during commissioning and use.

Should you encounter any unexpected problems during use, please do not hesitate to contact us.

2. EQUIPMENT OVERVIEW

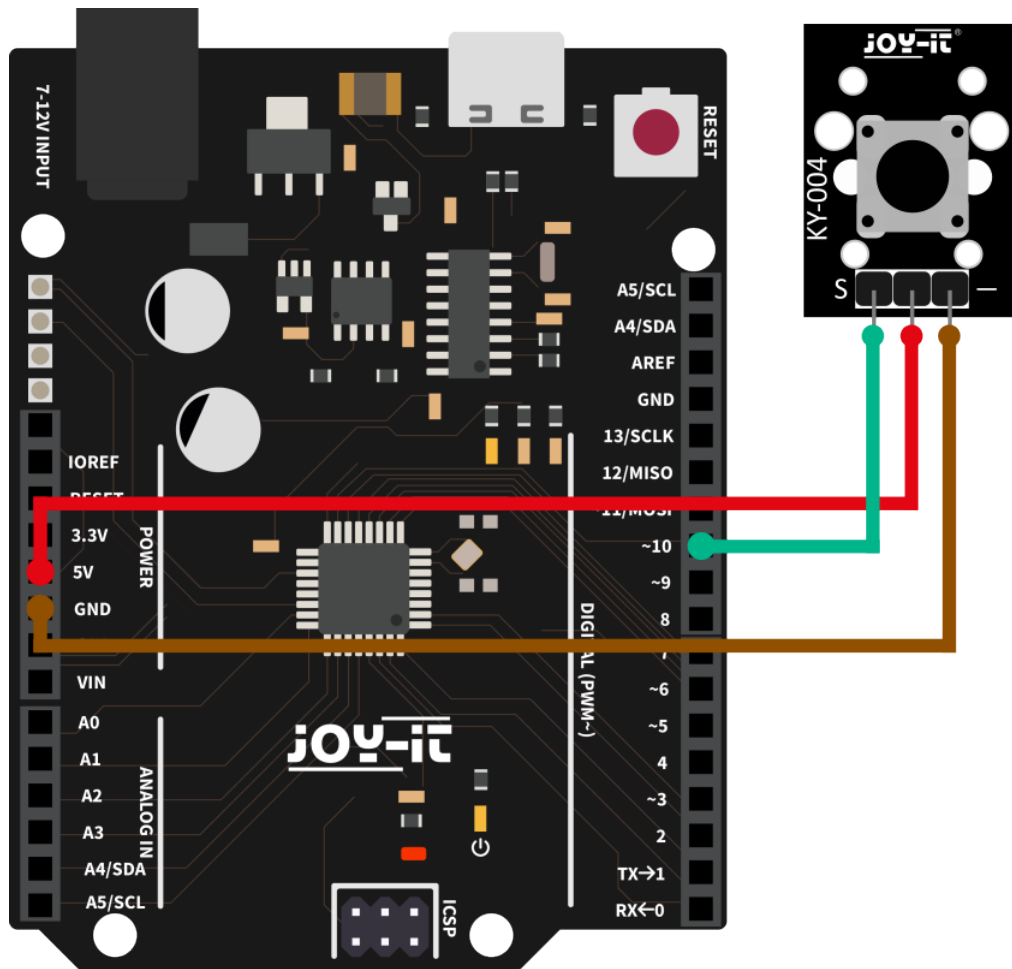
The module is fitted with a button that connects the signal pin to GND when activated.

There is also a pull-up resistor on the signal line, which pulls the signal to the connected supply voltage if it is not activated.



3. ARDUINO APPLICATION EXAMPLE

First connect the module to your Arduino:



TASTERMODUL	ARDUINO
-	GND
+	5 V
S	Pin 10

now transfer the following code example to your Arduino.

```
int Sensor = 10; // Declaration of the sensor input pin
int val; // Temporaere Variable

void setup() {
  Serial.begin(9600);
  pinMode(Sensor, INPUT); // Initialization sensor pin
}

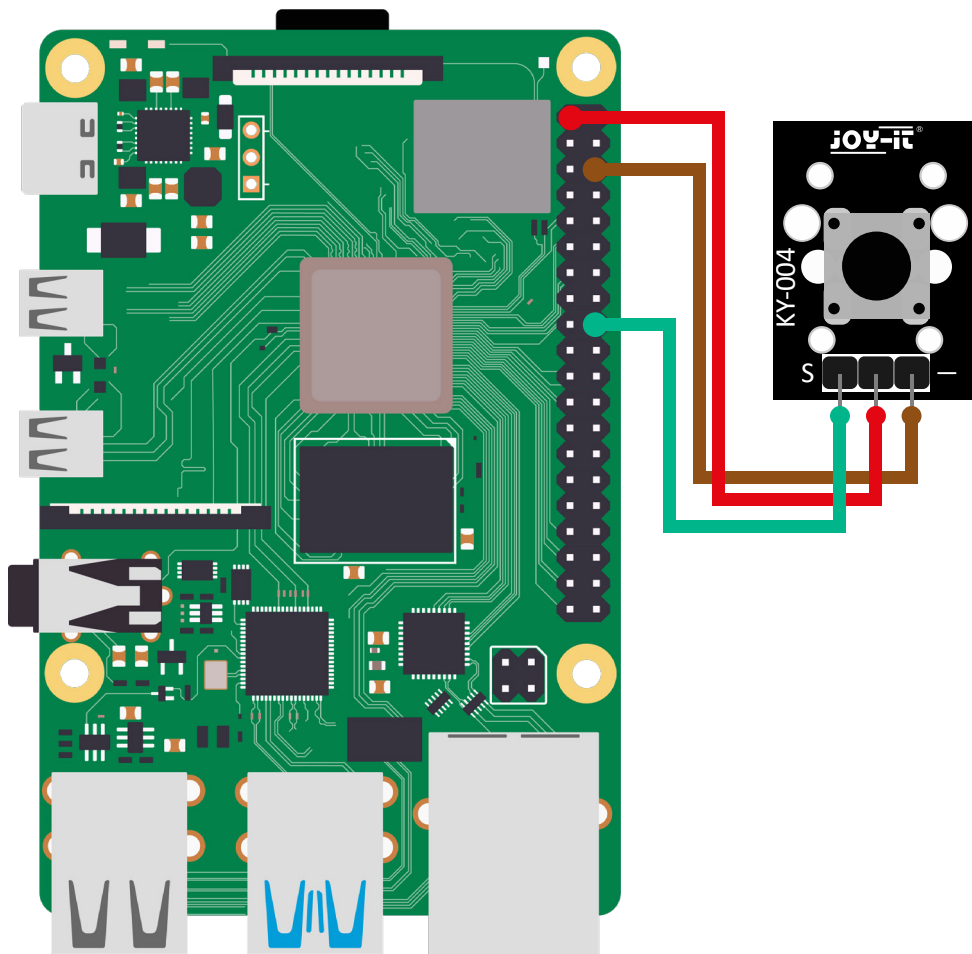
void loop() {
  // The current signal at the sensor is read out
  val = digitalRead(Sensor);
  // If a signal was detected, a message is output.
  if (trap == LOW) {
    Serial.println("Button pressed!");
  }
}
```

4. APPLICATION EXAMPLE RASPBERRY PI



These instructions were written under Raspberry Pi OS Bookworm for the Raspberry Pi 4 and 5. It has not been checked with newer operating systems or hardware.

First connect the module to your Raspberry Pi.



TASTERMODUL	RASPBERRY PI
-	GND
+	3V3
S	GPIO24

You can now create a new Python file with the following command:

```
nano COM-KY004TM.py
```

now transfer the following code example to your Raspberry Pi:

```
from gpiozero import Button
import time

# The sensor is initialized as a button object,
# with the internal pull-up resistor activated.
sensor = Button(24,pull_up=True)

print("Sensor test [press CTRL+C to end the test]")

# This function is executed when a signal is detected (falling edge).
def outputFunction():
    print("Signal detected")

# The 'outputFunction' function is passed to the 'when_pressed' event
# of the sensor.
sensor.when_pressed = outputFunction

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

# Clean-up work after the program has been completed
except KeyboardInterrupt:
    print("Program finished")
```

You can now start the example with this command:

```
python3 COM-KY004TM.py
```

5. INFORMATION & TAKE-BACK OBLIGATIONS

Our information and take-back obligations under the German Electrical and Electronic Equipment Act (ElektroG)



Symbol on electrical and electronic equipment:

This crossed-out garbage can means that electrical and electronic appliances **do not** belong in household waste. You must hand in the old appliances at a collection point. Before handing them in, you must separate used batteries and accumulators that are not enclosed by the old appliance.

Return options:

As an end user, you can hand in your old appliance (which essentially fulfills the same function as the new appliance purchased from us) for disposal free of charge when purchasing a new appliance. Small appliances with no external dimensions greater than 25 cm can be disposed of in normal household quantities regardless of whether you have purchased a new appliance.

Possibility of return at our company location during opening hours:

SIMAC Electronics GmbH, Pascalstr. 8, D-47506 Neukirchen-Vluyn

Return option in your area:

We will send you a parcel stamp with which you can return the device to us free of charge. To do so, please contact us by e-mail at Service@joy-it.net or by telephone.

Packaging information:

Please pack your old appliance securely for transportation. If you do not have suitable packaging material or do not wish to use your own, please contact us and we will send you suitable packaging.

6. SUPPORT

We are also there for you after your purchase. If you still have any questions or problems arise, we are also available by e-mail, telephone and ticket support system.

E-Mail: service@joy-it.net

Ticket-System: <https://support.joy-it.net>

Phone: +49 (0)2845 9360 - 50 (Mon - Thur: 09:00 - 17:00 o'clock CET,
Fri: 09:00 - 14:30 o'clock CET)

For further information, please visit our website:

www.joy-it.net