

Fingerprint Access Control Card Reader

User's Manual

V1.0.1

1.2.51.18.10382-000

Special Announcement

- This manual is for reference only.
- All the designs and software here are subject to change without prior written notice.
- All trademarks and registered trademarks are the properties of their respective owners.
- If there is any uncertainty or controversy, please refer to the final explanation of us.
- Please visit our website for more information.

1 Overview

Fingerprint Access Control Card Reader is a biometric recognition device and also a complement to video monitoring and visual talk. Its appearance is neat and fashionable, and its function is enhanced. It is designed for commercial building, corporation property and intelligent community.

It has:

- Blue light
- Mifare card or EM card. Reading distance is 6cm~10cm. Response time is <0.1s.
- Fingerprint verification response time ≤0.5s, fingerprint response time ≤1.5s.
- Max fingerprint storage is 4500.
- Wiegand protocol and RS485 output. RS485 baud rate is 9600bps.
- Can read 32 bit Mifare SN. Use high safety 64 bit key for mutual verification, via security algorithm. It has advanced key management system, lowering risk due to stolen data and copied intelligent card.
- ID recognition mode of card, card + fingerprint, fingerprint, card or fingerprint.
- Vandal-proof alarm, built-in watch dog program.
- All connection ports has over current and voltage protection.
- Online upgrade.
- Direct installation and open hole installation.
- Protection level: IP65, working temperature: -30°C ~ 60°C, working temperature: ≤95%.
- Working voltage: 9VDC ~ 15VDC, working current: 150mA.
- Dimension: 125mm*56mm*47mm, 0.15kg.

Important Safeguards

Please read the following safeguards and warnings carefully before using the product in order to avoid damages and losses.

Note:

- Do not expose the device to lampblack, steam or dust. Otherwise it may cause fire or electric shock.
- Do not install the device at position exposed to sunlight or in high temperature. Temperature rise in device may cause fire.
- Do not expose the device to humid environment. Otherwise it may cause fire.
- The device must be installed on solid and flat surface in order to guarantee safety under load and earthquake. Otherwise, it may cause device to fall off or turnover.
- Do not place the device on carpet or quilt.
- Do not block air vent of the device or ventilation around the device. Otherwise, temperature in device will rise and may cause fire.
- Do not place any object on the device.
- Do not disassemble the device without professional instruction.

Warning:

- Please use battery properly to avoid fire, explosion and other dangers.
- Please replace used battery with battery of the same type.
- Do not use power line other than the one specified. Please use it properly. Otherwise, it may cause fire or electric shock.

2 Device Structure

Fingerprint Access Control Card Reader's dimension is shown in Figure 2-1 and Figure 2-2.

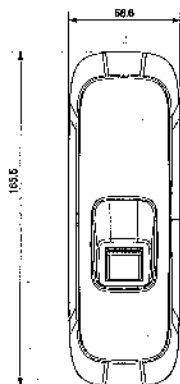


Figure 2-1

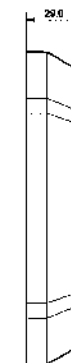


Figure 2-2

3 Device Installation

Fingerprint Access Control Card Reader's installation illustration and steps are:

Step 1. Remove front cover, fix the device on wall via screw 1. See Figure 3-1.

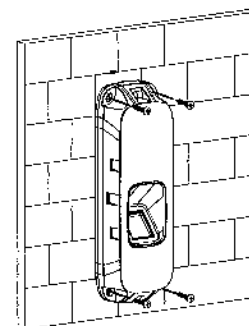


Figure 3-1

Step 2. Put back front cover. Fix cover on the device via screw 2. See Figure 3-2.

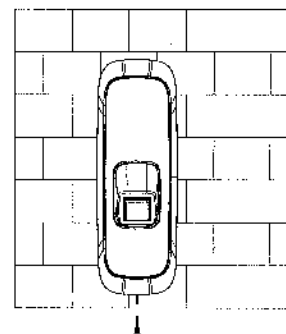


Figure 3-2

4 System Framework

4.1 Wiring

Fingerprint Access Control Card Reader has 8-pin wiring, see Chart 4-1.

No.	Color	Port	Note	Protocol
1	Red	12V	DC 12V power	-
2	Black	GND	GND	-
3	Blue	ALARM_OUT	Wiegand vandal-proof alarm output	Wiegand Protocol
4	White	DI	Wiegand signal line 1	
5	Green	DO	Wiegand signal line 0	
6	Brown	12V/RFID_CTRL	Wiegand swiping card indicator signal line	-
7	Yellow	RS485-	-	RS485 protocol
8	Purple	RS485+	-	

Chart 4-1

4.2 System Framework

Fingerprint Access Control Card Reader and access controller is connected as in Figure 4-1.

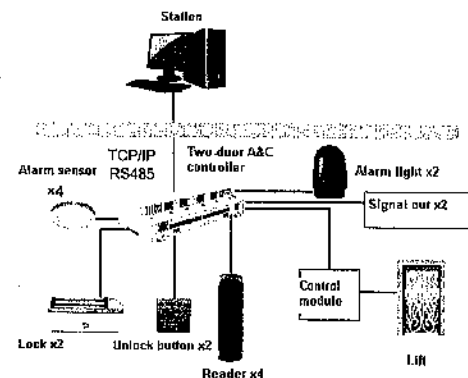


Figure 4-1

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