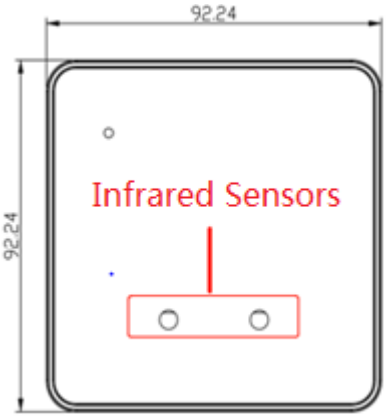
The Installation and Operation manual of REX0-L Exit Button

The REX0-L is an IR Contactless Exit Button which also has the mechanical override to ensure user exit success in case of any power or electronic failure, Support battery and external power supply. This exit button will fit with door frame mounting installation.

Function Description:



● When user hands close to the reader to trigger the exit button, the exit button indicator will turn green, the buzzer will beep once, and the green light of the controller module will flash quickly. Then the relay will be activated when the buzzer beep one time. The relay will turn off automatically after 2s, and the indicator light will return to the initial state.

●Battery power supply
1) Normal state:
Electricity>=2.5V, the blue light flashes.
Electricity <2.5V, the red light flashes, supporting the relay to activate the button through the DIP switch control.

2) External power supply Normal state:
The blue light flashes. The relay of the module inducts and activates, turns off automatically after 2S.

● Exit button module 1: the green light flashes one time once detected (stay and keep induction)

1、 Once the induction communicates with the receiver module 2 is successful, the buzzer beeps once;

2、 If the induction fails to communicate with the receiver module 2, the red light flashes once, and the buzzer beeps twice.

● If the exit button module 1 communicates with the receiver module 2 successfully, the buzzer of module 2 beeps once, the indicator light flashes slowly, and the relay is activated then automatically turns off after 2 seconds, and the indicator light returns back to the initial state.

● Receiver module (turn on: the indicator light flashes very slowly (nearby the button))-up to match five modules 1.

● The buzzer can be turn on or off, supporting DIP switch/trigger control.

● The mechanical override: press the panel to trigger the exit button.

Specification:

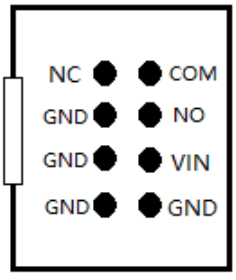
Exit button module 1:	
Operating voltage	2 or 4 AAA batteries (3V) / external 9-24V DC
Static sleep current	3.0uA （250ms）
Dynamic Operating current	1.44mA ~ 1.81mA（20ms）
2.4G Emission current	<=25mA
Battery Powered Life	2 AAA batteries : 1 year (Standby or Induce 200 times / day)
Receiver module 2:	
Operating voltage (V)	10~24V DC
Operating current	12mA ~ 70mA / 12VDC
Operating temperature (℃)	-30 ~70
Operating environment humidity（%）	10~ 90%
Communication distance between modules	30m Max（Open area）
Reading range	5 ~ 15cm
Operating mode	One module 2 can be matched with five modules 1
2.4G Transmit and receive power	7dBm(Max)

Instructions for exit button and wireless receiver:

TRNF	Modules actitive	Signal output	Dip switch
Power Supply	Exit Button	Exit Button	2、4off，Turn off wireless
	Exit Button + Wireless Receiver Receiver	Wireless Receiver	3off，Close the Exit Button relay
Battery	Exit Button + Wireless Receiver	Wireless Receiver	3off，Close the Exit Button relay
	Exit Button	Exit Button	2、4off，Turn off wireless communication

Wiring instructions for exit button:

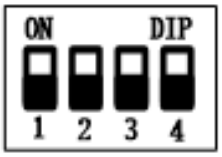
No.	Mark	Colour	Description
1	COM	orange	Public port
2	NO	brown	Normally open, signal output
3	VIN	red	Power input,9~24V DC
4	GND	black	Grounded
5	NC	purple	Normally closed, signal output
6	GND	black	Grounded
7	GND	black	Grounded
8	GND	black	Grounded



Exit button port

DIP switch setting of exit button:

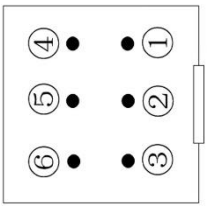
1	Buzzer	on	Turn on the buzzer
		off	Turn off the buzzer
2	wireless communications	on	Turn on wireless communication
		off	Turn off wireless communication
3	Relay	on	Open relay
		off	Turn off the relay
4	Pairing control	on	Enable pairing
		off	Disable pairing



DIP switch

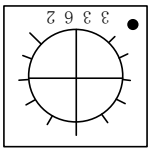
Receiver port instructions：

No.	Mark	Colour	Description	
1	VIN	red	Power input,9~24V DC	
2	GND	black	Grounded	
3	GND	black	Grounded	
4	NO	brown	Normally open	Signal-output (dry contact)
5	COM	orange	Public port	
6	NC	purple	Normally closed	



Receiver

Adjustable resistance knob：



Adjustable resistance knob：To adjust the infrared sensoring distance, drive a tool into the central cross recess then spin it for fine tune.
Increase infrared sensoring distance by turn the knob counterclockwise.
Reduce infrared sensing distance by turn the knob clockwise.
Note: the infrared sensing distance is related to the power supply voltage. When the battery power decreases, the sensing distance will also decrease. When the battery is powered, the resistance cannot be adjusted to the shortest distance due to the unstable power supply, otherwise it will not be able to sense the trigger normally. When the DC power supply is used, the power supply is stable, and when the sensing distance is adjusted to the shortest, the sense can be triggered normally.

Function and state：

Module	Function	state	Description
Module 1 Exit Button	Standby	The blue light kept flashing	Electricity ≥2.5V
		The red light flashes continuously	Electricity <2.5V
	Induction	The green light flashes once, and the buzzer buzzes briefly once	Trigger successful
		The red light flashes once and the buzzer buzzes twice	Failed to communicate with module 2
Module 2 Wireless Receiver	Standby	Green light slow flash	After power on
	Induction（Module 1）	The green light blinks for 2 seconds and the buzzer beep once, Relay actived and then close automatically after 2 seconds	Trigger successful

Pairing mode: 1. Press the receiver button, (>=2 seconds, <=4 seconds) 2. Trigger the exit button once, and then pairing the devices

1： Presses the pairing button of the receiver module (>=2 seconds, <=4 seconds), and then releases after the buzzer sounds once with the indicator light flashes quickly, ok to entry the pairing mode

- Exit after 10 seconds, and the buzzer will beep twice
- Trigger the exit button, exit button module:

➢ Successfully paired (if not paired, re-added):
Module 1: The green light flashes, the buzzer beeps once;
Module 2: The indicator light flashes slowly, and the buzzer long beeps once.

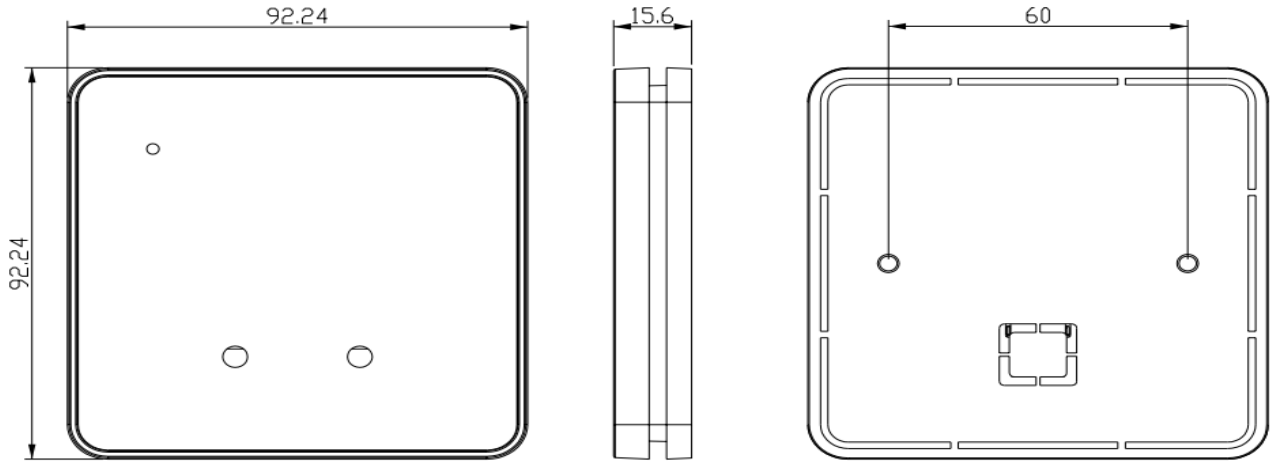
➢ Successfully paired (if paired, deleted):
Module 1: Green light flashes, buzzer long beeps once;
Module 2: indicator light flashes slowly, buzzer long beeps twice

➢ Pairing failure:
Module 1: The communication failure status is the same as that of Module 2;
Module 2: No response.

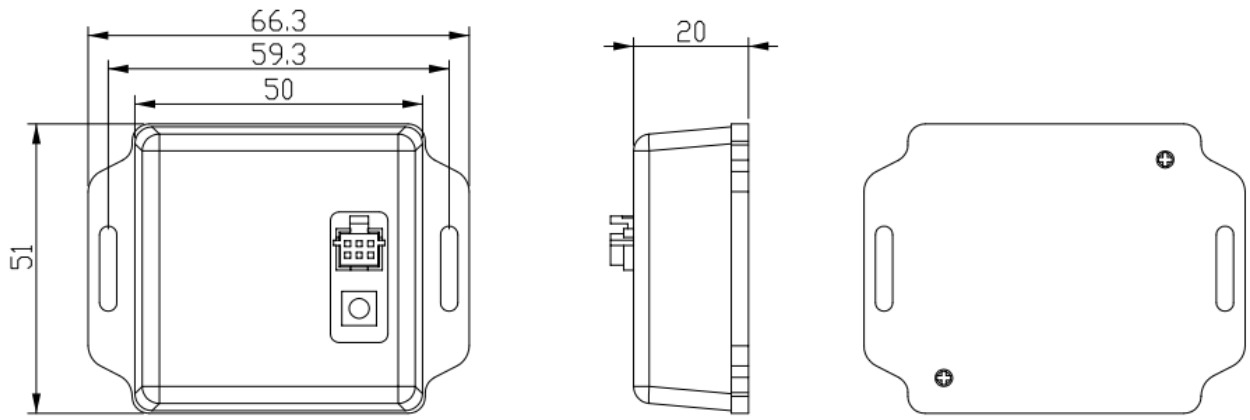
➢ If the number of pairing exceeds the upper limit, or the pairing is wrong, the buzzer will beep three times.

2： Press the pairing button of the receiver module (>=4 seconds), until the indicator light flashes super-fast, the buzzer long beeps once, the receiver module deleted all pairing parameters.

Button overall size(mm)： 92.24(L)×92.24(W) ×15.6(H)



Receiver overall size(mm)： 66.3(L)×51(W)×20(H)



Installation instructions：

1. **Install the exit button module：**

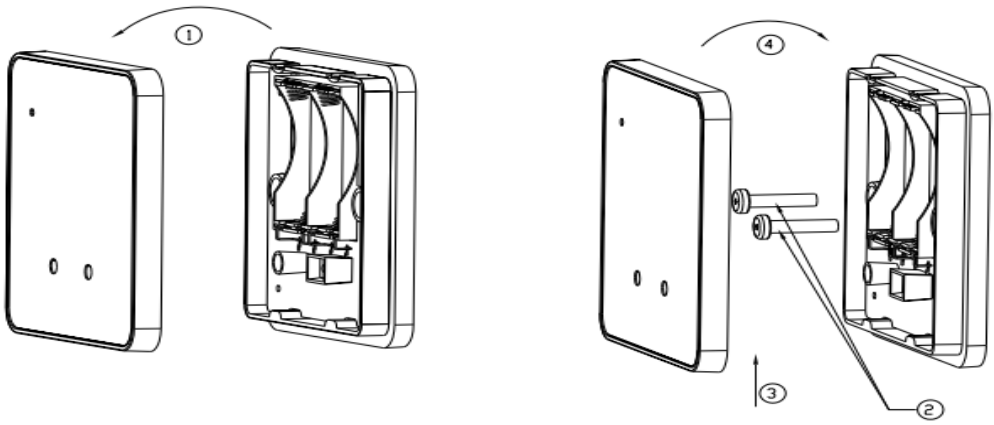
a) Hold the L&R side of the exit button，slight bending the front panel towards outside as below figure①，where the battery is installed;

b) Battery power: two or four size 7 (AAA) dry batteries are required as below figure. The device has two sets of battery holders. If only two batteries are to be installed, just install the batteries in one side holder.

c) Fix the whole module body with screws（as per figure②）

d) Firstly put the bottom of the panel into the two M shape joint, then press the top of the panel to snap fit with base easily（as shown in figure③、④)

e) When the battery is installed, the exit button enters the standby mode.



2. **Receiver module installation：**

a. Fix the installation position. For the detailed dimensions of module 2, see "Physical Size"

b. Connect the cable on module 2 correctly as required，Refer to "Receiver port Instructions" above

c. Drive two corresponding screws to fix the module 2 as image shown.