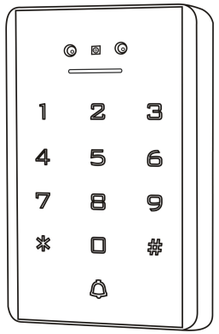
Face Recognition Keypad Access Control
User Manual



Reading this manual carefully before install and use the device

1.Description

The device is a standalone access control and proximity card reader which supports EM & MF card types. It builds-in STC microprocessor, with strong anti-interference ability,high security and reliability,powerful function and convenient operation. It's widely used in high-end buildings, residential communities and other public places.

2.Features

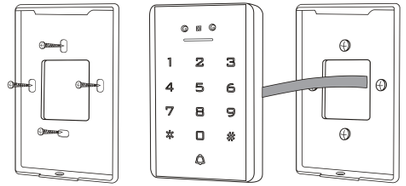
Ultra-low Power	Standby current is less than 30mA
Wiegand Interface	WG26 or WG34 input and output
Searching time	Less than 0.1s after reading card
Backlight keypad	Operate easily at night
Doorbell interface	Support external wired doorbell
Access ways	Card, Pin code, Card & Pin code,Face
Independent codes	Use codes without related card
Change codes	Users can change codes by themselves
Delete users by card No.	The lost card can be deleted by keyboard

3. Specifications

Working Voltage: DC12V (Can customize 24V DC)	Standby Current: ≤30mA
Face capacity: 100	Card & Code Capacity: 2000 users
Card Reading Distance: 2～5cm	Face recognition distance: 1m
Working Temperature: -40℃～60℃	Working Humidity: 10%～90%
Lock output load: ≤3A	Door Relay time: 0～99S (Adjustable)

4.Installation

Drill hole according to the size of the device and fix the back shell with the equipped screw.Thread the cable through the cable hole. connect the wires according to your required function, and wrap the unused wires to avoid short circuit. After connecting the wire, install the machine. (as show below)

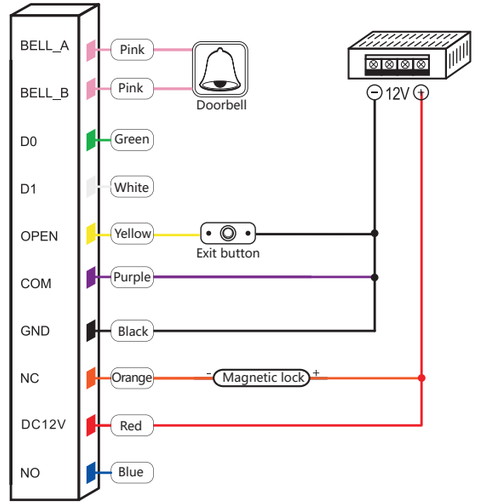


5. Wiring

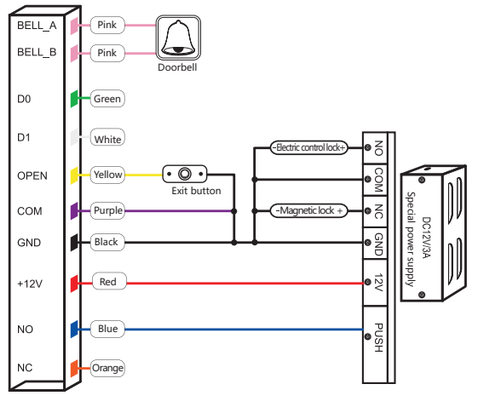
Color	ID	Description
Green	D0	Wiegand Input(Wiegand Output in Card Reader Mode)
White	D1	Wiegand Input(Wiegand Output in Card Reader Mode)
Yellow	OPEN	Exit Button input terminal
Red	+12V	12V + DC Regulated Power Input
Black	GND	12V - DC Regulated Power Input
Blue	NO	Relay normally-on terminal
Purple	COM	Relay Public terminal
Orange	NC	Relay normally-off terminal
Pink	BELL_A	Doorbell button one terminal
Pink	BELL_B	Doorbell button to the other terminal

6.Diagram

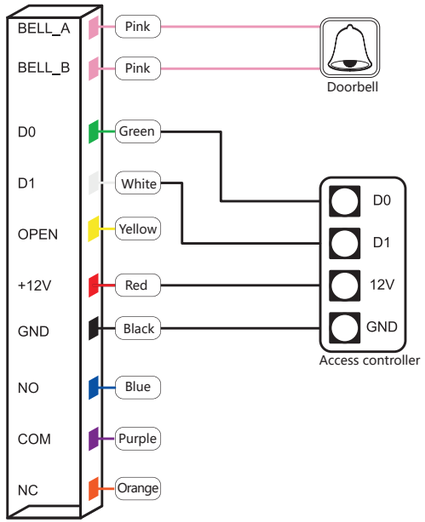
6.1 Common Power Supply



6.2 Special Power Supply



6.3 Reader Mode



7.Sound & Light indication

Operate Status	LED Light Color	Buzzer
Standby	Red	
Keypad		Beep
Operation Successful	Green	Beep一
Operation Failed		Beep-Beep-Beep
Entering into Programming	Flash Red Slowly	Beep一
Programmable Status	Orange	
Exit Programming	Red	Beep一
Door Opening	Green	Beep一

8. Advance setting

	Add Users		Notes
	Change Master code	* Master code # 0 New code # New code #	Default factory master code is 999999.
1	Add card	* Master code # 11 Read card # … #	Cards can be added continuously
	Add card number	* Master code # 11 8 digits or 10 digits #	Card number can be added continuously
	Add ID number+ card	* Master code # 11 ID number # Read card #	Add user with specify ID number, easily find and delete.
	Add ID number+ card number	* Master code # 11 ID number # 8 digits or 10 digits #	Add user with specify ID number, easily find and delete.
	Add PIN code	* Master code # 11 ID number # 4 digits Pin code #	ID number is from 1-2000
	Add card + PIN	* Master code # 6 Read Card 4 digits Pin code #	Set access way to be card + PIN
	Add face	* Master code # 12 Enter face #	Faces can be registered continously

	Delete Users		
2	Delete card	* Master code # 2 Read card or 8 digits or 10 digits #	Cards can be deleted continuously
	Delete face	* Master code # 2 Face #	
	Delete ID number	* Master code # 2 ID number #	When the card is broken or lost, you can delete the user by ID number
	Delete PIN	* Master code # 2 PIN #	All of same PIN will be deleted
	Delete ALL users	* Master code # 2 0000 #	Delete ALL PIN code & card users except public PIN code
3	**Access ways**		
	By card	* Master code # 30 #	Only the card user could unlock the door, keypad is invalid
	By card+ PIN code	* Master code # 31 #	To enable this function, the user PIN code has to be changed.
	By card, pin code or face recognition	* Master code # 32 #	Card user, PIN user and face recognition user could unlock the door (factory default)
4	**Relay Output Delay Time**		
	Door relay strike time	* Master code # 4 0 ~ 99 #	Door opening time range: 0-99s Default 5s
5	**Working Modes**		
	Standalone access control mode	* Master code # 50 #	The door will be locked automatically after open the door normally
	Relay toggle mode	* Master code # 51 #	The door will not be locked automatically.To lock the door, the user has to read the card or press the exit button.
	Reader mode	* Master code # 52 26/34 #	WG26/34 input and output

	Data Backup & WiFi matching		
7	Data backup input	* Master code # 71 #	The device will receive the data.
	Data backup output	* Master code # 70 #	Send the data to external device.
	WiFi matching	* Master code # 73 #	WiFi match(optional)
9	**Public code**		
	Add public code	* Master code # 9 4 digits code #	Only one public code is available.
	Delete public code	* Master code # 9 #	Public code is deleted
	Modify public code	* Master code # 9 4 digits code #	Public code is only one, old one is replaced by new one
*	Change the code by user card	* Read card New code # Repeat new Code #	
	Change the code by ID number added	* ID number # Old code # New code # Repeat new Code #	
	Reset to Factory Default	Users can reset to the factory default when the admin code is forgotten, or the default settings have been modified, operation as below: Method 1: Power off, power on, when the indicator light turn orange,press the # key,swipe the first card as for admin add card, swipe the second card as for admin delete card，on hearing tick tick-tick sound thrice, the admin code has been reset to 999999, factory default settings is successful. Method 2: Power off,press the exit button continously,power on,sound "tick-tick" twice, then release hand,the indicator light turns orange,if need to register admin cards, pls swipe the first card as for admin add card, swipe the second card as for admin delete card within 10s,if not,sound "tick-" once after 10s,the admin code has been reset to 999999, factory default settings is successful, Note: Registered user data won't be deleted when reset to factory default.	

9.Master Card Operation

9.1 Add Card

Read master add card | Read the 1st user card | Read the 2nd user card ... | Read master add card

Note: The master add card is used to add card users continuously and quickly. When you read the master add card at the first time, you will hear short "BEEP" sound twice and the indicator light turns orange, it means you have entered into add user programming. When you read the master add card at the second time, you will hear long "BEEP" sound once and the indicator light turns red, it means you have exited the add user programming.

9.2 Delete Card

Read master delete card | Read the 1st user card | Read the 2nd user card ... | Read master delete card

Note: The master delete card is used to delete card users continuously and quickly. When you read the master delete card at the first time, you will hear short "BEEP" sound twice and the indicator light turns orange, it means you have entered into delete user programming. When you read the master delete card at the second time, you will hear long "BEEP" sound once, the indicator light turns red, it means you have exited the delete user programming.

10.Add face Operation

* Master code # 12 Enter face | Enter face ... , #

Note1: During the recording process, the infrared fill light in the middle of the camera will flash red. If the recording is successful, the machine indicator light will flash green once and a short "beep" will sound. If the face has been recorded, it will not respond to recording again. The distance from the machine during the recording process should be 0.5-1 meter.

Note2: Face recognition requires facing the machine directly. Forehead obstruction and beard will have a greater impact on the judgment. If a rapid "beep-beep-beep" sound appears during the operation, please adjust the corresponding state between the face and the machine.

11.Data Backup Operation

Example: Backup the data of machine A to machine B

The green wire and white wire of machine A connects with the green wire and white wire of machine B correspondingly, set B for receiving mode at first, then set A for sending mode, the indicator light turns green flash during the data backup, data backup is successful when indicator light turns red.

* Master code # 71 # Set B for receiving mode firstly

* Master code # 70 # Set A for sending mode secondly