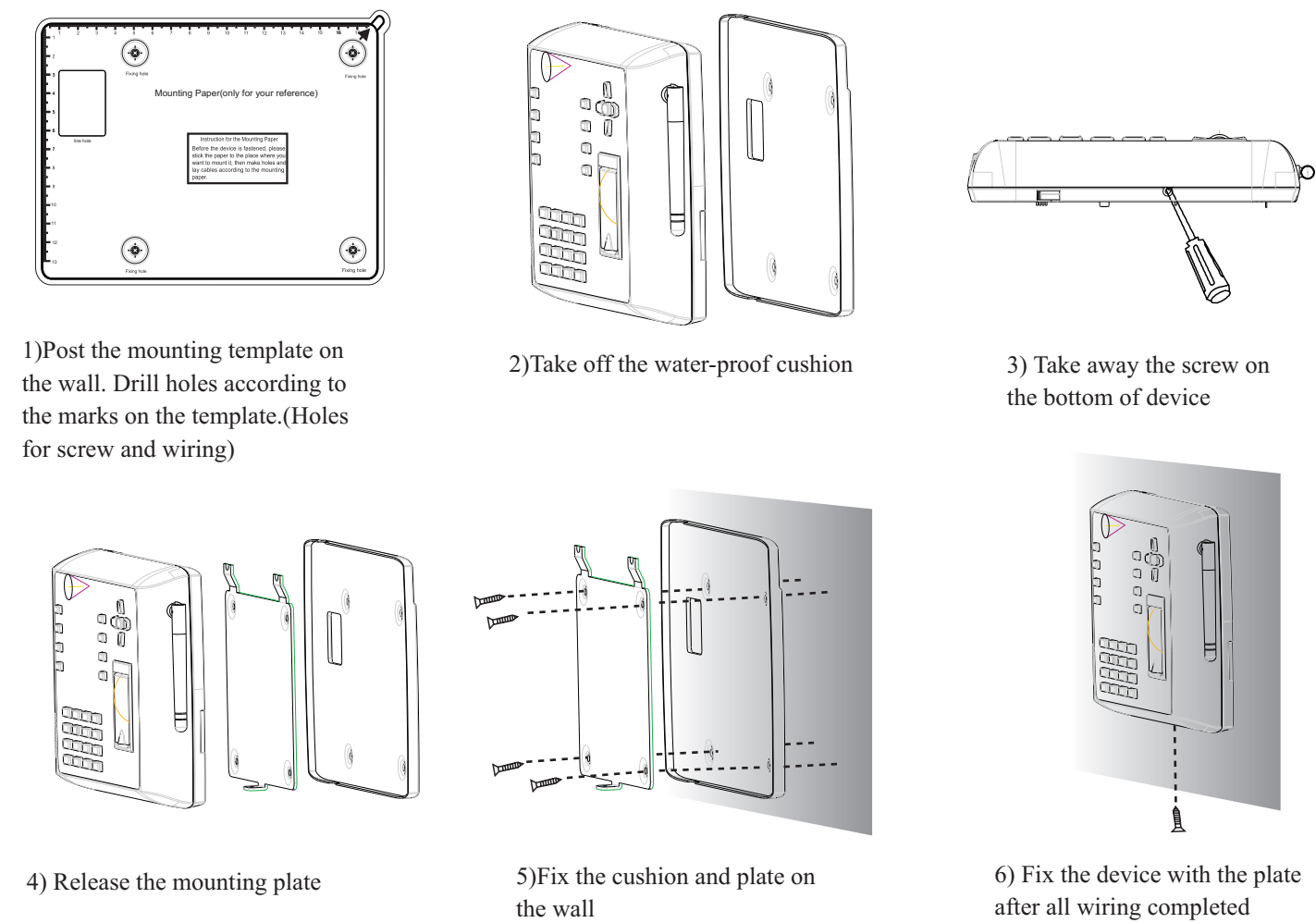


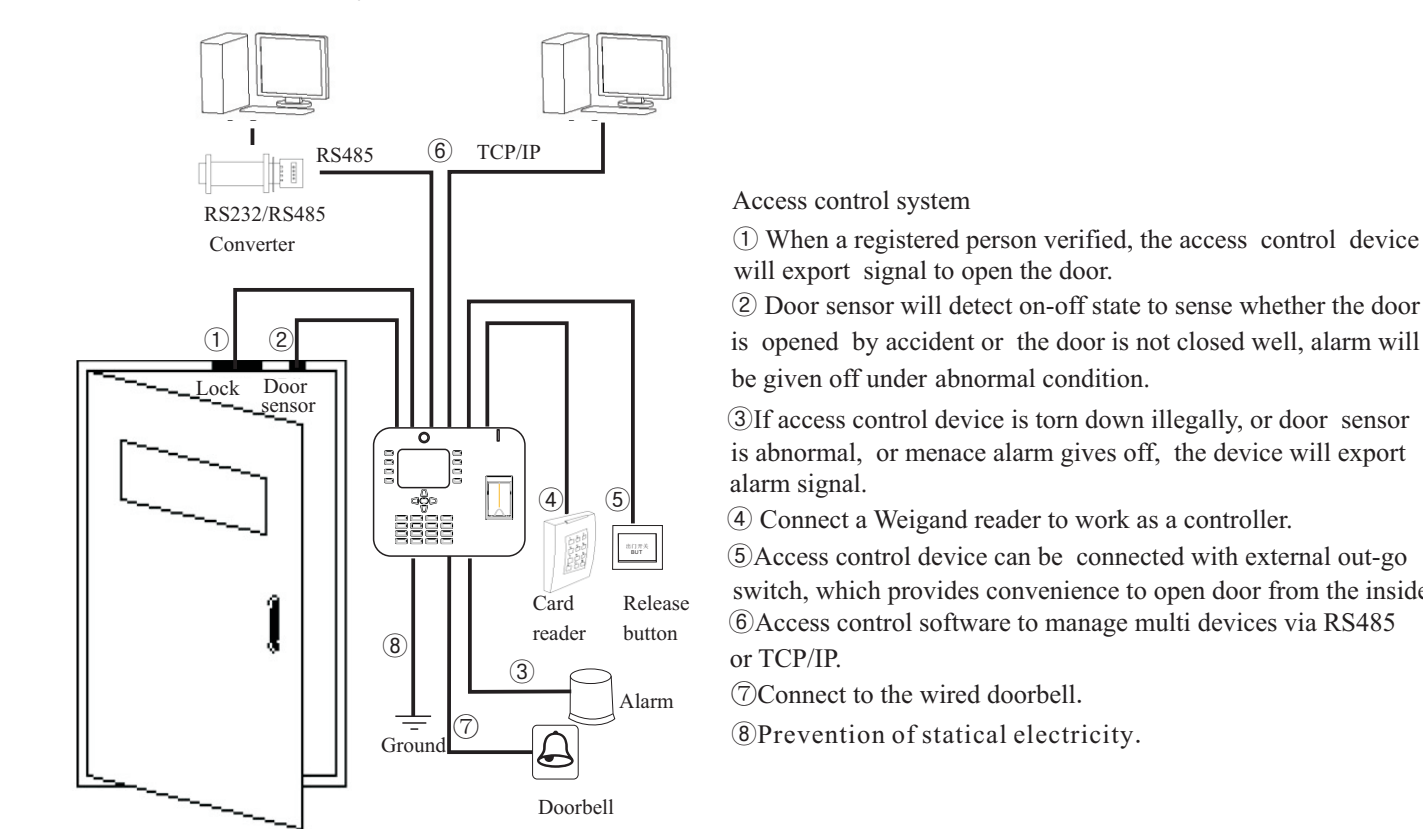
Installation Guide

I. Install device



Note: This installation figure is a sample. The other device prevail in kind and could be refer to it.

II. Access control system overview

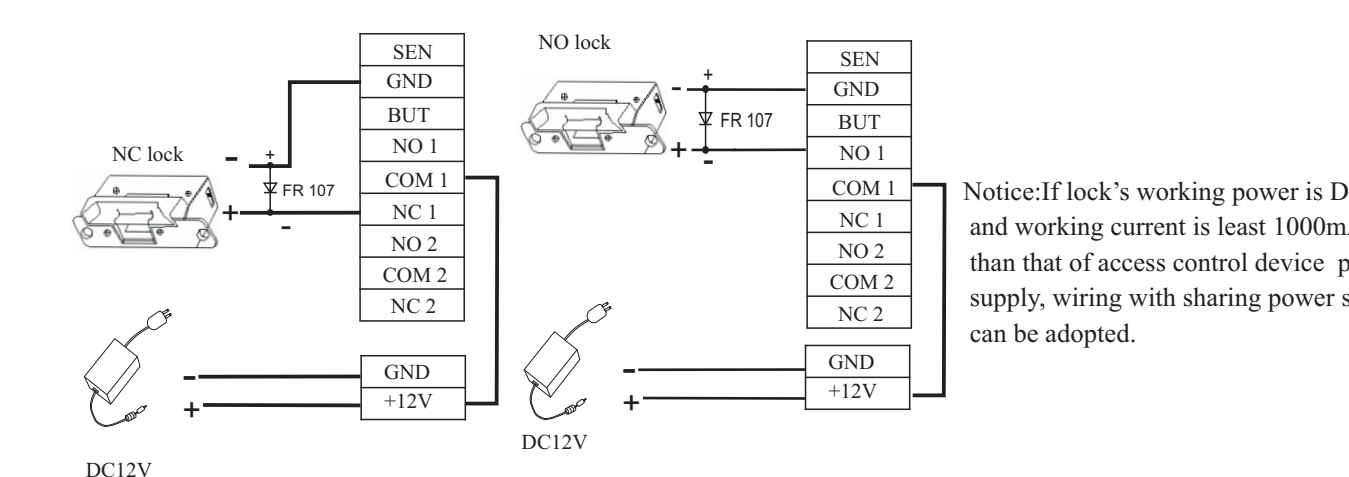


Warning: Don't connect wires with power on!

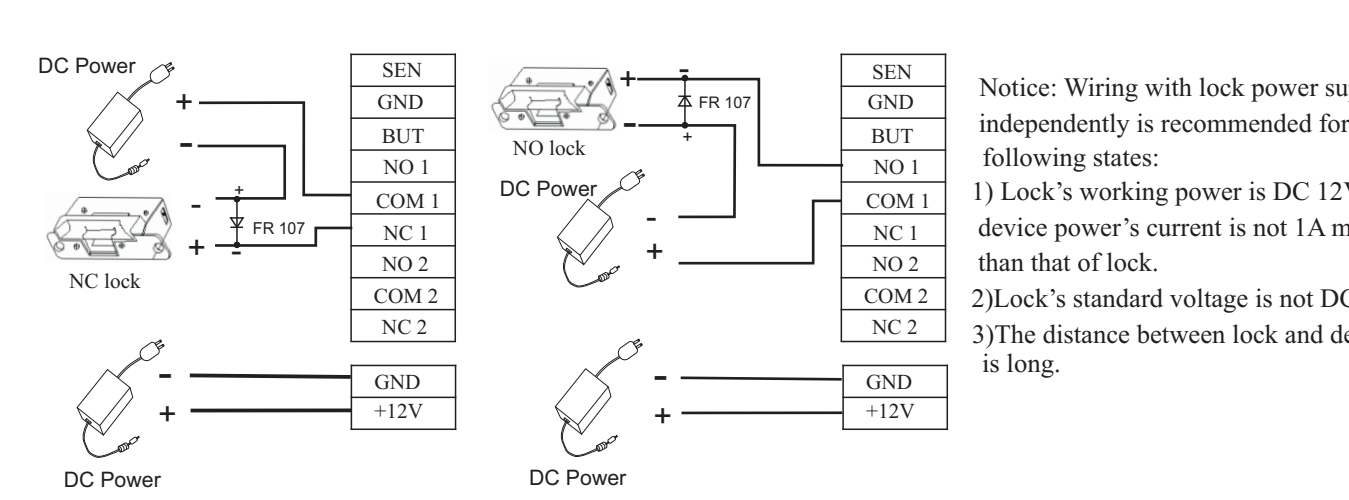
III. Connect to door lock

The device could connect to NC or NO locks, the connection terminal is not same, please according to the following diagram to make connection.

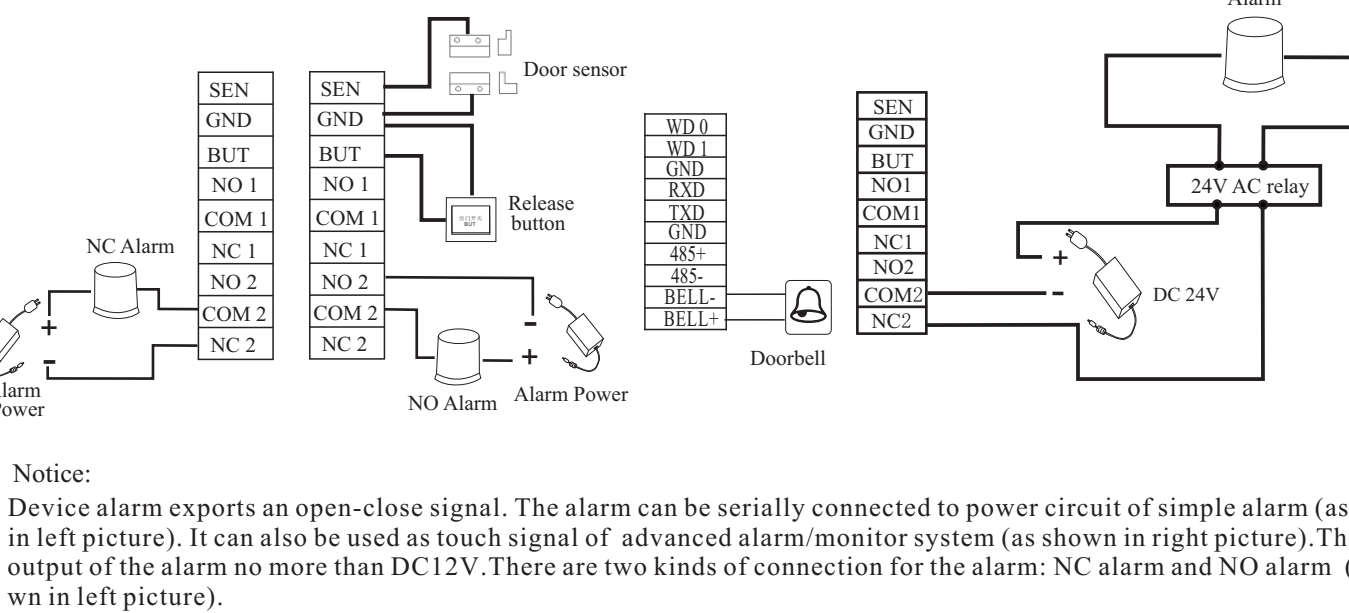
1) device and lock share power supply



2) device and lock don't share power supply

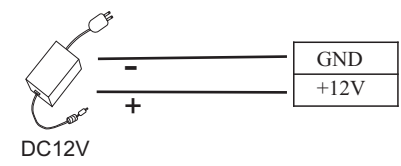


IV. Connection with other device



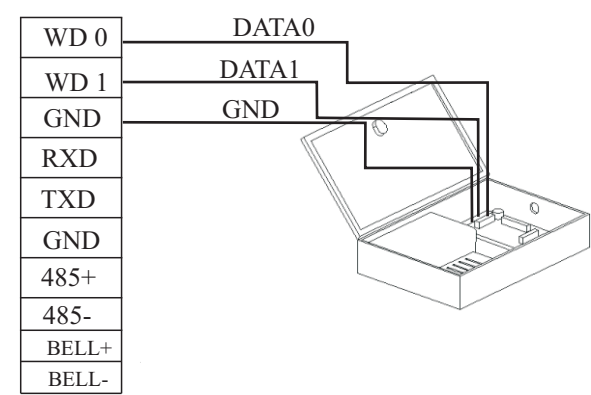
V . Power connection

The device’s working voltage is DC12V, with working current 500mA,standby current 50mA . Make sure the connection as the diagram(**Don’t connect the poles in reverse.**).



VI. Wiegand output connection

Wiegand 26output interface, export the verified user number or card number to the controller.

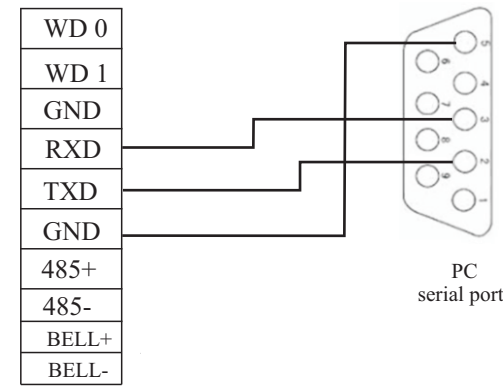


Notice:

- 1) The distance between device and access controller or card reader shouldn’t be over 90 meters (If longer distance is needed or there is interference in using environment, please use Wiegand signal delay.).
- 2) To ensure the stability of the Wiegand signal, the device must share the GND with controller or Wiegand reader.

VIII. Device communication

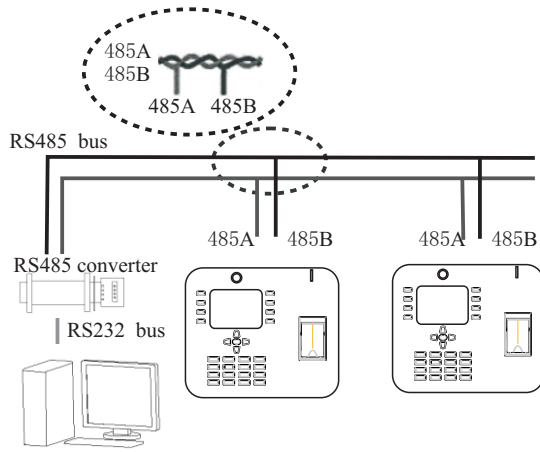
1、RS232



Terminal definition

Terminal number	PC serial port
TXD	Pin2-Txd
RXD	Pin3-Rxd
GND	Pin5-Gnd

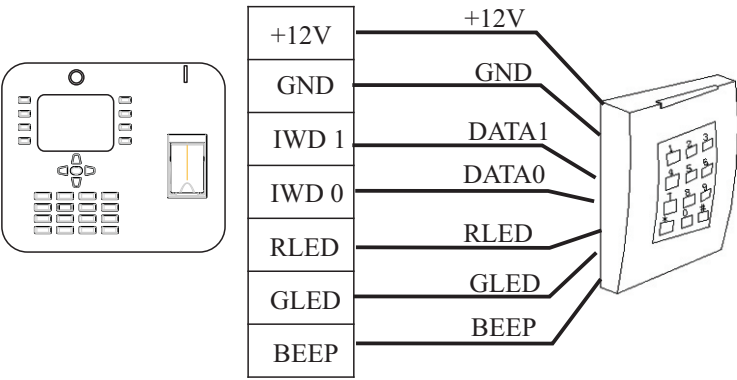
2、RS485



Terminal number	PC serial port
485+	RS485 communication+
485-	RS485 communication-

Wiegand 26input interface to connect a Wiegand reader, the device works as a controller to verify the information sent from the wiegand reader.

Reader and access control can be installed both inside and outside the door and control the lock and out & in together.



3、TCP/IP

1) Connection between device to PC via cross cable.

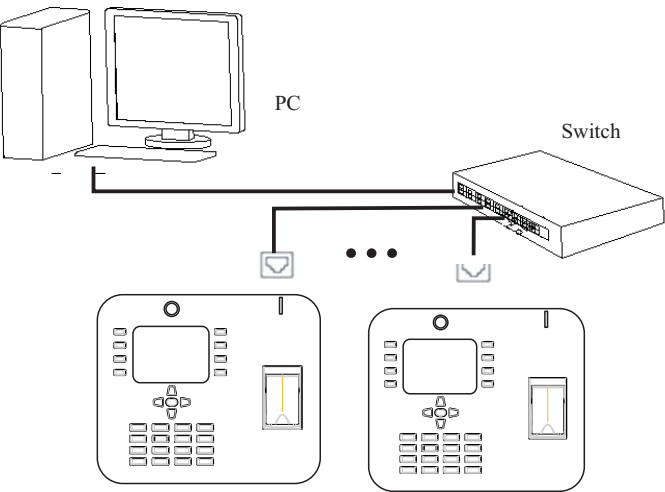
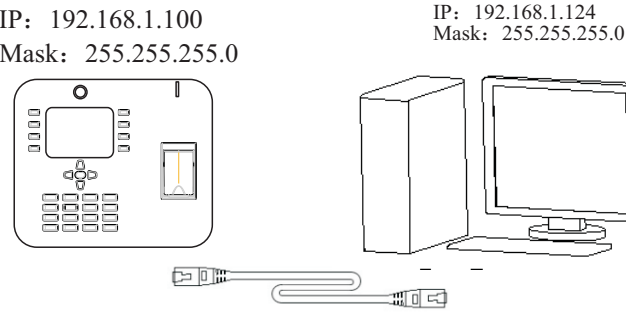
Joint 1	Pin	Pin	Joint 2
TX+	1	3	RX+
TX -	2	6	RX -
RX+	3	1	TX+
RX -	6	2	TX -

2) Lan connection

Cable order	Pin	Color	Pin	Cable order
TX+	1	white-orange	1	TX+
TX -	2	orange	2	TX -
RX+	3	white-green	3	RX+
	4	blue	4	
	5	white-blue	5	
RX -	6	green	6	RX -
	7	white-brown	7	
	8	brown	8	

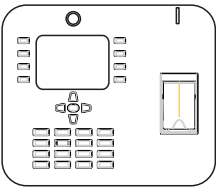


Warning: Don’t connect wires with power on!

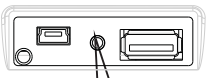


IX. Other function

1) reset
Manual reset



Front



Side

Find a top pointed tool with diameter of 2mm.

If wrong operation or other unexpected fault makes device fail in working normally, use this function to restart the device.

X. Notice

- 1) **Make sure all connection is correct before power** on the device or not wiring when the device is powered.
- 2) DC12V/3A **power** adaptor is recommended to power the device, You can consult technicians for detailed information.
- 3) **Please read wiring instruction carefully**, damage casued by abnormal operation is beyond maintenance guarantee.
- 4) Make sure there is **no bare part of the connection terminal**.
- 5) To prevent machine damage caused by too powerful instant static in winter or in the place where there is much static, **please connect ground wire firstly**, then connect other wires.
- 6) If the distance between power supply and machine is long, please don’t use network cable or other wires. While selecting wire for power supply, voltage attenuation caused by too long distance transmission should be taken account.
- 7) While using **RS485 communication** method for network deployment, RS485 cable and RS232/485 converter required, bus structure is recommended. If RS485 communication distance is over 100 meters, add a terminal-matched resistor (with 120Ω) to RS485 bus.
- 8) Equipment needed to connect access control software to register users.

Please install the device according to this guide, we are not responsible for such damage caused by any abnormal operation.