F18 fingerprint reader fingerprint access control to exit and enter the full access control door system with software

F18

Fingerprint Standalone Access Control

F18 is an innovative biometric fingerprint reader for access control application, offering unparalleled performance by using an advanced algorithm for reliability, precision and excellent matching speed. The F18 features the fastest commercial-based fingerprint matching algorithm and ZK high-performance, high-image quality infrared detection fingerprint sensor. The device offers flexibility to be installed standalone or with any third party access control panels that support standard Wiegand signal. All the operation can be done on the TFT-LCD color screen. The fingerprint image will be displayed on it. That will guide user to put finger on proper position and increase recognition rate. TCP/IP and RS485 are available that the device can be used in different network.



Features



- . TFT-LCD color screen
- Audio-visual indication for acceptance and rejection of valid/invalid fingerprints
- More simple and convenient operation



- · Slim and elegant design
- Streamlined and slim design for narrow spaces



- Fast and accurate fingerprint algorithm
- * User recognition in 1 second
- Store 3,000 fingerprint templates and 30,000 transactions



- Easy installation and connectivity
- * Wegand input & output
- Network interface by TCP/IP or RS485



- Full access control features
- Webserver

exit button, alarm

* Anti-passback * Access control interface for 3rd party electric lock, door sensor,



- Easy operation and management
- * Work with computer
- Buzzer, 4×4 keypads and doorbell
 Built-in serial and Ethernet ports
- Buit-in USB port allows for manual data transfer





Introduction:

F18 is an innovative biometric fingerprint reader for access control applications, offering unparalleled performance using an advanced algorithm for reliability, precision and excellent matching speed. The F18 features the fastest commercial-based fingerprint matching algorithm and high-performance, high-image quality optical fingerprint sensor. The device offers the flexibility to be installed standalone or with any third party panel that supports 26-bit Wiegand. All the operation can be done on the TFT-LCD. The fingerprint image will display on the screen . That will guide the user to put the finger on to proper position and increase the recognition rate.

TCP/IP and RS485 are available that the device can be used in different network.









LED indicator



Keypad



USB port





Manual Screen



Fingerprint Sensor



Doorbell













F 18 Standalone Fingerprint Reader Controlle

Modern standalone fingerprint controller with color display



Biometric Performance:

Reliable, durable and highly accurate ZK fingerprint sensor with latest fingerprint matching algorithm which provides less than 1.5 second user recognition.



Communication:

Weigand output for connecting to access control panel and Ethernet port for fast and reliable communication with the computer



Easy Operation and Management:

Works without computer. Complete setup and programming can be done via keypads and embedded firmware. Audio-Visual Indication for acceptance and rejection of valid/invalid fingerprints, cards and passwords.



Options:

Internal Proximity Card or Mifare Card reader allows dual factor authentication for access control.



Full Access Control Built In:

Relay Outputs for electric lock and alarm. Inputs fordoor status sensor and request to exit hardware. Supports multipletimezones and personnel groups for programming valid entry zones.



Capacity:

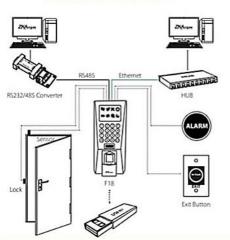
Can store up to 3,000 templates and 30,000 transactions. The data can be backed up to a USB flash drive and can also be transferred to another reader in the absence of computer connectivity.

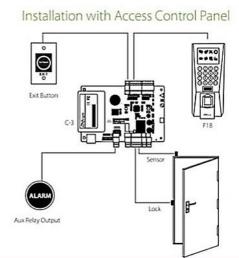


For Software Developers:

Free SDK and development tools are available for developers/partners who wish to integrate F18 with any application which requires verifying people. Custom development is also available for OEM partners upon request.

Standalone Installation





Specifications

Capacity

Fingerprint: 3,000 templates Transactions: 30,000

Display

3.5in TFT LCD Color Display

Communication

Ethernet, Weigand Input and Output, RS485, USB Host

Access Control Interface

3rd party electric lock, Door sensor, Exit button, Alarm, Door bell

Power

12V DC, 3A

Environment

Operating Temperature: 32° to 113° F (0° to 45° C) Operating Humidity: 20% to 80%

What's in the Box

Supported Options

ID Card, Mifare Card

Dimensions

Height: 7.20in (18.3cm) Length: 3.15in (8.0 cm) Width: 1.65in (4.2 cm) Weight: 0.90lbs (0.41kg)

Part Numbers





Installation Template





Network Cable



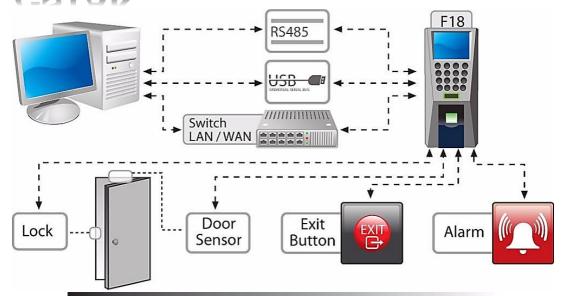




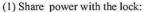


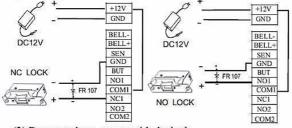


Design and Specifications subject to change without notice



3. Lock Connection



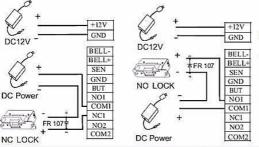


Device shares power with the lock:

ULOCK=12V, I-ILOCK>1A··· ①

And the distance between the lock and the device is equal or less than 10 meters.

(2) Does not share power with the lock:

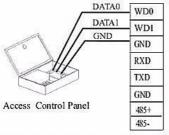


Does not shares power with the lock:

- A. Ulock=12V I-Ilock≤1A;
- B. Ulock≠12V;
- C. The distance between the lock and the device is more than 10 meters.
- (1) The system supports NO LOCK and NC LOCK. For example the NO LOCK (normally open at power on) is connected with 'NO' and 'COM' terminals, and the NC LOCK(normally close at power on) is connected with 'NC' and 'COM' terminals.
- (2) When the Electrical Lock is connected to the Access control System, you need to parallel one FR107 diode (equipped in the package) to prevent the self-inductance EMF affecting the system, do not reverse the polarities.

6. Wiegand Output

The device supports standard Wiegand 26 / Wiegand 34 output, so you can connect it with most of the access control devices by now.



7. Wiegand Input

The device has the function of Wiegand signal input. It supports to connect with an independent card reader. They are installed each side of the door, to control the lock and access together.

+12V	+12V
GND	GND
IWDI	DATAI
IWD0	DATA0
RLED	RLED
GLED	GLED
BEEP	BEEP
DCC1,	

- (1) Please keep the distance between the device and access control or card reader less than 90 meters (Please use Wiegand signal extender in long distance or interference environment).
- (2) To keep the stability of Wiegand signal, connect the device and the access control or card reader in same 'GND' in any case.

1. Equipment Installation



(1) Post the mounting template on the wall. Drill the holes according to the marks on the template (holes for screws and wiring).



(4) Fix the plastic pad and the back plate on the wall according to the mounting paper.



bottom of device.



(2) Remove the screw on the (3) Take away the back plate.



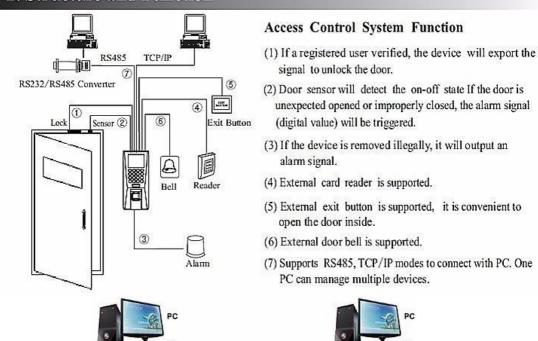
(5) Tighten the screw on the bottom, fix the device to the back plate.

2. Structure and Function

[50808]

Door | Electric

R\$232485



RS485

USB Ker

TCP/IP

HUB

Exit Button

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Fingerprint reader with durable and highly accurate optical sensor

1 touch a-second user recognition

Stores 3,000 templates,100,000 transactions

Reads Fingerprint and/or Card

Optional integrated smart card reader

Built-in Serial and Ethernet ports

Tamper-proofs switch and alarm outputs

Request-to-exit and alarm contacts

Audio-Visual indications for acceptance and rejection of valid/invalid fingers

Specifications:

Fingerprint Capacity:3000 templates

ID/IC card Capacity:Optional

Transaction Capacity: 100,000

Sensor: Optical Sensor

Algorithm Version: Finger v10.0

Communication: RS232/485, TCP/IP, USB-host

Access Control Interface for:3rd party electric lock, door sensor, exit

button, alarm, Door Bell

Wiegand Signal: Output and Input

Display:TFT LCD Screen

Standard function: Webserver, DLST

Optional function:MF card

Power Supply:12V DC

Operating Temperature: 0 C- 45C

Operating Humidity:20%-80%

Operating Temperature:0 C- 45C

Operating Humidity:20%-80%