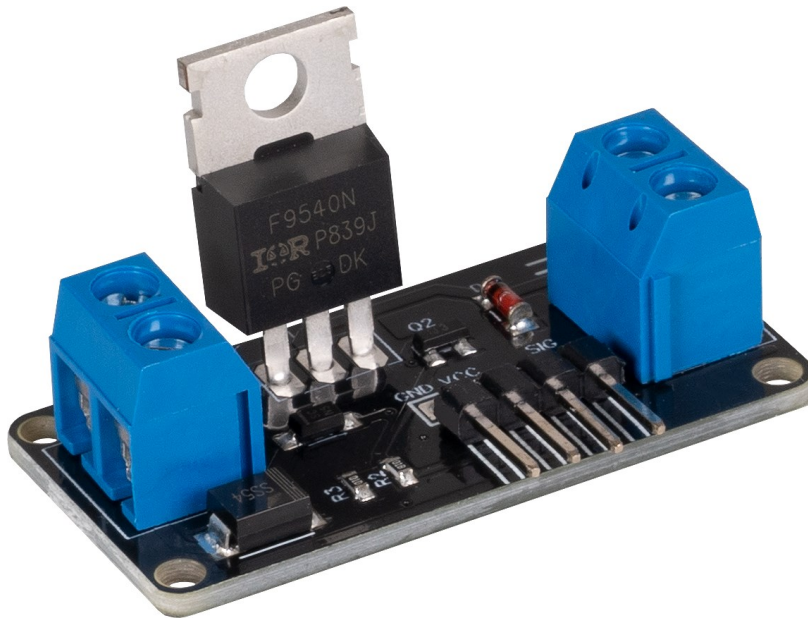# FIELD-EFFECT TRANSISTOR FOR CONTROLLING HIGHER VOLTAGES

COM-MOSFET

1. GENERAL INFORMATION

Dear costumer,

thank you very much for choosing our product.

In the following, we will introduce you to what to observe while starting up and using this product.

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

The maximum permissible input voltage is 36 V.

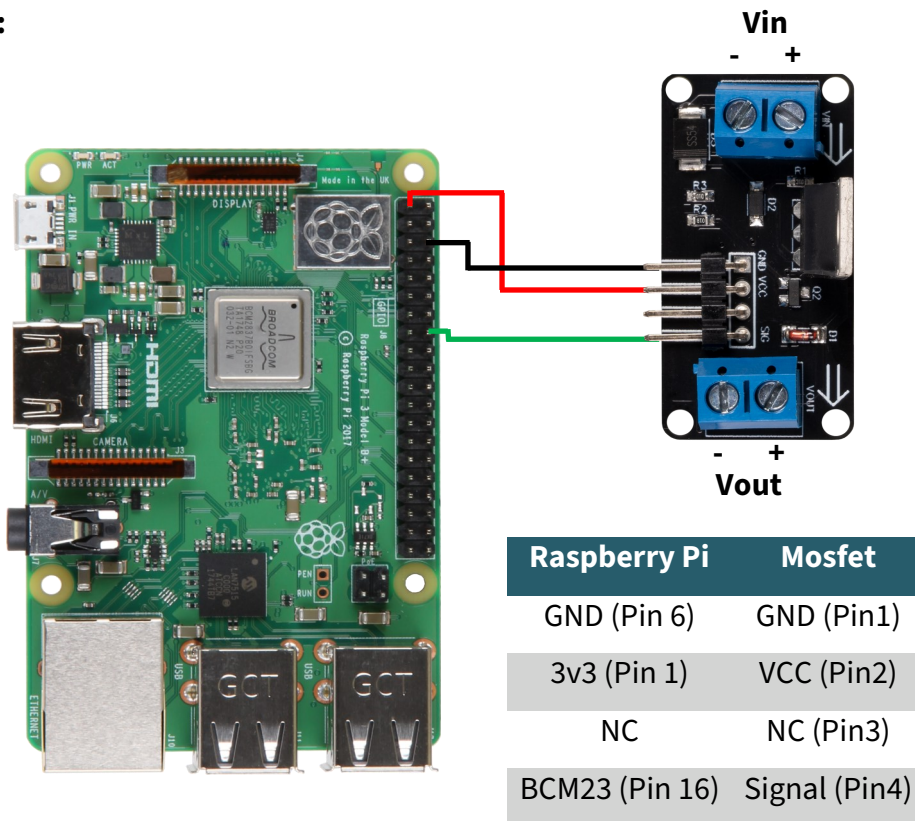**The maximum permissible operating current is 2 A.**

Never exceed these limits.

ℹ️ This guide was written under Raspberry Pi OS Bookworm for the Raspberry Pi 4 and 5. It has not been checked with newer operating systems or hardware.

Wiring:

Raspberry Pi	Mosfet
GND (Pin 6)	GND (Pin1)
3v3 (Pin 1)	VCC (Pin2)
NC	NC (Pin3)
BCM23 (Pin 16)	Signal (Pin4)

Code example:

If the signal pin is set to high, the output is activated. In the following code example, the output is activated every 15 seconds for 10 seconds.

```python
from gpiozero import OutputDevice
from time import sleep

# Initialize the OutputDevice using the BCM pin number
# Note: GPIO.BOARD pin 16 corresponds to BCM pin 23
signal_pin = OutputDevice(23)

try:
    while True:
        signal_pin.on()
        print("Output enabled")
        sleep(10)
        signal_pin.off()
        print("Output disabled")
        sleep(5)
except KeyboardInterrupt:
    signal_pin.close()
    print("Program terminated by user")
```

Wiring:

Vin
-    +

-    +
Vout
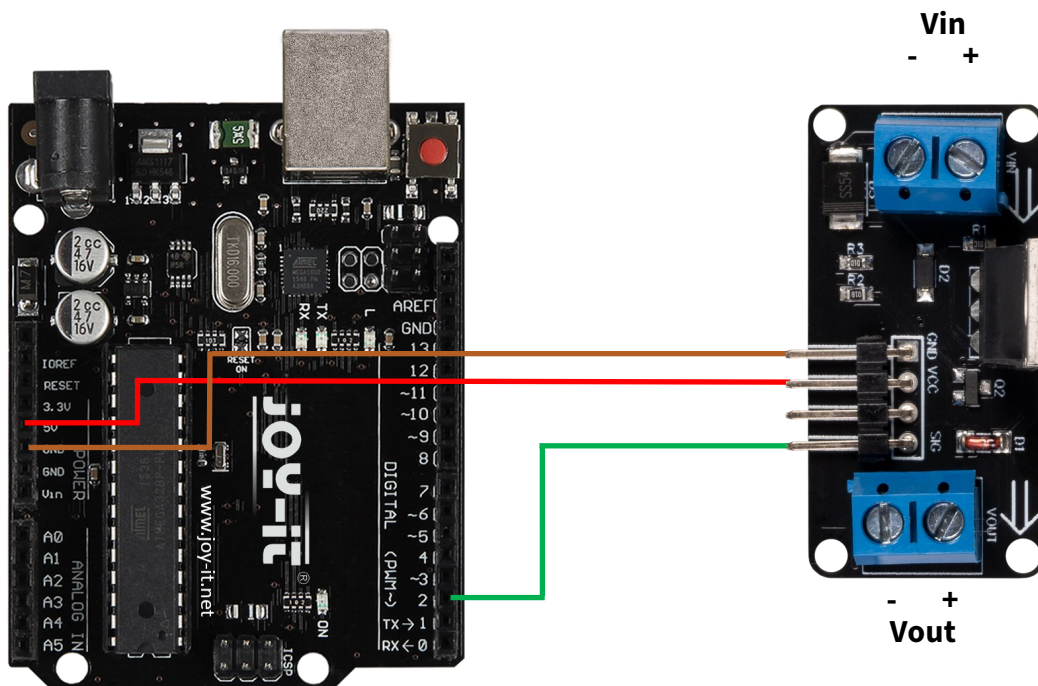
Arduino	Mosfet
GND	GND (Pin1)
5V	VCC (Pin2)
NC	NC (Pin3)
Digital Pin 2	Signal (Pin4)

Code example:

If the signal pin is set to high, the output is activated. In the following code example, the output is activated every 15 seconds for 10 seconds.

Before uploading, make sure that you have set the correct board and port in your Arduino IDE.

```
void setup() {
  Serial.begin(9600);
  pinMode(2, OUTPUT);
}
void loop() {
  digitalWrite(2, HIGH);
  Serial.println("Output enabled...");
  delay(10000);
  digitalWrite(2, LOW);
  Serial.println("Output disabled...");
  delay(5000);
}
```

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

Symbol on electrical and electronic equipment:

This crossed-out dustbin means that electrical and electronic appliances do not belong in the household waste. You must return the old appliances to a collection point.
Before handing over waste batteries and accumulators that are not enclosed by waste equipment must be separated from it.

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

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

Possibility of return in your area:
We will send you a parcel stamp with which you can return the device to us free of charge. Please contact us by e-mail at Service@joy-it.net or by telephone.

Information on packaging:
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.

If there are still any issues pending or problems arising after your purchase, we will support you by e-mail, telephone and with our ticket support system.

E-Mail: service@joy-it.net
Ticket system: https://support.joy-it.net
Telephone: +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

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