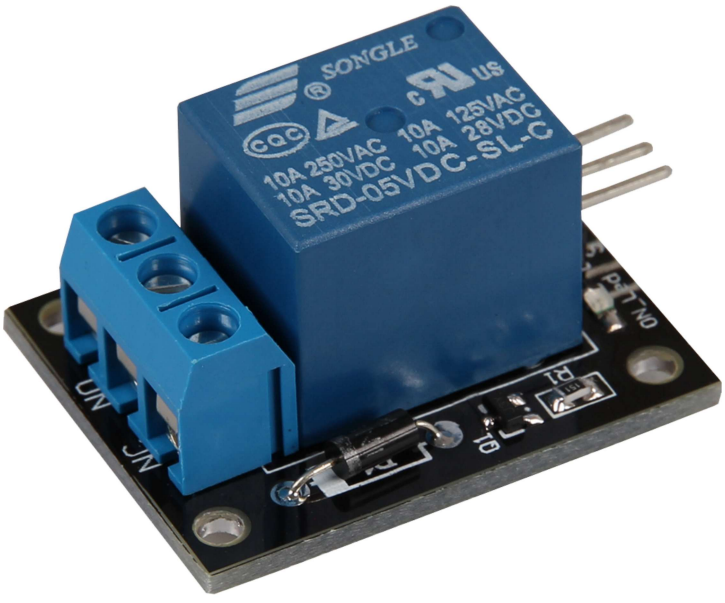
KY-019 5V RELAIS

This module is a 5V relay for switching higher currents.

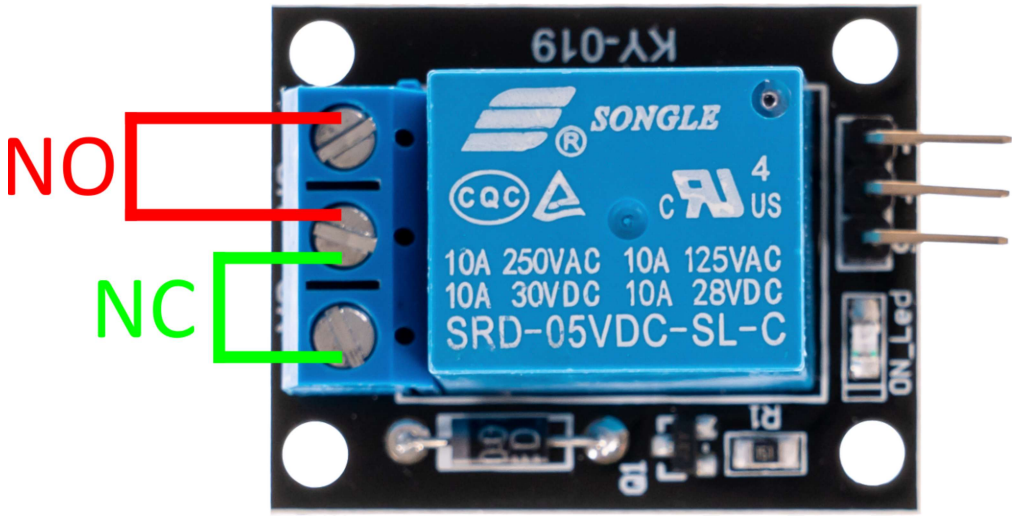
Arduino **Raspberry Pi** **Micro:Bit**



This module is a 5 V relay for switching higher currents. The relay switches the higher voltage when 5 V are applied to the voltage input of the switch.

The output header of the relay has two output terminals:

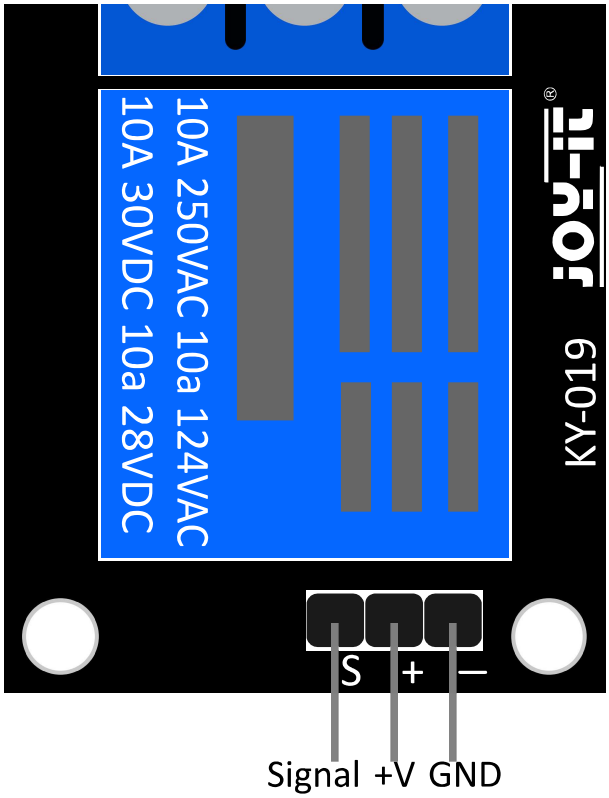
- What is marked "NO" for "normally open" in the figure below means that this passage is open or disconnected by default without electrical switching at the relay.



TECHNICAL DATA

Voltage range (AC)	0 V - 240 V AC at 10 A
Voltage range (DC)	0 V - 28 V DC at 10 A
Required switching current	ca. 15 - 20 mA
Relay type	Changeover switch
Dimensions	53 x 18 x 20 mm

PIN ASSIGNMENT



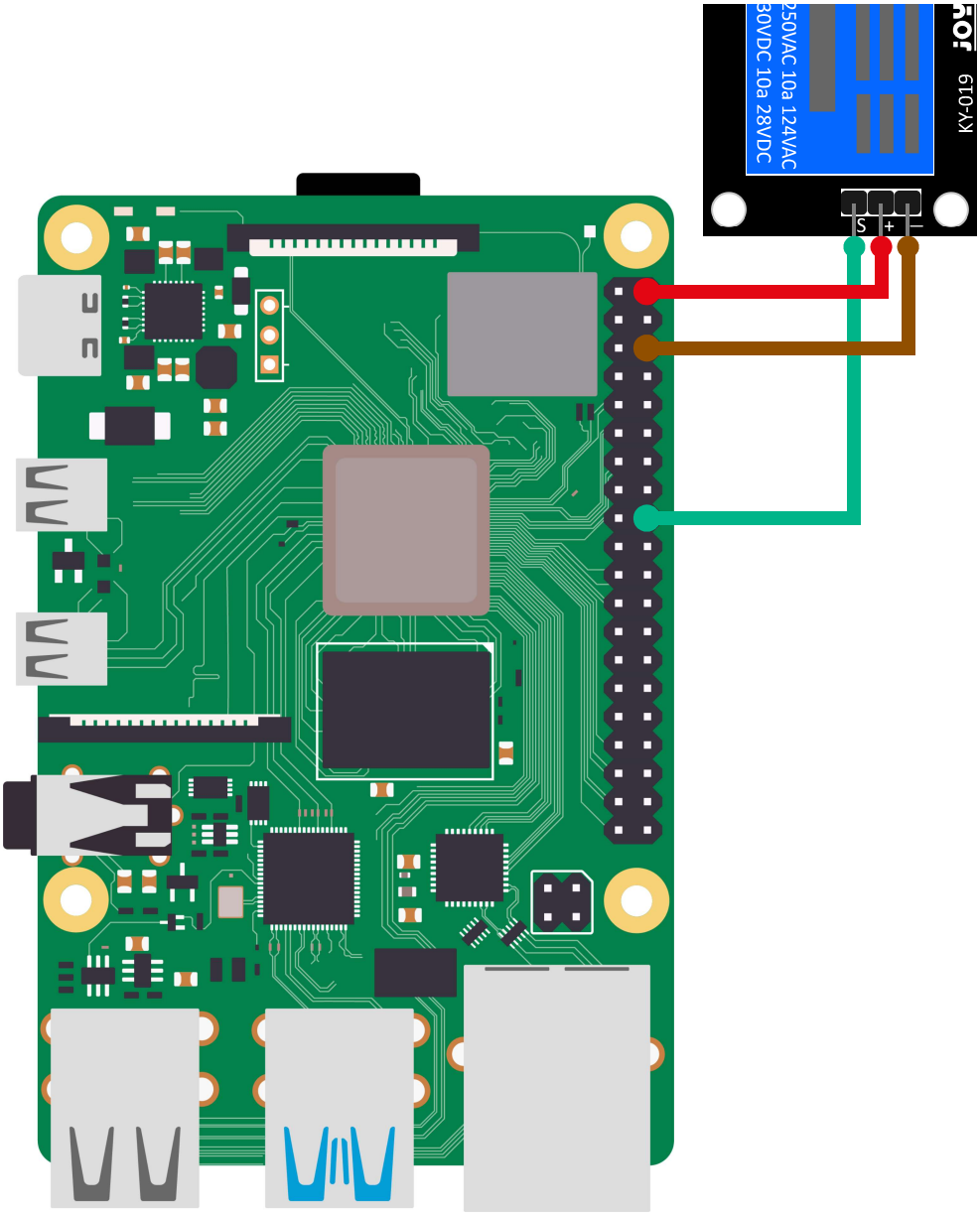
WARNING

Working with voltages higher than 30 V and especially with mains voltage (230 V) can cause physical damage and even be fatal.

We advise that work with higher voltages should only be carried out with the appropriate professional competence.

CODE EXAMPLE RASPBERRY PI

PIN ASSIGNMENT RASPBERRY PI



RASPBERRY PI	SENSOR
GPIO 24 [Pin 18]	Signal
5 V [Pin 2]	+V
GND [Pin 6]	GND

The program simulates a flashing light - it switches the relay between the two states (or output terminals) in predefined time (delayTime).

```
# Required modules are imported and set up
import RPi.GPIO as GPIO

```

```
7  # here the pause (in seconds) between switching is declared
8  delayTime = 1
9
10 # Here the input pin is declared to which the sensor is connected. Ac
11 RELAY_PIN = 24
12 GPIO.setup(RELAIS_PIN, GPIO.OUT)
   GPIO.output(RELAIS_PIN, False)
```