

1. How to power up the device?

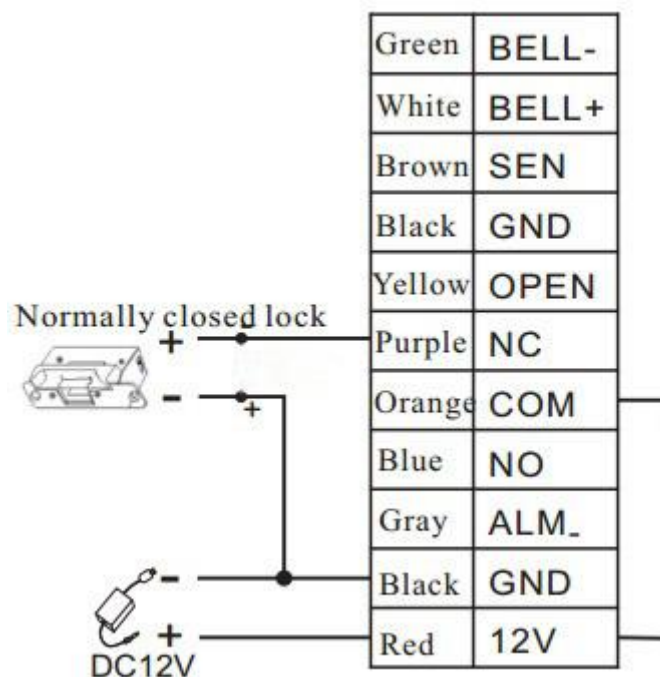
- a) This is professional fingerprint access control device, used for lock open, normally, there is no power supply unit configured with this device. It's supposed that it will get power from the lock power source.
- b) But here we put one adapter power supply, it's easier for you to start for some testing.
- c) For lock control, please use **professional power supply** unit, such as below one. (if use below one or similar power supply, to power it up, wire as:
 - i. The red wire of fingerprint device to the +12V of power supply
 - ii. The black wire(any black one of the two black color) to the GND of power supply.



2. How to connect to Lock(Normal close lock such as Magnetic Lock)

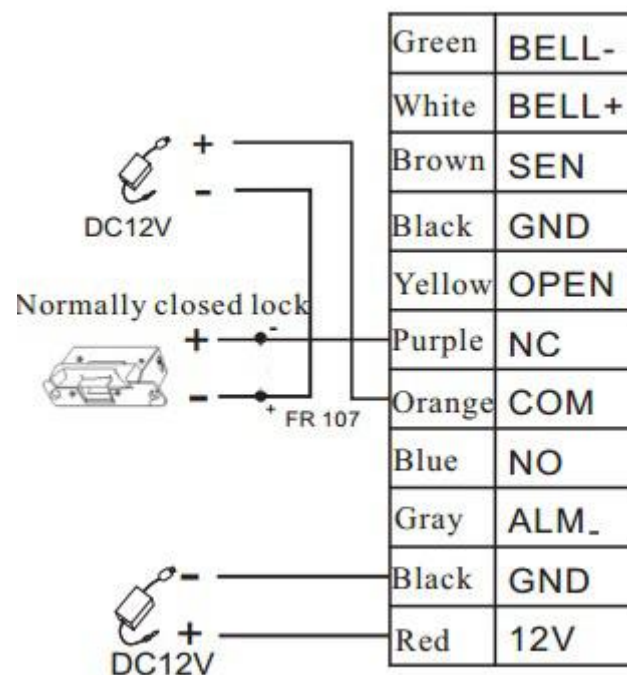
- a) If the fingerprint device and the lock use the same power supply
 - i. Negative of lock to the Black color(GND) wire of fingerprint device.
 - ii. Positive of lock to Purple color wire of fingerprint device.
 - iii. The Orange wire of fingerprint device connect to the Red wire of fingerprint device(12V)

Picture as below:



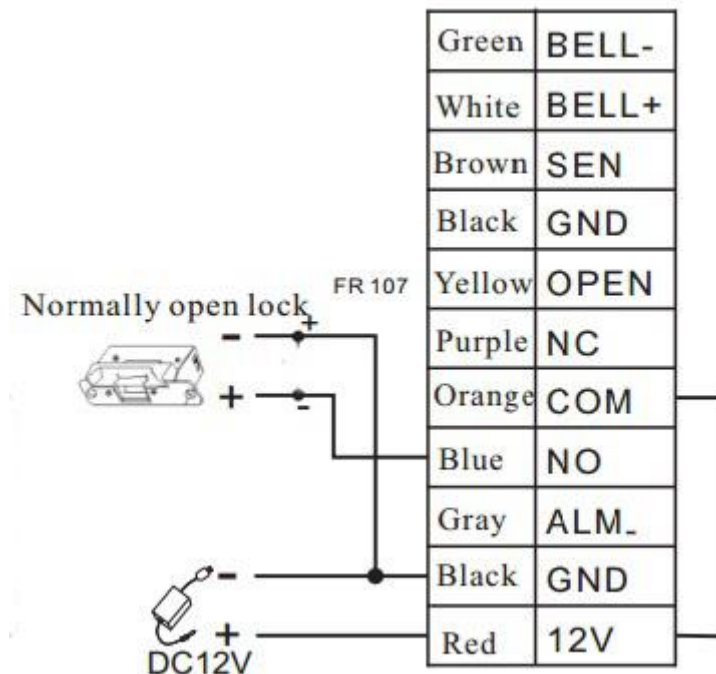
- b) If the fingerprint device and lock use different power supply
- Use one power supply, 12V/GND power the fingerprint device.
 - And use another power supply, Negative of lock to negative of the power supply.
 - Positive of lock to Purple color wire of fingerprint device(NC)
 - The Orange wire of fingerprint device connect to the Positive of power supply unit(12V).

Picture as below:

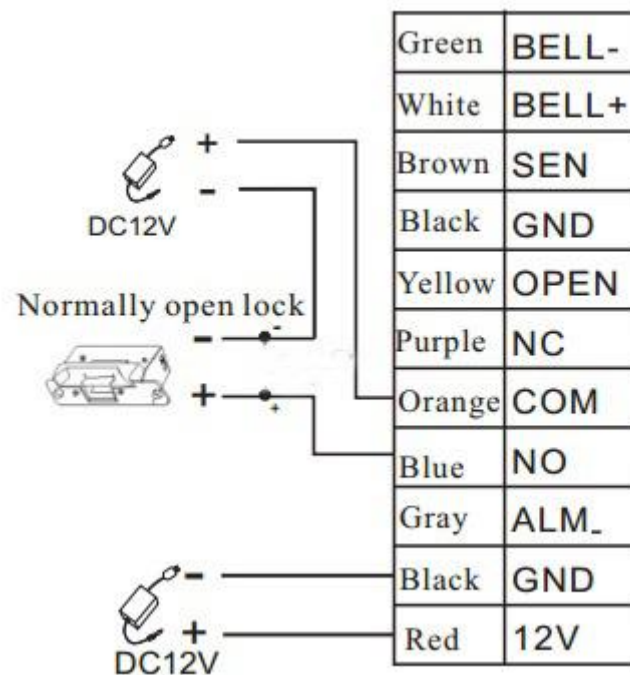


3. For normally open lock, connection is similar, check below pictures.

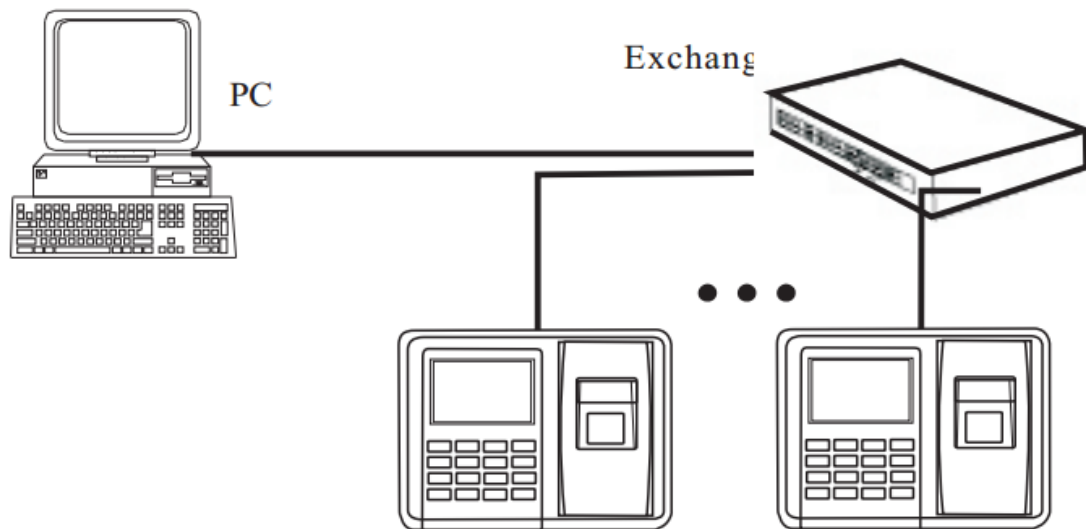
a) Use the same power supply



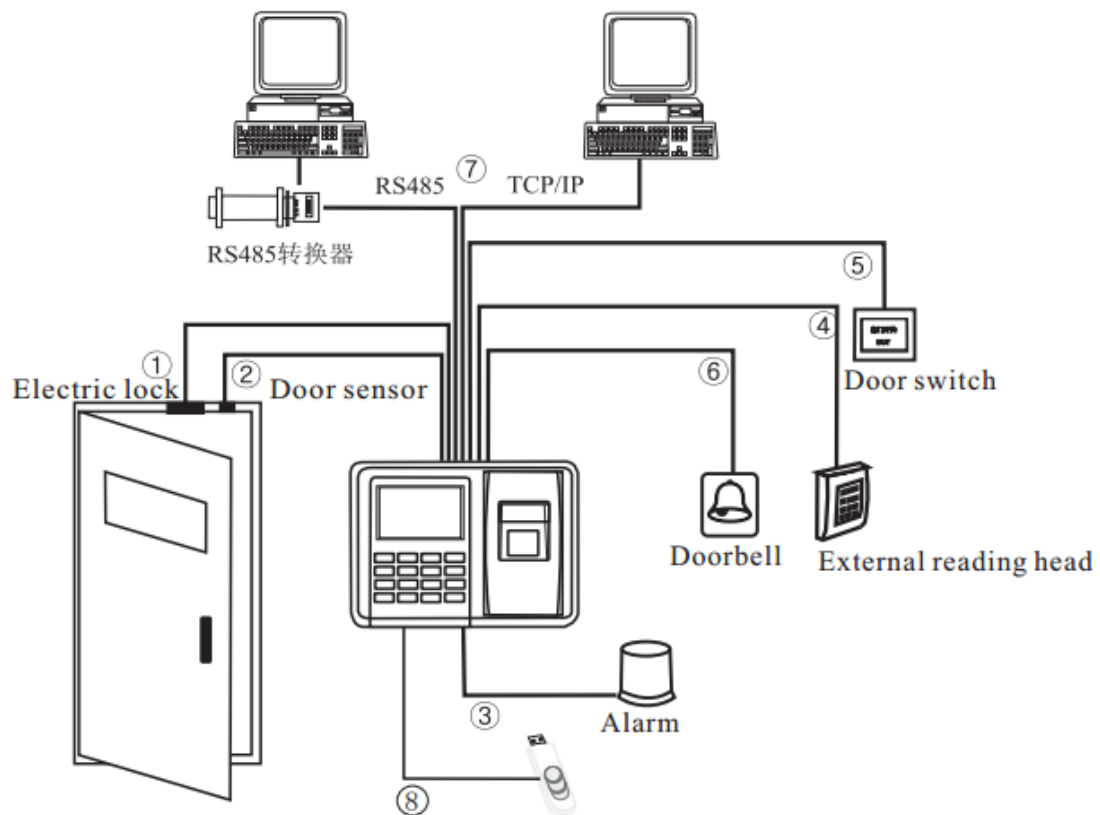
b) Use different power supply



4. Connect device by Network cable. The default IP address is:
192.168.1.224(can change according to your network
environment)



5. The Complete system for other components connection



Main Functions of Access Control System:

- ① When the user is verified successfully, the device will send signal to unlock the door.
- ② Door sensor checks door status automatically. In case the door is opened or not closed unexpectedly, it will give the alarm (digital signal).
- ③ In case the device is uninstalled by force, the device will send signal to give alarm.
- ④ External reading head
- ⑤ External door switch to facilitate opening the door indoors.
- ⑥ External doorbell
- ⑦ Connect to PC via RS485 or TCP/IP to manage more than one terminal device.
- ⑧ Flash drive: download or upload data.