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› LoraTap Wireless Shutter Control Booster Kit User Manual

## LoraTap SC511SC

# LoraTap Wireless Shutter Control Booster Kit User Manual

Model: SC511SC

## INTRODUCTION

This user manual provides detailed instructions for the installation, operation, and maintenance of your LoraTap Wireless Shutter Control Booster Kit. Please read this manual thoroughly before installation and use to ensure proper function and safety.

The LoraTap Wireless Shutter Control Booster Kit is designed to provide convenient radio control for roller blinds, blinds, and awnings. It includes a receiver module and an RF remote control, enabling easy wireless operation.



Figure 1: LoraTap Wireless Shutter Control Booster Kit, showing the compact receiver module and the sleek remote control.

## IMPORTANT SAFETY INFORMATION

Read all safety warnings and instructions before installing or operating this product. Failure to follow these instructions may result in electric shock, fire, or serious injury.

- Always turn off the power supply before performing any wiring, servicing, or removing the receiver.
- Installation should only be performed by a licensed electrician in accordance with all national and local electrical codes.
- This product is designed for indoor use only.
- Do not immerse the product in any liquid or expose it to excessive moisture.

<p><b>Important Safety Information</b> [EN] <b>Read manual before product use.</b></p> <p>1. RISK OF ELECTRIC SHOCK OR FIRE. Improper use or installation can cause SERIOUS INJURY, DEATH OR LOSS/DAMAGE OF PROPERTY. TURN OFF power supply before installing, servicing, or removing the receiver. Use a non-contact voltage tester to ensure the power is off. The receiver must be installed by a licensed electrician in accordance with all national and local electrical codes. If you are unsure about any part of these instructions, consult a qualified electrician.</p> <p>2. For indoor use only. For permanently installed fixtures only.</p> <p>3. Do not immerse product in any liquid or expose to heat or moisture.</p>	<p><b>Wichtige Sicherheitsinformationen</b> [DE] <b>Bevor Sie das Produkt verwenden, lesen Sie das Handbuch.</b></p> <p>1. GEFAHR VON ELEKTRISCHER ERSCHÜTTERUNG ODER FEUER. FALSCHER Verwendung oder Installation kann schwerwiegende VERLETZUNGEN, TOD oder VERLUST/SCHÄDEN AN EIGENTUM verursachen. SCHALTEN Sie den Stromversorgung aus, bevor Sie den Empfänger installieren, warten oder entfernen. Verwenden Sie einen nicht-kontaktvollen Spannungsmesser, um sicherzustellen, dass der Strom aus ist. Der Empfänger muss von einem lizenzierten Elektriker gemäß allen nationalen und lokalen Elektrizitätscodes installiert werden. Wenn Sie sich über einen Teil dieser Anweisungen unsicher sind, wenden Sie sich an einen qualifizierten Elektriker.</p> <p>2. Nur für den Innengebrauch. Nur für dauerhaft installierte Leuchten.</p> <p>3. Tauchen Sie das Produkt nicht in Flüssigkeiten ein oder exponieren Sie es Hitze oder Feuchtigkeit.</p>
<p><b>Informations importantes sur la sécurité</b> [FR] <b>Lisez le manuel avant d'utiliser le produit.</b></p> <p>1. RISQUE DE CHOC ÉLECTRIQUE OU D'INCENDIE. Une utilisation ou une installation incorrecte peut causer des BLESSURES GRAVE, LA MORT ou des DOMMAGES à la PROPRIÉTÉ. COUPER le courant avant d'installer, de réparer ou de retirer le récepteur. Utilisez un testeur de tension sans contact pour vous assurer que l'alimentation est coupée. Le récepteur doit être installé par un électricien agréé conformément à tous les codes électriques nationaux et locaux. Si vous n'êtes pas sûr de certaines parties de ces instructions, consultez un électricien qualifié.</p> <p>2. À usage intérieur uniquement. Pour installations fixes uniquement.</p> <p>3. Ne pas immerger le produit dans un liquide ni l'exposer à la chaleur ou à l'humidité.</p>	<p><b>Informazioni importanti sulla sicurezza</b> [IT] <b>Leggere il manuale prima dell'uso del prodotto.</b></p> <p>1. RISCHIO DI SCIOCCO ELETTRICO O INCENDIO. L'uso o l'installazione scorretta può causare FERITE GRAVE, MORTE o PERDITA/DANNO AL BENI. SPENGERE l'alimentazione prima di installare, mantenere o rimuovere il ricevitore. Usare un rilevatore di tensione a contatto remoto per assicurarsi che l'alimentazione sia spenta. Il ricevitore deve essere installato da un elettricista qualificato in conformità con tutti i codici elettronici nazionali e locali. Se non sei sicuro riguardo una parte di queste istruzioni, consulta un elettricista qualificato.</p> <p>2. Da utilizzare solo all'interno. Solo per impianti permanenti.</p> <p>3. Non immergere il prodotto in alcun liquido o esporlo a calore o umidità.</p>
<p><b>Información importante de seguridad</b> [ES] <b>Lea el manual antes de usar el producto.</b></p> <p>1. RIESGO DE CHOQUE ELÉCTRICO O INCENDIO. El uso o la instalación incorrecta puede causar LESIONES GRAVE, MUERTE o PÉRDIDA/DAÑO DE PROPIEDAD. APAGUER el suministro de energía antes de instalar, mantener o retirar el receptor. Use un detector de voltaje sin contacto para asegurarse de que el suministro de energía esté apagado. El receptor debe ser instalado por un electricista autorizado de acuerdo con todos los códigos eléctricos nacionales y locales. Si no está seguro de alguna parte de estas instrucciones, consulte a un electricista calificado.</p> <p>2. Sólo para uso interior. Sólo para accesorios instalados de forma permanente.</p> <p>3. No sumerja el producto en ningún líquido ni expóngalo al calor o la humedad.</p>	<p><b>Viktiga säkerhetsinformation</b> [SE] <b>Läs manualen innan du använder produktet.</b></p> <p>1. RISIKO FÖR ELEKTRISK STÖT OCH BRAND. FELaktigt användning eller installation kan orsaka SÄRSKAPADE SKADOR, DÖD eller FÖRLUST/SKADOR på EGENDOM. STÄNG AV strömförsörjningen innan du monterar, underhåller eller tar bort mottagaren. Använd en icke-kontakt voltagetester för att säkerställa att strömmen är avstängd. Mottagaren måste installeras av en certifierad elektriker i enlighet med alla nationella och lokala elstandarder. Om du är osäker på någon del av dessa instruktioner, konsultera en kvalificerad elektriker.</p> <p>2. Endast för inre bruk. Endast för permanent installerade fittingar.</p> <p>3. Do inte dyka produkten i någon vätska eller exponera den för värme eller fukt.</p>
<p><b>Belangrijke veiligheidsinformatie</b> [NL] <b>Lees de handleiding voordat u het product gebruikt.</b></p> <p>1. RISICO OP ELEKTRISCHE SCHOK OF BRAND. ONJUIST gebruik of installeren kan ZWAARGEWONDE, DOOD of VERLIES/SCHADE aan EIGENDOM veroorzaken. SCHAKEL de stroomvoorziening UIT voordat u de ontvanger installeert, onderhoudt of verwijdt. Gebruik een niet-contact voltagemeter om te controleren of de stroom is uit. De ontvanger moet worden geïnstalleerd door een gecertificeerde elektricien overeenkomstig alle nationale en lokale elektriciteitscodes. Als u onzeker bent over een deel van deze instructies, neem dan contact op met een gekwalificeerde elektricien.</p> <p>2. Alleen voor binnengebruik. Alleen voor vastgelegde beugels.</p> <p>3. Dik het product niet in enige vloeistof onderdompelen of blootstellen aan hitte of vochtigheid.</p>	<p><b>Ważne informacje o bezpieczeństwie</b> [PL] <b>Przeczytaj instrukcję przed użyciem produktu.</b></p> <p>1. RYZYKO WYSTRZAŁU ELEKTRYCZNEGO LUB POŻARU. NIEPRAWIDŁOWE korzystanie lub montaż może spowodować CIĘŻKIE UŻYCIA, ŚMIERĆ lub STRACĘ/USZKODZENIE Majątku. WYŁĄCZ zasilanie przed montażem, konserwacją lub usunięciem odbiornika. Użyj testera napięcia niekontaktowego, aby upewnić się, że zasilanie jest wyłączone. Odbiornik musi być zainstalowany przez uprawnionego elektryka zgodnie z wszystkimi krajowymi i lokalnymi przepisami elektrycznymi. Jeśli nie jesteś pewien co do któregośkolwiek z tych instrukcji, skonsultuj się z kwalifikowanym elektrykiem.</p> <p>2. Do użytku wewnętrznego wyłącznie. Do stałych zainstalowanych elementów oświetleniowych wyłącznie.</p> <p>3. Nie zanikaj produktu w żadnej cieczy ani nie ekspozuj go na ciepło lub wilgotno.</p>

Figure 2: Excerpt from product packaging highlighting important safety information in multiple languages. Always ensure power is disconnected before installation.

## PRODUCT SPECIFICATIONS

Feature	Specification
Model Number	SC511SC
Compatible Motor	4-wire motor (2 output cables, 1 neutral cable, 1 earth cable)
Input Voltage	100-250V AC, 50/60Hz
Charging Capacity	≤300W
Radio Frequency	868MHz

Standby Power Consumption	≤0.5W
Operating Temperature	-30°C to +70°C
Receiver Dimensions (L x W x H)	48mm x 47mm x 22mm
Remote Control Battery	CR2032 (included)
Control Method	Remote Control (RF)
IP Rating	IP69

*Note: This product is not a Wi-Fi device and is not compatible with smart home systems like Alexa Echo or Google Home.*



Figure 3: Detailed dimensions of the receiver module and remote control, indicating their compact size for easy integration.

## PACKAGE CONTENTS

Verify that all items are present in the package:

- 1 x Receiver Module (Relay)
- 1 x Transmitter (Remote Control)
- 1 x User Manual (English)
- 1 x Built-in Battery (CR2032) for remote control
- Accessories for assembly (e.g., screws, wall bracket)

## SETUP AND INSTALLATION

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Follow these steps for proper installation of the LoraTap Wireless Shutter Control Booster Kit. Ensure power is disconnected before beginning any wiring.

### 1. Wiring Diagram

The receiver module requires connection to your motor, power supply, and existing switch (if applicable). Refer to the wiring diagram below for correct connections.

# Wiring Diagram

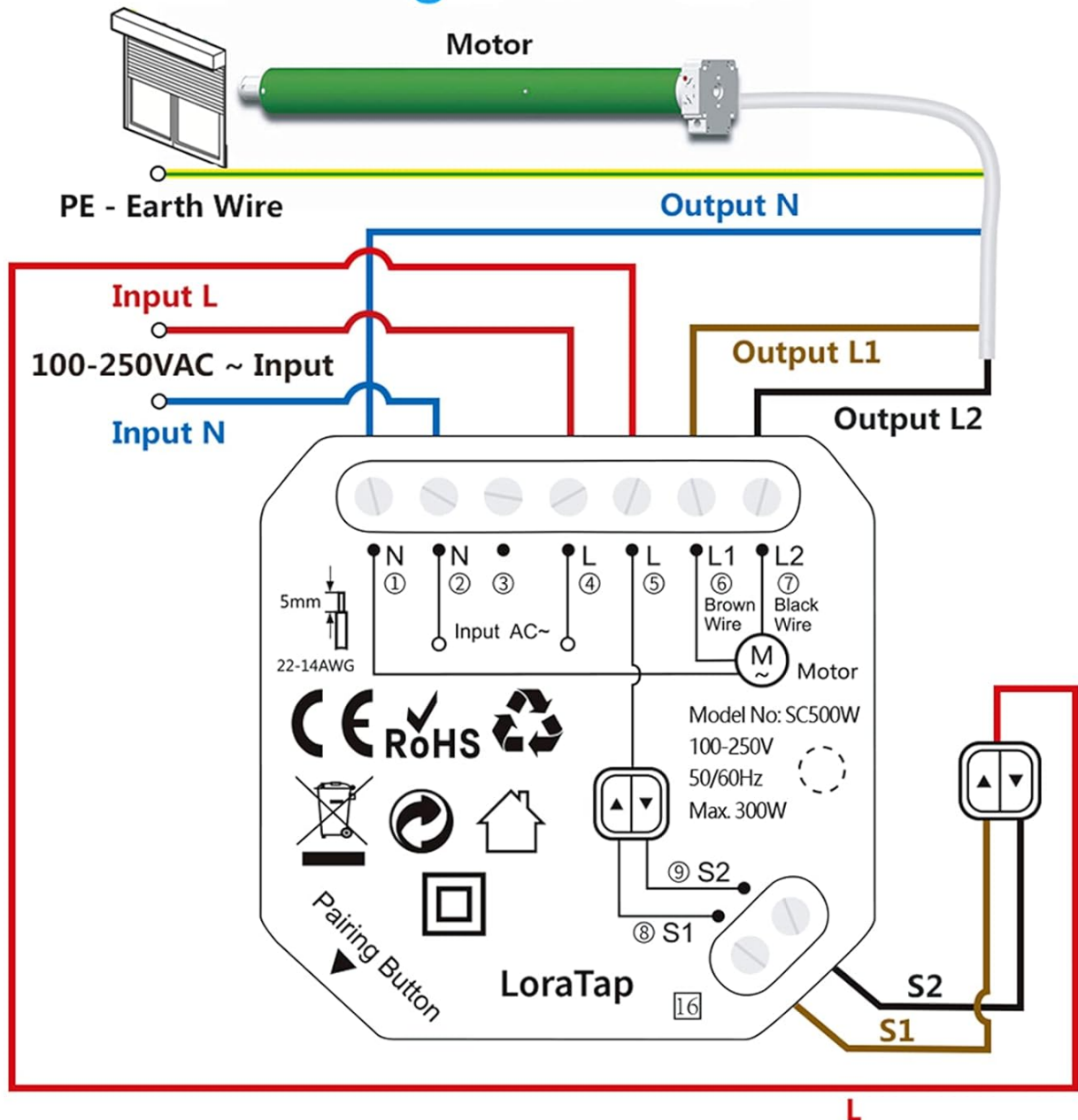


Figure 4: Detailed wiring diagram showing connections for the LoraTap receiver module to the motor, input power (L, N), and optional external switch (S1, S2).

- Connect the Input L and Input N terminals of the receiver to your 100-250V AC power supply.
- Connect the Output N terminal to the neutral wire of your motor.
- Connect Output L1 and Output L2 to the respective control wires of your 4-wire motor (e.g., for Up/Down or Open/Close).
- Connect the Earth Wire (PE) from your motor to the system's earth ground.
- Optional: Connect an external switch to S1 and S2 terminals for manual control.

## 2. Receiver Placement

The compact receiver module (48mm x 47mm x 22mm) is designed to fit into standard flush mount boxes. Ensure sufficient space before installation.



Figure 5: Example installation showing the LoraTap receiver module discreetly placed within a wall box, connected to an existing wall switch.

### 3. Remote Control Pairing (Pre-paired)

The remote control is typically pre-paired with the receiver module from the factory. If re-pairing is necessary, or if you wish to pair additional remotes, refer to the pairing instructions provided in the original user manual or contact support.

## OPERATING INSTRUCTIONS

Once installed and powered, the LoraTap Wireless Shutter Control Booster Kit offers simple operation via the remote control or an optional wired switch.

### 1. Remote Control Operation

The remote control features three buttons:

- **Up/Open Button (▲):** Press to open or raise the blinds/awning.

- **Stop Button (■):** Press to stop the movement of the blinds/awning at any desired position.
- **Down/Close Button (▼):** Press to close or lower the blinds/awning.

The remote control has a strong signal that can pass through walls, windows, and ceilings, with an indoor control range of up to 30 meters.



Figure 6: Illustration demonstrating the effective remote control range of up to 30 meters indoors, capable of transmitting signals through common building materials.

The remote control can be placed anywhere convenient or stored in the included wall bracket.

## 2. Wired Switch Operation (Optional)

If an external wired switch is connected to the S1 and S2 terminals, you can also control the blinds/awning manually. A short press on the switch will initiate movement, and another short press will stop it.

## 3. Multiple Device Control

You can use up to 20 LoraTap roller shutter control sets in the same area without interference, thanks to the 868 MHz

radio frequency and self-learning program.



Figure 7: Examples of where the LoraTap Shutter Control Kit can be used, including office, kitchen, bedroom, and outdoor awnings.

## MAINTENANCE

The LoraTap Wireless Shutter Control Booster Kit requires minimal maintenance.

- **Cleaning:** Wipe the receiver module and remote control with a soft, dry cloth. Do not use abrasive cleaners or solvents.
- **Battery Replacement:** The remote control uses a CR2032 battery. If the remote's range decreases or it becomes unresponsive, replace the battery. To replace, carefully open the remote control casing and insert a new CR2032 battery, observing polarity.
- **Environmental Conditions:** Ensure the receiver module is not exposed to extreme temperatures or moisture beyond its specified operating range (-30°C to +70°C).

## TROUBLESHOOTING

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If you encounter issues with your LoraTap Wireless Shutter Control Booster Kit, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Motor does not respond to remote control.	No power to receiver; Remote control battery low/dead; Remote not paired; Wiring issue.	Check power supply to receiver. Replace remote control battery. Re-pair remote control if necessary. Verify all wiring connections are secure and correct.
Motor moves in wrong direction.	Output L1 and L2 wires are reversed.	Turn off power. Reverse the connections for Output L1 and Output L2 at the receiver.
Remote control range is poor.	Low remote control battery; Excessive interference; Obstructions.	Replace remote control battery. Ensure receiver is not installed near large metal objects or strong electromagnetic sources.
Motor stops unexpectedly.	Overload protection activated; Intermittent power supply.	Check motor for obstructions or excessive load. Verify stable power supply to the receiver.

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

## WARRANTY AND SUPPORT

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LoraTap products are designed for reliability and performance. For warranty information and customer support, please refer to the documentation included with your purchase or visit the official LoraTap website.

For technical assistance or inquiries, please contact LoraTap customer service. When contacting support, please have your product model number (SC511SC) and purchase details ready.