

Thinkbee SW smart 2 button set

Thinkbee Wireless Switch Kit User Manual

Model: SW smart 2 button set

1. INTRODUCTION

The Thinkbee Wireless Switch Kit provides a convenient and flexible solution for controlling your lighting without the need for complex wiring. This kit includes a wireless switch panel and one or more receivers, allowing you to easily manage your lights from various locations. Its robust design, including IP66 waterproofing, makes it suitable for both indoor and outdoor applications.

This manual provides detailed instructions for the installation, operation, and maintenance of your Thinkbee Wireless Switch Kit.

2. SAFETY INFORMATION

- Always disconnect power at the circuit breaker before installing or servicing the receiver.
- Installation should be performed by a qualified electrician if you are unsure about electrical wiring.
- Ensure the receiver is installed in a location protected from direct water exposure, even though the switch panel is IP66 rated.
- Do not exceed the maximum load capacity of 1000W for the receiver.
- Keep the product out of reach of children.
- Operating temperature range: -25°C to 70°C.

3. PRODUCT OVERVIEW

The Thinkbee Wireless Switch Kit consists of two main components: the wireless switch panel and the wireless receiver.

3.1 Components

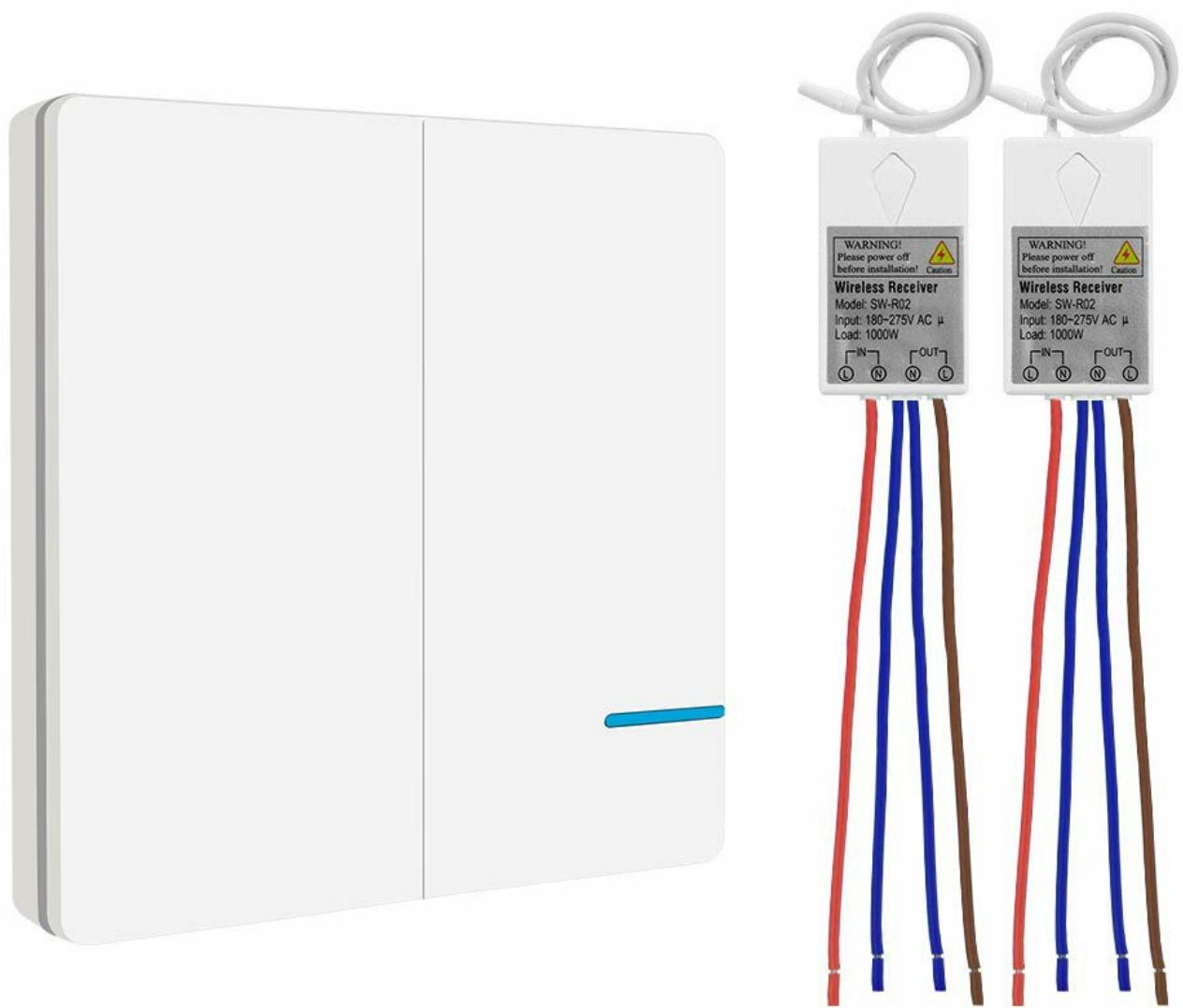


Figure 3.1: Thinkbee Wireless Switch Kit showing the two-button switch panel and two wireless receivers.

- **Wireless Switch Panel:** A battery-powered, wall-mountable switch that sends wireless signals to the receiver. It features a two-button design for controlling multiple circuits or for two-way control.
- **Wireless Receiver:** A compact device that connects to your light fixture or appliance and receives signals from the wireless switch to turn the power on or off.

3.2 Dimensions and Connections

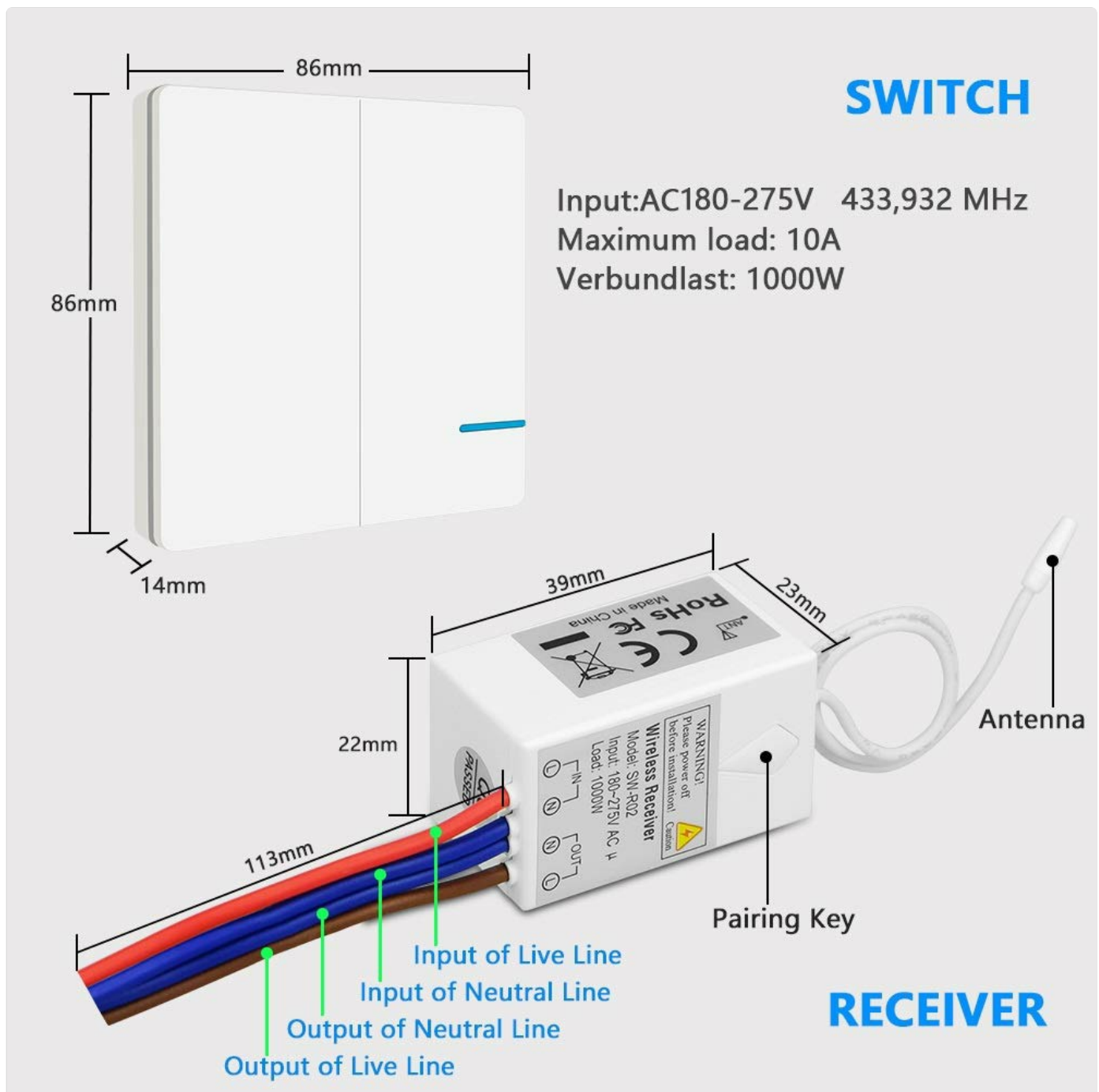


Figure 3.2: Detailed dimensions of the wireless switch (86x86x14mm) and receiver (39x22x23mm), along with the wiring connections for the receiver (Input Live Line, Input Neutral Line, Output Neutral Line, Output Live Line).

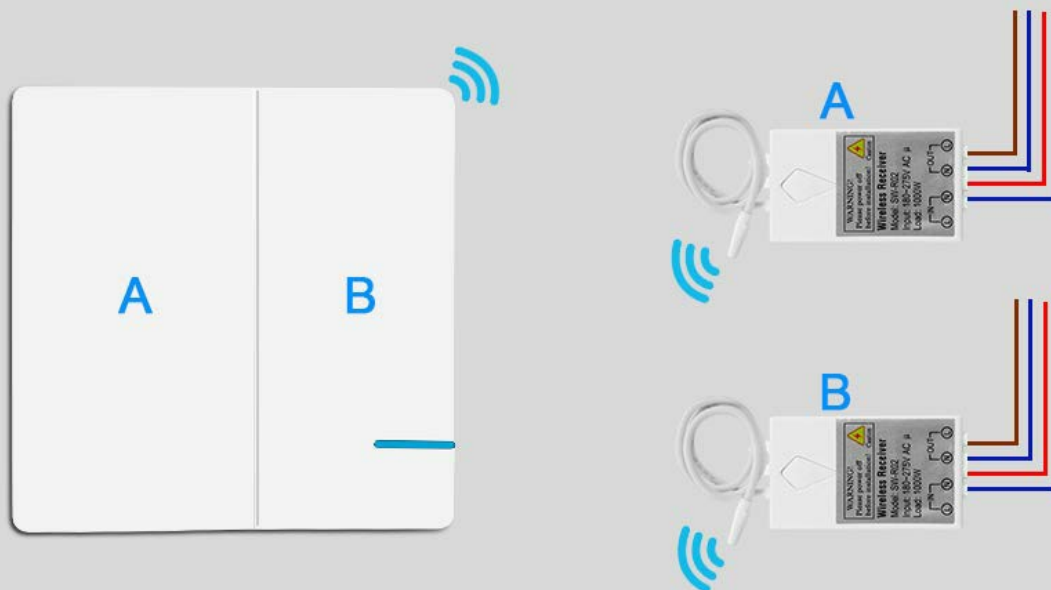
The wireless switch panel measures 86mm x 86mm x 14mm, designed for easy surface mounting. The compact receiver measures 39mm x 22mm x 23mm, allowing it to fit into standard electrical boxes or canopies. The receiver has clearly labeled input and output terminals for live and neutral lines.

3.3 Signal Transmission

One 2-button wireless switch controls two lamps

Wide signal transmission range

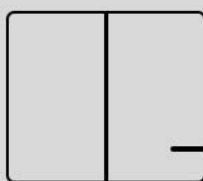
Indoor 50m Outdoor 600m



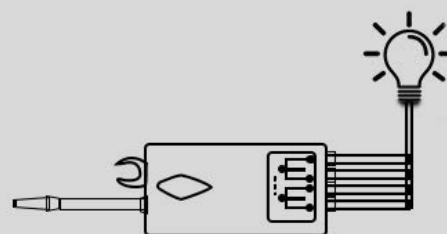
Pairing Method



Press 2 seconds until
the indicate lights



Click on the wireless
switch you want to pair



When the light on means
pairing successful

Figure 3.3: Illustration of the wireless signal passing through walls, demonstrating an indoor transmission distance of 50m and an outdoor distance of 600m.

The Thinkbee Wireless Switch utilizes a strong radio frequency signal (433.932 MHz) that can penetrate walls, providing an effective indoor control range of up to 50 meters and an outdoor range of up to 600 meters. This allows for flexible placement of the switch panel anywhere you need it.

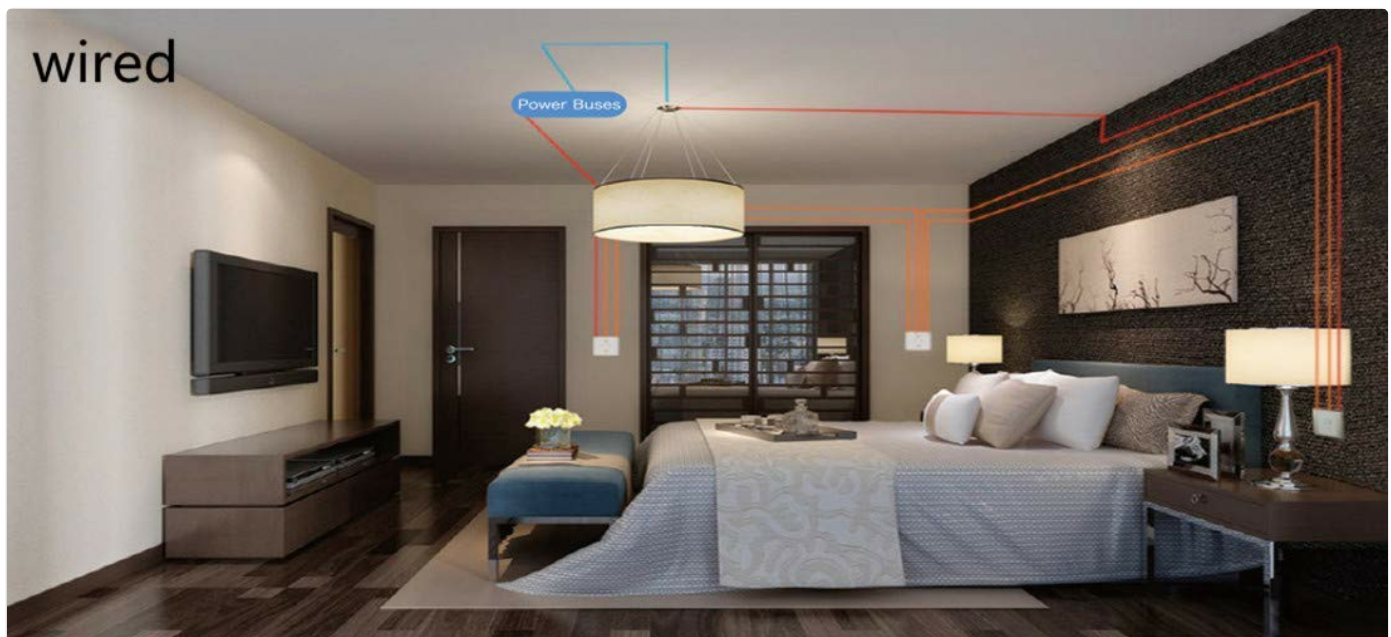
4. SETUP AND INSTALLATION

The Thinkbee Wireless Switch Kit is designed for easy installation without the need for new wiring for the switch panel itself. The receiver integrates into your existing electrical circuit.

4.1 Receiver Installation

1. **Disconnect Power:** Before starting, turn off the power to the circuit at the main circuit breaker to prevent electric shock. Verify power is off using a voltage tester.

2. **Identify Wires:** At your light fixture or appliance, identify the Live (L) and Neutral (N) wires from the power supply and the Live (L) and Neutral (N) wires leading to the light/appliance.
3. **Connect Receiver Input:** Connect the Live (L) and Neutral (N) wires from your power supply to the "Input" terminals on the receiver.
4. **Connect Receiver Output:** Connect the Live (L) and Neutral (N) wires leading to your light fixture/appliance to the "Output" terminals on the receiver.
5. **Secure Receiver:** Place the receiver securely within the electrical box or canopy, ensuring no wires are pinched.
6. **Restore Power:** Once all connections are secure and the receiver is safely housed, restore power at the circuit breaker.



traditional wired switch VS new wireless switch

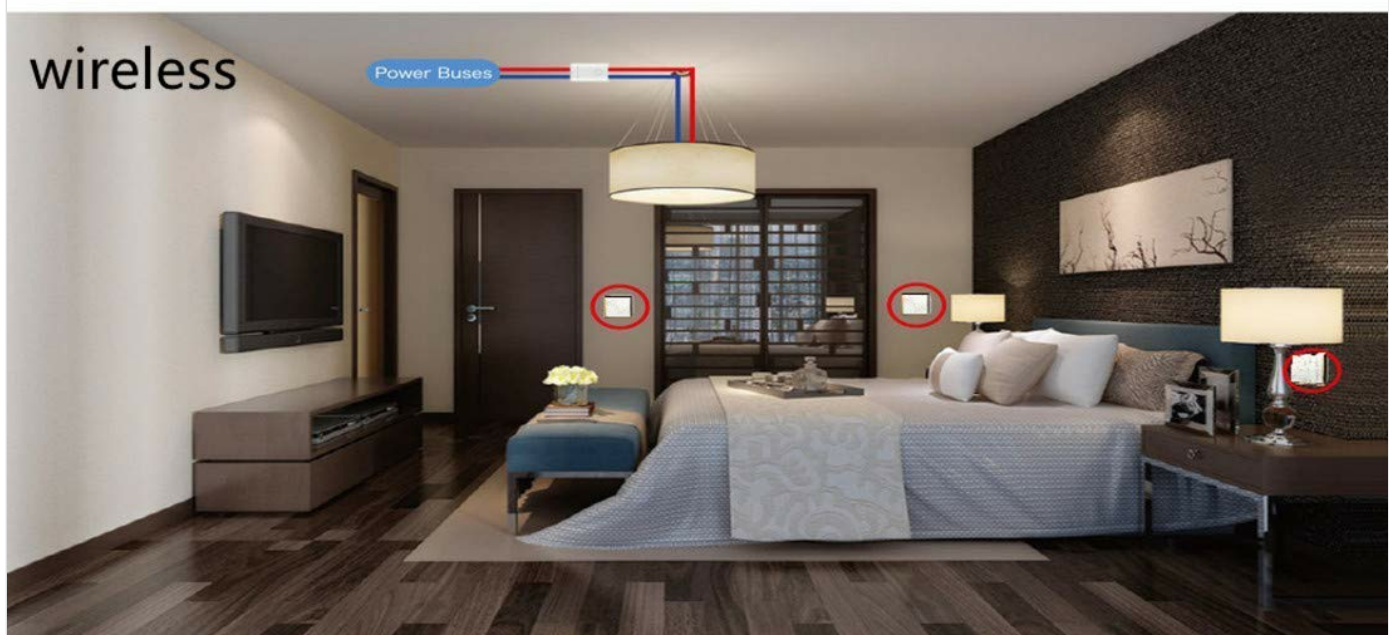


Figure 4.1: Visual comparison illustrating the simplicity of wireless switch installation compared to traditional wired setups, highlighting the elimination of new wall wiring.

4.2 Switch Panel Placement

The wireless switch panel can be placed anywhere convenient. It can be mounted on any smooth surface using adhesive

pads (included) or screws, or simply placed on a table or nightstand.

5. OPERATING INSTRUCTIONS

Once the receiver is installed and paired with the switch panel, operating your lights is straightforward.

- Press the desired button on the wireless switch panel to toggle the connected light or appliance ON or OFF.
- If you have a two-button switch, each button (A and B) can control a separate receiver or be paired to the same receiver for two-way control.

6. PAIRING METHOD

The switch panel and receiver must be paired for them to communicate. Follow these steps to pair your devices:

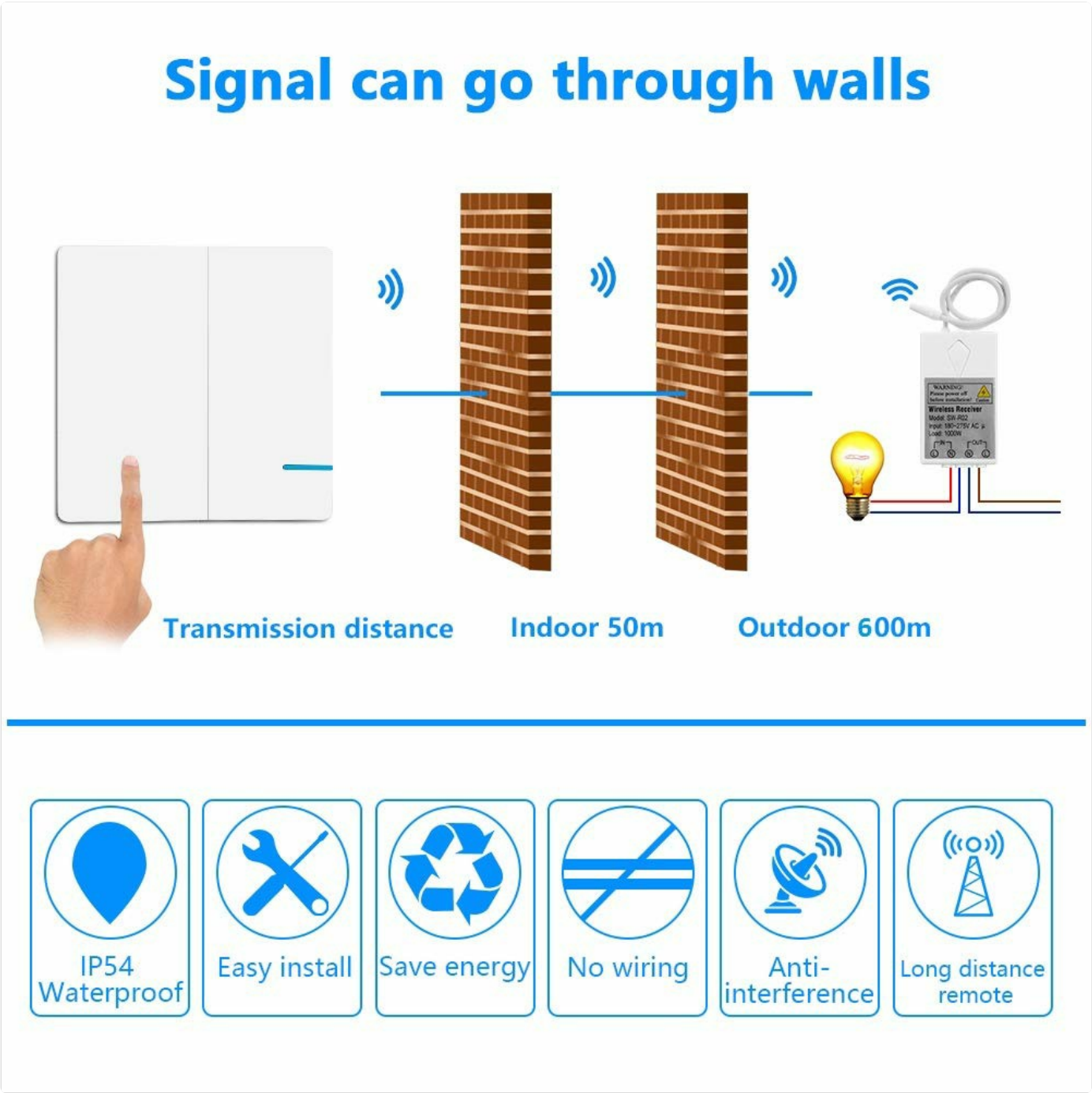


Figure 6.1: Step-by-step visual guide for pairing the wireless switch with the receiver: Press the receiver button for 2 seconds until the indicator light blinks, then click the desired switch button, and successful pairing is indicated when the light turns on.

1. **Prepare Receiver:** Locate the small pairing button on the receiver. Press and hold this button for approximately 2 seconds until the indicator light on the receiver begins to blink. This indicates it is in pairing mode.
2. **Activate Switch:** Within 10 seconds of the receiver's light blinking, press the button on the wireless switch panel that you wish to pair.
3. **Confirm Pairing:** The light connected to the receiver should turn ON, indicating successful pairing. If it does not, repeat the steps.
4. **Pairing Multiple Switches (Two-Way Control):** To pair additional switch panels to the same receiver (e.g., for a 2-way switch setup), press and hold an already paired switch button for 20 seconds until its blue LED blinks. Then, briefly press the new switch button you wish to pair.
5. **Pairing Multiple Receivers:** One wireless switch can control an unlimited number of receivers within range. Repeat the pairing process for each receiver you wish to control with the same switch button.
6. **Pairing Multiple Switches to One Receiver:** A single receiver can be paired with up to 8 different wireless switch panels.

7. MAINTENANCE

7.1 Cleaning

Clean the wireless switch panel with a soft, dry cloth. Do not use abrasive cleaners or solvents. The switch panel is IP66 waterproof, meaning it is protected against powerful water jets, making it suitable for damp environments like bathrooms or outdoor covered areas. However, avoid submerging it.



Figure 7.1: The IP66 waterproof rating ensures safety and durability, even in environments with water exposure, such as a shower.

7.2 Battery Replacement (Wireless Switch Panel)

The wireless switch panel is powered by a CR2032 button cell lithium battery, which has a lifespan of approximately 6-8 years. When the switch responsiveness decreases or the indicator light no longer illuminates, it may be time to replace the battery.

1. Carefully open the back cover of the wireless switch panel.
2. Remove the old CR2032 battery.
3. Insert a new CR2032 battery with the positive (+) side facing up.
4. Close the back cover securely.

8. TROUBLESHOOTING

Problem	Possible Cause	Solution
Light does not turn ON/OFF.	No power to receiver. Receiver not paired with switch. Switch battery is low or dead. Receiver overloaded. Distance too far or too many obstacles.	Check circuit breaker and wiring connections to the receiver. Perform the pairing process (Section 6). Replace the CR2032 battery in the switch panel. Ensure total wattage of connected lights does not exceed 1000W. Move switch closer to receiver or reduce obstacles.
Intermittent operation.	Weak signal due to distance or interference. Low battery in switch.	Relocate switch or receiver to improve signal path. Replace the CR2032 battery.
Switch button unresponsive.	Battery dead. Physical damage to switch.	Replace the CR2032 battery. Contact customer support if physically damaged.

9. SPECIFICATIONS

Feature	Detail
Brand	Thinkbee
Model Number	SW smart 2 button set
Operating Mode	ON-OFF
Switch Type	Push Button
Material	Polycarbonate (Switch), Plastic (Contact Material)
International Protection (IP) Rating	IP66 (Switch Panel)
Controller Type	Wireless
Color	White
Receiver Voltage Range	AC 80-275 V
Receiver Max Load (Resistive)	1000 W (LED compatible)
Operating Frequency	433.932 MHz
Switch Lifespan	> 600,000 clicks
Receiver Lifespan	> 400,000 times
Switch Battery Type	CR2032 (included)

Feature	Detail
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Switch Battery Lifespan	6-8 years
Control Distance (Indoor)	30-100 m (typical 50m)
Control Distance (Outdoor)	300-500 m (typical 600m)
Operating Temperature	-25°C to 70°C

10. WARRANTY AND SUPPORT

Thinkbee wireless switches purchased from authorized retailers come with a 12-month warranty. This warranty covers defects in materials and workmanship under normal use.

For technical support, troubleshooting assistance, or warranty claims, please contact your retailer or Thinkbee customer service. Please have your model number and purchase date available when contacting support.

Note: The warranty does not cover damage caused by improper installation, misuse, unauthorized modifications, or natural disasters.

