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iBlinds Window Blind Controller IB2.0 Manual

Contents

iBlinds

Window Blind Controller

SKU: IB2.0

Quickstart

This is a

Window Covering – Endpoint Aware
for
U.S. / **Canada** / **Mexico**.

Please make sure the internal battery is fully charged.

To add this device to your network execute the following action:
Follow the directions for your Z-Wave hub/controller to place it in the add for inclusion mode. Press the inclusion button once and wait for the device to be discovered and joined to the Z-Wave network.Follow the directions of your Z-Wave controller to uniquely identify your iblinds device. (Ex: Bedroom iblind)Note: If the device is not joined to the network.Press the CLBR button Wait 1 minutes and repeat steps 1 and 2 again.If you continue to have trouble joining the iblinds motor to the Z-Wave network follow the Z-Wave network Exclusion process below.

Please refer to the
Manufacturers Manual for more information.

Important safety information

Please read this manual carefully. Failure to follow the recommendations in this manual may be dangerous or may violate the law.
The manufacturer, importer, distributor and seller shall not be liable for any loss or damage resulting from failure to comply with the instructions in this manual or any other material.
Use this equipment only for its intended purpose. Follow the disposal instructions.

Do not dispose of electronic equipment or batteries in a fire or near open heat sources.

What is Z-Wave?

Z-Wave is the international wireless protocol for communication in the Smart Home. This device is suited for use in the region mentioned in the Quickstart section.

Z-Wave ensures a reliable communication by reconfirming every message (**two-way communication**) and every mains powered node can act as a repeater for other nodes (**meshed network**) in case the receiver is not in direct wireless range of the transmitter.

This device and every other certified Z-Wave device can be **used together with any other certified Z-Wave device regardless of brand and origin** as long as both are suited for the same frequency range.

If a device supports **secure communication** it will communicate with other devices secure as long as this device provides the same or a higher level of security. Otherwise it will automatically turn into a lower level of security to maintain backward compatibility.

For more information about Z-Wave technology, devices, white papers etc. please refer to www.z-wave.info.

Product Description

An intelligent Z-Wave blind motor that installs out of sight in existing Horizontal (2″ and 2 1/2″ slatted-style) blind headrails. Use iBlinds to tilt the slats open, closed or use the value slider for precise positioning of the slat tilt angle.

Prepare for Installation / Reset

Please read the user manual before installing the product.

In order to include (add) a Z-Wave device to a network it **must be in factory default state.** Please make sure to reset the device into factory default. You can do this by performing an Exclusion operation as described below in the manual. Every Z-Wave controller is able to perform this operation however it is recommended to use the primary controller of the previous network to make sure the very device is excluded properly from this network.

Reset to factory default

This device also allows to be reset without any involvement of a Z-Wave controller. This procedure should only be used when the primary controller is inoperable.

The Device Reset Locally function is used to reset the device to fatory defalut.The reset operation resets protocol data (HomeID, NodeID) as well as all application specific data to factory default values.vice Reset LocallyNOTE: Please only use this function when the primary controller is missing or inoperable! 1.Press the INC / EXC button 3Press the INC / EXC button 3 times within 5 seconds to enable the device reset function.2.Wait 30 Seconds Press CLBR buttonAfter device is reset wait 30 seconds and press the CLBR button to reboot the device and make it ready for Z-Wave Inclusion.

Inclusion/Exclusion

On factory default the device does not belong to any Z-Wave network. The device needs to be **added to an existing wireless network** to communicate with the devices of this network. This process is called **Inclusion**.

Devices can also be removed from a network. This process is called **Exclusion**. Both processes are initiated by the primary controller of the Z-Wave network. This controller is turned into exclusion respective inclusion mode. Inclusion and Exclusion is then performed doing a special manual action right on the device.

Inclusion

Follow the directions for your Z-Wave hub/controller to place it in the add for inclusion mode. Press the inclusion button once and wait for the device to be discovered and joined to the Z-Wave network.Follow the directions of your Z-Wave controller to uniquely identify your iblinds device. (Ex: Bedroom iblind)Note: If the device is not joined to the network.Press the CLBR button Wait 1 minutes and repeat steps 1 and 2 again.If you continue to have trouble joining the iblinds motor to the Z-Wave network follow the Z-Wave network Exclusion process below.

Exclusion

Follow the directions for your Z-Wave device to place it in the exclusion mode. Press the exclude button once and wait for the device to be removed from the Z-Wave network.

Quick trouble shooting

Here are a few hints for network installation if things dont work as expected.

1. Make sure a device is in factory reset state before including. In doubt exclude before include.

2. If inclusion still fails, check if both devices use the same frequency.

3. Remove all dead devices from associations. Otherwise you will see severe delays.

4. Never use sleeping battery devices without a central controller.
5. Dont poll FLIRS devices.
6. Make sure to have enough mains powered device to benefit from the meshing

Association – one device controls an other device

Z-Wave devices control other Z-Wave devices. The relationship between one device controlling another device is called association. In order to control a different device, the controlling device needs to maintain a list of devices that will receive controlling commands. These lists are called association groups and they are always related to certain events (e.g. button pressed, sensor triggers, …). In case the event happens all devices stored in the respective association group will receive the same wireless command wireless command, typically a 'Basic Set' Command.

Association Groups:

Group NumberMaximum NodesDescription

1	5	Z-Wave Plus Lifeline

Technical Data

Hardware Platform	ZM5202
Device Type	Window Covering – Endpoint Aware
Network Operation	Listening Sleeping Slave
Firmware Version	HW: 255 FW: 1.65
Z-Wave Version	6.61.00
Certification ID	ZC10-17075690
Z-Wave Product Id	0x0287.0x0003.0x000D
Window Covering Control Features	Automatic CalibrationEndpoint AwarePosition AwareSupports Horizontal Blinds/LouversSupports Open/Close MotionSupports Tilt Motion
Color	Black
Frequency	XXfrequency
Maximum transmission power	XXantenna

Supported Command Classes

- Association Grp Info V2
- Association V2
- Basic V2
- Battery
- Device Reset Locally
- Manufacturer Specific V2
- Powerlevel

- Switch Binary V2
- Switch Multilevel V4
- Version V2
- Zwaveplus Info V2

Explanation of Z-Wave specific terms

- **Controller** — is a Z-Wave device with capabilities to manage the network.
  Controllers are typically Gateways,Remote Controls or battery operated wall controllers.
- **Slave** — is a Z-Wave device without capabilities to manage the network.
  Slaves can be sensors, actuators and even remote controls.
- **Primary Controller** — is the central organizer of the network. It must be
  a controller. There can be only one primary controller in a Z-Wave network.
- **Inclusion** — is the process of adding new Z-Wave devices into a network.
- **Exclusion** — is the process of removing Z-Wave devices from the network.
- **Association** — is a control relationship between a controlling device and
  a controlled device.
- **Wakeup Notification** — is a special wireless message issued by a Z-Wave
  device to announces that is able to communicate.
- **Node Information Frame** — is a special wireless message issued by a
  Z-Wave device to announce its capabilities and functions.