SMARFID
REX0159-L-B Contactless Exit Button

SMARFID REX0159-L-B Contactless Exit Button Instruction Manual

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Product Information

The REX0159-L-B is a multiple-function surface mount Infrared Contactless Exit Button with a built-in Mechanical Override feature. It has dimensions of 118.24mm (L) x 74.24mm (W) x 17.1mm (H).

Specifications:

- **Operating Voltage:** 2 or 4 AAA batteries (3V)/external 12V DC
- **Standby Current:** 50uA

Functionality:
The exit button features an Indicator Light, Infrared Sensors, and a Wiring Connector for ease of installation. It supports a built-in Mechanical Override for manual door release in case of power failure.

Indicator Light:
Flashes blue in the normal state and triggers the relay upon successful activation for 0.8 seconds.

DIP Switch Settings:
The DIP switch allows for customization of functions such as turning on/off the buzzer, wireless communication, relay control, and pairing.

Sensing Distance Control:
Adjust the Infrared sensing distance by rotating the middle cross knob. Turn counterclockwise to increase the sensing distance and clockwise to reduce it.

Product Usage Instructions

1. **Installation:**
   Mount the exit button on a suitable surface ensuring proper alignment of the Infrared Sensors.
2. **Wiring:**
   Connect the wires according to the Wiring Connector instructions provided. Ensure correct polarity and grounding.

3. **Function Customization:**
   Use the DIP switch settings to customize the buzzer, wireless communication, relay, and pairing options based on your requirements.
4. **Sensing Distance Adjustment:**
   Rotate the middle cross knob to adjust the Infrared sensing distance. Test the button to ensure proper triggering.

FAQ:

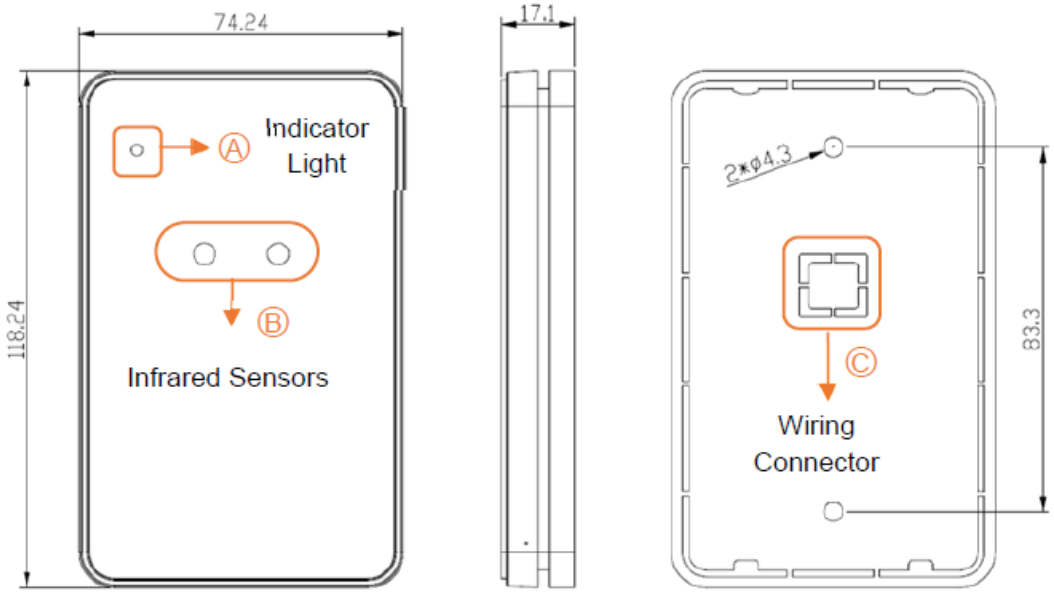
- **Q: What should I do if the exit button does not trigger?**
  A: Check the power supply, and wiring connections, and ensure that the Infrared Sensors are not obstructed. Adjust the sensing distance if needed.
- **Q: How do I activate the Mechanical Override feature?**
  A: In case of power failure, press the exit button firmly to manually release the door open using the Mechanical Override function.

Overview

The REX0159-L-B is a multiple-function surface mount Infrared Contactless Exit Button with the following two unique features:

1. Built-in Mechanical override: in case of any electronic or power failure, the user has an additional option (mechanical override) to release the door by pressing the exit button. This will ensure instant access to exit without breaking or activating any kind of Emergency Device to exit; saving time and cost. The function supports NO output only

Exit button's Physical size(mm) 118.24(L)x74.24(W)x17.1(H)



Function

- When the trigger is successfully detected on the Infrared Sensor(as shown above in Figure B) to the exit

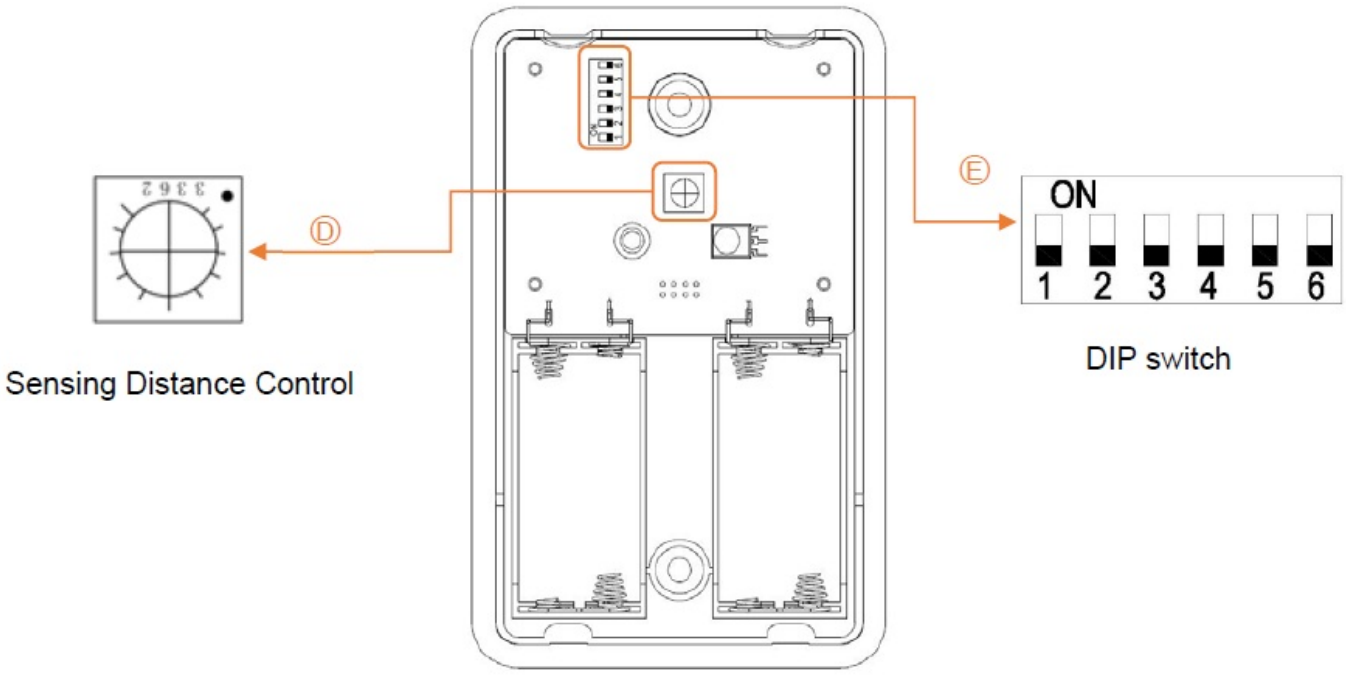
button, the relay is activated with its Indicator Light(as shown above in Figure A) turning from blue to green, and the buzzer beeps once. After 0.8 seconds, the relay will be turned off automatically, and the Indicator Light(Figure A) will return to the initial state. (If the trigger stays within the contact sensor without any movement, there will be a consistent trigger with the continuous buzzer beep).

- **Power supply**

  Normal state: The Exit button's Indicator Light(Figure A) flashes Blue. The successful trigger will start the relay and turn off automatically after 0.8 seconds.
- The buzzer can be turned on or off. Refer to the "DIP switch setting of exit button".

Note: Don't wave too fast or you won't be able to trigger the button.

Inside View of the Exit Button



DIP switch (Figure E) setting of exit button:

1	N/A	N/A	N/A
2	Buzzer	on	Turn on the buzzer
		off	Turn off the buzzer
3	wireless communications	on	Turn on wireless communication
		off	Turn off wireless communication
4	Relay	on	Open relay
		off	Turn off the relay
5	Pairing control	on	Enable pairing
		off	Disable pairing
6	Relay working status switch	on	Valid when powered by 12VDC, ON output
		off	NC output, this switch is invalid when powered by battery, fixed to normally open mode when powered by battery

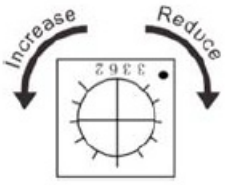
Sensing Distance Control

To adjust the Infrared sensing distance, use the appropriate tool to rotate the middle cross knob(as shown above in Figure D).

- Increase IR sensing distance: Turn the knob counterclockwise.
- Reduce the IR sensing distance: Turn the knob clockwise.

Note: the infrared sensing distance is related to the power supply voltage.

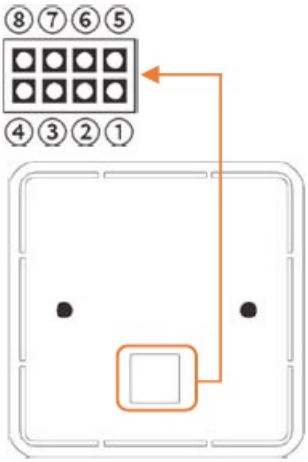
- When the battery power drops, the sensing distance will also decrease causing an unstable power supply. Therefore, the resistance cannot be adjusted to the shortest distance as its sensor may not be triggered normally.
- On the other hand, when the power supply is used, it offers a stable sensing distance. When the sensing distance is adjusted to the shortest distance, the sensor can be triggered consistently at normal conditions.



Wiring Connector

Exit Button: Wiring Connector(Figure C) Instruction

No.	Mark	Color	Description
1	COM	orange	Public port
2	NO	brown	Normally open
3	VIN	red	Power input, 12V DC +
4	GND	black	Grounded/ –
5	N/A	N/A	N/A
6	GND	black	Grounded/ –
7	GND	black	Grounded/ –
8	GND	black	Grounded/ –



Back of Exit Button

Figure © on page 1

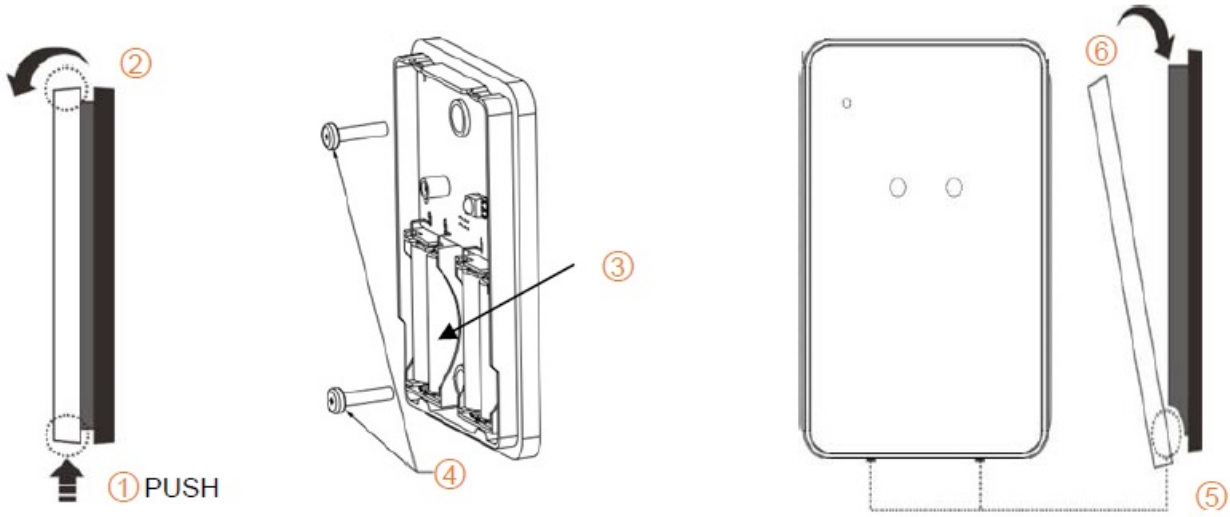
Specification

Exit Button:	
Operating voltage	2 or 4 AAA batteries (3V) / external 12V DC
Standby current	50uA
Operating current	<50mA
2.4G Emission current	<25mA
Battery Powered Life(Ideal)	2 AAA batteries: 6 months (Standby or Induce 200 times/day) 4 AAA batteries: 1 year (Standby or Induce 200 times/day)
Operating temperature(℃	0 ~40
Panel material	Acrylic

Function and state

Module	Function	**State**	Description
Exit Button	Standby	Flashing Blue light	Standby mode
	Induction	Flashing Green light once The buzzer beeps briefly once	Trigger successful

Installation instructions



Exit button

1. **Open the front panel by following these 2 steps:**
   - Hold the exit button in the upright position.
   - Push up the bottom of the front panel cover(as shown above in Figure 1 while pulling out the upper side away from the back panel(as shown above in figure 2).
     Warning: Trying to force open without lifting up the bottom of the front panel cover can damage the teeth(figure 5).
2. **If powered by the batteries:** 2 or 4 AAA batteries need to be added. It contains two sets of battery compartments (as shown above in Figure 3). If only 2 batteries are installed, only one compartment can be used. If the power is supplied directly using wires, plug in the wires provided to the wiring connector(see figure○C on page 1) on the back of the exit button.
3. Fix the back panel body with two screws provided(as shown above in figure 4
4. To cover the front panel, place the bottom of the front panel on the teeth first to snap(as shown above in figure 5), then press the upper part(as shown above in figure 6) of the panel by hand to mount the entire panel.
5. When the power is connected, the exit button enters into the standby mode.

FCC Statement

Any Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

1. This device may not cause harmful interference, and
2. This device must accept any interference received, including interference that may cause undesired operation.

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment.

Note:
This equipment has been tested and found to comply with the limits for a Class B digital device, under part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used under the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

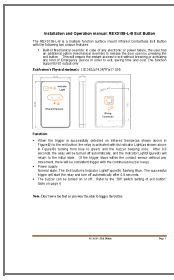
- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and the receiver.
- Connect the equipment to an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

This device complies with Innovation, Science, and Economic Development Canada licence-exempt RSS standard(s).
Operation is subject to the following two conditions:

1. this device may not cause interference, and
2. this device must accept interference, including interference that may cause undesired operation of the device.

The device is compliant with RF exposure guidelines, users can obtain Canadian information on RF exposure and compliance.

Documents / Resources

	SMARFID REX0159-L-B Contactless Exit Button [pdf] Instruction Manual REX0159-L-B, REX0159-L-B Contactless Exit Button, Contactless Exit Button, Exit Button, Button

References

- User Manual