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Blindsmart ZM85EL-2Z

Blindsmart Tuya Zigbee Smart Curtain Motor ZM85EL-2Z User Manual

Model: ZM85EL-2Z | Brand: Blindsmart

1. INTRODUCTION

The Blindsmart Tuya Zigbee Smart Curtain Motor ZM85EL-2Z is designed to automate your curtains, offering convenience and smart home integration. This device allows you to control your curtains remotely via an app, voice commands, or a physical remote control. It is compatible with various curtain track types, including Roman rods, I-type, and U-type tracks.



Image 1.1: Blindsmart Smart Curtain Motor installed on a curtain rod.

2. PRODUCT FEATURES

- **Multiple Control Options:** Control curtains via Tuya / Smart Life App, voice commands (Alexa, Google Assistant), or remote control.
- **Powerful Motor:** Supports a maximum load of up to 20 pounds (approximately 9 kg).
- **Long Battery Life:** Features a 3000 mAh rechargeable battery, providing 1-2 months of use on a single charge (usage dependent).
- **Easy Installation:** Mounts onto existing curtain tracks or rods without additional tools.
- **Compatibility:** Supports U- and I-Rails (I-rail bottom width $\geq 12\text{mm}$, U-rail bottom slotting width $\leq 8\text{mm}$) and 20-28mm Roman poles.
- **Solar Panel Option:** Available with a solar panel for continuous charging, eliminating the need for manual recharging.
- **Zigbee Hub Required:** A Tuya Zigbee hub is necessary for app and voice control functionalities.



Image 2.1: Overview of the Blindsmart Zigbee Curtain Driver's key features.

3. PACKAGE CONTENTS

The Blindsmart Tuya Zigbee Smart Curtain Motor package typically includes:

- Blindsmart Smart Curtain Motor(s)
- Mounting accessories for various track types (Rod, I-Rail, U-Rail)
- USB charging cable
- Solar Panel (if purchased with solar panel option)
- User Manual

4. SETUP AND INSTALLATION

4.1 Compatibility Check

Ensure your curtain track or rod is compatible with the motor. The motor supports:

- **Roman Rods:** Suitable for 20-28mm diameter rods.

- **I-Rails:** Bottom width $\geq 12\text{mm}$, height $\geq 12\text{mm}$.
- **U-Rails:** Bottom slotting width $\leq 8\text{mm}$, width $\geq 15\text{mm}$, height $\geq 7\text{mm}$.

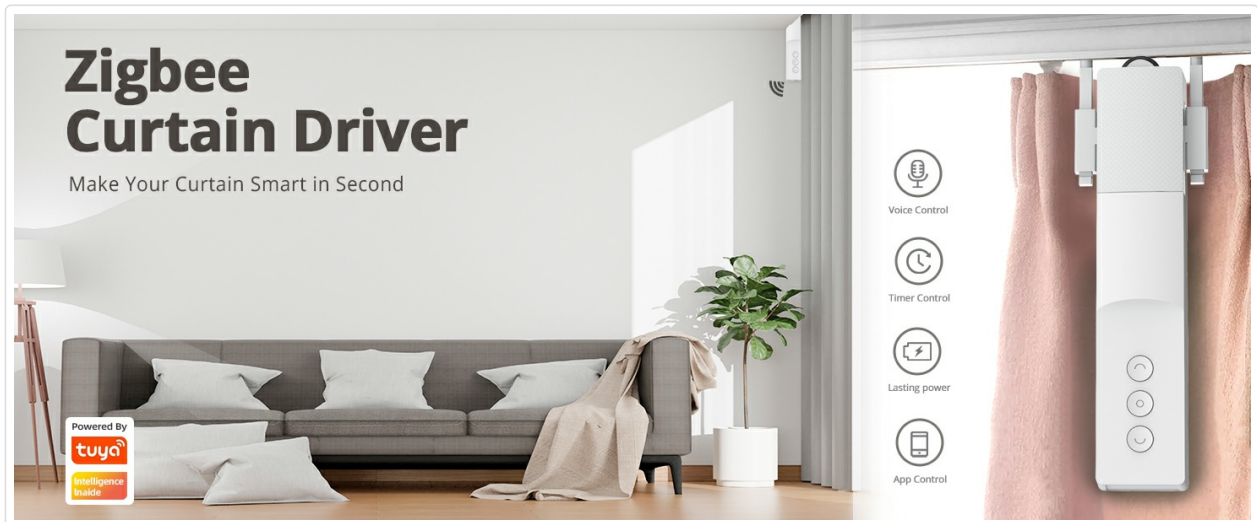


Image 4.1: Visual guide for curtain track compatibility and easy installation.

4.2 Installation Steps

1. **Charge the Motor:** Before installation, fully charge the motor using the provided USB cable.
2. **Attach Adapters:** Select the appropriate adapters for your curtain track type (Rod, I-Rail, or U-Rail) and attach them to the motor.
3. **Mount the Motor:** Securely clip or slide the motor onto your curtain track or rod. Ensure it is firmly in place and can move freely.
4. **Single vs. Double Open Setup:**
 - **Single Open:** If you want curtains to open from one side (e.g., left to right), install one motor on that side.
 - **Double Open:** For curtains that open from the center, install two motors, one on each side, facing opposite directions. This allows them to synchronize and open/close simultaneously from the middle.
5. **Install Solar Panel (Optional):** If using a solar panel, attach it to a window or a location with direct sunlight to ensure continuous charging.



Single open

Single left to right

Double open

You can get Curtain Starter Pack (two units) so to open and close your double-sided curtains from the middle

If you would like make the curtains open from middle, should install the driver oppositely, or they will run to the same side

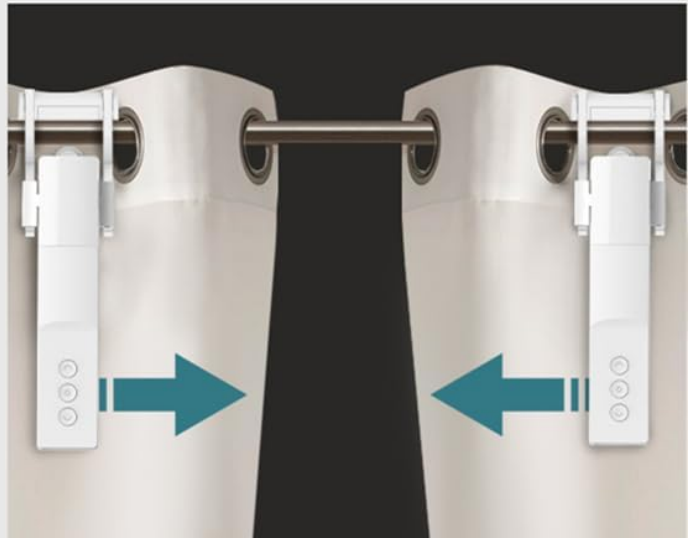


Image 4.2: Configuration for single and double open curtain setups.

WORK WITH SOLAR PANEL

Solar Panel Optional, no need pull it off to charging

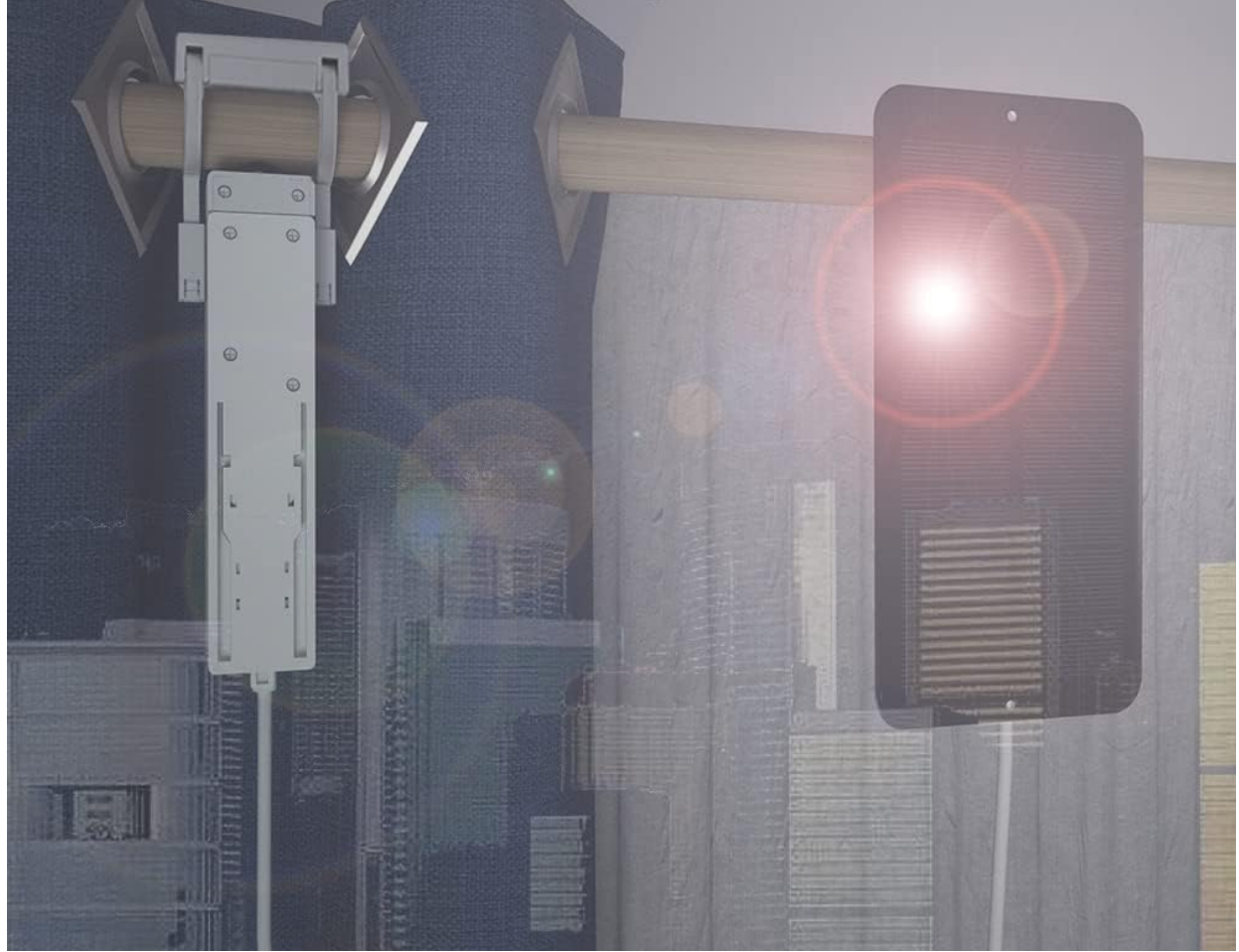


Image 4.3: Smart Curtain Motor with optional solar panel for continuous power.

4.3 Pairing with Tuya Zigbee Hub

A Tuya Zigbee hub is required for app and voice control. Refer to your Tuya Zigbee hub's manual for specific pairing instructions. Generally, you will need to put the hub into pairing mode and then activate the pairing mode on the curtain motor (usually by pressing a button on the motor).

5. OPERATING INSTRUCTIONS

5.1 App Control (Tuya / Smart Life App)

Once paired with your Tuya Zigbee hub, you can control the curtain motor using the Tuya or Smart Life app on your smartphone.

1. Download and open the Tuya Smart or Smart Life app.
2. Add the curtain motor device within the app (it should be discovered after successful Zigbee pairing).
3. Use the app interface to open, close, or stop your curtains at any desired percentage.
4. Monitor the battery percentage of the motor directly from the app.

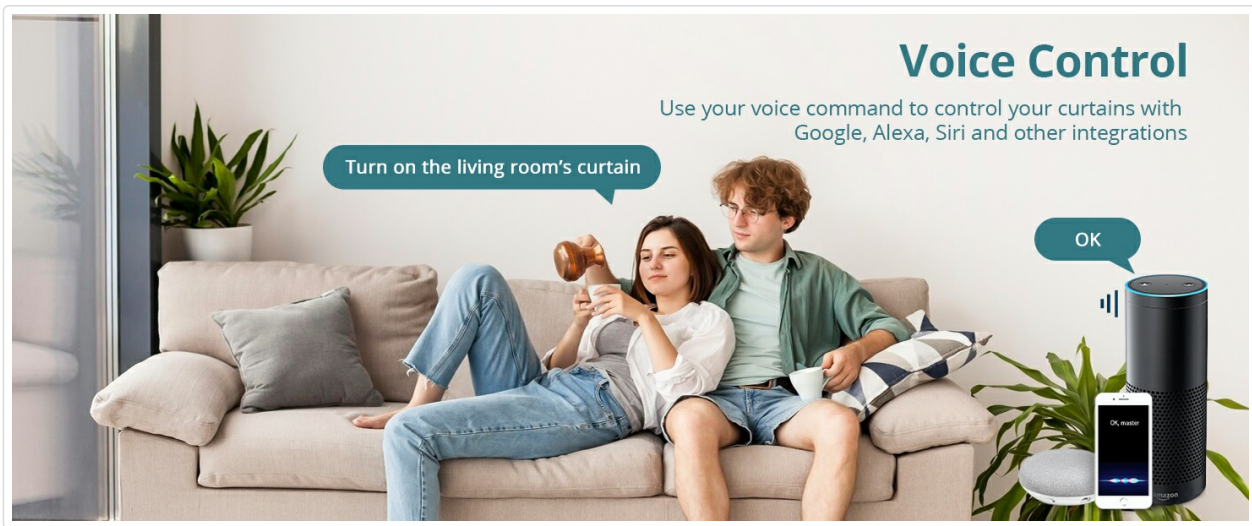


Image 5.1: App control interface for the smart curtain motor.

5.2 Voice Control (Alexa, Google Assistant)

Integrate your Tuya Smart or Smart Life account with Amazon Alexa or Google Assistant for hands-free control.

1. Enable the Tuya Smart or Smart Life skill/service in your Alexa or Google Home app.
2. Link your accounts and discover devices.
3. Use voice commands such as: "Alexa, open the living room curtain" or "Hey Google, close the bedroom blinds."

By one-step attach it to tracks, transform your existing curtains to the smart ones within seconds.

Suitable for 20-28mm Roman poles

Suitable for I-rail track
12.8mm High Widths 14.0mm
High 12.0mm

Suitable for U rail track
Widths 15mm
High > 12.7mm
6.5mm < Width < 8mm

Suitable for small U-shaped track
Widths 15mm
High > 7mm
6.5mm < Width < 8mm

Easy Installation

Thought it would take you over an hour to complete the installment? No! It takes you only 30 seconds to install, no matter it's U rail, Rod or I rail.

Image 5.2: Voice control integration with smart assistants.

5.3 Timer Control

Set schedules for your curtains to open and close automatically at specific times.

1. Within the Tuya Smart or Smart Life app, navigate to the device settings for your curtain motor.
2. Locate the 'Timer' or 'Schedule' function.
3. Set desired opening and closing times (e.g., open at 8:00 AM, close at 6:00 PM).

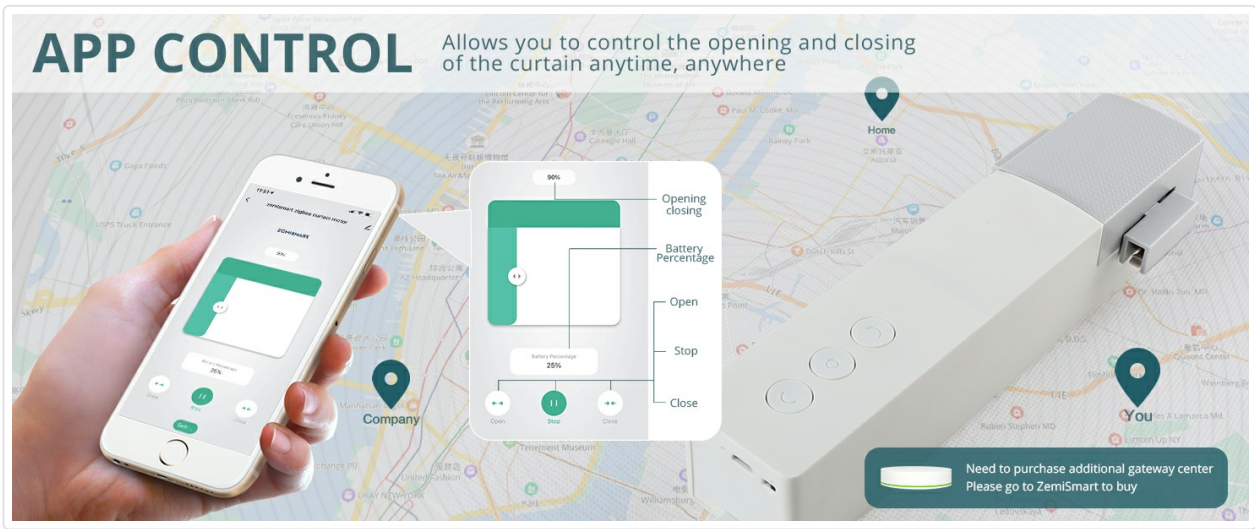


Image 5.3: Setting automated schedules for curtain operation.

6. MAINTENANCE

6.1 Battery Charging

The motor is equipped with a 3000 mAh rechargeable battery. When the battery level is low, charge it using the provided USB cable. If you have the solar panel option, ensure the panel is positioned to receive adequate sunlight for continuous charging, reducing the need for manual recharging.

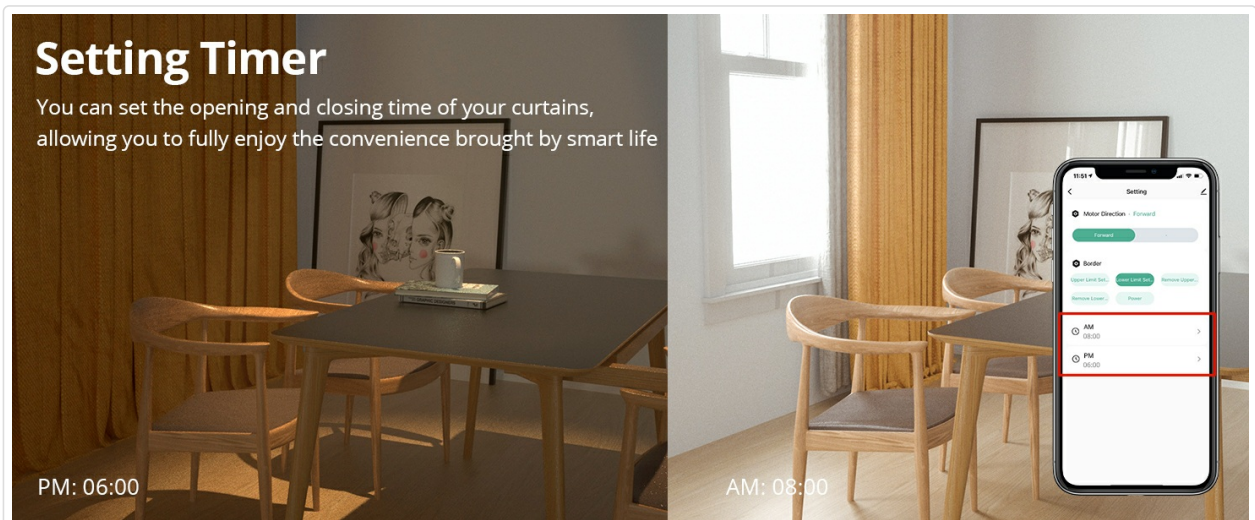


Image 6.1: Battery capacity and monitoring via the Tuya App.

6.2 Cleaning

Wipe the motor and solar panel (if applicable) with a soft, dry cloth. Avoid using abrasive cleaners or solvents that could damage the device.

7. TROUBLESHOOTING

If you encounter issues with your BlindsSmart Smart Curtain Motor, consider the following:


- **Motor Not Responding:** Check if the battery is charged. Ensure the motor is properly paired with the Tuya Zigbee hub and connected to the app. Verify Wi-Fi connectivity for the hub.
- **Curtains Not Moving Smoothly:** Inspect the curtain track for any obstructions. Ensure the motor is correctly installed and not binding. Check if the curtain weight exceeds the 20-pound limit.

- **Voice Control Issues:** Confirm that your Tuya Smart/Smart Life account is correctly linked to Alexa or Google Assistant. Ensure your voice commands are clear and the smart speaker is online.
- **App Connectivity Problems:** Verify your smartphone has an internet connection. Restart the Tuya Smart/Smart Life app. Ensure the Zigbee hub is online and functioning correctly.
- **Solar Panel Not Charging:** Ensure the solar panel is clean and positioned in direct sunlight. Check the connection between the solar panel and the motor.

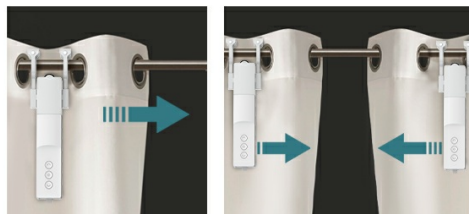
For persistent issues, refer to the Blindsmart support resources or contact customer service.

8. SPECIFICATIONS

Parameter



Product name:	Zigbee Curtain Driver
Model:	ZM85EL-2Z
Size:	205 × 40 × 37 mm
Rated power:	5V 1A
Operation temperature:	-5°C~50°C
Working humidity:	No condensation
Support system:	Android 5.0 or iOS 12.0 and above



Single open
Single left to right

Double open

You can get Curtain Starter Pack (two units) so to open and close your double-sided curtains from the middle

If you would like make the curtains open from middle, should install the driver oppositely, or they will run to the same side

Image 8.1: Detailed product parameters for the Blindsmart Zigbee Curtain Driver.

Parameter	Value
Product Name	Zigbee Curtain Driver
Model Number	ZM85EL-2Z
Dimensions	205 x 40 x 37 mm (8.07 x 1.57 x 1.57 inches)
Item Weight	1.57 pounds
Rated Power	5V 1A
Battery Capacity	3000 mAh
Maximum Load	20 pounds (approx. 9 kg)
Operation Temperature	-5°C to 50°C (23°F to 122°F)
Working Humidity	No condensation
Supported Systems	Android 5.0 or iOS 12.0 and above

9. SAFETY INFORMATION

- Do not expose the device to extreme temperatures or humidity.
- Keep the device away from water and other liquids.

- Do not attempt to disassemble or repair the device yourself. Contact qualified personnel for service.
- Ensure the curtain motor is securely mounted to prevent it from falling.
- Keep packaging materials away from children to prevent choking hazards.

10. WARRANTY AND SUPPORT

For warranty information, technical support, or customer service inquiries, please refer to the documentation included with your purchase or visit the official Blindsmart website. Please have your model number (ZM85EL-2Z) and purchase details ready when contacting support.