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zemismart ZM16EL-03/33

zemismart Zigbee Rechargeable Blind Motor User Manual

Model: ZM16EL-03/33

1. INTRODUCTION

The zemismart Zigbee Rechargeable Blind Motor is designed to convert traditional roller blinds into smart, motorized window coverings. This motor integrates seamlessly with various smart home ecosystems, including Tuya Smart, Smart Life APP, HomeKit (via ZMHK01 or Matter M1/M6 Hub), Amazon Echo, and Google Home, offering convenient control via app, voice commands, or the included remote control. Its built-in rechargeable battery provides a wireless solution for easy installation.

2. SAFETY INFORMATION

- Ensure the motor is installed securely according to the instructions to prevent accidental detachment.
- Keep children and pets away from the motorized blinds during operation.
- Do not attempt to disassemble or repair the motor yourself. Contact qualified personnel for service.
- Use only the specified charging cable and power adapter to charge the motor.
- Avoid exposing the motor to extreme temperatures, humidity, or direct water contact.

3. PACKAGE CONTENTS

Please check the package for the following items:

- zemismart Zigbee Rechargeable Blind Motor
- RF433 Remote Control
- USB Type-C Charging Cable
- Crown and Drive Set (for 17mm, 25mm, 28mm tubes)
- Installation Brackets
- User Manual (this document)



Image: The package includes the tubular motor, a white remote control, a USB-C charging cable, and various mounting accessories and adapters for different tube sizes.

4. PRODUCT OVERVIEW

The zemismart blind motor is a compact tubular device designed to fit inside your existing roller blind tube. It features a built-in rechargeable lithium battery and a Type-C charging port. The motor also includes a setting button and a battery power switch for easy configuration and power management.

Voice Control

Support Alexa/ Google Home / Yandex voice control via Tuya

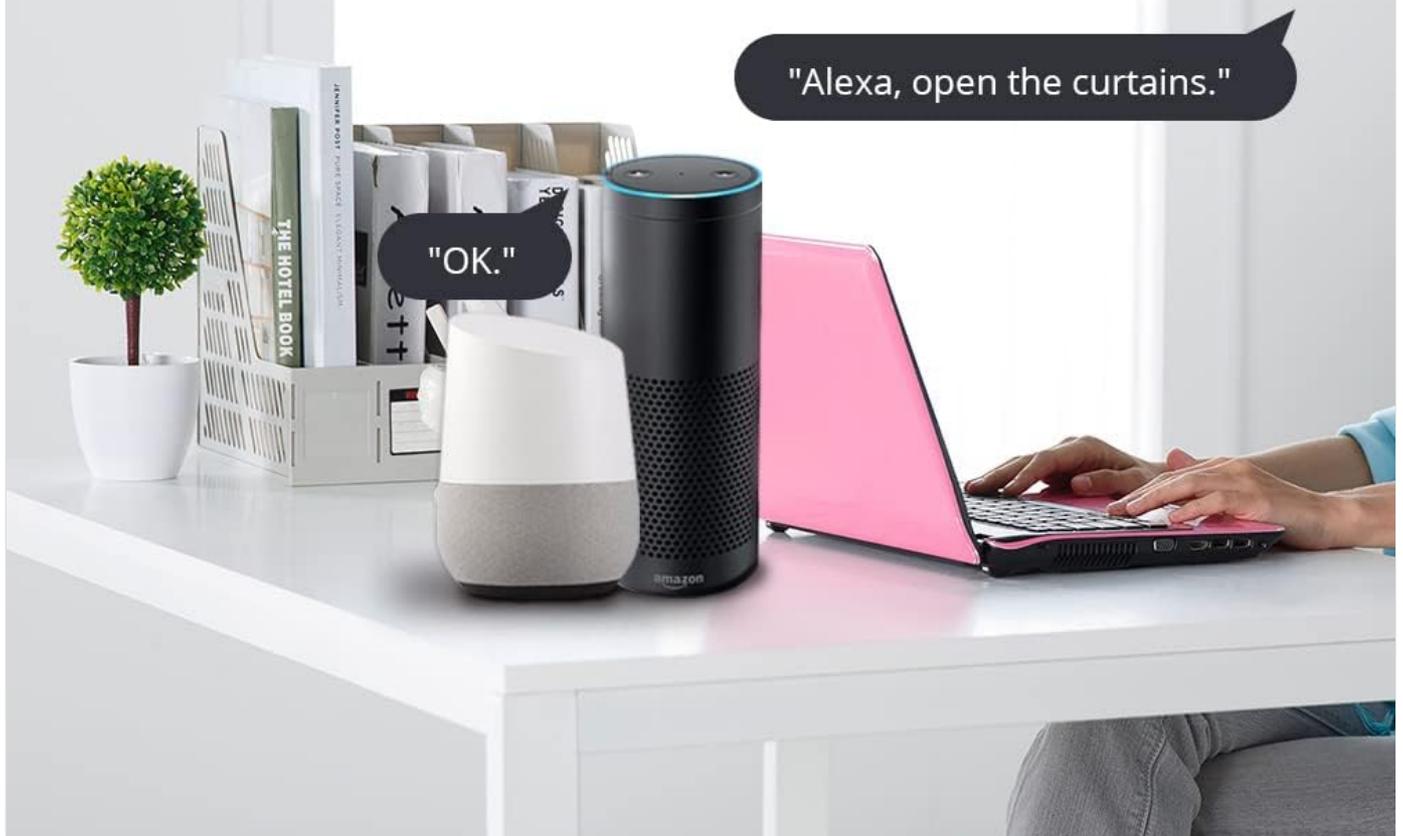


Image: A detailed view of the motor's end, highlighting the Type-C charging port, battery power switch, and motor set key. Dimensions are also indicated.

The motor is compatible with 17mm, 25mm, and 28mm inner diameter roller blind tubes. The appropriate crown and drive set must be used for your specific tube size.

Product Parameters

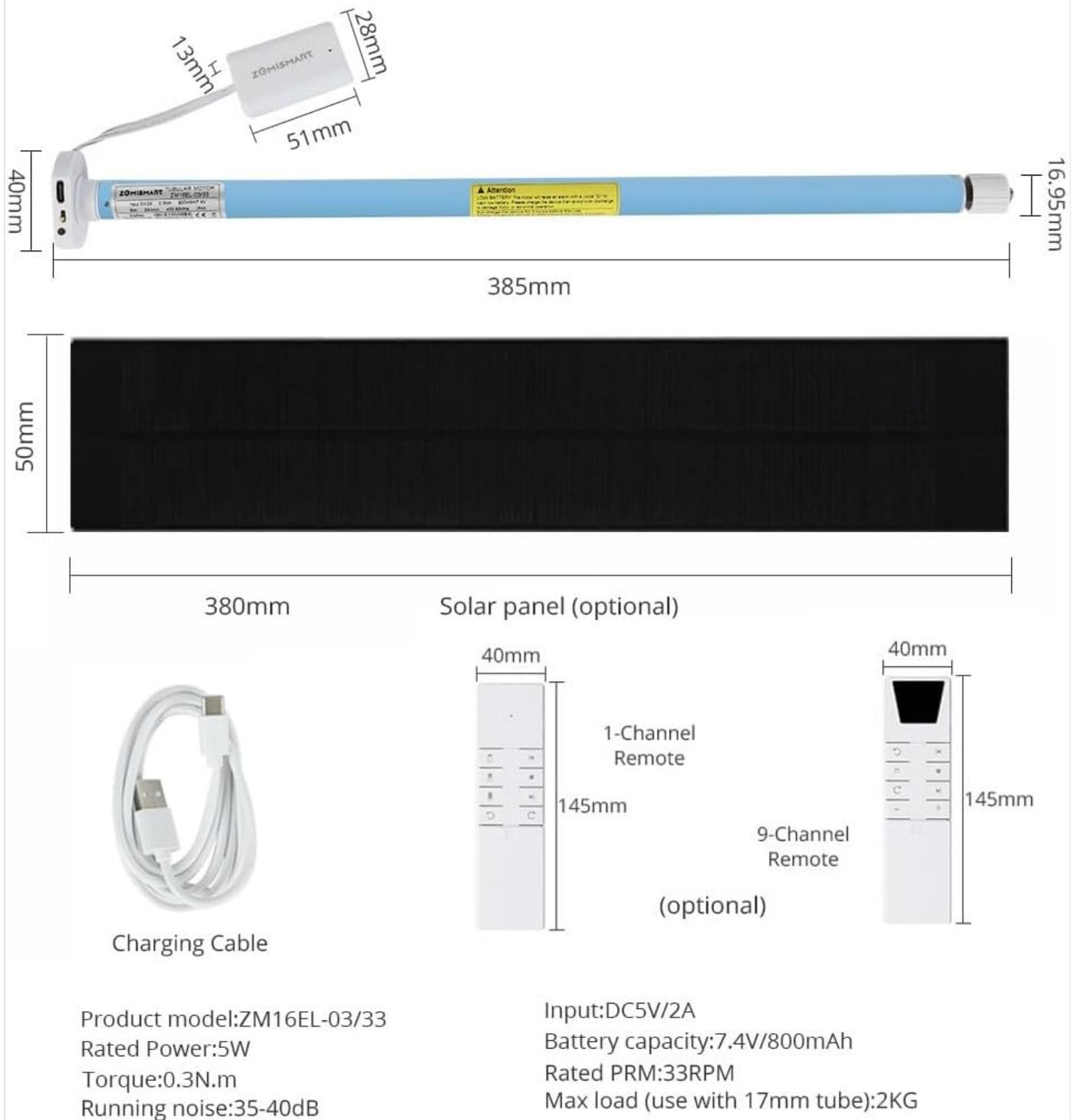


Image: Visual guide demonstrating how to replace the tail plug and adapt the motor for 25mm and 28mm tubes from the standard 17mm configuration, showing the different accessories for each size.

5. SETUP

5.1 Tube Compatibility and Motor Installation

1. Identify the inner diameter of your roller blind tube (17mm, 25mm, or 28mm).
2. Select the corresponding crown and drive set from the package.
3. If your tube is 25mm or 28mm, replace the default 17mm tail plug with the appropriate one as shown in the diagram above.
4. Insert the motor into the roller blind tube, ensuring it fits snugly and the crown engages with the tube's inner grooves.

5. Mount the roller blind assembly with the motor into your window frame using the provided installation brackets.

5.2 Charging the Motor

The motor has a built-in 800mAh Li-battery. Before first use, fully charge the motor.

- Connect the provided USB Type-C charging cable to the motor's charging port.
- Connect the other end of the cable to a standard USB power adapter (not included).
- A full charge typically takes several hours. The indicator light on the motor will change to indicate charging status (refer to specific light behavior in the full manual if available).
- Optional: The motor supports solar panel charging. Connect a compatible solar panel to the motor's charging port for continuous power.

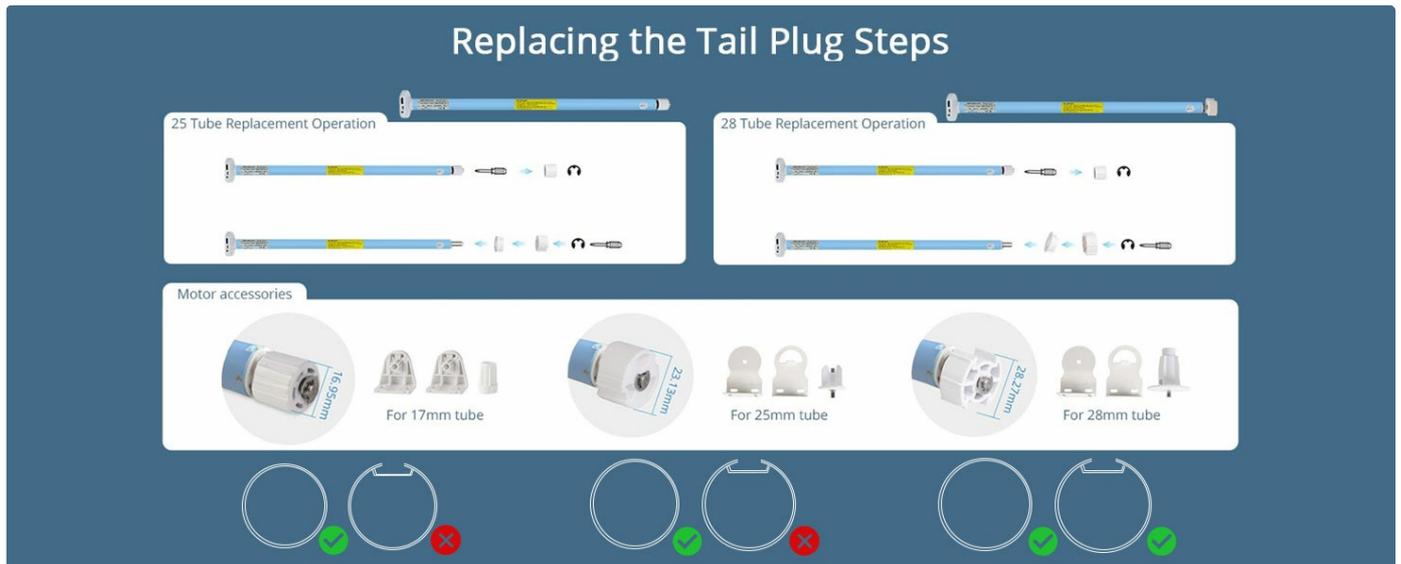


Image: Two panels illustrating the charging options: one showing the USB-C cable connected to the motor's charging port, and the other showing an optional solar panel connected to the motor for continuous power.

5.3 Connecting to a Zigbee Hub and App Pairing

A Tuya Zigbee Gateway (hub) is required for smart control via the Tuya Smart or Smart Life APP, and for voice control via Echo or Google Home. For HomeKit integration, a zemismart ZMHK01 Hub or Matter M1/M6 Hub is needed.

1. Ensure your Zigbee hub is powered on and connected to your home network.
2. Open the Tuya Smart or Smart Life APP on your smartphone.
3. In the app, initiate the device pairing process (usually by tapping 'Add Device' or the '+' icon).
4. On the motor, press the setting button (Motor set key) for 3 seconds until the motor makes a sound (e.g., "Di" once) indicating it's in pairing mode.
5. The app should discover the motor. Follow the on-screen prompts to add the device.
6. Once paired, you can control the motor via the app and set upper and lower limits for the blind's travel.

Three Suitable Sizes

Equipped with fittings for 17mm/25mm/28mm inner diameter pipe, the tail plug can be replaced as needed

25mm Tube Replacement Operation



28mm Tube Replacement Operation



Image: A flowchart illustrating the connection process: the motor communicates with the Zigbee hub, which then connects to the Tuya APP on a smartphone. The app sends control commands to the motor and receives status feedback.

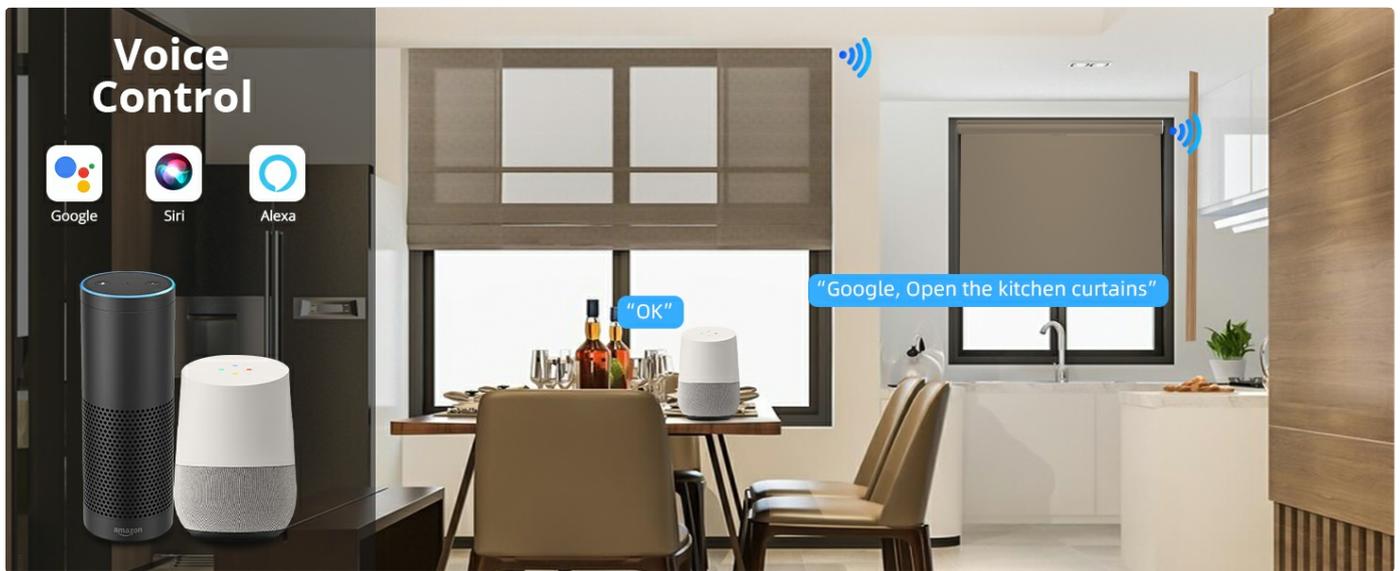


Image: A smartphone displaying the Tuya app interface for controlling the smart roller blind, showing options for opening, closing, and setting limits.

6. OPERATING INSTRUCTIONS

6.1 Remote Control Operation

The included RF433 remote control allows direct operation of the blind motor.

EC	REP	SUCCESS COURIER SL Calle de RIO TORMES 13A, oficina 1, Fuenlabrada, Madrid, 28947 Spain successservice2@hotmail.com TEL: +34910602659	MADE IN CHINA
			    

Product Name: Smart Roller Motor
Model No.: ZM16EL
Manufacturer: huizhoushiduxingzhinengkejijouxiangongsi
E-mail/Tel: euyoumi@163.com
Address: (changfangB) 401-1, Huifengdongerlu16hao, Zhongkaigaixinqu, Huizhoushi, Guangdongsheng, China

Image: A detailed diagram of the RF portable remote control, labeling buttons for Up/Open, Stop, Down/Close, Inching forward/reverse, position presets (20%, 50%, 70%), and channel selection (for multi-channel remotes). Instructions for battery installation are also shown.

- **Up/Open:** Raises the blind.
- **Stop:** Stops the blind at its current position.
- **Down/Close:** Lowers the blind.
- **Position Presets (20%, 50%, 70%):** Moves the blind to a pre-set intermediate position.
- **Inching Forward/Reverse:** Allows for fine adjustments of the blind's position.
- **Channel +/-:** If using a multi-channel remote, select the desired channel to control specific blinds.

6.2 App Control

After pairing with the Tuya Smart or Smart Life APP, you can control your blinds from anywhere.

- Open the Tuya Smart or Smart Life APP.

- Select your blind motor from the device list.
- Use the virtual controls to open, close, or stop the blinds.
- Set specific opening percentages or adjust upper and lower limits within the app.
- Control multiple blinds simultaneously by grouping them in the app.

6.3 Voice Control

Integrate your zemismart blind motor with Amazon Alexa, Google Home, or Apple HomeKit (via compatible hub) for convenient voice control.

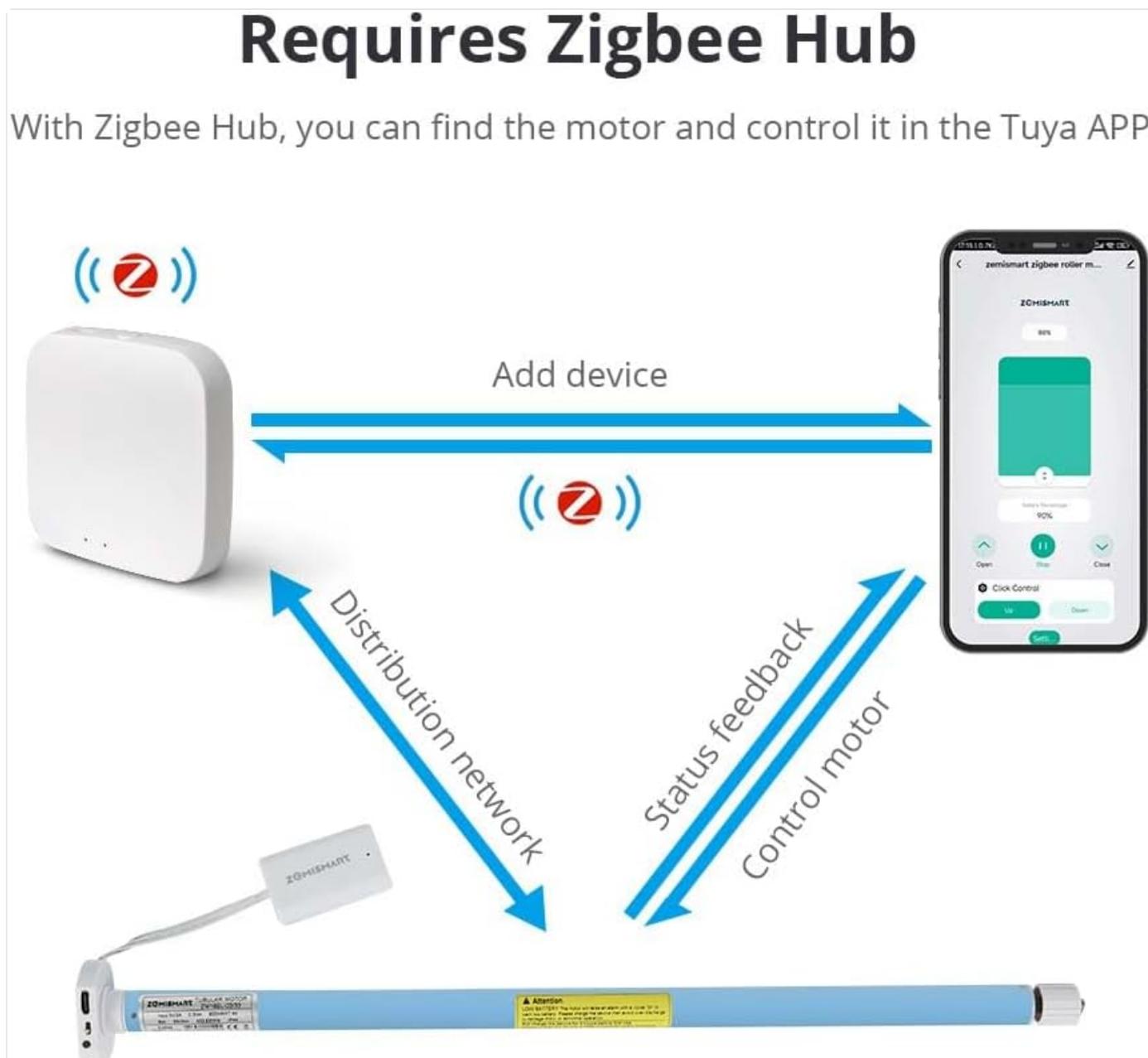


Image: A scene depicting an Amazon Echo and Google Home device on a desk, with a speech bubble showing the command "Alexa, open the curtains." and a response "OK.", illustrating voice control functionality.

- Ensure your smart speaker (Echo, Google Home) is linked to your Tuya/Smart Life account.
- For HomeKit, ensure your ZMHK01 or Matter hub is properly configured.
- Use commands such as:
 - "Alexa, open the blinds."
 - "Hey Google, close the bedroom blinds."

- "Siri, set the living room blinds to 50%."

6.4 Timing Control (Schedules)

Set automated schedules for your blinds using the Tuya Smart or Smart Life APP.



Image: A split image showing a person waking up at 7:00 a.m. with blinds open, and another person sleeping at 10:00 p.m. with blinds closed, illustrating the convenience of scheduled blind operations.

- In the app, navigate to the automation or schedule section.
- Create new schedules based on time of day (e.g., open at 7:00 AM, close at 10:00 PM).
- You can also set up automations based on other smart home device triggers or location.

7. MAINTENANCE

- Keep the motor and surrounding area clean and free from dust and debris.
- Recharge the motor battery when the performance degrades or the app indicates low battery.
- Do not lubricate the motor or its internal components.
- Periodically check the mounting brackets and ensure they are secure.

8. TROUBLESHOOTING

- **Motor not responding:**
 - Check if the motor battery is charged.
 - Ensure the motor's power switch is ON.
 - Verify the remote control battery is functional.
 - Check the Zigbee hub's connection and status.
- **Blind not moving to correct position:**
 - Recalibrate the upper and lower limits using the app or remote control.
 - Ensure there are no obstructions preventing the blind from moving freely.
- **Difficulty pairing with app:**
 - Ensure the Zigbee hub is online and within range.
 - Reset the motor to factory settings (refer to specific reset procedure if available, usually a long press of the setting

button).

- Restart the Zigbee hub and try pairing again.

- **Voice control not working:**

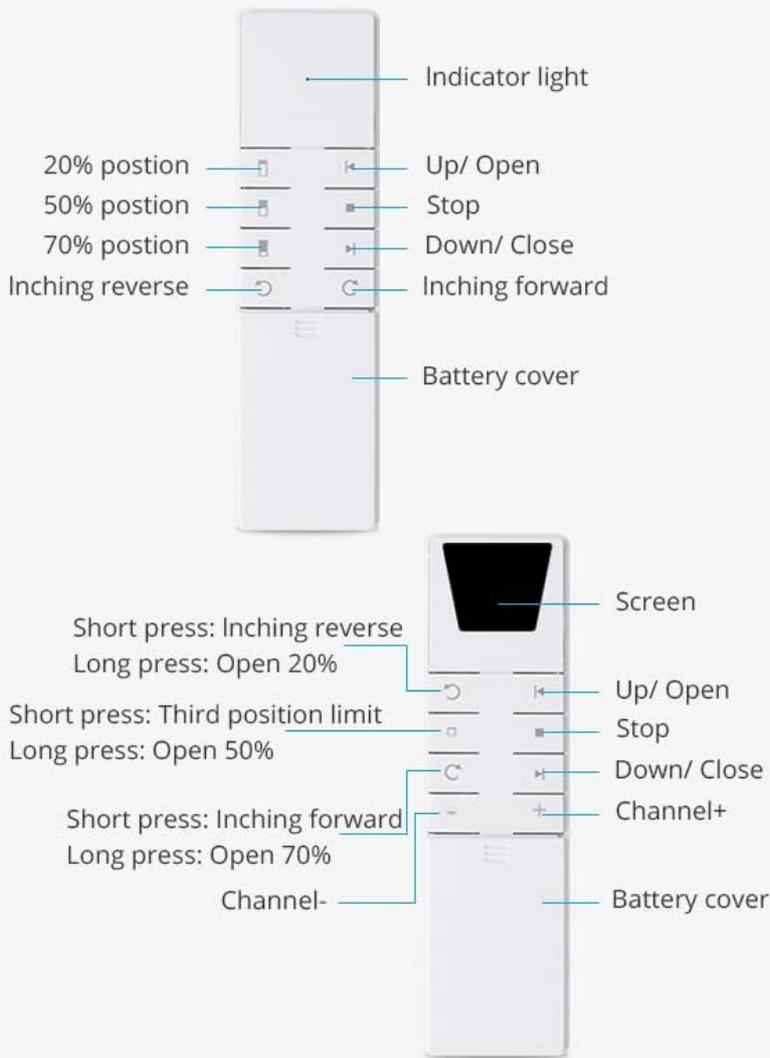
- Confirm the smart speaker is connected to the internet and linked to the correct smart home account (Tuya/Smart Life).
- Ensure the blind motor is recognized and named correctly in the smart home app.

9. SPECIFICATIONS

Parameter	Value
Product Model	ZM16EL-03/33
Input	DC 5V/2A
Rated Power	5W
Battery Capacity	7.4V/800mAh
Torque	0.3N.m
Rated RPM	33RPM
Running Noise	35-40dB
Max Load (with 17mm tube)	2KG
Compatible Tube Sizes	17mm, 25mm, 28mm (inner diameter)
Control Methods	App Control (Tuya/Smart Life), Remote Control (RF433), Voice Control (Alexa, Google Home, Siri via compatible hub)

Remote Control

RF portable remote control button instructions



Push down the battery cover
and put in battery
(Battery not included)

Image: A technical diagram showing the dimensions of the motor (385mm length, 40mm height, 13mm/28mm/51mm for the head), an optional solar panel (380mm x 50mm), and the dimensions of the 1-channel and 9-channel remote controls. A table of product parameters is also included.

10. WARRANTY AND SUPPORT

For warranty information and technical support, please refer to the official zemismart website or contact your retailer. Keep your purchase receipt as proof of purchase.

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