



正面

### 3-Way Z-Wave Smart Dimmer Switch

ZK531

switch x1    wiring x1    screws x2

#### WAVE 2-WAVE INTEROPERABILITY

This product can be used with 2-Wave network with other 2-Wave certified devices from other manufacturers and/or other specific sites. All non battery operated nodes within the network will act as repeaters regardless of vendor to increase the reliability of the network. This device supports 2-Wave interoperability group 1 supporting nodes to be added to the network. This device is not certified for 2-Wave interoperability group 2. Group 1 must be assigned the Node-ID of the primary controller where used. Node-ID specifications will be used. The 2-Wave controller should set this association automatically after installation.

1. Home association only supports the "Device Reset Locally" function. Refer to the instructions of your controller for any available details on how this function works.

#### Contents

Component	Description	Quantity	Description
Part 1: Introduction	• Product introduction • Installation steps • Wiring instructions	1	Function description • LED indicator function • LED indicator • Auto Turn-On Time • Remote control power failure • Dimmer speed (ON/OFF Control) • Dimmer speed (ON/OFF Control) • Multi-level dimmer: value can be set • Multi-level maximum: value can be set • Association Group • Dimmer Speed-Press function • Association Group
Part 2: Wiring Diagram	• Adding Device To Z-Wave Network • To Remove The Device • To Restore The Device To Factory Defaults • Association Group	1	
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#### Part 1. Introduction

##### Basic Operation

- The connected light can be turned ON/OFF in two ways
- Manual: Push of the smart switch
- Remote: Push of the remote control

##### Manual Control

- Push the button above the power for Turn ON/OFF the connected fixture

##### Model P231

Power: 150W, 200V  
Frequency: 50/60Hz  
Maximum Load: 150W, 200V max load  
150W max load with 100% dimming  
Minimum Load: 10W (10W)  
Temperature Range: 0°C (32°F) to 40°C (104°F)

**For Indoor use.**  
Specifications subject to change without notice.  
See accompanying manual for more information.

##### A Few Quick Reminders

Always follow the wiring schematic. Please do not try installing this device if you are unsure of how electrical circuits operate with or without power. As working on a circuit can be a safety hazard, it can be dangerous and even life-threatening if you do not understand the concepts. Please consult a qualified electrician with that said. Also, please always wear safety goggles and use proper safety gear.

##### HOW TO INSTALL THE WIRES

- Strip the wires to the correct length.
- Insert the wires into the terminals.
- Push down the screw cover to lock the wires in place.
- Repeat the steps for all other wires.

##### Note before installation

- The 2-Wave to-well Smart Switch must not exceed 150W LED, 200W incandescent.
- Work with regular 3-way switch/2 locations control. It cannot be connected with regular 3-way switch/switch. **Don't use a smart switch or a dimmer switch. Can't work with an add-on switch!**
- The color of your wires may not match the wires in our diagrams to please make sure you've **identified all wires correctly** based on their color, not color only.
- Repeat check your original 3-way wiring circuit in your home before installation, and then follow the wiring diagram option 1 or 2 in the manual.
- Install the smart switch in the switch box which directly connects to the power Line and Neutral.
- This switch requires a Neutral for installation, or the installation will not succeed.
- Not recommended for fan.

#### Part 2. Wiring Diagram

##### Single-pole wiring

1. Turn off power to the switch.
2. Remove the wallplate.
3. Disconnect the wires and label them after remove the old switch (Please refer to the old switch).
4. Carefully remove the switch from the switch box. (DO NOT disconnect the wires.)
5. There are 4 or 5 wires terminals on the smart switch, there are marked (Please check HOW TO INSTALL THE WIRES).
6. Fix the wallplate with screws after wiring succeed. (Please see our manual.)
7. The Ground was excluded from the diagram to simplify the illustration. Please make sure all ground wires are connected by all switches respectively.

##### 3-Way switch option 1

##### 3-Way switch option 2

#### Part 3. Network Configuration

##### Factory Reset (To Remove Factory Defaults)

1. Press the button on the switch 5 times quickly.
2. The LED indicator will flash red for 5 seconds.

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#### Part 4. Manual Control

##### Control Scenes

All functions support set control scene function.

KEY DIRECTION	NUMBER
UP	1
DOWN	2
LEFT	3
RIGHT	4
	5

##### Indicator and Exclusion:

- Indicator: BLUE led will flash.
- Indicator: RED led will flash.
- Success: GREEN led indicator flashes for 3 seconds.
- Failure: RED led indicator flashes for 3 seconds.

##### Factory reset:

Press the knob twice and hold for 10 seconds (Up + Tap) = Press and hold for 10 seconds to reset the device.

- Indicator: RED led will flash and then the GREEN led will be solid for 3 seconds.

#### Part 5. Parameter Settings

##### Factory Default

Parameter	Value
Indicator	Blue
Indicator	Red
Indicator	Green
Indicator	Yellow
Indicator	Purple
Indicator	Pink
Indicator	White
Indicator	Black
Indicator	Grey
Indicator	Light Blue
Indicator	Light Green
Indicator	Light Yellow
Indicator	Light Purple
Indicator	Light Pink
Indicator	Light Grey
Indicator	Light Blue
Indicator	Light Green
Indicator	Light Yellow
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#### Part 6. Troubleshooting

Possible Problem	Possible Cause	Solution
1. The connected LED is flashed brighter when set to the Minimum Brightness level.	LED brightness minimum setting is incorrect.	Please set the minimum brightness level according to the manual.
2. Couldn't pair with hub/your hub cannot recognize the device.	The device needs to be reinitiated before pairing.	Please reset the device according to the manual.
3. The device couldn't turn lights on/off manually.	Wiring error.	Please check the wiring diagram on the manual.
4. The smart switch is working and the 3-way switch does not.	3-way wiring error.	Please check the wiring diagram on the manual.