

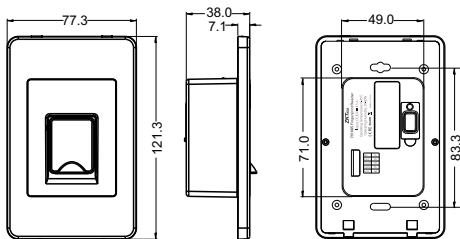
Installation Guide

FR1500S-A

Version: 1.1

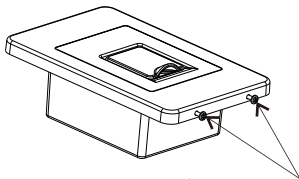
Installation

Dimensions (mm)



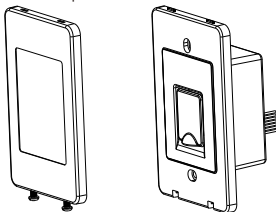
Note: Not all the devices have the fingerprint cover. The real product prevails.

Procedure to be followed before installation



STEP 1 → Remove both the screws

STEP 2 → Take out the front panel as shown below



Method 1: Mounting on the standard Single gang junction box

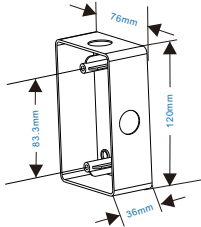
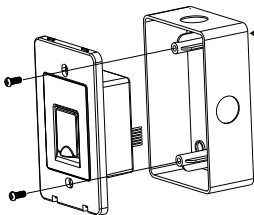
Lay the cables from the desired hole in single gang junction box and fix the machine part to the box part.

The single gang junction box's size recommendations:

Location column: 83.3mm

Depth of the interior: around 36mm

Exterior box (L*W) : 120mm*76mm



Method 2: Mounting inside the wall

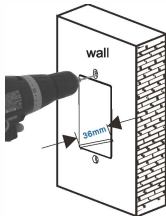
STEP 1

Place the mounting sticker to the place where the device needs to be installed



STEP 2

Drill fixing holes and dig mounting groove deep of 36mm



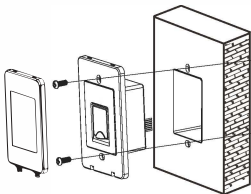
STEP 3

If cables need to be laid from behind then it must be done before installing



STEP 4

Install the device with the screws



STEP 5

After installing the back plate, attach the machine part in the same reverse manner as shown in previous page

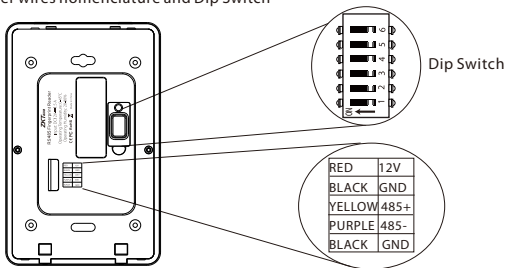
Note:

To effectively protect the device from water and dust, FR1500S must be installed vertically perpendicular to the ground.

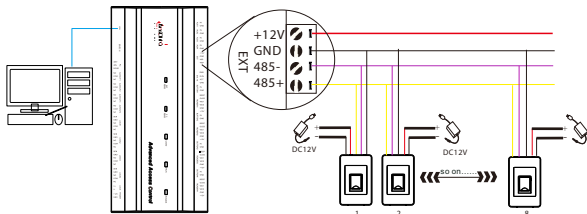
Wiring Terminals

This reader is an innovative Silk ID reader. It needs to be connected to a host machine so that fingerprint information can be transferred through RS485.

Reader wires nomenclature and Dip Switch



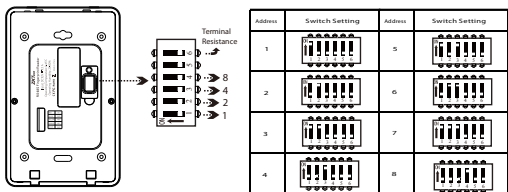
1. Connection with a Control Panel.



Connected as inBIO Pro Reader(with External 485), maximum 8 readers can be connected. The reader requires a separate power supply.

Working Principle

> Dip Switch setting with control panel



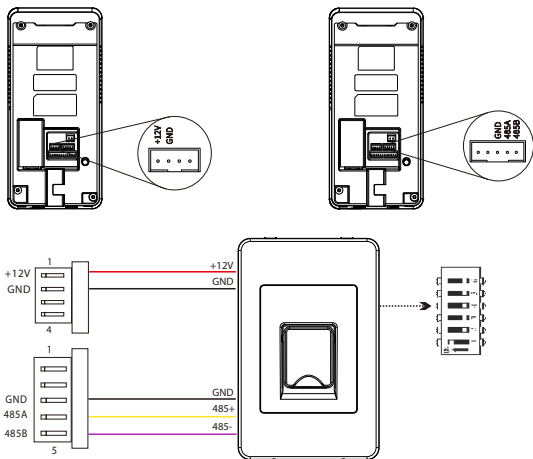
Number 1, 2, 3, 4 of the dip switch are used to set the address of RS485, 5 is the restart switch, and 6 is the Terminal Resistance.

Number 5 is the restart switch: dial up and dial down. The machine will restart. The right side figure shows the address number setting.

Number 6 switch is used to set the terminal resistance in RS485.

Communication: If the RS485 communication wire is longer than 100 meters, it is needed to set the number 6 dip switch of the last reader to ON state, that is parallel a terminal resistance of 120 ohm between 485+ and 485-.

2. Connection with a Standalone Access Controller



When using the reader with Standalone access controller device, please move the dial code "1" to the ON position as shown above.

Verification Process

Connection with the controller:

Unsuccessful:	LED flashes blue light twice every one second.
Successfully:	LED flashes blue light once every one second.

When verifying the fingerprint or punching the card:

Successful Verification:	Green LED lights, short BEEP
Authentication error:	Red LED lights, two short and a long BEEP
Data Error:	Red LED lights, one short and a long BEEP
Timeout:	Red LED lights, four short BEEP
Authentication failed:	Red LED, two short BEEP
No rights:	Red LED, three short BEEP
Verify unfinished:	Red LED flashes three times

Safety Precautions

1. Power cable should be connected at last, after all the wiring. If the device is working abnormally, immediately shutdown the device.
2. Please read the terminals description and wiring by rule strictly. Any damage caused by improper operations will be out of the range of our guarantee.
3. Please connect the 'GND' before all the other wiring especially under the serious electrostatic environment.
4. Keep the exposed part of wire less than 5mm to avoid unexpected connection, and result in machinery damage.
5. If the distance between power supply and device is little long, please do not use the Internet cable or other types of cable instead. When choosing the power supply cable, you should consider that the transmission distance may cause voltage attenuation.

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