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LBS RBK1-1RR

User Manual

LBS TOUCHLESS INFRARED INDUCTION EXIT BUTTON SWITCH WITH REMOTE CONTROL

Model: RBK1-1RR

1. Introduction

This manual provides detailed instructions for the installation, operation, and maintenance of the LBS Touchless Infrared Induction EXIT Button Switch with Remote Control. Please read this manual thoroughly before installation and use to ensure proper functionality and safety.

2. Product Overview and Features

The LBS Touchless Infrared Induction EXIT Button Switch is designed for access control security systems, offering a hygienic and convenient way to exit. It features touchless operation via infrared induction and includes a remote control for added flexibility.



Figure 2.1: LBS Touchless Exit Button Switch and Remote Control. The image shows the rectangular stainless steel exit button with a central "No Touch" infrared sensor and a separate black remote control with a blue button area and a keychain attachment.

- **Touchless Operation:** Infrared induction for hygienic exit.
- **Remote Control:** Includes a single-channel metal remote, capable of adding up to 16 remotes with a range of 15-30 meters (49-98 feet).
- **Dual LED Indicators:** Blue LED for standby mode, Green LED for active mode.
- **Durable Construction:** Panel made of 304 stainless steel, tested for over 100,000 continuous clicks.
- **Wide Compatibility:** NO/NC/COM contact output, compatible with most electronic equipment, keyboard access control systems, and door phones.

3. Specifications

Parameter	Value
Dimension	115L×70W×26H mm (4.53L×2.76W×1.02H in)
Power Input	DC12V/24V
Output Contact	NO/NC/COM
Mode	Touchless + Remote (Self Reset)
Remote Capacity	Single channel, max 16 remotes

Remote Distance	15-30 meters (49-98 feet)
Panel Material	304 Stainless Steel
Mechanical Life	> 100,000 times (aging test)
Suitable Door Type	Hollow door
Operating Temperature	-20~55°C (14~131 °F)
Suitable Humidity	0%~95% (relative humidity)
Detection Range	50-100mm (1.97-3.94in)
LED Indicator	Blue (Standby), Green (Active)
Weight	0.3 kg (10.58 oz)

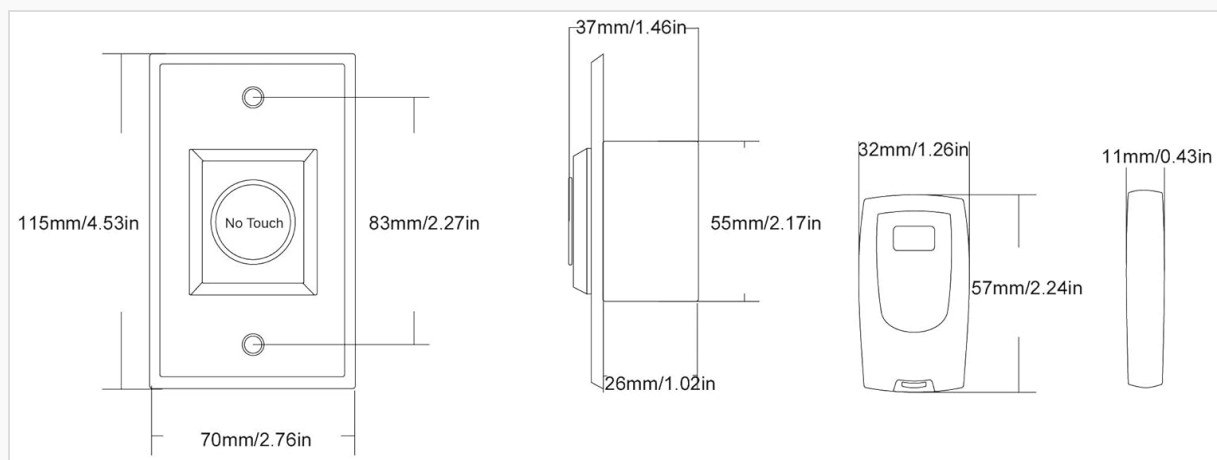


Figure 3.1: Dimensional drawing of the LBS Touchless Exit Button Switch and its remote control. The diagram shows precise measurements in millimeters and inches for both the button panel and the remote.

4. Package Contents

Please check the package contents upon receipt. If any items are missing or damaged, contact your supplier immediately.

- 1 x LBS Touchless Infrared Induction EXIT Button Switch
- 1 x Remote Control

5. Setup and Installation

Proper installation is crucial for the optimal performance and safety of the device. It is recommended that installation be performed by a qualified technician.

5.1 Wiring Diagram



Figure 5.1: Rear view of the LBS Touchless Exit Button Switch showing the wiring terminals. Labels indicate Red: +12V, Black: GND, Green: NO, Yellow: COM, White: NC.

Connect the wires according to the following scheme:

- **Red:** +12V (Power Supply Positive)
- **Black:** GND (Ground)
- **Green:** NO (Normally Open Contact)
- **Yellow:** COM (Common Contact)
- **White:** NC (Normally Closed Contact)

Ensure all connections are secure and insulated to prevent short circuits.

5.2 Mounting the Exit Button

1. Choose a suitable location near the exit point, typically at standard switch height.
2. Mark the drilling points on the wall using the button's mounting holes as a template.
3. Drill holes and insert wall anchors if necessary.
4. Route the necessary wiring from your access control system to the installation point.
5. Connect the wires to the button's terminals as per the wiring diagram (Section 5.1).

6. Secure the exit button to the wall using appropriate screws.

6. Operation

6.1 Touchless Exit Button Operation

1. Ensure the exit button is powered on. The LED indicator will be blue (Standby).
2. To activate the exit function, place your hand or an object within the detection range of 50-100mm (1.97-3.94 inches) from the sensor.
3. The LED indicator will change to green (Active), and the exit contact will momentarily activate, triggering the connected access control device (e.g., unlocking a door).
4. The button will automatically reset after activation.

6.2 Remote Control Operation

1. Press the button on the remote control.
2. The remote will transmit a signal to the exit button, activating the exit function.
3. The remote control has a range of 15-30 meters (49-98 feet) depending on environmental conditions.

6.3 Adding/Deleting Remote Controls

The specific procedure for adding or deleting remote controls may vary slightly depending on the version of the device. Typically, there is a learning button or jumper on the main board of the exit button. Refer to the detailed instructions provided with your access control system or contact technical support for precise steps.

- To add a remote: Press the learning button on the exit button's circuit board (usually a small button or jumper), then press the button on the remote control you wish to add. The LED may flash to confirm.
- To delete all remotes: Hold the learning button for several seconds until the LED indicates successful deletion (e.g., rapid flashing).

A maximum of 16 remotes can be added to a single exit button.

7. Maintenance

- **Cleaning:** Wipe the stainless steel panel with a soft, damp cloth. Avoid abrasive cleaners or solvents that could damage the finish or electronic components.
- **Sensor Area:** Keep the infrared sensor area clean and free from obstructions to ensure accurate detection.
- **Regular Checks:** Periodically check wiring connections for looseness or damage.
- **Environmental Conditions:** Ensure the operating environment remains within the specified temperature and humidity ranges to prolong the device's lifespan.

8. Troubleshooting

Problem	Possible Cause	Solution
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Button not responding to touchless activation.	<ul style="list-style-type: none"> • No power. • Sensor obstructed or dirty. • Detection range issue. • Wiring error. 	<ul style="list-style-type: none"> • Check power supply (DC12V/24V). • Clean the sensor area. • Ensure hand/object is within 50-100mm. • Verify wiring connections (Section 5.1).
Remote control not working.	<ul style="list-style-type: none"> • Remote not paired. • Remote battery low/dead. • Out of range. 	<ul style="list-style-type: none"> • Pair the remote control (Section 6.3). • Replace remote battery (if applicable). • Move closer to the exit button.
LED indicator not lighting up.	<ul style="list-style-type: none"> • No power. • Faulty LED. 	<ul style="list-style-type: none"> • Check power supply and wiring. • Contact technical support if power is confirmed.

If the problem persists after attempting these solutions, please contact technical support.

9. Warranty and Support

LBS products are manufactured to high quality standards. This product comes with a standard manufacturer's warranty against defects in materials and workmanship. For specific warranty terms and conditions, please refer to the warranty card included with your purchase or contact your retailer.

For technical support, troubleshooting assistance, or inquiries regarding parts and service, please contact your point of purchase or visit the official LBS website for contact information.