



ZW313 Paddle Dimmer Switch Manual

Federal Communications Commission (FCC) Statement

FCC Caution: Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures: Reorient or relocate the receiving antenna. Increase the separation between the equipment and receiver. Connect the equipment into an outlet on a circuit different from that to which the receiver is connected. Consult the dealer or an experienced radio/TV technician for help. This equipment should be installed and operated with minimum distance 20cm between the radiator and your body.

IC Caution:

This device complies with Industry Canada licence-exempt RSS standard(s). Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

DECLARATION DE CONFORMITE D'INDUSTRIE CANADA

Ce périphérique a été testé et reconnu conforme aux limites spécifiées dans RSS-210.

Son utilisation est soumise aux deux conditions suivantes :

- (1) il ne doit pas provoquer d'interférences gênantes et
- (2) il doit tolérer les interférences reçues, notamment celles susceptibles d'en perturber le fonctionnement.



ZW313 Paddle Dimmer Switch

WARRANTY

Evalogik Products warrants this product to be free from manufacturing defects for a period of two years from the original date of consumer purchase. This warranty is limited to the repair or replacement of this product only and does not extend to consequential or incidental damage to other products that may be used with this product.

This warranty is in lieu of all other warranties, expressed or implied. Some states do not allow limitations on how long an implied warranty lasts or permit the exclusion or limitation of incidental or consequential damage, so the above limitations may not apply to you.

This warranty gives you specific rights, and you may also have other rights which vary from state to state. If the unit should prove defective within the warranty period.

SPECIFICATIONS

Model: ZW313

Power: 120 VAC, 60 Hz.

Signal (Frequency): 908.42 MHz.

Maximum Loads: 300W, 2-gang 200W or 3-gang

300W incandescent, 100W CFL/LED

Range: Up to 100 feet line of sight between the Wireless Controller and the closest Z-Wave receiver module.

Operating Temperature Range: 32-104° F (0-40° C)

For Outdoor use

Specifications subject to change without notice due to continuing product improvement

Website: www.ishowlights.com

WARNING

RISK OF FIRE

RISK OF ELECTRICAL SHOCK

RISK OF BURNS

CONTROLLING APPLIANCES:

EXERCISE EXTREME CAUTION WHEN USING Z-Wave DEVICES TO CONTROL APPLIANCES. OPERATION OF THE Z-Wave DEVICE MAY BE IN A DIFFERENT ROOM THAN THE CONTROLLED APPLIANCE, ALSO AN UNINTENTIONAL ACTIVATION MAY OCCUR IF THE WRONG BUTTON ON THE REMOTE IS PRESSED. Z-Wave DEVICES MAY AUTOMATICALLY BE POWERED ON DUE TO TIMED EVENT PROGRAMMING. DEPENDING UPON THE APPLIANCE, THESE UNATTENDED OR UNINTENTIONAL OPERATIONS COULD POSSIBLY RESULT IN A HAZARDOUS CONDITION. FOR THESE REASONS, WE RECOMMEND DO NOT RETURN THIS PRODUCT TO THE STORE THE FOLLOWING:

DO NOT USE Z-Wave DEVICES TO CONTROL ELECTRIC HEATERS OR ANY OTHER APPLIANCES WHICH MAY PRESENT A HAZARDOUS CONDITION DUE TO UNATTENDED OR UNINTENTIONAL OR AUTOMATIC POWER ON CONTROL.

Introduction:

This product can be operated in any Z-Wave network with other Z-Wave certified devices from other manufacturers. All non-battery operated nodes within the network will act as repeaters regardless of vendor to increase reliability of the network. Each module is designed to act as a repeater, which will re-transmit a radio frequency (RF) signal by routing the signal around obstacles and radio dead spots to ensure that the signal is received at its intended destination. ZW313 is a security enabled Z-Wave plus device. A security Enabled Z-Wave Plus Controller must be used in order to fully utilize the product. The Device Type of the ZW313 is on/off power switch.

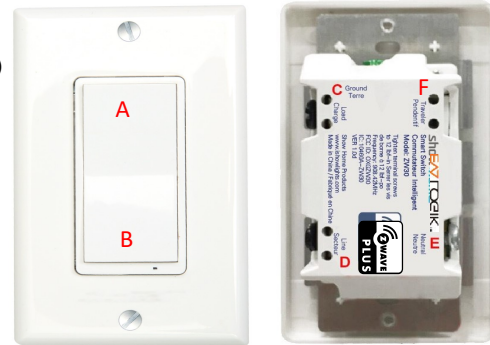
The Role Type of the ZW313 is Always On Slave Role Type

Key Features:

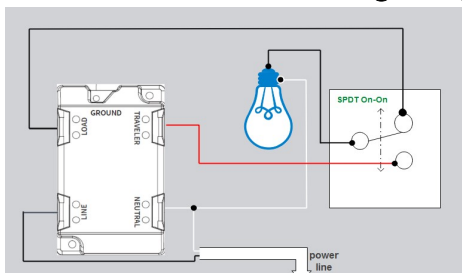
- Remote ON/OFF control via the Z-Wave controller
- Manual ON/OFF control with the front panel push button
- Support Association Group and Auto Report switch status
- Support firmware upgrades via Over-the-air (need Gateways support)
- Support Scenes

Product Overview:

- A. Up Push button
- B. Down Push button
- C. Load1 (Black)
- D. Lin (Black) - Line in
- E. Nin (White) - Nutral in
- F. Load2 (Black)



ZW313 Installation Wiring Diagram



Key function description

- Function 1: Press the up or down button to turn the output ON or OFF
- Function 2: Hold Dimmer Up or Dimmer Down
- Function 3: Press the up or down button three times quickly to ADD and REMOVE
- Function 4: Press the up or down button six times quickly to change Status LED Configuration
- Function 5: When switch is off and quickly press UPPER paddle 2 times, switch turns on to 100% brightness
- Function 6: Press click Z-Wave button 2 times quickly, and hold for at least 10 seconds. to restore the device to the factory
(Node: Please use this procedure only when the network primary controller is missing or otherwise inoperable.)
- Function 7: Tap A (1x/2x/3x/4x/5x/Hold/Release) Activate the scene.
- Function 8: Tap B (1x/2x/3x/4x/5x/Hold/Release) Activate the scene.

Led Indicate Function

- 1: Flash three times
When configuration parameter succeed LED flash three times
- 2: quickly flash
When inclusion or exclusion or reset, LED will quickly flash till operate complete

Z-Wave Remote Control

ADD or Remove the ZW313 from the existing Z-Wave home control network with your primary controller.

---Refer to your primary controller instructions to process the inclusion / exclusion setup procedure.

---When prompted by your primary controller, click the Up or Down button three times in one second.

Include ZW313 to/from a Z-Wave Gateway with supporting Security. The ZW313 can support the Primary Controller that implemented the security S2
Notice: Including a node ID allocated by Z-Wave™ Controller means "Add" or "Inclusion". Excluding a node ID allocated by Z-Wave™ Controller means "Remove" or "Exclusion".

Z-Wave protocol Command Class Node Info

```
COMMAND_CLASS_ZWAVEPLUS_INFO,  
COMMAND_CLASS_SWITCH_MULTILEVEL,  
COMMAND_CLASS_ASSOCIATION,  
COMMAND_CLASS_MULTI_CHANNEL_ASSOCIATION_V3,  
COMMAND_CLASS_ASSOCIATION_GRP_INFO,  
COMMAND_CLASS_TRANSPORT_SERVICE_V2,  
COMMAND_CLASS_VERSION,  
COMMAND_CLASS_MANUFACTURER_SPECIFIC,  
COMMAND_CLASS_DEVICE_RESET_LOCALLY,  
COMMAND_CLASS_POWERLEVEL,  
COMMAND_CLASS_CONFIGURATION,  
COMMAND_CLASS_CENTRAL_SCENE_V3,
```

COMMAND_CLASS_SECURITY_2,
COMMAND_CLASS_SUPERVISION
COMMAND_CLASS_FIRMWARE_UPDATE_MD_V4

The Below listed Command Class are all supported the Security S2

COMMAND_CLASS_VERSION,
COMMAND_CLASS_SWITCH_MULTILEVEL,
COMMAND_CLASS_ASSOCIATION,
COMMAND_CLASS_MULTI_CHANNEL_ASSOCIATION_V3,
COMMAND_CLASS_ASSOCIATION_GRP_INFO,
COMMAND_CLASS_MANUFACTURER_SPECIFIC,
COMMAND_CLASS_DEVICE_RESET_LOCALLY,
COMMAND_CLASS_POWERLEVEL,
COMMAND_CLASS_CONFIGURATION,
COMMAND_CLASS_CENTRAL_SCENE_V3
COMMAND_CLASS_FIRMWARE_UPDATE_MD_V4

Z-Wave Configuration Parameters

You may use the below configuration parameters to change settings of the corresponding functionality.

1: Locally Button function

Parameter No: 1(0x01) Size:1 Byte Value: 00(default) Up Button ON,Down Button OFF
Value: 01 Up Button OFF,Down Button ON
Value: 02 Up Button ON/OFF,Down Button ON/OFF

2 : Status LED Configuration

Parameter No: 2(0x02) Size:1 Byte Value: 00(default) Output ON,Led OFF.
Value: 01 OutputOFF,Led ON.
Value: 02 Always OFF
Value: 03 Always ON

3: Enable Auto Turn-OFF Timer

Parameter=3, Size=1, Value=0 Auto Turn-OFF Timer Disabled (default);
Value=1 Auto Turn-OFF Timer Enabled

4: Auto Turn-Off Timer

Parameter No: 4(0x04) Size:4 Byte Value: xx xx Turn off Output
Value Scope :1----65535Minutes (default:60)

5: Enable Auto Turn-ON Timer

Parameter=5, Size=1, Value=0 Auto Turn-ON Timer Disabled (default);
Value=1 Auto Turn-ON Timer Enabled

6: Auto Turn-ON Timer

Parameter No: 6(0x06) Size:4 Byte Value: xx xx Turn ON Output
Value Scope :1----65535Minutes (default:60)

7 : Association Setting Parameter

Parameter No: 7(0x07) Size:1 Byte Value: 00 None Value: 01 Local
Value: 02 3-way Value: 03 3-way&Local
Value: 04 Z-Wave hub Value: 05 Z-Wave hub&Local
Value: 06 Z-Wave hub&3-way Value: 07 Z-Wave hub&Local&3-way
Value: 08 Timer Value: 09 Timer&Local
Value: 10 Timer&3-way Value: 11 Timer&3-way&Local
Value: 12 Timer&Z-Wave hub Value: 13 Timer&Z-Wave hub&Local
Value: 14 Timer&Z-Wave hub&3-way Value: 15 All(Default)

8 : Restores state after power failure

Parameter No: 8(0x08) Size:1 Byte Value: 00 Output OFF.
Value: 01 Output ON.
Value: 02 (default) The state before a power outage.

9 : Dimmer Speed Parameter

Parameter No: 9(0x09) Size:1 Byte Value: 01(default) from 0x63 to 0x00 or from 0x00 to 0x63 need 1s
Value: 02 from 0x63 to 0x00 or from 0x00 to 0x63 need 2s
.....
Value: 99 from 0x63 to 0x00 or from 0x00 to 0x63 need 99s

10 : Multilevel minimum value can be set (The minimum luminance value of the dimming)

Parameter No: 10(0x0A) Size:1 Byte Value: 00
Value: 01 (default)
.....
Value: 99

11 : Multilevel maxmum value can be set (The maxmum luminance value of the dimming)

Parameter No: 11(0x0B) Size:1 Byte Value: 00
Value: 01
.....
Value: 99 (default)

12 : when switch is off and quickly press UPPER paddle 2 times, switch turns on to x brightness

Parameter No: 12(0x0C) Size:1 Byte Value: 00 Turn ON to 99 (default)

Value: 01 turn on to the value relate with parameter 11

Notice:when parameter 12 value is 0,the parameter 11 can not be set , and the value always is 0

14: Double Tap Behavior

Parameter No: 14(0x0E) , Size=1 , Default =0

Value=0 enable double tap to full brightness (or max/custom brightness set in Par11/Par12), single tap to last brightness level

Value=1 disable double tap to full brightness, single tap to last brightness level

Value=2 disable double tap to full brightness, single tap always to full brightness (or max/custom brightness set in Par11/Par12)

15: Enable or Disable local control (similar to what Inovelli had in their switches)

Parameter No: 15(0x0F) , Size=1 , Default = 1

Value=0 disable (when paddle pressed switch will not turn light on or off BUT it will still control the light via z-wave and it will change LED indicator status depending if light is turned on or turned off)

Value=1 enable (normal operation like now)

Support for Association Groups

ZW313 supports 2 association groups. Group 1 support 1 node ID,Group 2 Support maximum of 5 node ID's

Association group_1:Z-Wave Plus Lifeline

Association group_1 is default to associate with the primary controller (Gateway/Hub/Controller) for ZW313 Status change report,

1. ZW313 will trigger AUTO report function if the Switch status had been changed.

Association group_2:basic set command

When the output of the ZW313 is changed, On (0xFF) or Off (0x00). The ZW313 will automatically send out a related basic set command. On (0xFF) or Off (0x00) to its associated group.

Restoring Factory Defaults

ZW313 is removed from the network and will be restored to the factory setting

All Configuration Parameters values and Association information will be restored to factory default settings and excluded from the network.

Remark : All the setting and data will be permanently deleted.

Please use this procedure only when the network primary controller is missing or otherwise inoperable.