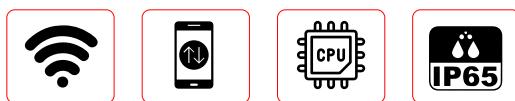


Verification



Card Password

Features



Wi-Fi Mobile-App Connectivity High Speed Processor IP65 Rating



Stand Alone Controller

TW-CR12/CR12W

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 ways	Card, Pin code, Card & Pin code


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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

Specification

Working Voltage	DC12-24V
Capacity	2000 users
Card Reading Distance	1~3cm
Standby Current	≤30mA
Door Relay time	0~99S(Adjustable)
Working Temperature	-40°C ~ 60°C
Working Humidity	10% ~ 90%
Dimension	114x75x16mm

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)



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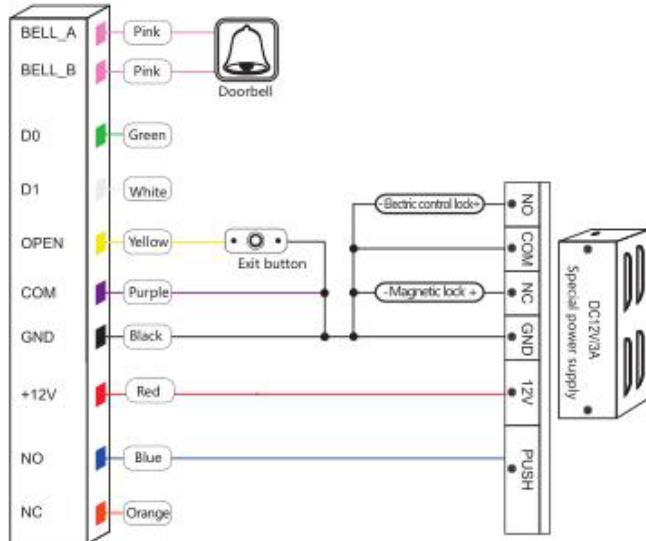
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Wiring

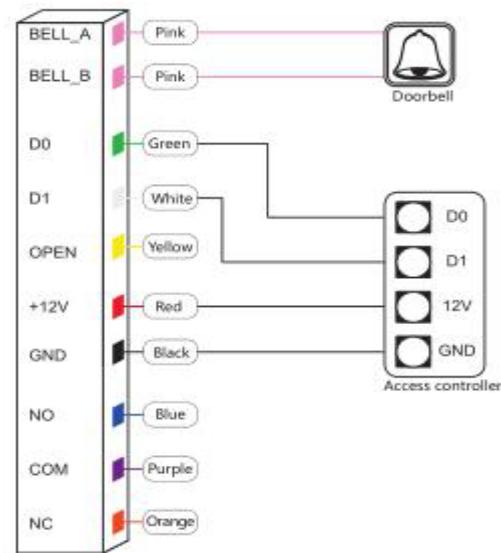
Color	ID	Description
Green	D0	Wiegand Input (Wiegand Output in Card Reader Mode)
White	D1	Wiegand Input (Wiegand Output in Card Reader Mode)
Yellow	OPEN	Exit Button input terminal
Red	+12V	12V + DC Regulated Power Input
Black	GND	12V - DC Regulated Power Input
Blue	NO	Relay normally-on terminal
Purple	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

Diagram

Common Power Supply



Special Power Supply



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—

Advanced Setting

Add Users			Notes
Change Master code			Default factory master code is 999999.
Add card			Cards can be added continuously
Add card number			Card number can be added continuously
Add ID number+card			Add user with specify ID number, easily find and delete.
Add ID number+card number			Add user with specify ID number, easily find and delete.
Add PIN code			ID number is from 1-1000
Delete Users			
Delete card			Cards can be deleted continuously
Delete ID number			When the card is broken or lost, you can delete the user by ID number
Delete ALL users			Delete ALL PIN code & card users except public PIN code.
Access ways			
By card			Only the card user could unlock the door, keypad is invalid
By card+PIN code			To enable this function, the user PIN code has to be changed.
By card or PIN code			Both card user and PIN user could unlock the door (factory default)



Relay Output Delay Time	
4	Door relay strike time <input type="checkbox"/> * <input type="text"/> Master code <input type="checkbox"/> # <input type="checkbox"/> 4 <input type="text"/> 0~99 <input type="checkbox"/> # <input type="checkbox"/> Door opening time range: 0~99s Default 5s
5	Standalone access control mode <input type="checkbox"/> * <input type="text"/> Master code <input type="checkbox"/> # <input type="checkbox"/> 50 <input type="checkbox"/> # <input type="checkbox"/> The door will be locked automatically after open the door normally
	Relay toggle mode <input type="checkbox"/> * <input type="text"/> Master code <input type="checkbox"/> # <input type="checkbox"/> 51 <input type="checkbox"/> # <input type="checkbox"/> 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 <input type="checkbox"/> * <input type="text"/> Master code <input type="checkbox"/> # <input type="checkbox"/> 52 <input type="checkbox"/> 26/34 <input type="checkbox"/> # <input type="checkbox"/> WG26/34 input and output
6	Bind a code to a specific card <input type="checkbox"/> * <input type="text"/> Master code <input type="checkbox"/> # <input type="checkbox"/> 6 <input type="checkbox"/> Read card <input type="checkbox"/> 4 <input type="checkbox"/> When using card+code to unlock the door
7	Data backup output <input type="checkbox"/> * <input type="text"/> Master code <input type="checkbox"/> # <input type="checkbox"/> 70 <input type="checkbox"/> # <input type="checkbox"/> Send the data to external device.
	Data backup input <input type="checkbox"/> * <input type="text"/> Master code <input type="checkbox"/> # <input type="checkbox"/> 71 <input type="checkbox"/> # <input type="checkbox"/> The device will receive the data.
9	Add public code <input type="checkbox"/> * <input type="text"/> Master code <input type="checkbox"/> # <input type="checkbox"/> 9 <input type="checkbox"/> 4 digits code <input type="checkbox"/> # <input type="checkbox"/> Only one public code is available. Delete public code: <input type="checkbox"/> * <input type="text"/> Master code <input type="checkbox"/> # <input type="checkbox"/> 9 <input type="checkbox"/>
*	Change the code by user card <input type="checkbox"/> * <input type="text"/> Read card <input type="checkbox"/> New code <input type="checkbox"/> # <input type="checkbox"/> Repeat new Code <input type="checkbox"/> #
	Change the code by ID number added <input type="checkbox"/> * <input type="text"/> Old code <input type="checkbox"/> # <input type="text"/> New code <input type="checkbox"/> # <input type="checkbox"/> Repeat New code <input type="checkbox"/> # Note: All of codes will be modified except public code.
	Reset to Factory Default <input type="checkbox"/> 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

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. 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.

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