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safire SF-AC109-WIFI Standalone Access Control User Manual

Contents

safire SF-AC109-WIFI Standalone Access Control

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.
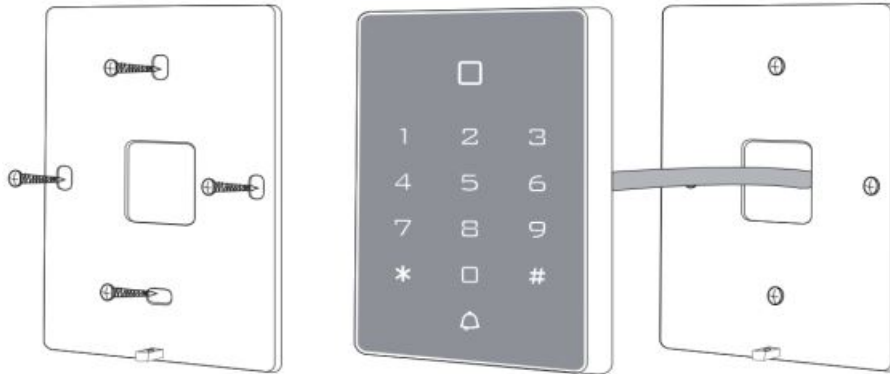
Features

- **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 wavs:** Card. Pin code. Card & Pin code
- **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 delete by keyboard

Specifications

- **Working Voltage:** DC12-24V
- **Card Reading Distance:** 2 ~ 5cm
- **Working Temperature:** 40°C~60°C
- **Lock output load:** 53A

- **Standby Current:** 530mA
- **Capacity:** 2000 users
- **Working Humidity:** 10% ~90%
- **Door Relay time:** 0~99S (Adjustable)

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)
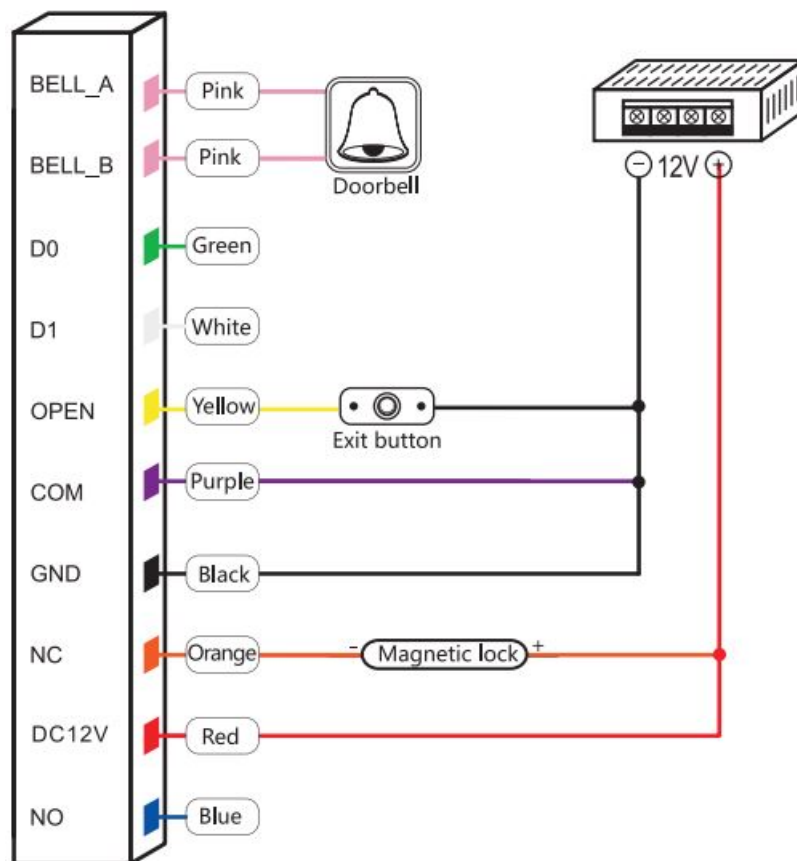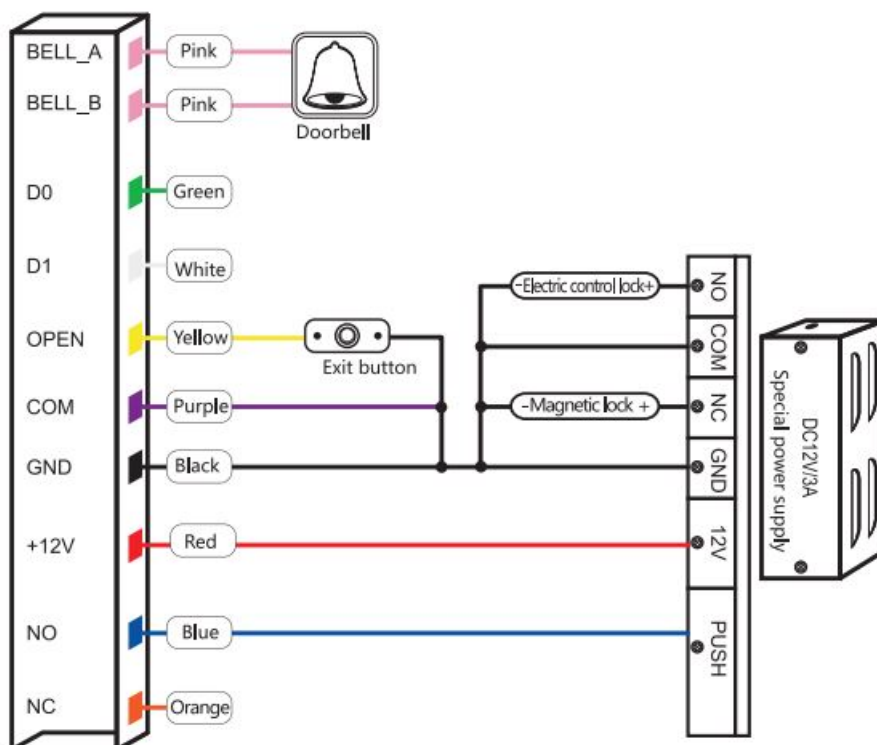
Wiring

Color/ID/Description

- **Green:** DO/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/ Relav normally-off terminal
- **Pink:** BELL A /Doorbell button one terminal
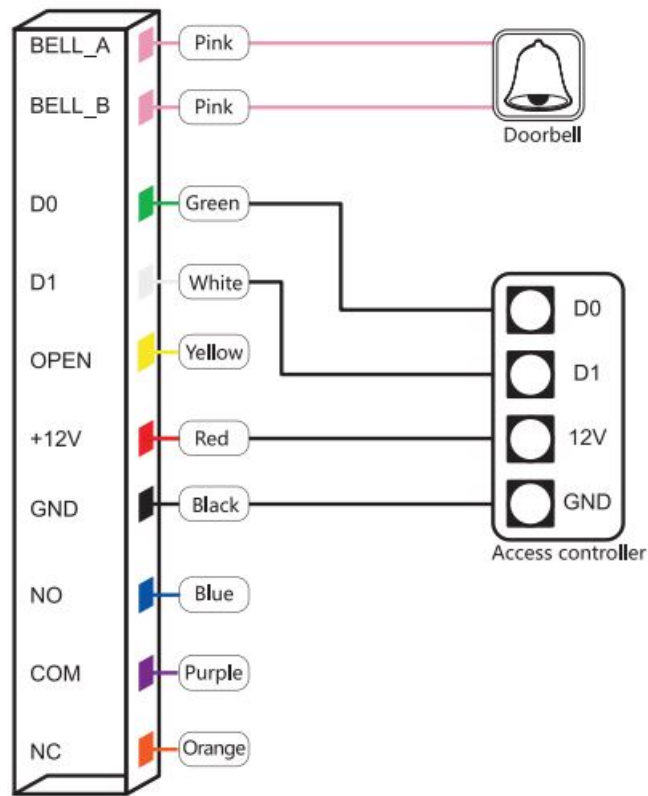- **Pink:** BELL B /Doorbell button to the other terminal

Diagram

Common Power Supply

Special Power Supply

Reader Mode

Sound & Light indication

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

Advance setting

After each programming step finished, need to press * to out off programming mode.

	Add Users		Notes
	Change Master code	⭐ | Master code | # | 0 New code | # | New code | #	Default factory master code is 999999.
1	Add card	⭐ | Master code | # | 1 Read card | # | ⋯ | #	Cards can be added continuously
	Add card number	⭐ | Master code | # | 1 8 digits or 10 digits | #	Card number can be added continuously
	Add ID number+ card	⭐ | Master code | # | 1 ID number | # | Read card | #	Add user with specify ID number, easily find and delete.
	Add ID number+ card number	⭐ | Master code | # | 1 | ID number # | 8 digits or 10 digits | #	Add user with specify ID number, easily find and delete.
	Add PIN code	⭐ | Master code | # | 1 | ID number # | 4 digits Pin code | #	ID number is from 1-2000
2	**Delete Users**		
	Delete card	⭐ | Master code | # | 2 Read card or 8 digits or 10 digits | #	Cards can be deleted continuously
	Delete ID number	⭐ | Master code | # | 2 ID number | #	When the card is broken or lost, you can delete the user by ID number
	Delete ALL users	⭐ | Master code | # | 2 | 0000 | #	Delete ALL PIN code & card users except public PIN code

	Access ways		
3	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 or PIN code	`* Master code # 32 #`	Both card user and PIN 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	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
6	Bind a code to a specific card	`* Master code # 6 Read card 4 digits code #`	When using card+code to unlock the door
7	Data backup output	`* Master code # 70 #`	Send the data to external device.
	Data backup input	`* Master code # 71 #`	The device will receive the data.
	WiFi matching	`* Master code # 73 #`	WiFi match(optional)
9	Add public code	`* Master code # 9 4 digits code #`	Only one public code is available. Delete public code: `* Master code # 9 #`
*	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	Power off, press the exit button continuously, power on, hearing beep sound twice, meanwhile, the indicator light turns orange, swipe the first card as for master add card, swipe the second card as for the master delete card, the master code has been reset to 999999, factory default settings are successful. ★Registered user data won't be deleted when reset to factory default	

Master Card Operation

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.

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.

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.

Documents / Resources

	safire SF-AC109-WIFI Standalone Access Control [pdf] User Manual SF-AC109-WIFI, SF-AC109-WIFI Standalone Access Control, Standalone Access Control, Access Control