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Blindsmart BSDJ-ZM16EL-zigbee

Blindsmart Zigbee Rechargeable Roller Shade Motor User Manual

Model: BSDJ-ZM16EL-zigbee
Brand: Blindsmart

1. Introduction

This user manual provides comprehensive instructions for the installation, operation, and maintenance of your Blindsmart Zigbee Rechargeable Roller Shade Motor. This smart motor is designed to automate your roller, zebra, or Shangri-La blinds, offering convenient control via app, voice commands, or the included remote control. A Tuya Zigbee 3.0 Hub Gateway is required for smart functionality.



Image: The Blindsmart Zigbee Rechargeable Roller Shade Motor, showing the motor unit, a 9-channel remote control, and a USB charging cable.

2. Product Features

- **Zigbee 3.0 Compatibility:** Requires a Tuya Zigbee 3.0 Hub Gateway for smart control.
- **Comprehensive Package:** Includes 1 roller blinds motor for 17/25/28 mm tubes, tube install brackets, and a remote.
- **Multiple Control Options:** Control the motor via voice commands (through Alexa/Google Home/Yandex via Tuya), mobile app, or the included RF remote control.
- **Versatile Application:** Ideal for automating shades and blinds for indoor/outdoor windows, supporting roller shades up to 2 kg.
- **Rechargeable Battery:** Features a built-in 800mAH Li-battery, providing approximately 3 months of operation on a single charge.
- **Easy Charging:** Equipped with a USB charging port for convenient charging using a standard phone charging cable or power bank.
- **Tube Compatibility:** Designed for installation with 17mm, 25mm, and 28mm tube accessories.



Image: An overview highlighting the key features of the Blindsmart Zigbee Blind Motor, including its built-in lithium battery and compatibility with 17/25/28 mm tubes, along with app, remote, and voice control capabilities.

3. Package Contents

Upon opening your package, please verify that all the following items are included:

- 1 x Zigbee Rechargeable Roller Shade Motor
- 1 x 9-Channel RF Remote Control (battery not included)
- 1 x USB Charging Cable
- Tube Installation Brackets (for 17mm, 25mm, and 28mm tubes)



Image: A visual representation of the product parameters and the main components included in the package: the motor, charging cable, and RF remote control.

4. Setup and Installation

4.1. Preparing Your Roller Shade

Ensure your existing roller shade tube is compatible with the motor. The motor supports 17mm, 25mm, and 28mm inner diameter tubes. Use the appropriate tube installation brackets provided.



Image: A ruler is shown measuring the inner diameter of a roller blind tube to ensure compatibility with the motor.

Image: The motor is being inserted into the roller blind tube, demonstrating the initial step of installation.



Image: A close-up view of the motor's end cap securely attached to the roller blind tube.



Image: A hand is shown installing the mounting bracket, which will hold the roller blind motor in place.

4.2. Replacing the Tail Plug (if necessary)

The motor comes with accessories for 17mm, 25mm, and 28mm tubes. If your tube requires a different size tail plug, follow the diagram below to replace it.

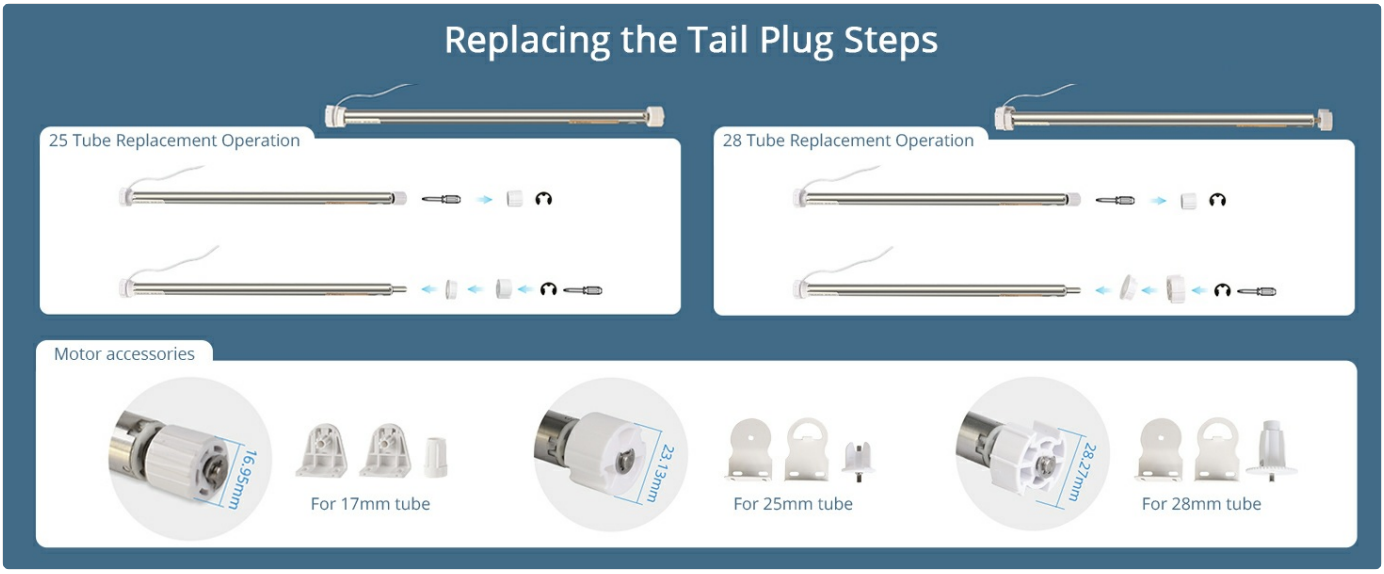


Image: A detailed diagram illustrating the process of replacing the tail plug for 25mm and 28mm tubes, along with close-up images of the specific motor accessories for 17mm, 25mm, and 28mm tube sizes.

4.3. Connecting the Remote Control

To pair the motor with the RF remote control:

1. Press the motor setting button once.
2. Press the "up" key on the remote control.
3. The pairing process is complete.

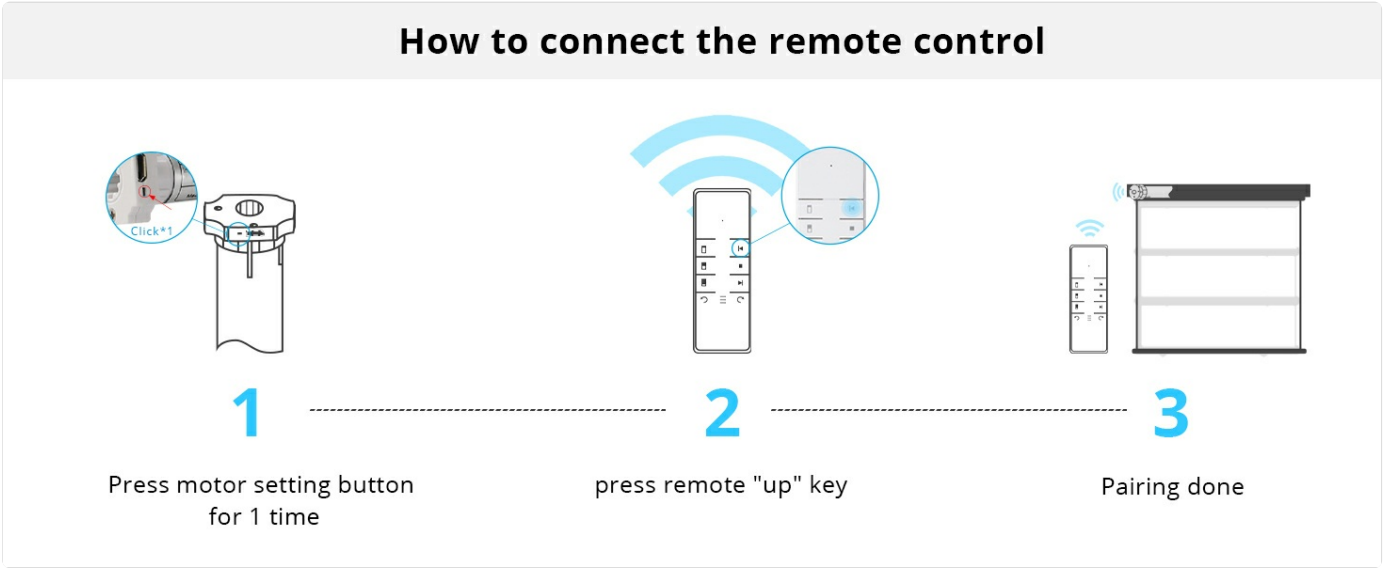


Image: A three-step diagram illustrating how to connect the remote control to the motor, showing the motor setting button, the remote's 'up' key, and the final paired state.

4.4. Connecting to the Tuya App (Requires Zigbee Hub)

A Tuya Zigbee 3.0 Hub Gateway is essential for app and voice control. Ensure your hub is set up and connected to your network.

1. Press the motor setting button three times. The motor will beep once.
2. Open the Tuya App and add devices through your Tuya Zigbee Hub.
3. Once detected and added, the pairing is complete.

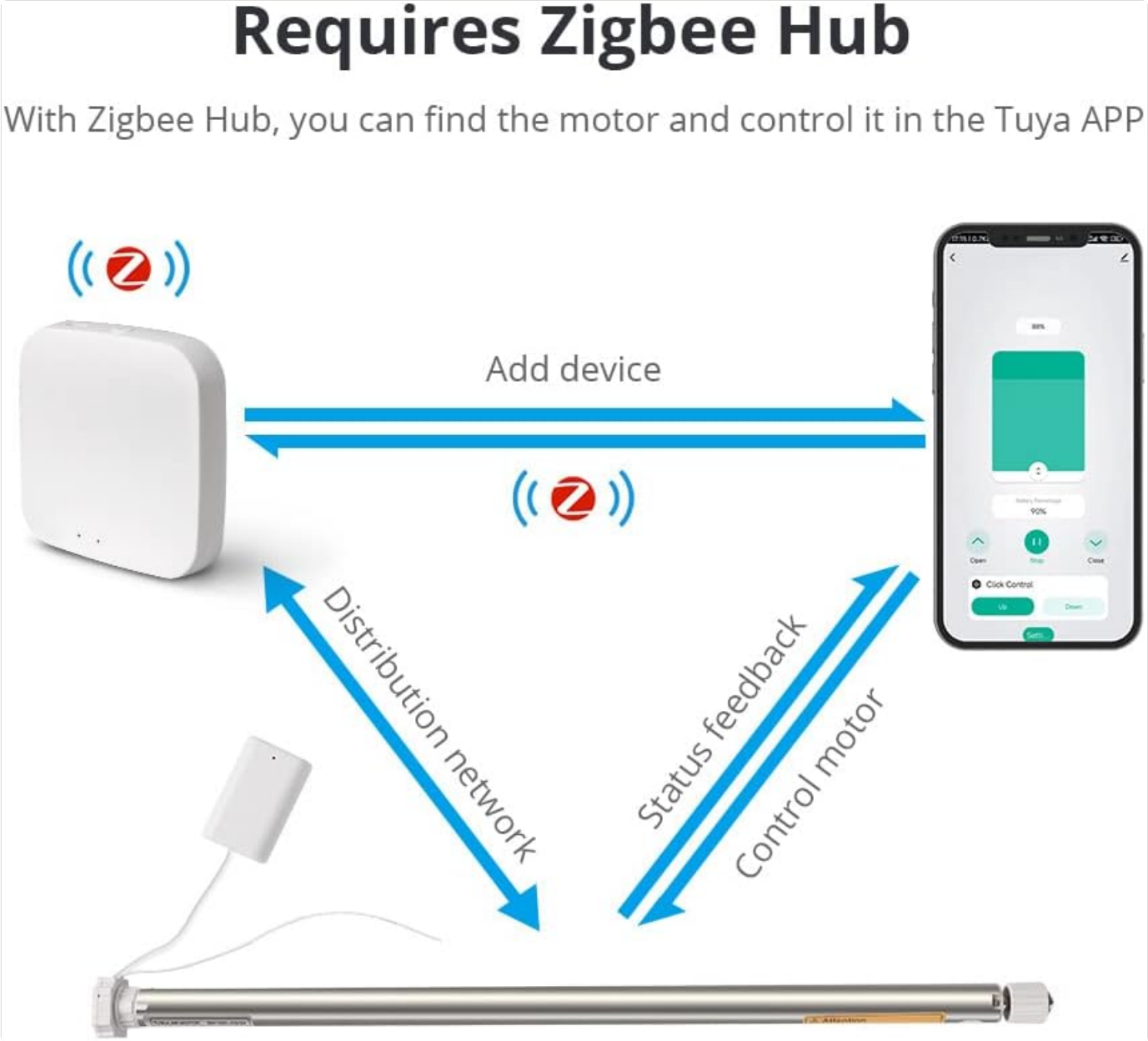


Image: A diagram illustrating the required components for smart control: the Zigbee motor, a Zigbee hub, and the Tuya App on a mobile phone, showing the data flow for adding devices, controlling the motor, and receiving status feedback.

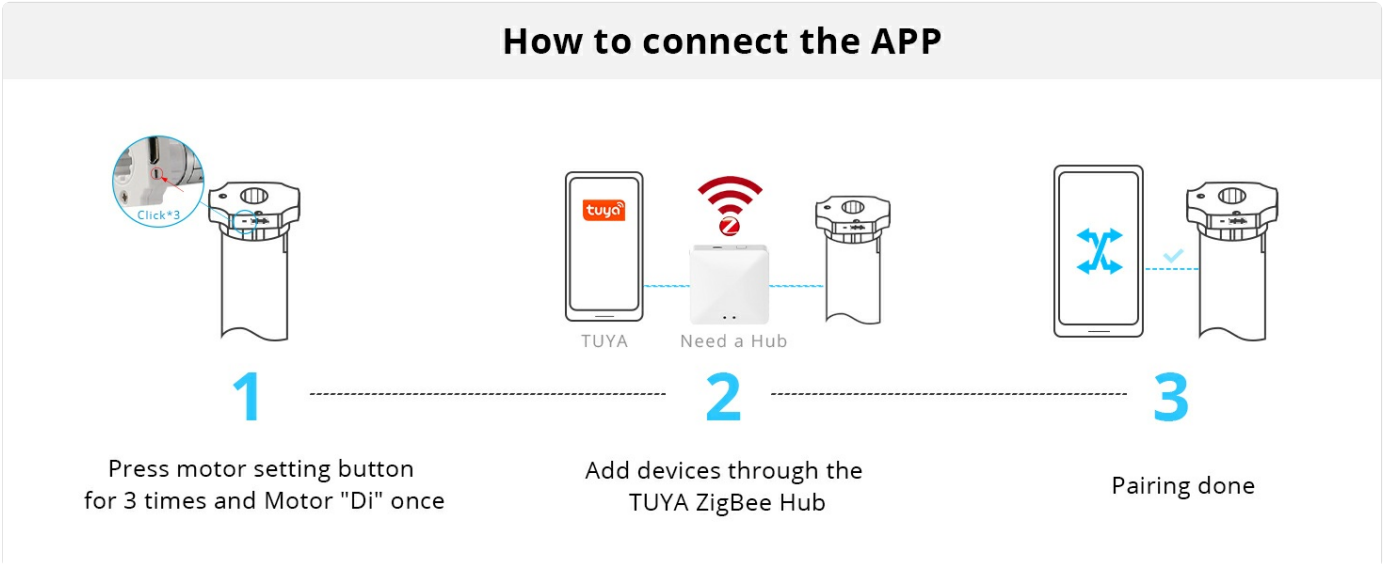


Image: A three-step diagram outlining the process to connect the motor to the Tuya App, involving pressing the motor setting button, adding the device via the Tuya Zigbee Hub, and completing the pairing.

4.5. Installation Video

Watch this video for a visual guide on upgrading an existing shade into a motorized shade with the Blindsmart motor.

Your browser does not support the video tag.

Video: Demonstrates how to upgrade an existing roller shade into a motorized shade using the Blindsmart motor, showing the installation process and operation.

5. Operating Instructions

5.1. Remote Control Operation

The included 9-channel RF remote control allows for direct operation of your motorized blinds. Ensure a battery is inserted into the remote (battery not included).



Image: A detailed diagram illustrating the layout and functions of the 9-channel RF remote control buttons, including controls for specific positions (20%, 50%, 70%), up/open, stop, down/close, inching forward/reverse, and channel selection.



Image: A hand is shown holding the remote control, emphasizing its role in providing convenient control over the motorized blinds.

Key Functions:

- **Up/Open:** Raises the blind.
- **Stop:** Halts the blind at its current position.
- **Down/Close:** Lowers the blind.
- **Position Buttons (20%, 50%, 70%):** Moves the blind to preset positions.
- **Inching Forward/Reverse:** Provides fine adjustments to the blind's position.
- **Channel +/-:** Selects different channels for controlling multiple blinds.

5.2. App Control

Once connected to the Tuya App via your Zigbee hub, you can control the motor from your smartphone or tablet. The app allows for precise control, scheduling, and setting custom positions.

APP Control

The function of the motor can be set in the Tuya APP

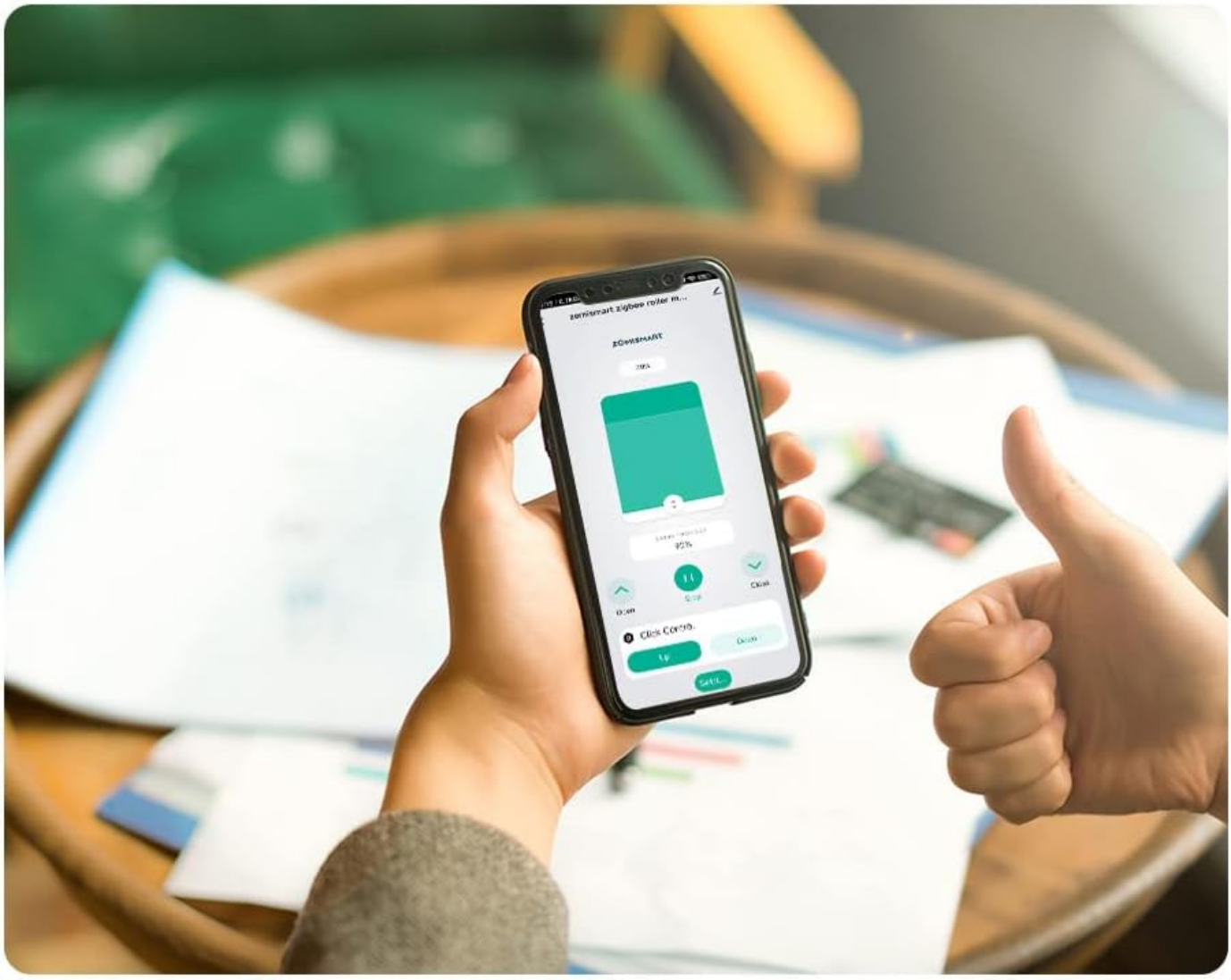


Image: A hand holding a smartphone, showing the Tuya App interface where the motor's function can be set and controlled.

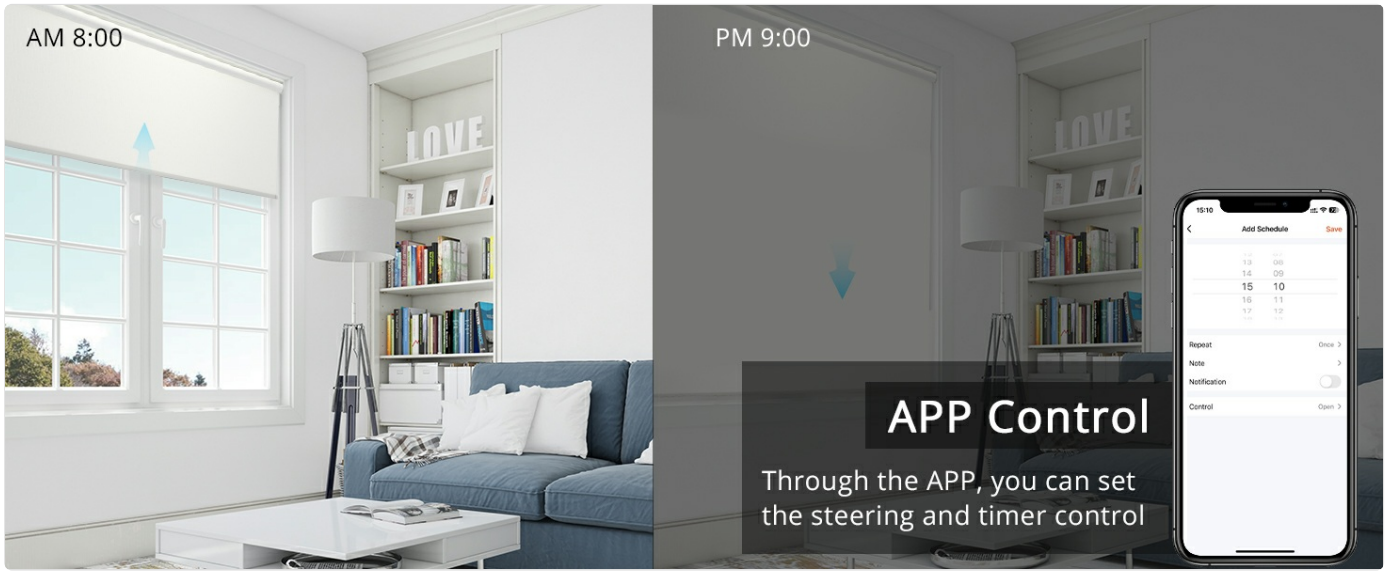


Image: This image demonstrates the app's scheduling capabilities, showing how users can set specific times (e.g., AM 8:00 for opening, PM 9:00 for closing) for automatic blind operation.

5.3. Voice Control

Integrate your Blindsmart motor with popular voice assistants like Alexa, Google Home, or Yandex via your Tuya Zigbee hub for hands-free control.



Image: A setup demonstrating voice control, with Amazon Alexa and Google Home devices on a desk, and a user interacting with a smart speaker to open curtains.

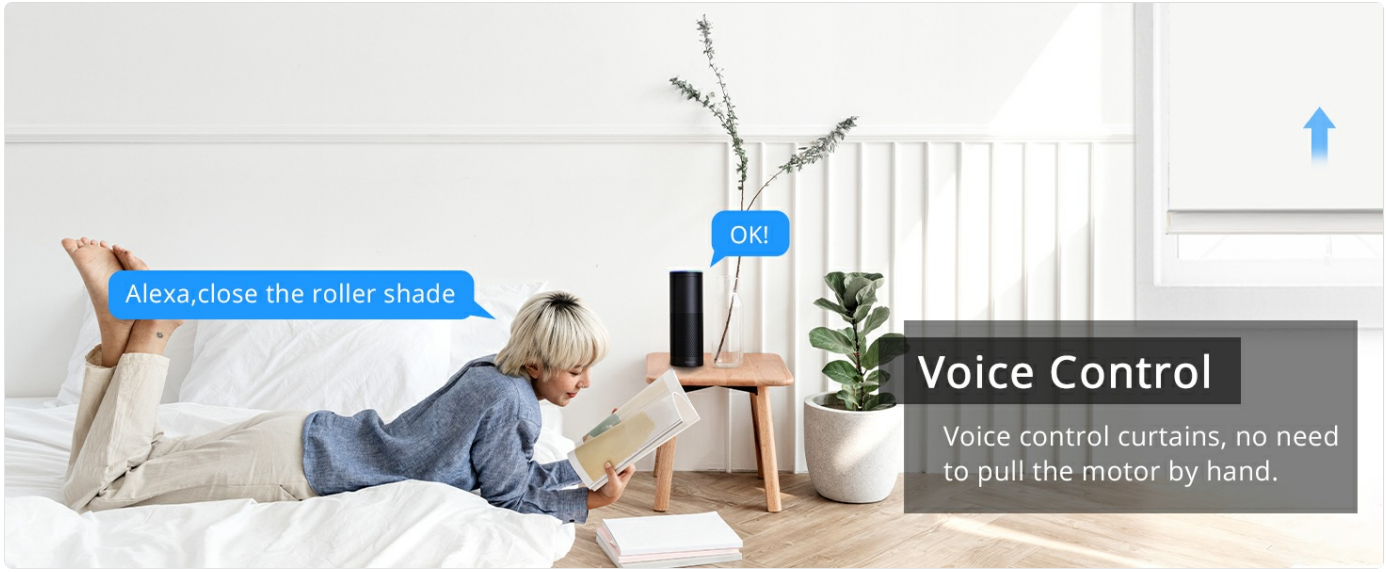


Image: A person is shown relaxing on a bed, using voice commands to control the roller shade through a smart speaker, highlighting the convenience of hands-free operation.

6. Maintenance

6.1. Cleaning

The motor unit and remote control can be cleaned with a soft, dry cloth. For any stubborn marks, use a slightly damp cloth and then dry immediately. Avoid using harsh chemicals or abrasive cleaners.
For the roller shade fabric itself, follow the manufacturer's care instructions, typically "Spot Clean" as per product specifications.

6.2. Battery Charging

The motor features a built-in rechargeable 800mAH lithium battery. When the battery is low, the motor's indicator light may flash, or its operation may become sluggish. To charge, connect the provided USB charging cable to the motor's USB port and a standard USB power source (e.g., phone charger, power bank).

- A full charge typically provides approximately 3 months of operation, depending on usage frequency.
- It is recommended to fully charge the motor before initial use.



Image: The smart blind motor is shown connected to a USB charging cable, highlighting its built-in rechargeable lithium battery and convenient USB charging interface.

7. Troubleshooting

Problem	Possible Cause	Solution

Problem	Possible Cause	Solution
Motor does not respond to remote or app commands.	Battery is low or depleted. Remote control battery is dead. Motor is not paired with the remote or Tuya App. Zigbee hub is offline or not properly connected (for app/voice control). Motor internal issue.	Charge the motor using the USB cable. Replace the battery in the remote control. Re-pair the motor with the remote (Section 4.3) or the Tuya App (Section 4.4). Check your Zigbee hub's connection and status. Perform a factory reset (see below) and re-pair. If issue persists, contact support.
Motor receives commands (light flashes) but does not move.	Motor is jammed or obstructed. Internal mechanical failure.	Check for any obstructions preventing the blind from moving freely. Perform a factory reset and re-pair. If the issue persists, the motor may require replacement.
Blind stops at incorrect positions or limits.	Upper/lower limits need recalibration.	Refer to the Tuya App or remote control instructions for setting and adjusting upper and lower limits.
Motor makes unusual noises.	Obstruction or misalignment. Internal component wear.	Check for any foreign objects or misalignment of the blind within the tube or brackets. If the noise persists and affects operation, contact customer support.

Factory Reset Procedure:

To perform a factory reset on the motor, locate the setting button on the motor. Press and hold the setting button for approximately 10-15 seconds until the motor indicates a reset (e.g., a series of beeps or specific light flashes). After resetting, you will need to re-pair the motor with your remote and/or Tuya App.

8. Specifications

Feature	Detail
Product Model	BSDJ-ZM16EL-zigbee
Brand	Blindsmart
Input Voltage	DC5V/2A
Rated Power	5W
Battery Capacity	7.4V/800mAh Li-battery (rechargeable)
Torque	0.3N.m
Rated RPM	33RPM
Running Noise	35-40dB

Feature	Detail
Max Load (with 17mm tube)	2 kg
Product Dimensions	14.96"L x 0.63"W (Motor length approx. 385mm)
Tube Compatibility	17mm, 25mm, 28mm inner diameter tubes
Control Type	App, Voice, RF Remote Control
Connectivity	Zigbee 3.0 (requires Tuya Zigbee Hub)
Country of Origin	China



Image: A diagram illustrating the physical dimensions of the motor (385mm length) and listing key product parameters such as input, rated power, battery capacity, torque, RPM, running noise, and max load.

9. Warranty and Support

For warranty information, technical support, or any inquiries regarding your Blindsmart Zigbee Rechargeable Roller Shade Motor, please contact Blindsmart customer service through the platform where you purchased the product or visit the official Blindsmart store online.

Please retain your proof of purchase for any warranty claims.

Blindsmart Store: Visit Blindsmart Store on Amazon

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