
# Smarfid REX0159-L-S Contactless Exit Button Installation Guide



Contents



## Smarfid REX0159-L-S Contactless Exit Button


**Specifications**:

- Operating voltage: 2 or 4 AAA batteries (3V) / External 12V DC
- Standby current: 50uA
- Operating current: N/A
- 2.4G Emission current: N/A
- Battery Powered Life (Ideal): N/A
- Operating temperature: N/A
- Panel material: N/A

## Product Information

The REX0159-L-S is a multiple function surface mount Infrared Contactless Exit Button with a built-in Mechanical override feature. It allows users to release the door open manually in case of electronic or power failure, ensuring instant access to exit without activating any Emergency Device.

**Function**:
When powered, the Exit button's Indicator Light flashes blue. A successful trigger will activate the relay for 0.8 seconds. The buzzer can be turned on or off using the DIP switch settings.

## Usage Instructions

**Sensing Distance Control**:
To adjust the Infrared sensing distance:

- Rotate the middle cross knob to increase or reduce the IR sensing distance.
- Note: Sensing distance is related to the power supply voltage.

**DIP Switch Settings:**
The DIP switch settings control various functions:

- Switch 2: Buzzer on/off
- Switch 3: Wireless communication on/off
- Switch 4: Relay open/close
- Switch 5: Pairing control enable/disable

- Switch 6: Relay working status switch

**Wiring Connector Instruction**:
The wiring connector has the following connections:

- COM – Public port (orange)
- NO – Normally open (brown)
- VIN – Power input, 12V DC/+ (red)
- GND – Grounded (black)

**FAQ**:

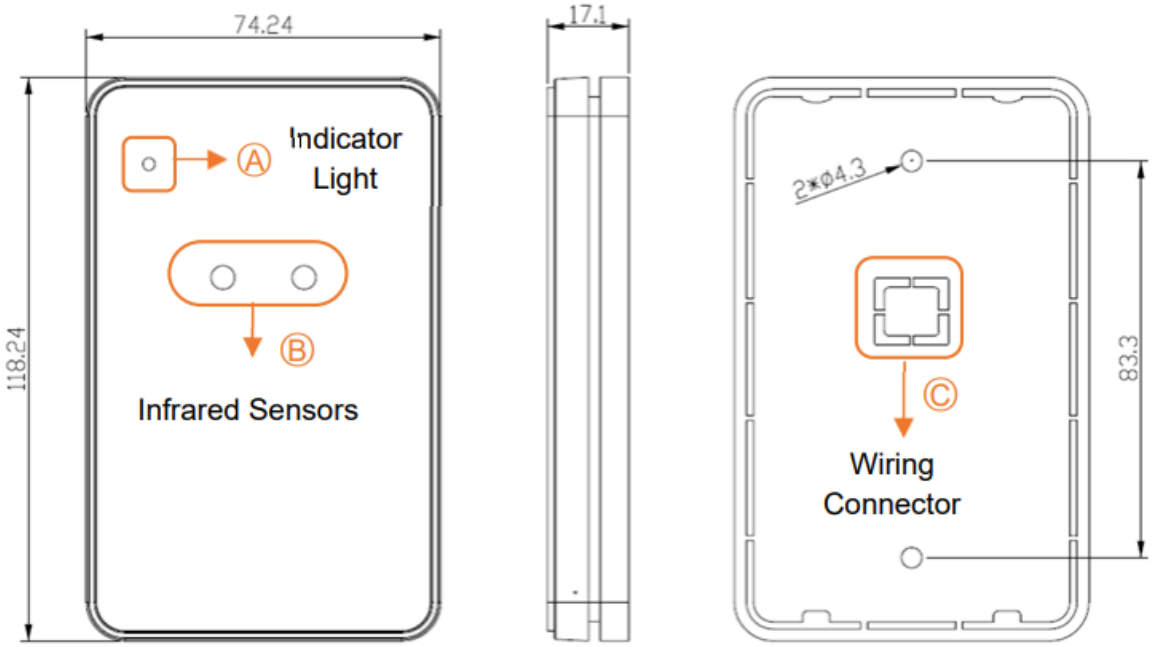
- **Q: What should I do if the exit button's Indicator Light does not flash blue?**
  **A:** Check the power supply connection and ensure the device is receiving power. If the issue persists, refer to the troubleshooting section in the manual or contact customer support for assistance.

Installation and Operation manual: REX0159-L-S Exit Button

The REX0159-L-S 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 hasan additional option (mechanical override) to release the door open by pressing the exit button. This will ensure the instant access to exit without breaking or activating any kind of Emergency Device in order 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

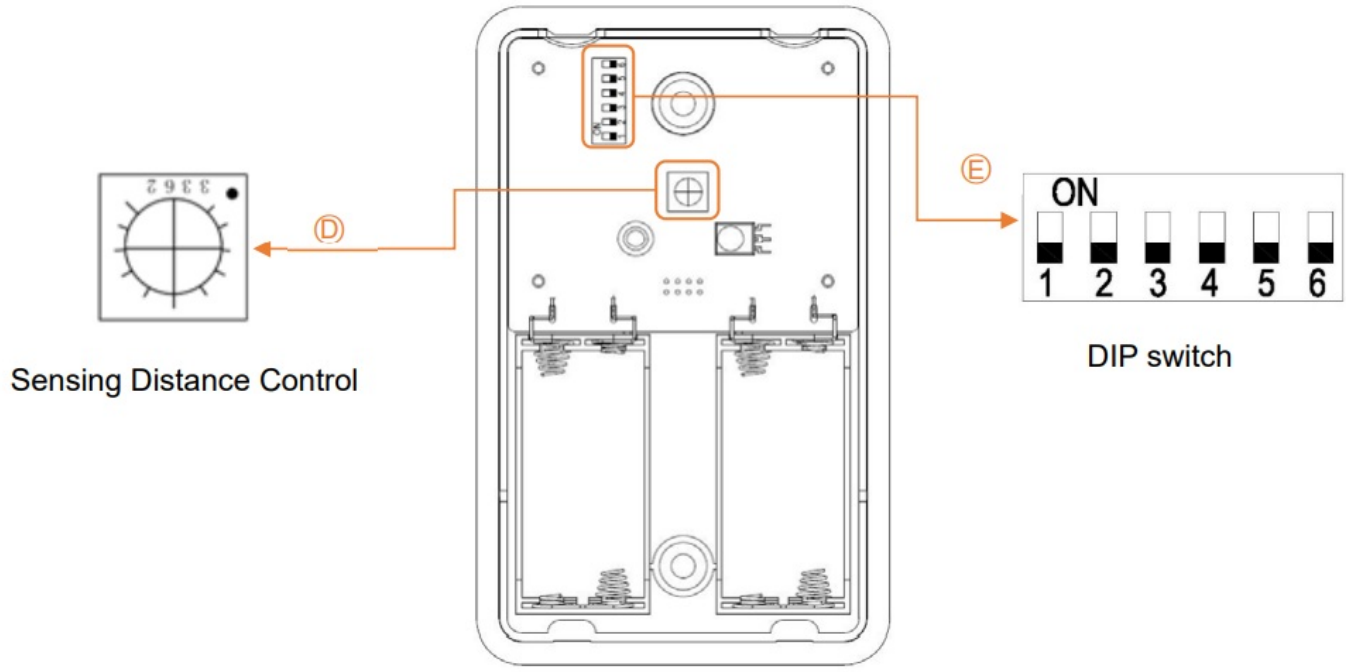
- When the trigger is successfully detected on Infrared Sensor(as shown above in Figure B○) to the exit button,

the relay is activated with its Indicator Light(as shown above in Figure A○) turning from blue to green, and the buzzer beeping 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 consistent trigger with the continuous buzzer beep).

- Power supply
  Normal state: The Exit button's Indicator Light(Figure A○) flashing 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" table on page 4.

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

### Inside View of the Exit Button



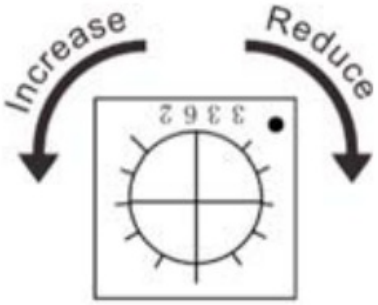

**DIP switch (Figure E○) setting of exit button**

| | | | |
|---|---|---|---|
| 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**

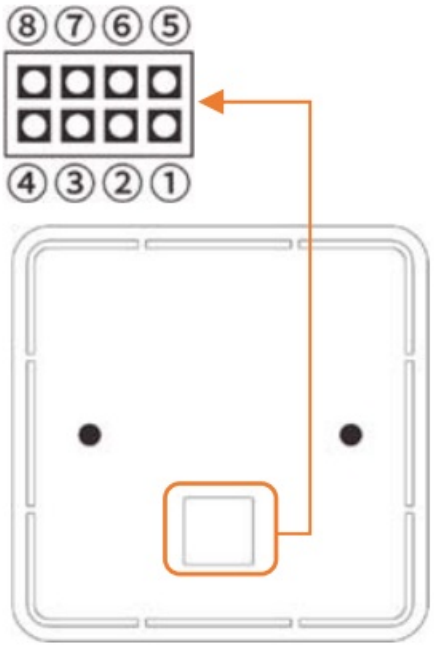
To adjust the Infrared sensing distance, use the appropriate tool to rotate the middle cross knob(as shown above in Figure D).

- 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 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 the stable sensing distance. When the sensing distance is adjusted to the shortest distance, the sensor can be triggered consistantly at normal condition.




**Exit Button**: Wiring Connector(Figure ○C ) Instruction

| No. | Mark | Colour | 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

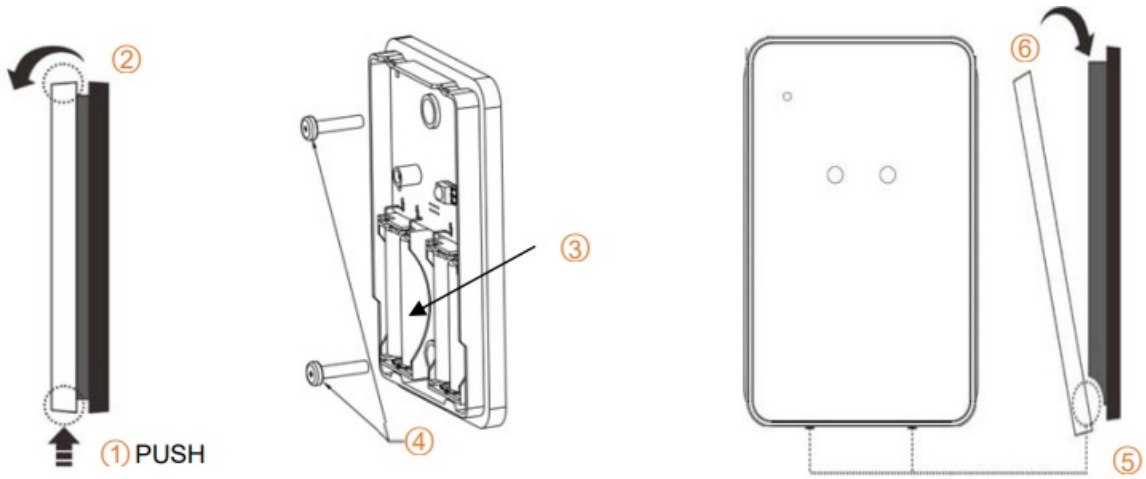
**Specification**

| 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<br>Life(Ideal) | 2 AAA batteries : 6 months (Standby or Induce 200 times/day)<br>4 AAA batteries : 1 year (Standby or Induce 200 times/day) |
| Operating temperature(℃ | 0 ~40 |
| Panel material | Stainless |

**Function and state**

| Module | Function | **State** | Description |
|---|---|---|---|
| Exit Button | Standby | Flashing Blue light | Standby mode |
| | Induction | Flashing Green light once<br>Buzzer beeps briefly once | Trigger successful |

## Installation instructions




**Exit button**

1. Open the front panel by following these 2 steps:
   - Hold the exit button on 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 compartment(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, pursuant to 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 in accordance with 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 receiver.
  - Connect the equipment into 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 Canad 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 compliance with RF exposure guidelines, users can obtain Canadian information on RF exposure and compliance.

## Documents / Resources

| | |
|---|---|
|  | **Smarfid REX0159-L-S Contactless Exit Button** [pdf] Installation Guide<br>REX0159-L-S Contactless Exit Button, REX0159-L-S, Contactless Exit Button, Exit Button, Button |

## References

- **User Manual**