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› [Lightobject 4CH RF Wireless Remote Control 1527 Tx/Rx Kit \(Model ERF-4A4331527M\) User Manual](#)

## Lightobject ERF-4A4331527M

# Lightobject 4CH RF Wireless Remote Control 1527 Tx/Rx Kit User Manual

Model: ERF-4A4331527M

## 1. INTRODUCTION

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This manual provides essential information for the proper installation, operation, and maintenance of your Lightobject 4CH RF Wireless Remote Control 1527 Tx/Rx Kit. Please read these instructions carefully before using the product to ensure safe and efficient operation. This kit is designed for various remote control applications, offering flexibility with multiple operating modes.

## 2. KEY FEATURES

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- 4-Channel RF Wireless Remote Control System
- Utilizes 1527 Chipset for reliable encoding/decoding
- Supports Quad Operating Modes: Toggle, Momentary, Latched, and Combo
- Auto decode/encode functionality with 1527 chipset
- Individual relay outputs for each channel
- Operating Frequency: 433MHz
- Operating Range: Approximately 100 meters (300 feet) in open air
- Relay Rating: 10A/125VAC, 10A/14VDC

## 3. PRODUCT OVERVIEW

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The Lightobject 4CH RF Wireless Remote Control Kit consists of a receiver board and a remote transmitter. The receiver board features four independent relays and jumper settings for mode selection. The remote transmitter allows for wireless control of these relays.



Figure 1: Lightobject 4CH RF Wireless Remote Control 1527 Tx/Rx Kit (Receiver Board and Remote)

## 4. SETUP

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### 4.1 Power Supply Connection

Connect a DC12V power supply to the receiver board's power input terminals. Ensure correct polarity to prevent damage to the device. The receiver board requires a stable 12V DC power source for optimal performance.

### 4.2 Output Connections

Each of the four relays on the receiver board provides a set of normally open (NO) and common (COM) contacts. Connect your devices (e.g., lamps, motors) to these relay contacts according to your application's requirements. Ensure that the load current does not exceed the relay's maximum rating of 10A/125VAC or 10A/14VDC.

## 5. OPERATING MODES

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The 4CH RF Wireless Remote Control Kit supports three primary operating modes, configurable via jumpers J1 and J2 on the receiver board. These modes determine how the relays respond to button presses on the remote.

### 5.1 Momentary Mode

In Momentary mode, the relay activates only while the corresponding button on the remote is pressed. Releasing the button deactivates the relay.

- **Jumper Setting:** Leave both J1 and J2 open (no caps).

### 5.2 Toggle Mode

In Toggle mode, pressing a button on the remote activates the corresponding relay, and it remains active. Pressing the same button again deactivates the relay.

- **Jumper Setting:** Place a cap on J2 only.

## 5.3 Latched Mode

In Latched mode, pressing a button on the remote activates its corresponding relay, and it remains active. All other relays are simultaneously deactivated. This mode is suitable for applications where only one output should be active at a time.

- **Jumper Setting:** Place a cap on J1 only.

*Note: Ensure the receiver board is powered off before changing jumper settings to prevent potential damage or unexpected behavior.*

## 6. SPECIFICATIONS

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Feature	Specification
Model	ERF-4A4331527M
Channels	4
Chipset	1527
Frequency	433MHz
Range	~100M (300ft)
Power Supply (Receiver)	DC12V
Relay Rating	10A/125VAC, 10A/14VDC
Receiver Board Size	8cm x 10cm x 3cm
Remote Size	5.5cm x 7.5cm x 3cm
Item Weight	0.01 ounces

## 7. TROUBLESHOOTING

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- **No Response from Receiver:**

- Check if the DC12V power supply is correctly connected and providing power to the receiver board.
- Ensure the remote control has functional batteries.
- Verify that the remote and receiver are within the specified operating range and there are no significant RF obstructions.

- **Incorrect Relay Behavior:**

- Review the jumper settings (J1, J2) on the receiver board to ensure they match the desired operating mode (Momentary, Toggle, Latched). Power off the board before adjusting jumpers.
- Confirm that the load connected to the relay outputs is within the specified current and voltage ratings.

- **Reduced Range:**

- Ensure the receiver's antenna (if external) is properly connected and positioned for optimal reception.
- Minimize interference from other 433MHz devices or large metal objects.

## 8. MAINTENANCE

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The Lightobject 4CH RF Wireless Remote Control Kit is designed for low maintenance. Follow these guidelines to ensure its longevity:

- Keep the receiver board and remote control clean and free from dust and moisture. Use a soft, dry cloth for cleaning.
- Avoid exposing the devices to extreme temperatures or direct sunlight.
- Regularly check the power supply connections for any signs of wear or corrosion.
- Replace remote control batteries as needed to ensure consistent performance.

## 9. WARRANTY AND SUPPORT

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For warranty information or technical support regarding your Lightobject 4CH RF Wireless Remote Control 1527 Tx/Rx Kit, please refer to the documentation provided at the time of purchase or contact Lightobject customer service directly. Please have your model number (ERF-4A4331527M) and purchase details ready when contacting support.