

Wire Color	Function		Notes	
Basic Stand	alone Wiring			
Red	DC+	12-1	8V DC Power Input	
Black	GND	Neg	ative Pole of DC Power Inp	ut
Blue	Relay NO	Nori	nally Open Relay Output (ins	tall diode provided)
Brown	Relay Common	Con	nmon Connection for Relay	Output
Grey	Relay NC	Non	nally Closed Relay Output (In	sta ll diode provided)
Yellow	OPEN	Request to Exit(REX) Input		
Pass-Through	gh Wiring (Wiegar	nd Re	ader or Controller)	
Green	Data 0	Wie	gand Output (Pass-through) Data 0
White	Data 1	Wie	gand Output (Pass-through) Data 1
Sound and	Light Indication	on		
Ope	ration Status		LED	Buzzer
- · · · ·			Red light bright	
Stand by			Neu light bright	_

Orange light bright

* (Master Code) # (Factory default is 123456)

0 (New Master Code) # (Rep Master Code) #

(Master code is any 6 digits)

Operation error — Exit from the Programming mode Red light bright

Basic Configure ------

Enter and Exit Program Mode

Enter Program Mode

2. Update Master Code

3 Exit Program Mode

Exit Program Mode

Set Master Code

1 '	ory default mode) 7 7 # ection Diagram
	non Power Supply NO ® Blue NC ® Grey
	COM® Brown GND® Black GND® Black DC+® Red White D0 White D1 D

Notes: The device has 3 working modes: Standalone Mode, Controller Mode,

* (Master Code) #

77# (Factory default

Wiegand Reader Mode, choose the mode you use, (Factory default is

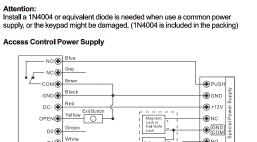
Set the Working Mode

1. Enter Program Mode

Standalone Mode / Controller Mode)

Standalone/Controller Mode

STANDALONE MODE-



Programming Programming will be vary depending on access configuration. Follow the instructions according to your access configuration.

> User ID number: Assign a user ID to the access fingerprint/ card/ PIN The Common User ID:

Fingerprint version: Fingerprint user ID: 0 ~ 98 - Card user ID: 100 ~ 989

IMPORTANT: User IDs do not have to be proceeded with any leading zero: Recording of User ID is critical. Modifications to the user require the User ID be available.

> Proximity Card: Proximity Card: 125KHz EM card/13.56MHz Mifare Card

> PIN: Can be any 4~6 digits except 8888

Add Fingerprint User (Fingerprint version only) 2. Usina Auto ID 1 (Fingerprint) (Repeat (Allows the device to assign Fingerprint to next available U ID number) er again) Fingerprints can be added Select Specified ID 1 (User ID) # (Fingerprint) (Repeat Fingerprin Fingerprint again) fingerprint to) Fail-secure K-lock K+ Add Card User 2. Using Auto ID
(Allows the device to assign Card to Card Number) #

1 (Read Card) / (Input 8/10/17 Digits Card Number) # The cards can be added continuously next available User ID number) 2. Select Specific ID 1 (User ID) # (Read Card) / (Allows Master to define a specific User ID to associate the card to) Add Card: Block Enrollment
(Allows Master to add up to 890
cards to the Reader in a single step)
(Allows Master to add up to 890
cards to the Reader in a single step)
(Cards' number must be consecutive; 1 (User ID) # (Card Quantity) # (The First Card 8/10 / 17 Digits Number) # Takes 2 minutes to program. Card quantity = number of cards to be - PIN/Card User ID: 0~989 - Visitor User ID: 990~999

Add PIN User (Keypad version only)

. Using Auto ID (Allows the device to assign PIN to

(Allows manager to define a specific User ID to associate the PIN to)

next available User ID number)

. Select Specific ID

Add Common Users

Programming Step	cified ID: 99, Fingerprint version Keystroke Combination
1. Enter Program Mode	* (Master Code)#
1. Add Master Fingerprint	1 (99) # (Fingerprint) (Repea Fingerprint) (Repeat Finger again)
3. Exit	*

2. Add PIN (Keypad version only) 1 (User ID) # (0~9) # (PIN) #

Change PIN Users(PIN length: 4~6 digits except 8888)

*(Master Code)#

Keystroke Combination

1 (User ID) # (0~9) # (Read Card) /

* (User ID) # (Old PIN) # (New PIN) #

(Input 8/10 / 17 Digits Card Number) #

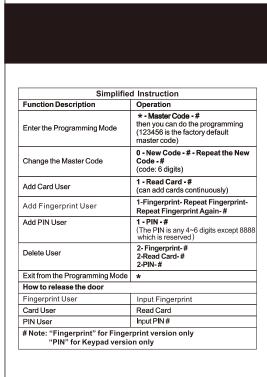
Tips for PIN Security (Only valid for 6 digits PIN):

For higher security we allow you to hide your correct PIN with other

Delete Gaera	
Programming Step	Keystroke Combination
Enter Program Mode	* (Master Code) #
Delete User - By Fingerprint/ Card/ PIN OR	2 (Input Fingerprint)/ (Read Card)/ (Input PIN) # The users can be deleted continuously.
2. Delete User - By ID number OR	2 (User ID) #
Delete User - By Card number OR Delete ALL Users	2 (Input 8/10 / 17 Digits Card Number) # 2 (Master Code) #
	· · · · · · · · · · · · · · · · · · ·
3. Exit	*
# Note: "Fingerprint" for Finge "PIN" for Keypad versi	
Set Relay Configuration The relay configuration sets the beh	naviour of the output relay on activation.

*(Master Code)# 3 (1~99) # (factory default) Pulse Mode The relay time is 1-99 seconds. (Default is 5 seconds) . Toggle Mode Sets the relay to ON/OFF Toggle mode

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Set Access Mode

For Multi user access mode, the interval time of reading can not xceed 5 seconds, or else, the device will exit to standby automatically

Programming Step	Keystroke Combination
1. Enter Program Mode	*(Master Code)#
2 Fingerprint Access OR	4 0 # (Fingerprint version only)
2 Card Access OR	4 1 # (factory default for RFID version only)
2 PIN Access OR	4 2 # (Keypad version only)
2 Multi User Access	4 3 (2~9) # (Only after 2~9 valid users, the door be opened)
OR	, ,
2 Fingerprint or Card or PIN Access	4 4 # (factory default for Fingerpint / Keypad version)
3. Exit	*

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Set Strike-out Alarm

Programming Step	Keystroke Combination
Enter Program Mode	* (Master Code)#
2. Strike-Out OFF OR	6 0 # (factory default)
2. Strike-Out ON	61# Access will be denied for 10 m
OR	(Exit button is still workable)
2. Strike-Out ON (Alarm)	62#
Set Alarm Time	5 (0 ~ 3) # (factory default is 1 minu Enter Master Code # or Master Fing Card or valid user fingerprint / card / silence
3. Exit	*

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Set Audible and Visual Response

Programming Step	Keystroke Combination
1. Enter Program Mode	* (Master Code) #
2. Disable Sound	70#
Enable Sound	7 1 # (factory default)
OR	
2. LED Always OFF	72#
LED Always ON	7 3 # (factory default)
3. Exit	*

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Users Operation & Reset to Factory Default

> Open the door: Read valid user fingerprint or user card or input valid user PIN #
> Remove Alarm: Enter Master Code # or Master Fingerprint/ Card or valid user fingerprint / card / PIN

To reset to factory default & Add Master Card: Power off, press the Exit Button, hold it and power on, there will be two beeps, then release the exi button, the LED light turns into yellow, then read any 125KHz EM card/ 13.56MHz Mifare Card, the LED will turn into red, means reset to factory default successfully. Of the card reading, it is the Master Card.

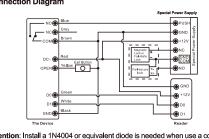
(1) If no Master Card added, must press the Exit Button for at least 5 seconds before release.(this will make the previous registered Master Card invalid) Reset to factory default, the user's information is still retained.

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Master Fingerprint/ Card Usage (Master Card is not default accessory in the box, please add it by yourself if needed) Ising Master Fingerprint/ Card to add

Using Master Fingerprint/ Card	to add and delete users
Add Fingerprint/ Card/ PIN Users	Input (Master Fingerprint / Card) Input (Fingerprint three times) or (Card) or (PIN *) Repeat step 2 for additional users Input (Master Fingerprint / Card) again
Delete Fingerprint/ Card/ PIN Users	Input (Master Fingerprint/ Card Twice within 5s) Input (Fingerprint) or (Card) or (PIN #) Repeal step 2 for additional users Input (Master Fingerprint/ Card) again
# Note: "Master Fingerprint" for I	Fingerprint version only

CONTROLLER MODE ____ The device can work as Controller, connected with the external Wiegand reader (Factory default mode) --- 7 7 # onnection Diagram



Attention: Install a 1N4004 or equivalent diode is needed when use a common power supply, or the reader might be damaged. (1N4004 is included in the packing)

Set Wiegand Input Formats

Please set the Wiegand input formats according to the Wiegand output format Progr

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* (Master Code)#
(
For EM Card: 8 (26~ 44) # (factory default is 26bits) For Mifare Card: 8 0 (26~44, 56, 58) # (factory default is 34bits)
8 0 # 8 1 # (factory default)
*

> Basic Programming is the same as Standalone Mode > There are some exceptions for your attention: The device Connected with External Card Reader

- If EM/Mifare card reader: users can be added/deleted on either the device or external reader. - If HID card reader : users can only be added/deleted on

The device Connected with Fingerprint Reade

For example:
Connect SF1 as the fingerprint reader to the device.
Step 1: Add the Fingerprint (A) on SF1 (Please refer to SF1 manual) Step 2: Add the same Fingerprint(A) on the device:

1 Enter Program Mode: * (Master Code) # 1 (Press Fingerprint A once on SF1) # (ID auto allocated 1 (User ID) # (Press Fingerprint A on SF1) # (Select specific ID) 3 Exit: *

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The device Connected with Keypad Reader

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1 (User ID) # (PIN) #

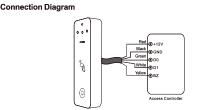
Programming Step	Keystroke Combination
1. Enter Program Mode	* (Master Code)#
2. PIN input bits	8 (4 or 8 or 10) # (factory default is 4 bits)
3. Exit	*

> Add PIN Users: To add PIN users, after enter into programming mode on the device, PIN(s) can be input/added on either the device or the external

> Delete PIN Users: the same way as add users.

WIEGAND READER MODE —

The device can work as Standard Wiegand Reader, connected to the third party



When set into Wiegand Reader mode, nearly all settings in Controller Mode. will become invalid, and Yellow wire will be redefined as below:

- If you need to connect Yellow wire
- When the input voltage for Buzzer is low, it will sound.

- Yellow wire: Buzzer control

Set Wiegand Output Formats

Programming Step

Change PIN

2. Add Card

Please set the Wiegand output formats of Reader according to the Wiegand input formats of the Controller

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	Programming Step	Keystroke Combination
	1. Enter Program Mode	* (Master Code)#
ts)	Wiegand output bits PIN output bits	For EM Card: 8 (26~44) # (factory default is 26bits) For Mifare Card: 8 0 (26~44, 56, 5 (factory default is 34bits) 8 (4 or 8 or 10) # (factory default is 4
	Disable Parity Bit Enable Parity Bit Exit	8 0 # 8 1 # (factory default)

Note: For connecting Wiegand controller with 32, 40, 56 bits input, need disable parity bits.

ADVANCED APPLICATION ·

Collection Card Mode After this mode turned on, all cards can open the lock. At the same time

Programming Step	Keystroke Combinatio
Enter Program Mode	* (Master Code)#
Collection Card Mode OFF OR	9 2 # (factory default)
2. Collection Card Mode ON	93#
3. Exit	*

Reset the WIFI (After resetting, the device will be removed in APP)	
Programming Step	Keystroke Combination
1. Enter Program Mode	* (Master Code)#
2. Update Master Code	9 (Master Code) #
3. Exit	*

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Video Intercom Access



Fingerprint

RFID Keypad

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User Manual