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## Blindsmart ZM85EL-2Z

# Blindsmart Tuya Zigbee Smart Curtain Motor (Model ZM85EL-2Z) Instruction Manual

Automatic Smart Curtain Opener for Roman Rod, I-Type, and U-Type Curtains Track

## Introduction

This manual provides detailed instructions for the installation, operation, and maintenance of your Blindsmart Tuya Zigbee Smart Curtain Motor, model ZM85EL-2Z. This device is designed to automate your curtains, offering convenience through app control, voice commands, and remote operation. Please read this manual thoroughly before use to ensure proper functionality and safety.

## Safety Information

- Ensure the power supply is disconnected before installation or maintenance.
- Do not expose the motor to water or extreme temperatures.
- Keep children and pets away from moving curtains.
- Only use the provided accessories and power adapter.
- A Tuya Zigbee hub is required for app and voice control functionality.

## Package Contents

Verify that all components are present in your package:

- Blindsmart Tuya Zigbee Smart Curtain Motor (ZM85EL-2Z)
- Mounting Brackets (for Roman Rod, I-Type, U-Type tracks)
- USB Charging Cable
- User Manual
- Remote Control (if included in your set)

## Setup and Installation

The Blindsmart Smart Curtain Motor is designed for easy installation on existing curtain tracks or rods without additional tools. It supports Roman poles (20-28mm), I-Rails (bottom width ≥ 12mm, ≤ 14mm, height ≥ 12mm), and U-Rails (bottom slotting width ≤ 8mm, width ≥ 15mm, height ≥ 7mm or width ≥ 15mm, height ≥ 12.7mm, 6.5mm < width < 8mm).

## 1. Charging the Motor

Before initial use, fully charge the motor using the provided USB cable. The 3000 mAh rechargeable battery provides up to 1-2 months of use on a single charge, depending on usage, track length, and curtain type.

## 2. Determining Curtain Opening Style

Consider your desired curtain movement:

- **Single Open:** If you want curtains to open from one side (e.g., left to right), one motor is sufficient.
- **Double Open:** If you want curtains to open from the center, two motors are required, installed oppositely.

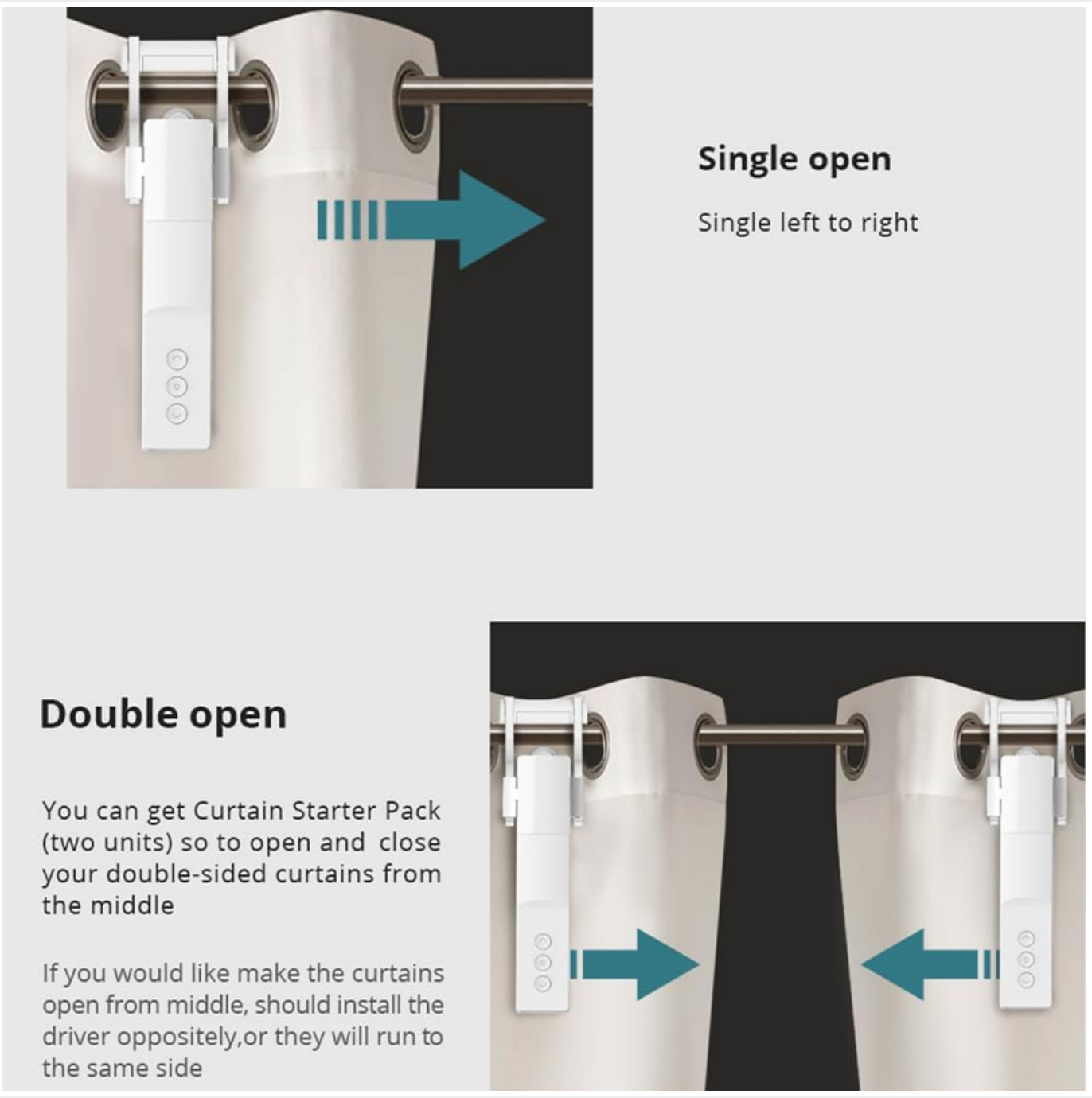



*Image: Illustration of single-side and center-split curtain opening configurations.*

## 3. Attaching the Motor to Your Curtain System

Select the appropriate mounting brackets for your curtain rod or track type. The motor is compatible with Roman rods, I-Rails, and U-Rails. Refer to the detailed diagrams below for specific measurements and attachment methods.




*Image: Overview of compatible curtain rod and track types.*

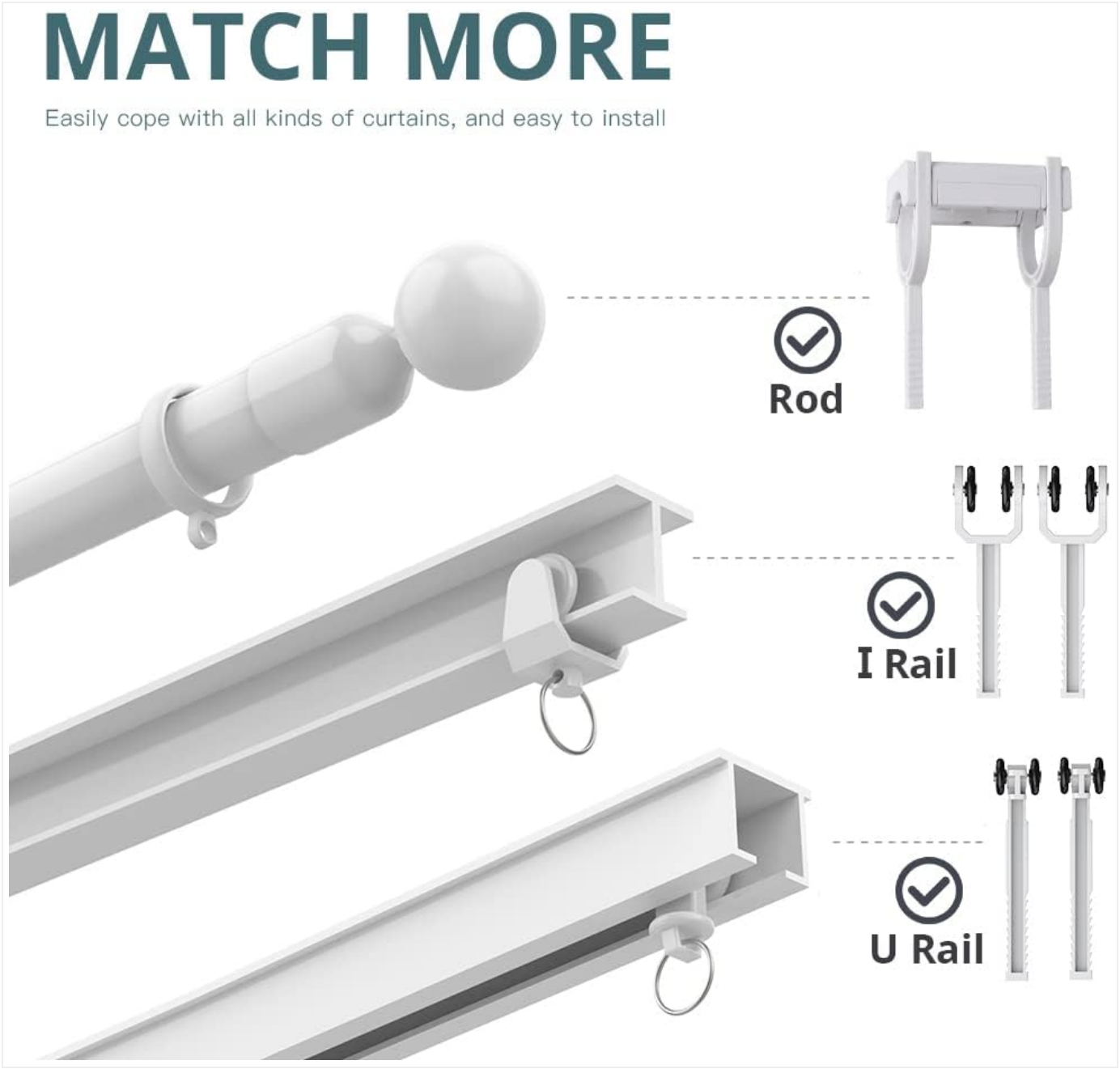



*Image: Specific dimensions for I-rail and small U-shaped track installation.*




*Image: Specific dimensions for Roman pole and U-rail track installation.*

### 4. Pairing with Tuya Zigbee Hub

A Tuya Zigbee hub is essential for app and voice control. Follow the instructions provided with your Tuya Zigbee hub to add new devices. The motor will enter pairing mode automatically or by pressing a button on the device (refer to the device for specific button location).

### 5. Setting Open and Close Limits

After installation, set the open and close limits for your curtains using the Tuya / Smart Life app or the physical buttons on the motor. This ensures the curtains stop at the desired positions.

Your browser does not support the video tag.

*Video: An instructional video demonstrating the setup and basic operation of the Smart Curtain Motor.*

## Operating the Smart Curtain Motor

The Blindsmart Smart Curtain Motor offers multiple control methods for your convenience.

## 1. App Control (Tuya / Smart Life App)

Once paired with your Tuya Zigbee hub, you can control your curtains remotely through the Tuya or Smart Life app. The app allows you to:

- Open and close curtains.
- Set specific opening/closing percentages.
- Schedule timers for automatic operation.
- Monitor battery level.

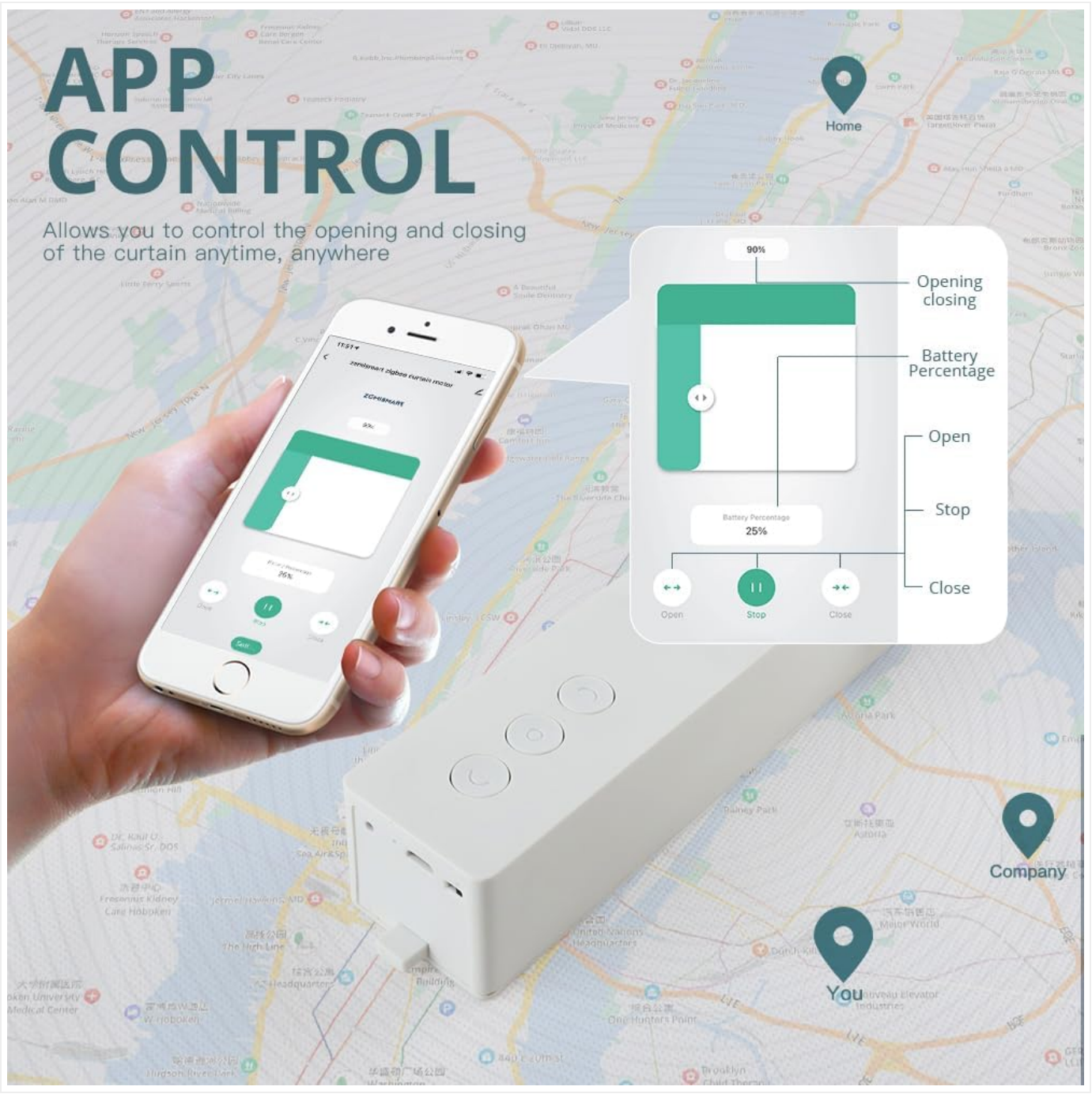



*Image: App interface showing controls for opening, closing, and setting curtain percentage.*

## 2. Voice Control (Alexa, Google Assistant)

Integrate your Smart Curtain Motor with Alexa or Google Assistant for hands-free control. Ensure your Tuya Zigbee hub is linked to your voice assistant account. Common voice commands include:

- "Alexa, open the curtains."

- "Hey Google, close the living room curtains."
- "Alexa, set curtains to 50%."



*Image: A user interacting with a voice assistant to control the smart curtains.*

### 3. Remote Control

If your set includes a remote control, you can use it for direct operation of the curtains. Follow the remote's specific pairing instructions if necessary.

### 4. Manual Operation

The motor also allows for manual adjustment of curtains by gently pulling them. The motor will detect the movement and assist in opening or closing.

## Maintenance

To ensure the longevity and optimal performance of your Blindsmart Smart Curtain Motor, follow these maintenance guidelines:

- **Cleaning:** Wipe the motor unit with a soft, dry cloth. Do not use abrasive cleaners or immerse in water.

- **Battery Charging:** Recharge the motor when the battery level is low, as indicated by the app or a status light on the device.
- **Solar Panel (Optional):** If using a solar panel, ensure it is clean and positioned to receive maximum sunlight for continuous charging.

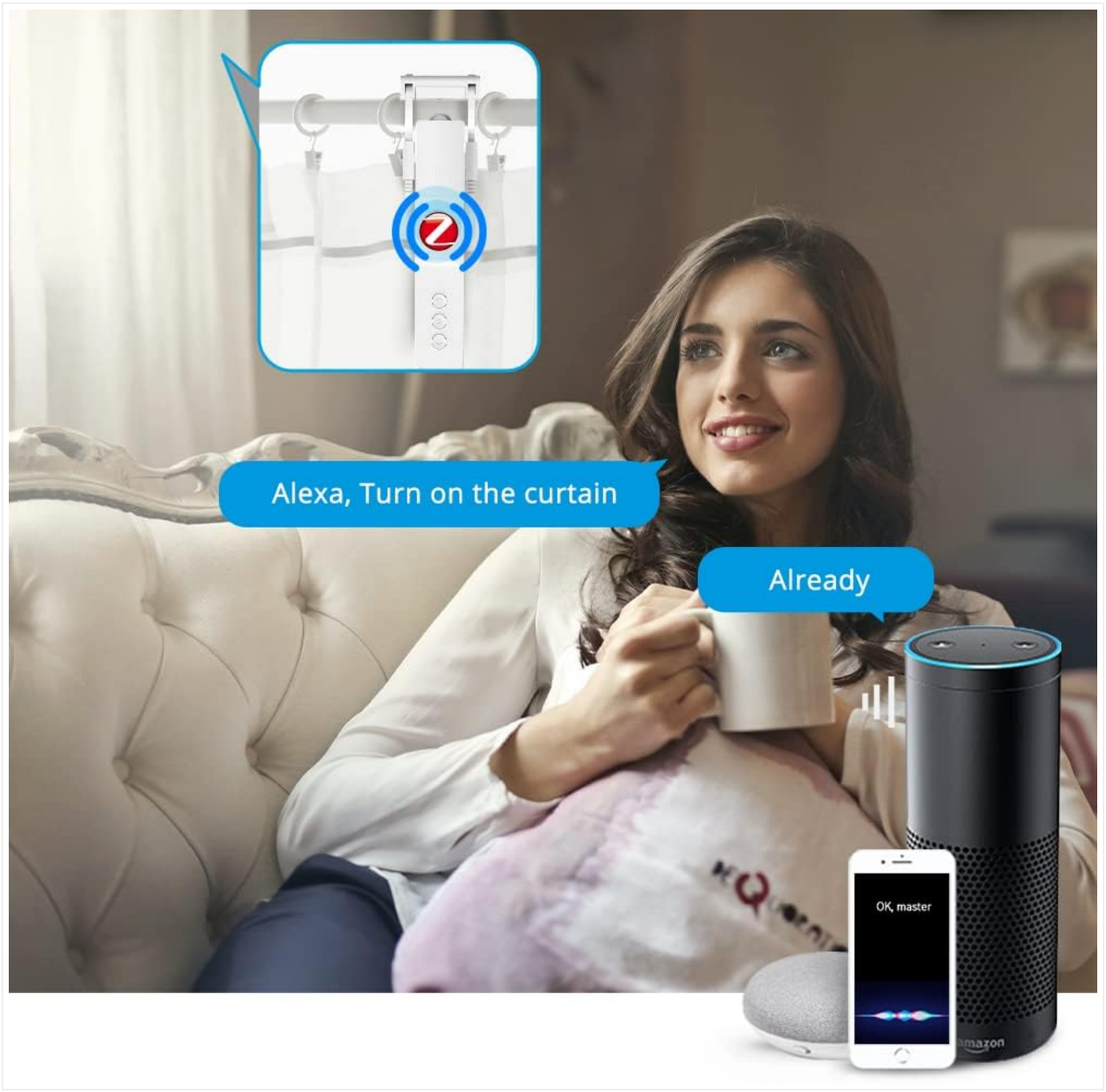



*Image: Smart curtain motor operating with an optional solar panel.*

## Troubleshooting

If you encounter issues with your Smart Curtain Motor, refer to the following common problems and solutions:

| Problem | Possible Cause | Solution |
|---|---|---|
| Motor not responding | Low battery, not paired, hub offline | Charge motor, re-pair with hub, check hub connection |
| Curtains not opening/closing fully | Limits not set correctly, obstruction | Reset and re-set limits, check for obstructions on track |

| Problem | Possible Cause | Solution |
|---|---|---|
| Voice control not working | Hub not linked to voice assistant, incorrect commands | Verify hub-voice assistant link, use correct commands |
| Motor making unusual noise | Track obstruction, motor misalignment | Check track for debris, ensure motor is securely mounted |

If the problem persists, please contact Blindsmart customer support.

## Specifications

| Feature | Detail |
|---|---|
| Product Name | Zigbee Curtain Driver |
| Model | 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 (rechargeable) |
| Max Load | Up to 20 pounds (approx. 10 kg) |
| Operation Temperature | -5°C to 50°C |
| Working Humidity | No condensation |
| Support System | Android 5.0 or iOS 12.0 and above |
| Connectivity | Tuya Zigbee (requires hub) |
| Compatibility | Alexa, Google Assistant |

## Warranty and Support

Blindsmart products are designed for reliability and performance. For warranty information, technical support, or to purchase additional accessories, please visit the official Blindsmart store or contact customer service.
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