

Quick Start Guide

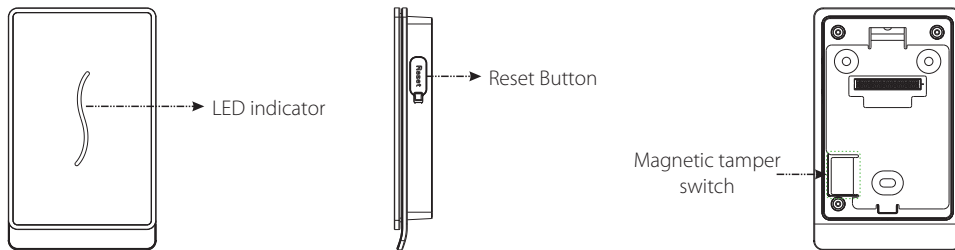
ProRF

Version: 1.0

Date: Nov. 2018

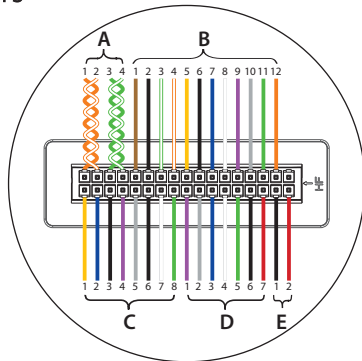
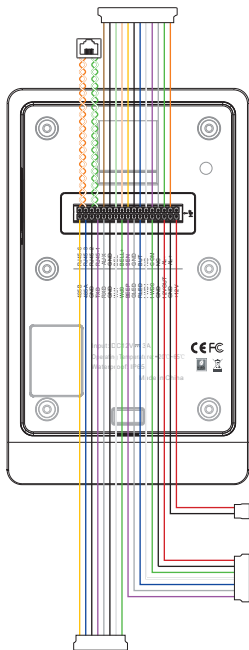


Overview



Name	Description
LED indicator	<ul style="list-style-type: none">• Green flashes once in a second: verifying, enrollment or deletion status.• Green glows continuously for 2 seconds: Authentication success• Red glows continuously for 2 seconds: Authentication failure
Reset	<ul style="list-style-type: none">• Reboot the device: press the reset button and hold it for 3 seconds.
Magnetic Tamper Switch	<ul style="list-style-type: none">• Restore factory setting• Tamper Switch: keep the magnetic tamper switch on back plate, or it will trigger the tamper alarm.

Cables and connectors

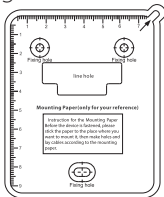


PIN	DESCRIPTION	WIRE	
D1	BEEP	Purple	
D2	GLED	Gray	
D3	RLED	Blue	
D4	IWD1	White	
D5	IWD0	Green	
D6	GND	Black	
D7	12VOUT	Red	
E1	GND	Black	
E2	+12V	Red	

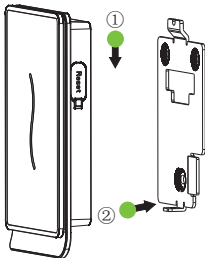
PIN	DESCRIPTION	WIRE	
A1	RJ45-6	Orange	
A2	RJ45-3	Orange+White	
A3	RJ45-2	Green	
A4	RJ45-1	Green+White	
B1	AUX	Brown	
B2	GND	Black	
B3	BELL-	Green+White	
B4	BELL+	Orange+White	
B5	SEN	Yellow	
B6	GND	Black	
B7	BUT	Blue	
B8	NO	White	
B9	COM	Purple	
B10	NC	Gray	
B11	AL-	Green	
B12	AL+	Orange	
C1	485B	Yellow	
C2	485A	Blue	
C3	GND	Black	
C4	TXD	Purple	
C5	RXD	Gray	
C6	GND	Black	
C7	WD1	White	
C8	WD0	Green	

Installation

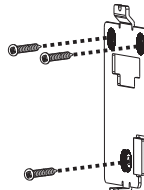
- 1) Paste the mounting template sticker on the wall, and drill holes according to the mounting paper.



- 3) Attach the device to the back plate.



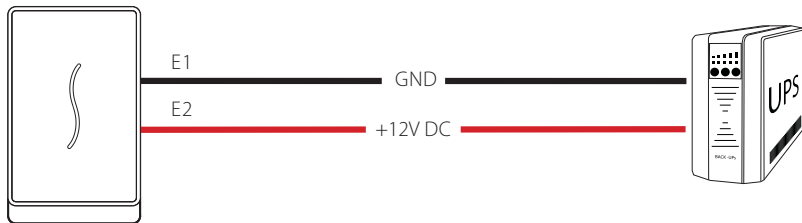
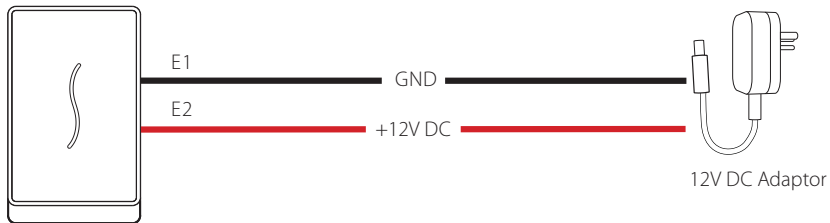
- 2) Fix the back plate on the wall using wall mounting screws.



- 4) Fix the device to the back plate with a security screw.



Power Connection



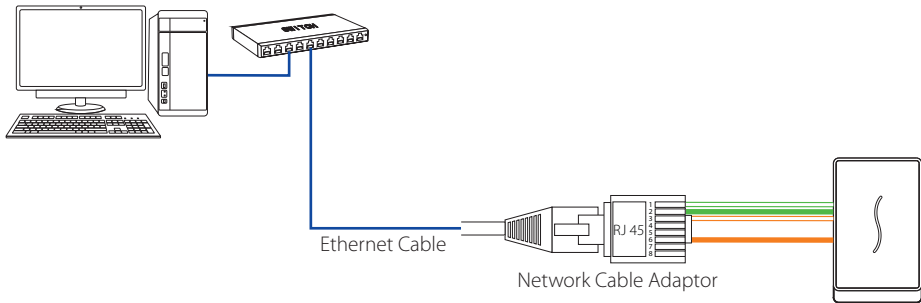
Recommended power supply

1) $12V \pm 10\%$, at least 500mA.

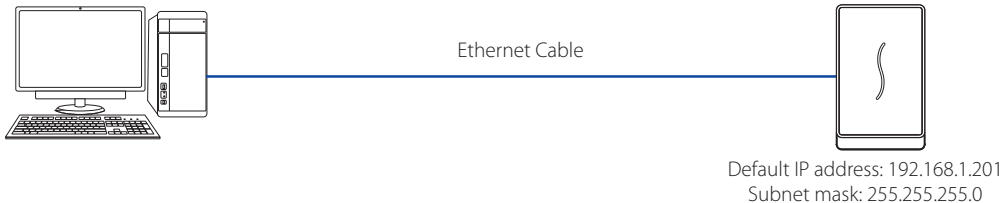
2) To share the power with other devices, use a power supply with higher current ratings.

Ethernet Connection

1) The device connects to the computer over an Ethernet through a switch.



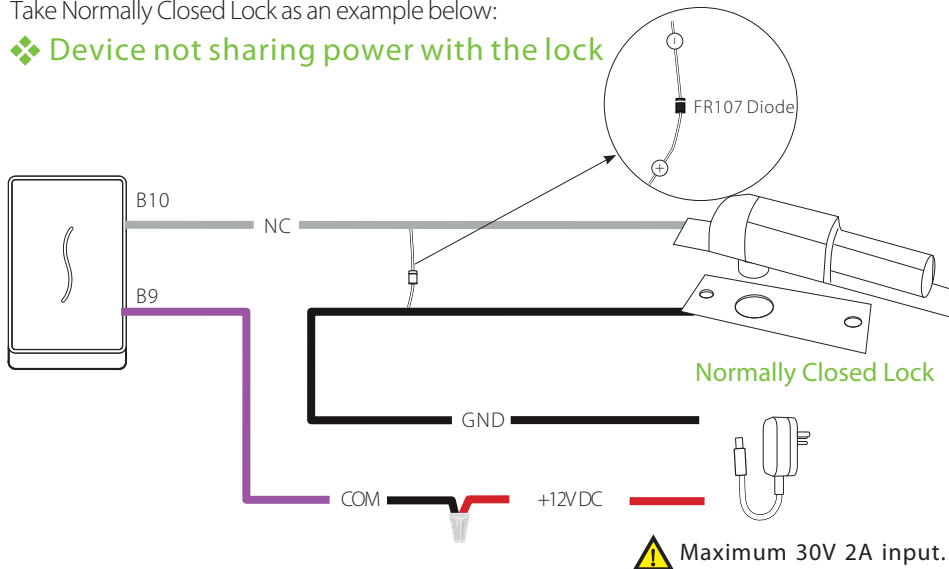
2) The device directly connects to the computer.



Lock Relay Connection

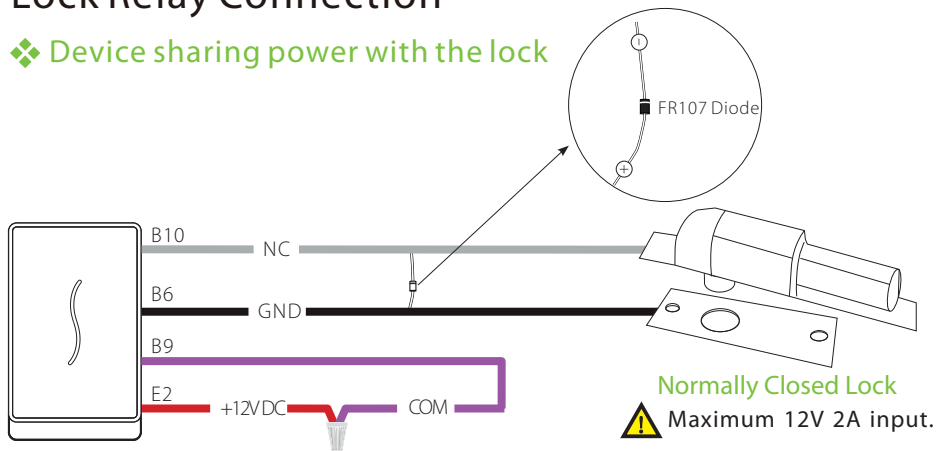
The system supports Normally Opened Lock and Normally Closed Lock.
Take Normally Closed Lock as an example below:

❖ Device not sharing power with the lock



Lock Relay Connection

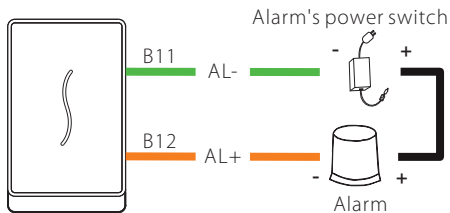
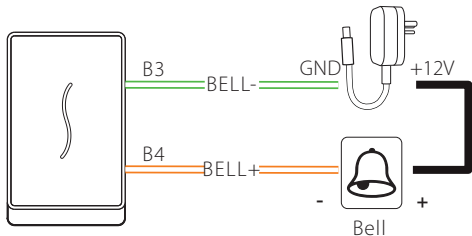
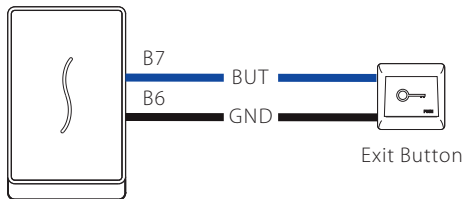
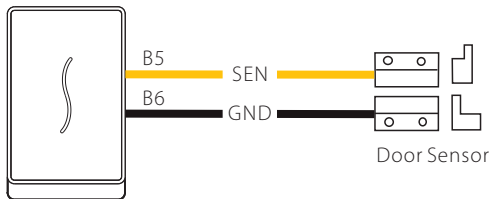
❖ Device sharing power with the lock



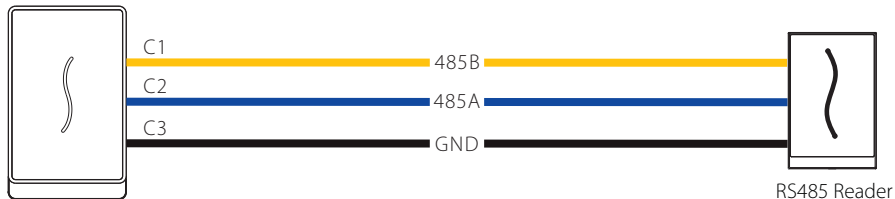
Notes:

1. The system supports Normally Opened Lock and Normally Closed Lock. The NO LOCK (normally opened at power on) is connected with 'NO' and 'COM' terminals, and the NC LOCK (normally closed at power on) is connected with 'NC' and 'COM' terminals.
2. When electrical lock is connected to the Access Control System, you must add one FR107 diode in parallel (equipped in the package) to prevent the self-inductance EMF from affecting the system.

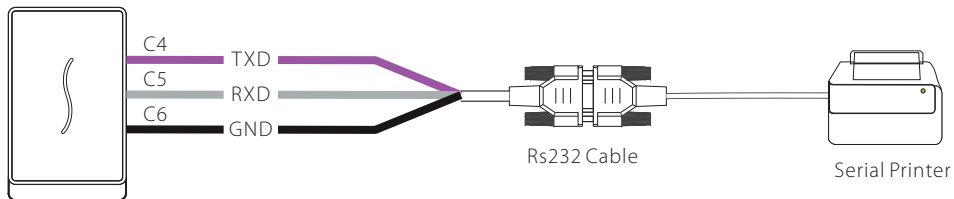
Door Sensor, Exit Button, Bell & Alarm Connection



RS485 Connection

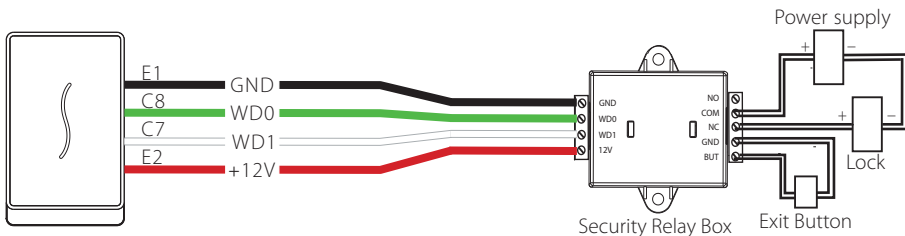


RS232 Connection(optional)

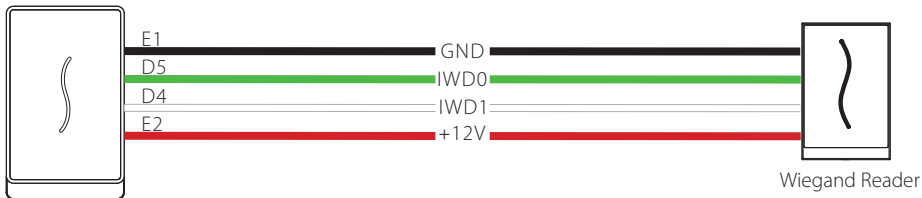


Wiegand Output Connection

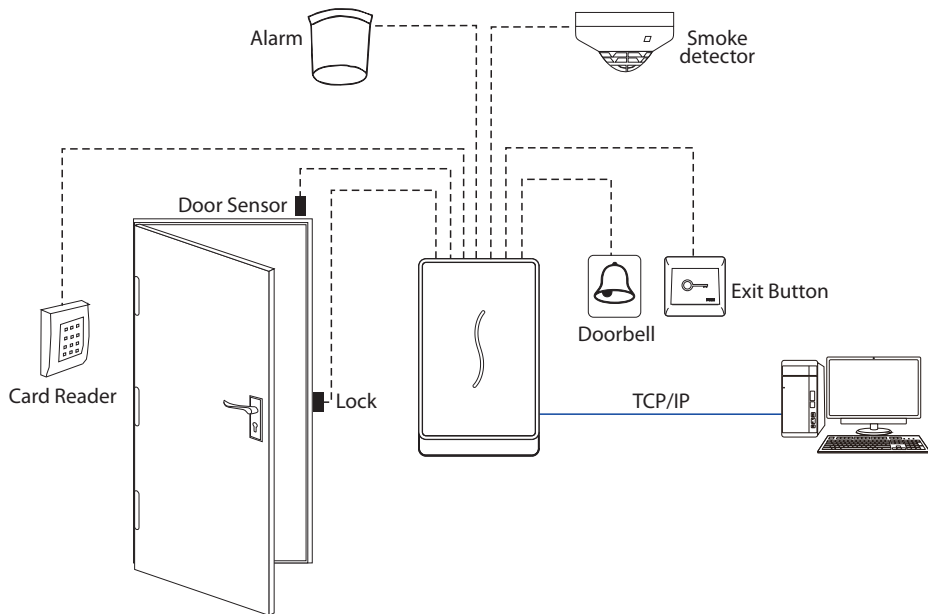
After a successful verification, the device will send Wiegand signals to the SRB access controller, then the SRB will output relay signals to trigger the relay to unlock the door.



Wiegand Input Connection



Standalone Installation

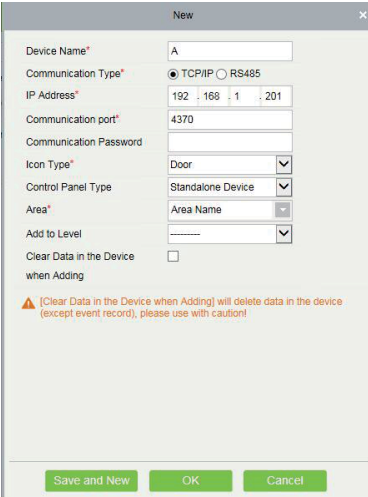


Quick Start Operations

Suppose the device is connected with PC and the software (ZKBiosecurity 3.1.5.0) is installed. Double-click the ZKBiosecurity icon on the desktop to open.

❖ Add Device

Click [Access Device] > [Device] > [New], enter device name and IP Address of the device and click [OK]. The following interface will be shown:



The screenshot shows a 'New' dialog box with the following fields and options:

- Device Name*: A
- Communication Type*: TCP/IP RS485
- IP Address*: 192 . 168 . 1 . 201
- Communication port*: 4370
- Communication Password: (empty)
- Icon Type*: Door
- Control Panel Type: Standalone Device
- Area*: Area Name
- Add to Level: (empty)
- Clear Data in the Device when Adding:

A warning message is displayed at the bottom: **⚠ [Clear Data in the Device when Adding] will delete data in the device (except event record), please use with caution!**

At the bottom of the dialog, there are three buttons: 'Save and New', 'OK', and 'Cancel'.

Note:

1. IP addresses of the server (PC) and the device must be in the same network segment. The default IP Address of the device is 192.168.1.201.
2. Please set the device type to standalone device.
3. Once IP address and communication password missing, please refer Reset function.

❖ Add Personnel

1. Click [Personnel] > [Personnel] > [New] to add personnel information and set access levels.

The screenshot displays the ZKTeco software interface for adding a new personnel member. The main window is titled 'New' and contains the following fields and options:

- Personal ID***: Text input field.
- First Name**: Text input field.
- Last Name**: Text input field.
- Gender**: Dropdown menu.
- Certificate Type**: Dropdown menu with 'ID' selected.
- Social Security Number**: Text input field.
- Reservation Code**: Text input field with value '123456'.
- Position**: Dropdown menu.
- Department***: Dropdown menu with 'General' selected.
- Password**: Text input field.
- Certificate Number**: Text input field.
- Mobile Phone**: Text input field.
- Birthdate**: Text input field.
- Card Number**: Text input field.
- Hire Date**: Text input field.
- Biological Template Quantity**: Input field with value '0'.
- Photo**: Placeholder image with a 'Browse' button and a 'Capture' button. A note indicates '(Optimal Size 120*140)'.

Below the form, there are several tabs: 'Access Control', 'Time Attendance', 'Elevator Control', 'Plate Register', and 'Personnel Detail'. The 'Personnel Detail' tab is active, showing the following settings:

- Levels Settings**: A list with 'Master' selected.
- Supervisor**: A dropdown menu with 'No' selected.
- Device Operation Role**: A dropdown menu with 'Ordinary User' selected.
- Delay Passage**: A checkbox.
- Disabled**: A checkbox.
- Set Valid Time**: A checkbox.

At the bottom of the form, there are three buttons: 'Save and New', 'OK', and 'Cancel'.

❖ Access Control Setting

User can set Access Control Time Zones, Access Control Holiday, Door Settings, Access Levels, Personnel Access Levels and so on in Access Control interface. For more details, please refer the user manual and the software instruction.

❖ Sync All Data to Device

The system will synchronize the data to the device, including door information, access control levels (personnel information, access control time zones), and so on. Select device, click [Synchronize All Data to devices] and click [OK] to complete synchronization.

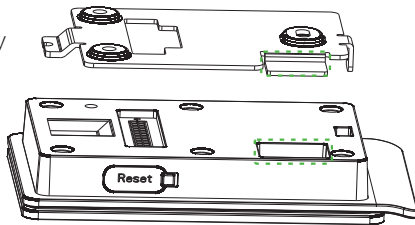
The screenshot displays the ZKTeco Access Control software interface. The top navigation bar includes 'Personnel', 'ACCESS', 'Attendance', 'Elevator', 'Hotel', 'Visitor', 'Parking', 'Patrol', 'Video', and 'System'. The 'ACCESS' tab is active. The main area shows a list of devices with columns for Device Name, Serial Number, Area Name, and User Type. Two devices are listed: '192.168.12.252' and 'E102'. The 'E102' device is selected, and a context menu is open over it, with the 'Synchronize All Data to Devices' option highlighted in red. The context menu also includes options like 'Clear Administrator permission', 'Upgrade Firmware', 'Reset Device', 'Synchronize Time', 'Enable', and 'Disable'. The bottom left sidebar contains various system settings like 'Door', 'Reader', 'Auxiliary Input', etc.

❖ Tips

Forgot the password/IP address?

Trigger the magnetic tamper switch three times quickly within 30-60 seconds of the device start-up. (After operation successfully, beep sound continue and device reboot automatically.)

This process restores factory settings, such as device password, IP address, etc.



Green
Label

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