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Standalone Fingerprint Access Control

FP1

User Manual



Please read the manual carefully before installing this unit

1. Packing list

Name	Quantity	Remarks
Fingerprint reader FP1	1	
Infrared remote control	1	
User manual	1	
Screw driver	1	Special screw tool
Diode	1	IN4004
Rubber wall plug	4	Φ6mm×25 mm, used for fixing
Self-tapping screws	4	Φ4mm×25 mm, used for fixing

Please ensure that all the above contents are correct. If any are missing please notify us immediately.

2. Description

The FP1 is a metal zinc alloy shell standalone fingerprint reader for access control. It uses the American Atmel's MCU, with precise electron circuit and good productive technology. This unit applies world advanced fingerprint identification technology, making it safe and reliable, which means it is an ideal choice for situations demanding high security. Its programming is done by infrared remote control or master fingerprint. It can store up to 1,000 fingerprints, including two master fingerprints and 998 user fingerprints. Each fingerprint has one ID code.

3. Functions

Sleeping function

High environmental awareness energy-saving control system, with auto sleep and wake up function. The sleeping power consumption is less than 0.20W.

Master fingerprints operation function

This device can add/delete users fingerprints by master fingerprints quickly and easily. (One add master fingerprint, one delete master fingerprint).

Infrared programmer

Supplied with an infrared programmer to allow easy add/delete of fingerprint. Useful if a user fingerprint needs to be deleted without them being present.

Lock driving function

With NC, NO and COM, the control time is 0 – 99 seconds. (0s is 50ms). Wires are isolated from the inner circuit, the contactors current is 2A.

Anti-tamper alarm function

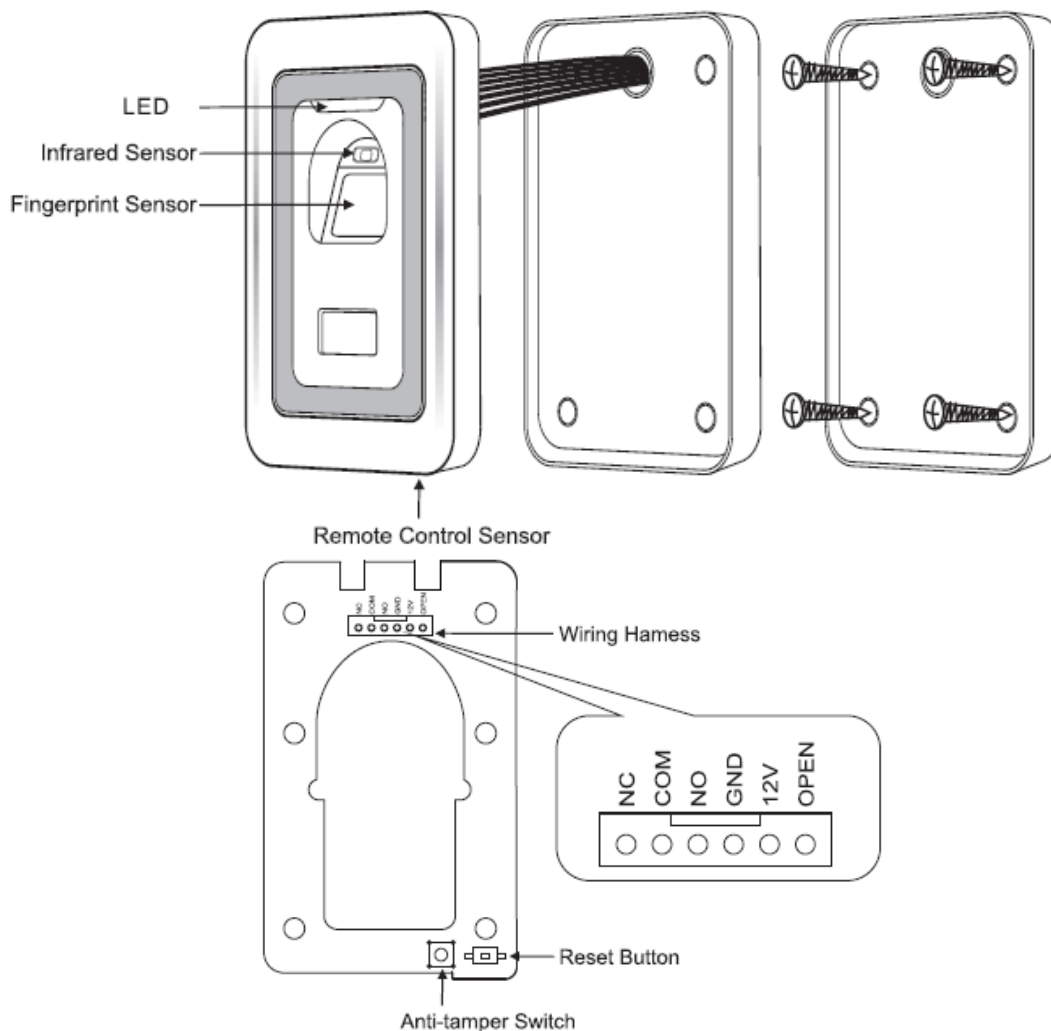
When the unit is disassembled, the internal buzzer will sound a consecutive alarm for one minute.

4. Specification

Input voltage	12V dc \pm 10%
Sleeping current consumption	\leq 20mA
Idle current consumption	\leq 80mA
Door relay contact load	2A
Operating temperature	-20 to 50°C
Operating humidity	20% to 95% RH
Fingerprint capacity	1000
Resolution	450 DPI
Fingerprint input time	<1s
Identification time	<1s
FAR	<0.0000256%
FRR	<0.0198%
Structure	Zinc alloy
Dimensions	115 x 70 x 35 mm
Weight	500g

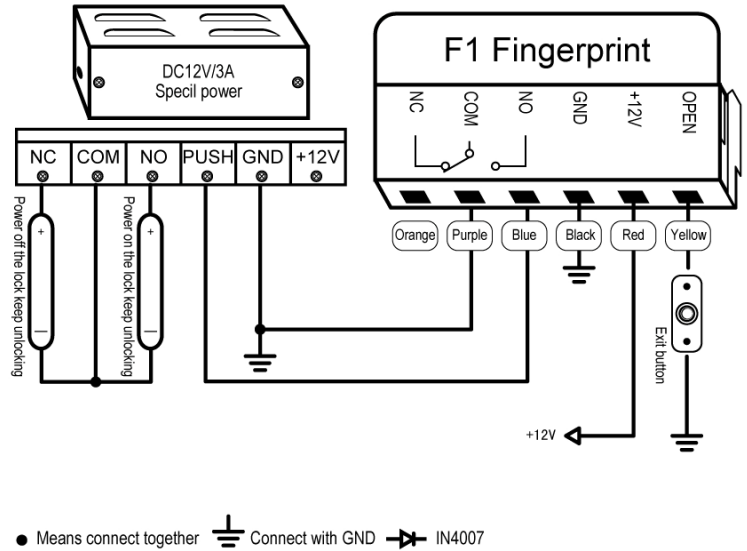
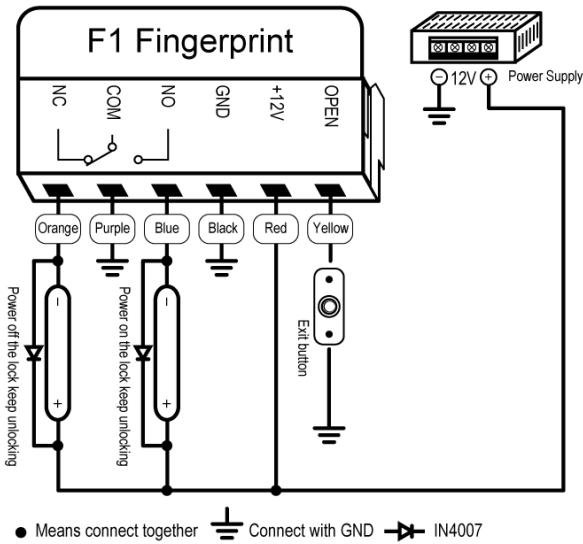
5. Installation

- Remove the back cover using the supplied security driver
- Use the back cover to mark the four fixing holes and one cable hole, drill holes.
- Fit back cover firmly to the wall using the wall plugs and self-tapping screws.
- Thread the wires through the hole.
- Attach the front to the back cover.



6. Wiring

Colour	Function	Description
Yellow	OPEN	Exit button
Red	12V +	12V + DC regulated power input
Black	GND	12V – DC regulated power input
Blue	NO	Relay output NO
Purple	COM	Relay output COM
Orange	NC	Relay output NC



7. To reset to factory default

- Disconnect power from the unit.
- Press and hold the 'Reset' button on the PCB whilst powering the unit back up.
- On hearing three short beeps, release the 'Reset' button, system is now back to factory default.

Please note only installer data is restored, user data will not be affected.

8. Sound and light indication

Operation Status	Indicator Light Colour	Finger Sensor Light	Buzzer Description	Buzzer
Power On	Slow flash in red	Bright	Long ring	Di -
Sleeping	Slow flash in red	Goes out		
Voided Key			Short ring	Di
Enter Programming	Red	Goes out	Long ring	Di -
Programming	Orange			
Input Fingerprint successful	Green		Long ring	Di ---
Input Fingerprint Failed			3 short rings	Di Di Di
Unlock the Door	Green	Goes out	Long ring	Di -
Alarm	Quick flash in red	Bright	Continuous long ring	Di—

9. Programming guide

To enter programming mode	* Master code # 9999 is the default master code
To exit programming mode	*
Note that to undertake the following programming the master user must be logged in	
To change the master code	0 New code # New code # The master code is any 4 digits
To add a fingerprint	1 ID code # Input fingerprint Input fingerprint #
<p>ID code range is 1 to 1000. ID code 1 is master add fingerprint, ID code 2 is master delete fingerprint, ID code 3 to 1000 are users' fingerprints. Each ID code be assigned one fingerprint, master fingerprints must be added by ID code.</p> <p>Advice for adding fingerprints: when the LED lights up, input fingerprint. It gives a short beep when the fingerprint is inputted for the first time. Release fingerprint, then input the same fingerprint again. The unit will emit a longer beep and the LED will turn green, this means the fingerprint has been successfully added. If the operation has failed, three short beeps will be emitted, attempt the process again. In order to improve the success rate, please put middle of the fingerprint on the middle of the induction area.</p>	
To add users continuously ID code will be auto generated, from 3 to 1000	7 1st user fingerprint twice ... Nth user fingerprint twice #
To delete a fingerprint	2 ID code # Users can be deleted continuously without exiting programming mode
To delete users continuously Each fingerprint only needs to be inputted once	8 1st user fingerprint ... Nth user fingerprint #
To delete all fingerprints This process deletes all users, so use with care	2 0000 #
Add/delete users by master fingerprints	
To add fingerprint users	Input Master add fingerprint 1st user fingerprint twice ... Nth user fingerprint twice Master add fingerprint
To delete fingerprint users	Input Master delete fingerprint 1st user fingerprint ... Nth user fingerprint Master delete fingerprint
To set door open time	4 0 – 99 # 0 – 99 is to set the door relay time to 0 – 99 seconds
To unlock the door	In standby state, input valid user fingerprint, door will open

10. Anti-tamper alarm

When the unit is removed illegally the anti-tamper switch will be activated and the internal alarm will sound for one minute. Or it can be turned off in the following ways: Input **Master fingerprint** or **User fingerprint** or **Master code**