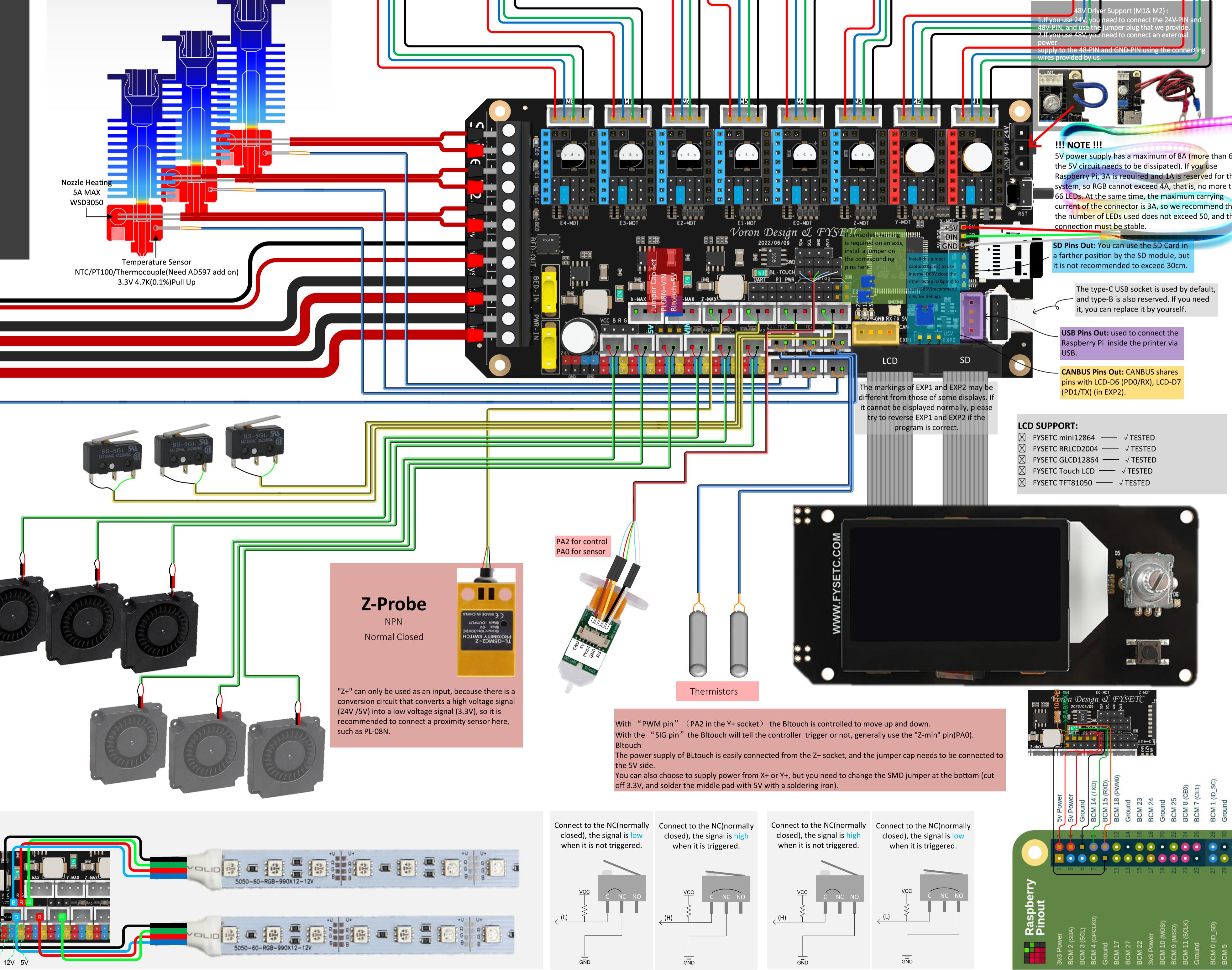


# Spider V2.3

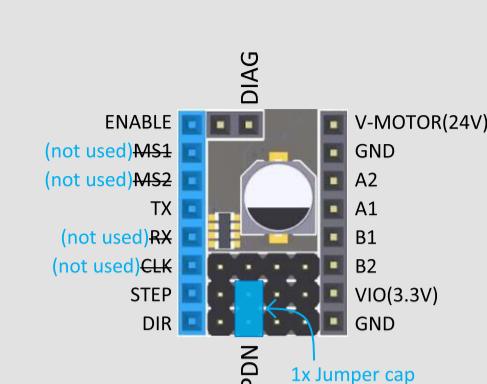
## Wiring diagram

By Eli Wong

More Information: [wiki.fysetc.com/spider](http://wiki.fysetc.com/spider)



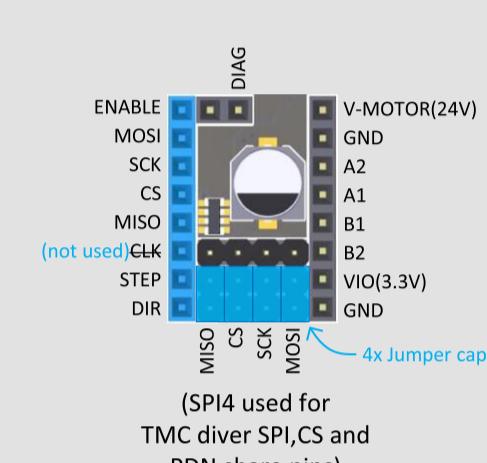
USE FYSETC TMC 2209 V3.1



PDN: It is connected to TX for communication between TMC and MCU, using single wire. The jumper cap shown in the figure must be setted before the drive module install.

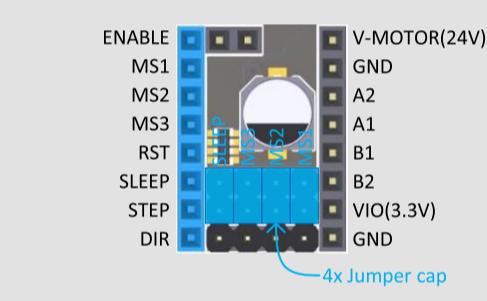
DIAG: It is used to go home without sensing, while ensuring that the jumper corresponding to the limit is in the closed state.

USE FYSETC 2130/5160/5161



DIAG: It is used to go home without sensing, while ensuring that the jumper corresponding to the limit is in the closed state.

USE 4988 or 4988like driver



Connect the Raspberry Pi to Spider

The spider provides a serial port for connecting to the Raspberry Pi or WiFi module, and this interface has a strong enough (8A MAX) 5V power supply. In order to use the only hardware serial port of the Raspberry Pi, you need to disable the console function and map the hardware serial port to GPIO14 and GPIO15.

You can refer here:

```

sudo raspi-config
=> Interfacing Option
=> Serial
=> NO
=> YES
sudo nano /boot/config.txt
=> add this line :
dtoverlay=pi3-disable-bt
=> then
sudo reboot
sudo nano /boot/cmdline.txt
=> remove the word phase
"console=serial0,115200" or
"console=ttyAMA0,115200"
sudo reboot

```

AWG	Normal	MAX
26	0.506	0.577
25	0.641	0.731
24	0.808	0.921
23	1.022	1.165
22	1.28	1.460
21	1.6	1.9
20	2.0	2.3
19	2.6	2.9
18	3.2	3.7
17	4.1	4.7
16	5.2	5.9
15	6.5	7.4
14	8.2	9.4
13	10.4	11.8
12	13.1	14.9
11	16.5	18.8
10	20.8	23.7