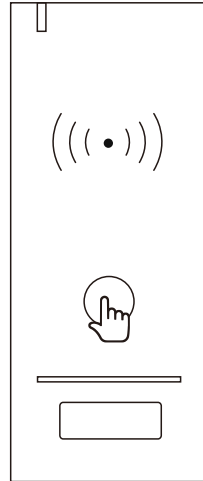


# Wireless Reader



User Manual

## 1. Introduction

The Wireless Reader Kit includes a Wireless Reader and a Receiver. 433MHz Rolling Code of encryption algorithm guarantees higher-secure, programmable Wiegand output of the Receiver makes it can work with most Wiegand controller in the world. Super strong 3M stickers provide a simple way for installing the Wireless Reader.

Because of ultra low power consumption, the battery of Wireless Reader can work as long as 6 months. (bases on 30 times /day)

### Features

- 433MHz Rolling Code technology
- Card type: 13.56MHz Mifare card
- Programmable Wiegand output of the Receiver: 26 bits or 34 bits
- Communication distance: 30m maximum
- Ultra low power consumption
- Waterproof, conforms to IP65

### Specifications

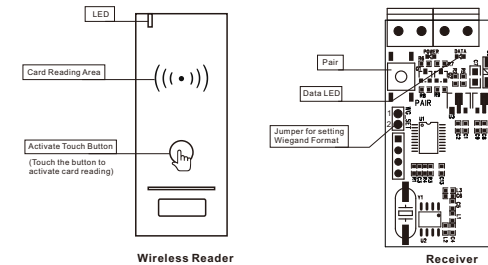
Wireless Reader	Card Type	13.56MHz Mifare card
	Operating Voltage	3 units of AAA batteries
	Idle Current	≤5uA
	Working Current	≤35mA
	Reading Distance	≤3cm
	Communication Frequency	433MHz
	Communication Distance	30m Maximum
	Operating Temperature	-20°C~+60°C (-4°F~+140°F)
	Operating Humidity	0%~86%
	Index of Protection	IP65
Color	Black, White optional	
Dimensions	L120 * W50 * H20 (mm)	
Net Weight	88g	

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Receiver	Operating Voltage	12V DC
	Working Current	≤15mA
	Communication Frequency	433MHz
	Wiegand Output Format	26 bits Or 34 bits (Default is 26 bits)
	Operating Temperature	-20°C~+60°C (-4°F~+140°F)
	Operating Humidity	0%~86%
	Dimensions	L25 * W50 (mm)
Net Weight	10g	

## 2. Installation

### Function Indicator Diagram

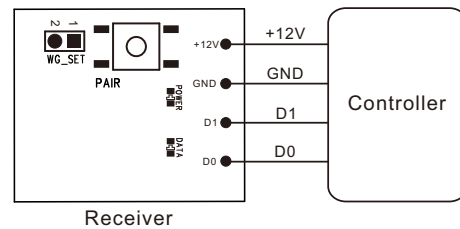


### Wiring

Port	Function
+12V	12V DC Power Input
GND	Ground
D1	Wiegand Data 1 Output
D0	Wiegand Data 0 Output

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### Connection Diagram



Receiver

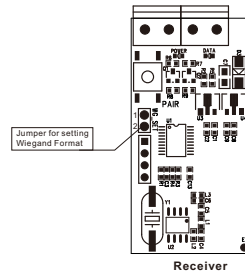
## 3. Programming

### Read Card

Touch the activate touch button, then read the card

### Set Wiegand Output Format

(Factory default is 26 bits)



Receiver

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- 1) Set Wiegand 26 bits output: Insert Pin caps to points 1, 2 (WG\_SET)
- 2) Set Wiegand 34 bits output: Remove Pin caps from points 1, 2 (WG\_SET)

### Pair the Wireless Reader with Receiver

(They are already paired when out of factory, if no problem, the users do not need to do this operation in using.)

- Note:**
- 1) The Receiver can pair 16pcs of Wireless Readers maximum.
  - 2) When pairing, all parts must be paired at the same time, then exit pairing mode. If need adding one more part, you still need to pair all parts again.

### Step 1: Enter Pairing Mode

Press the 'Pair' button on the Receiver for 5 seconds, the green LED will be light on, means in the pairing mode;

### Step 2: Pairing Wireless Reader

Touch the activate button on the Wireless Reader, reading a card, the green LED on Receiver will be light on for 0.5 second, means pairing successfully;

(Repeat step 2 if you want to pair more Wireless Readers)

### Step 3: Exit Pairing Mode

Press the 'Pair' button on the Receiver for 0.5 second to exit pairing mode.

### Delete Wireless Reader

**Note:** This step will delete all paired Wireless Readers at once, please be careful.

Press the 'Pair' button on the Receiver for 5 seconds, release it when the green LED light on, press the 'Pair' button again for 0.5 second, then all Wireless Readers will be deleted.

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## 4. Low Battery Warning

If the Wireless Reader makes 3 beeps and red LED shines 3 times when reading cards, means the battery is low, please change the battery in time.

## 5. Sound and Light Indication

	Operation Status	Red LED	Green LED	Buzzer
Wireless Reader	Touch to activate	ON	--	--
	Read valid card	--	ON for 0.5 second	One beep
	Read card when low battery	Shines 3 times	--	3 beeps
Receiver	Stand-by	ON	--	--
	When read valid card on Wireless Reader	ON	ON for 0.5 second	--
	Pairing mode	--	ON	--

## 6. Packing List

No.	Name	Quantity
1	Box	1
2	Wireless Reader	1
3	Receiver	1
4	User Manual	1
5	Wall Fixing Plugs	2
6	Self Tapping Screws	2
7	3M Stickers	1

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