5-WAY NAVIGATION SWITCH

Navigation switch with 5 directions and two additional buttons

1. GENERAL INFORMATION

Dear Customer,
thank you for choosing our product. In the following, we will show you what to consider during commissioning and use.

Should you encounter any unexpected problems during use, please feel free to contact us.
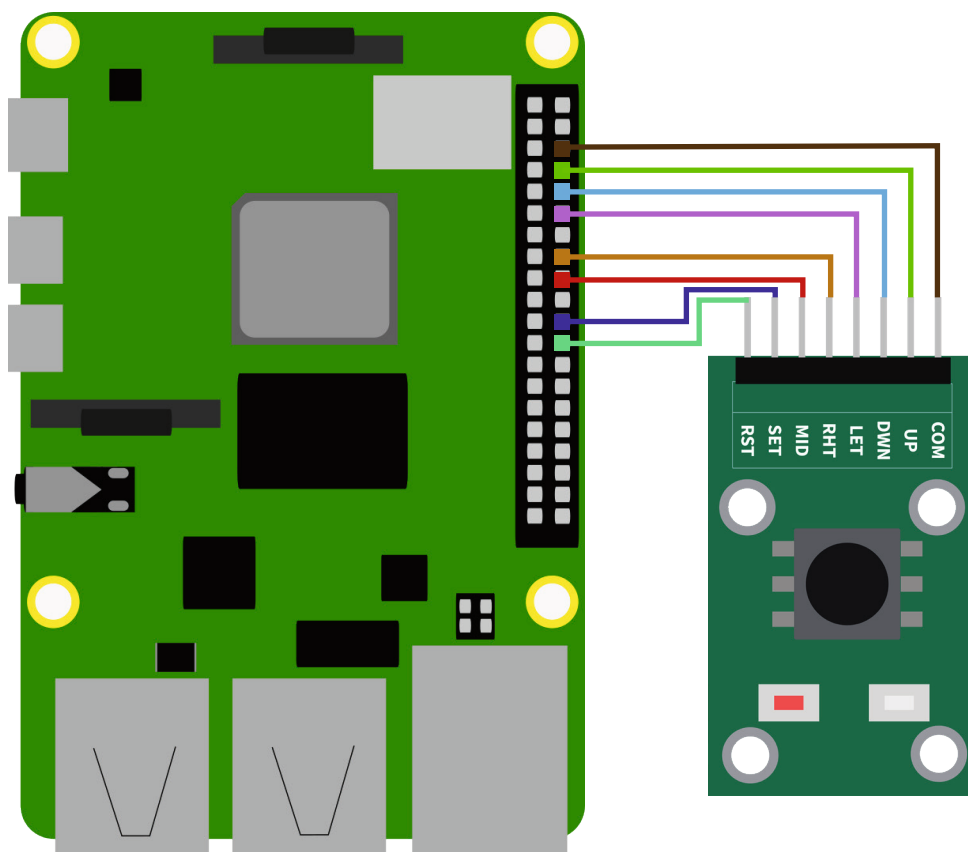
2. BASICS & CONNECTION OF THE MODULE

The navigation switch has a total of 5 directions (left, right, up, down, press) and is equipped with two additional buttons. All contacts are closed via a common ground pin.

The module can be connected as follows:

Ground	COM
Up	UP
Down	DWN
Left	LET
Right	RHT
Center	MID
SET-Button	SET
RST-Button	RST
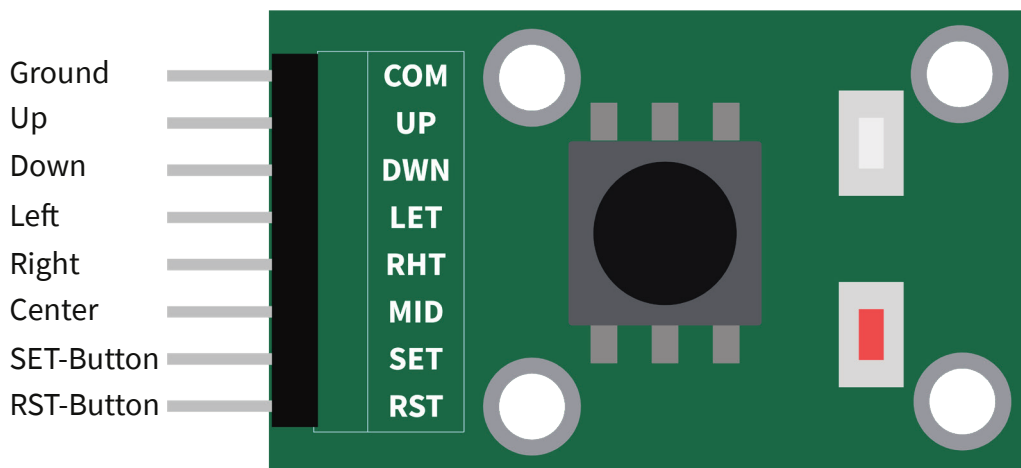
First connect the module to your Raspberry Pi:

RASPBERRY PI	5-WAY SWITCH
COM	GND
GPIO14	UP
GPIO15	DWN
GPIO18	LET
GPIO23	RHT
GPIO24	MID
GPIO25	SET
GPIO8	RST

Now transfer the following code example to your Raspberry Pi:

```python
import RPi.GPIO as GPIO
import time

upPin = 14
dwnPin = 15
letPin = 18
rhtPin = 23
midPin = 24
setPin = 25
rstPin = 8

GPIO.setmode(GPIO.BCM)

GPIO.setup(upPin, GPIO.IN, pull_up_down = GPIO.PUD_UP)
GPIO.setup(dwnPin, GPIO.IN, pull_up_down = GPIO.PUD_UP)
GPIO.setup(letPin, GPIO.IN, pull_up_down = GPIO.PUD_UP)
GPIO.setup(rhtPin, GPIO.IN, pull_up_down = GPIO.PUD_UP)
GPIO.setup(midPin, GPIO.IN, pull_up_down = GPIO.PUD_UP)
GPIO.setup(setPin, GPIO.IN, pull_up_down = GPIO.PUD_UP)
GPIO.setup(rstPin, GPIO.IN, pull_up_down = GPIO.PUD_UP)

while True:
    if GPIO.input(upPin) == 0:
        print("Up")
    if GPIO.input(dwnPin) == 0:
        print("Down")
    if GPIO.input(letPin) == 0:
        print("Left")
    if GPIO.input(rhtPin) == 0:
        print("Right")
    if GPIO.input(midPin) == 0:
        print("Center pressed")
    if GPIO.input(setPin) == 0:
        print("SET Button pressed")
    if GPIO.input(rstPin) == 0:
        print("RST Button pressed")

    time.sleep(0.5)
```

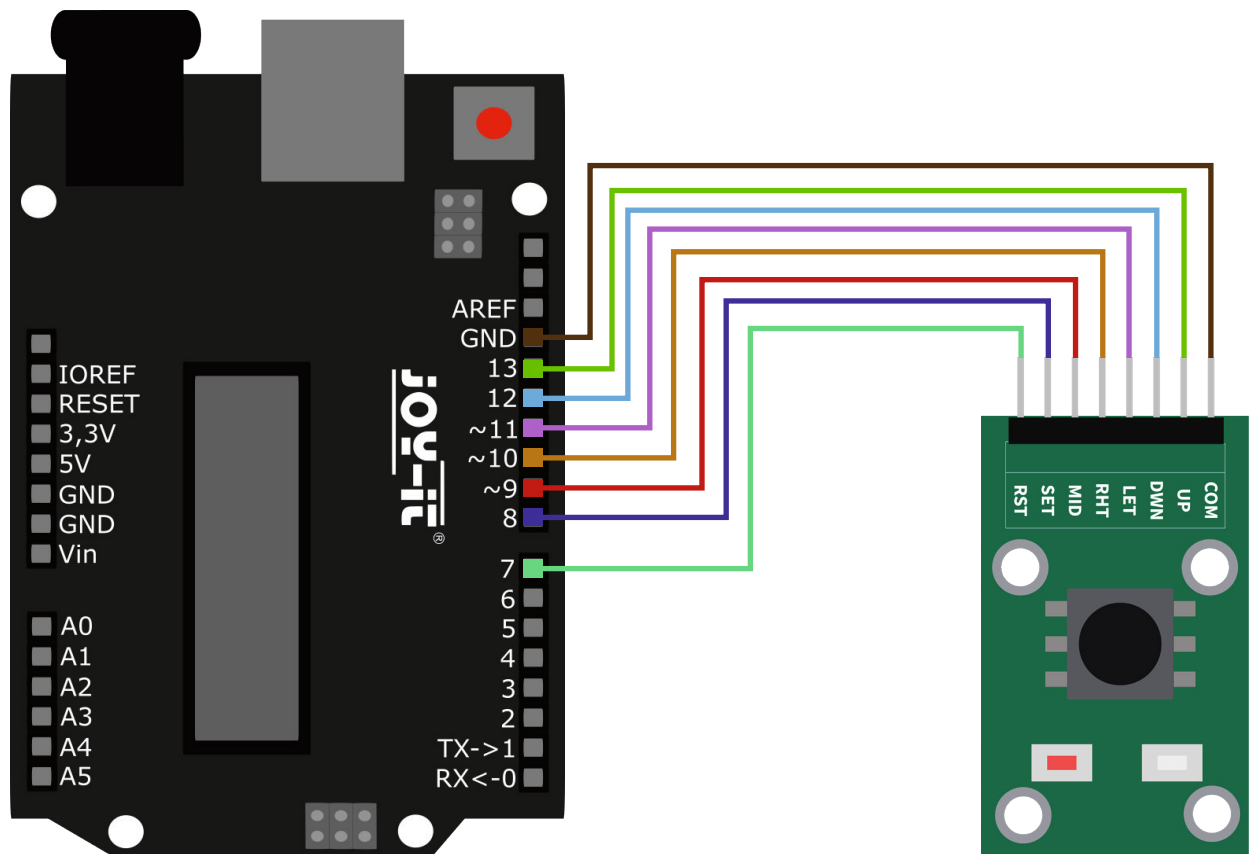Alternatively, you can download it using the following command:

```
wget https://joy-it.net/files/files/Produkte/COM-5WS/COM-5WS-RPi.zip
unzip COM-5WS-RPi.zip
```

Now run the sample program with the following command:

```
sudo python3 COM-5WS-RPi.zip
```

First connect the module to your Arduino:

ARDUINO	5-WAY SWITCH
GND	GND
D13	UP
D12	DWN
D11	LET
D10	RHT
D9	MID
D8	SET
D7	RST

Now transfer the following code example to your Arduino. Alternatively you can download it **here**.

```arduino
int upPin = 13;
int dwnPin = 12;
int letPin = 11;
int rhtPin = 10;
int midPin = 9;
int setPin = 8;
int rstPin = 7;

void setup() {
  Serial.begin(9600);
  pinMode(upPin, INPUT_PULLUP);
  pinMode(dwnPin, INPUT_PULLUP);
  pinMode(letPin, INPUT_PULLUP);
  pinMode(rhtPin, INPUT_PULLUP);
  pinMode(midPin, INPUT_PULLUP);
  pinMode(setPin, INPUT_PULLUP);
  pinMode(rstPin, INPUT_PULLUP);
}

void loop() {
  if(digitalRead(upPin) == LOW){
    Serial.println("Up");
  }
  if(digitalRead(dwnPin) == LOW){
    Serial.println("Down");
  }
  if(digitalRead(letPin) == LOW){
    Serial.println("Left");
  }
  if(digitalRead(rhtPin) == LOW){
    Serial.println("Right");
  }
  if(digitalRead(midPin) == LOW){
    Serial.println("Center Button pressed");
  }
  if(digitalRead(setPin) == LOW){
    Serial.println("SET Button pressed");
  }
  if(digitalRead(rstPin) == LOW){
    Serial.println("RST Button pressed");
  }
  delay(500);
}
```

5. INFORMATION & TAKE-BACK OBLIGATIONS

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

Symbol on electrical and electronic equipment:
This crossed-out trash can means that electrical and electronic equipment does **not** belong in the household trash. You must hand in the old equipment at a collection point. Before dropping off, you must separate used batteries and accumulators that are not enclosed in the old device from the old device.

Return options:
As an end user, when you purchase a new appliance, you can return your old appliance (which performs essentially the same function as the new one purchased from us) for disposal free of charge. Small appliances with no external dimensions larger than 25 cm can be returned in normal household quantities, regardless of the purchase of a new appliance.

Possibility return to our company location during opening hours:
SIMAC Electronics GmbH, Pascalstr. 8, D-47506 Neukirchen-Vluyn

Possibility return in your area:
We will send you a parcel stamp with which you can return the device to us free of charge. To do this, please contact us by e-mail at service@joy-it.net or by phone.

Packaging information:
Please pack your old device securely for transport. 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 the purchase. If you 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: http://support.joy-it.net
Phone: +49 (0)2845 9360 – 50 (9:30 - 17:15 o'clock)

For more information visit our website:
www.joy-it.net

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