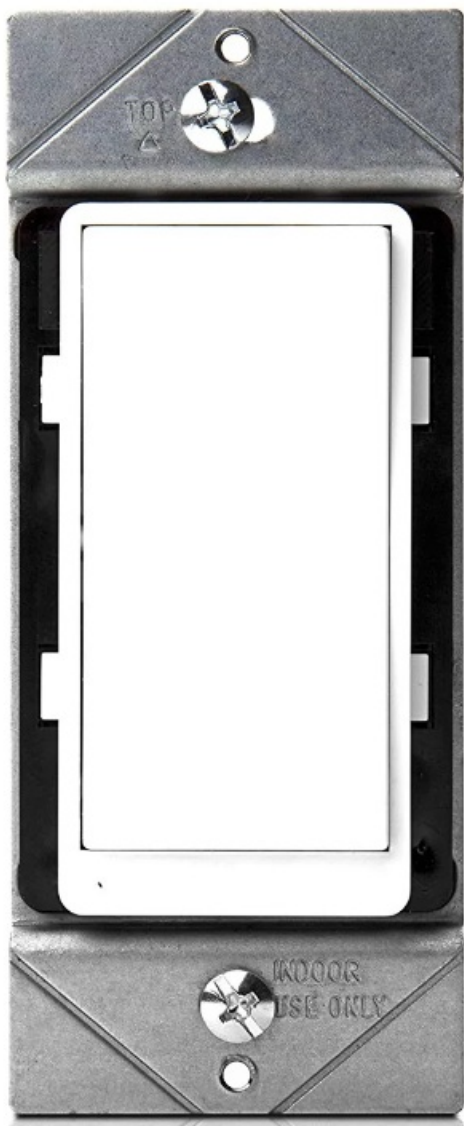




# ENERWAVE ZW15S-N Upgrading Standard 3 Way Switches To Z Wave Instruction Manual

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ENERWAVE ZW15S-N Upgrading Standard 3 Way Switches To Z Wave



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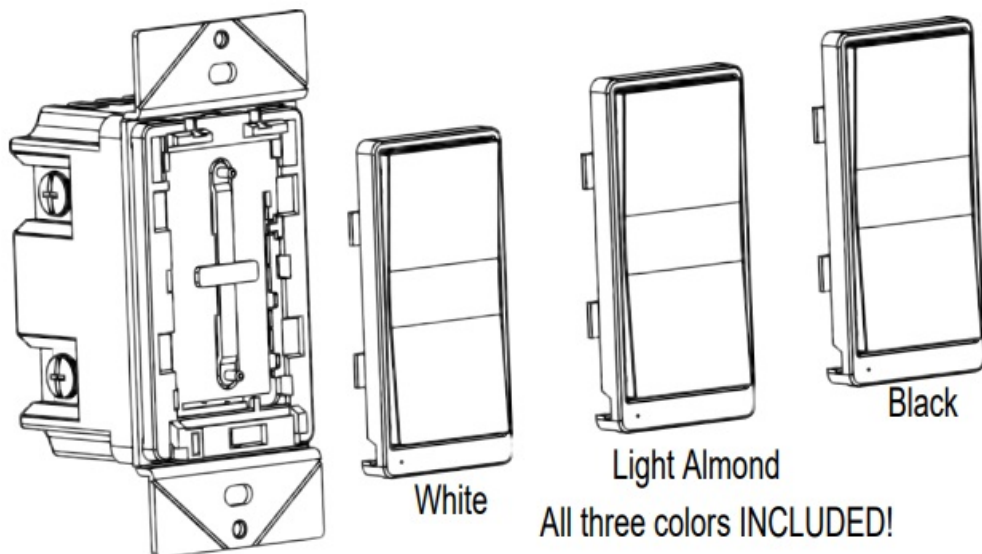
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## DESCRIPTION

The ZW3K-N 3-Way Control Auxiliary Switch is a companion device designed to work with the on/off switch ZW15S-N and dimmer switch ZW500D-N. Alone the ZW15S-N and ZW500D-N are Single Pole Switches, but the ZW3K-N will enable the 3-wayswitching capability. This Z-Wave auxiliary switch does not need to be connected to the controller, but it must be used with a ZW15S-N or ZW500D-N. Use this ZW3K-N 3-Way Auxiliary Switch to reduce energy consumption and provide more convenience to you and your family.

## FEATURES

- Ideal use of 3-Ways are in staircases, hallways, and rooms with multiple entrances.
- Follow the Retrofit Wiring Diagram to convert existing 3-Way wiring or follow the New Construction Wiring diagram for the easiest wiring method for these switches.
- Several ZW3K-N switches may be added to 1 circuit to allow for manual lighting control in multiple locations.



## REQUIREMENTS

Z-Wave devices requires a connection to a compatible hub. Once the device is properly added to the Hub, it can be managed and customized to your needs. Since the ZW3K-N is like a momentary switch, it does not require a connection with the Hub. However, the ZW3K-N needs to be hard wired to the main switch ZW15S-N or ZW500D-N. Please visit [www.enerwaveautomation.com](http://www.enerwaveautomation.com) for a list of compatible hubs.

## OPERATING THE ZW3K-N

Once the ZW15S-N or ZW500D-N is configured with the ZW3K-N, the ZW3K-N will mirror all the functions of the ZW15S-N or ZW500D-N. Please refer to the ZW15S-N or ZW500D-N manuals for operating instructions.

### **WARNING: Turn the POWER OFF at the circuit breaker before installing the Auxiliary Switch**

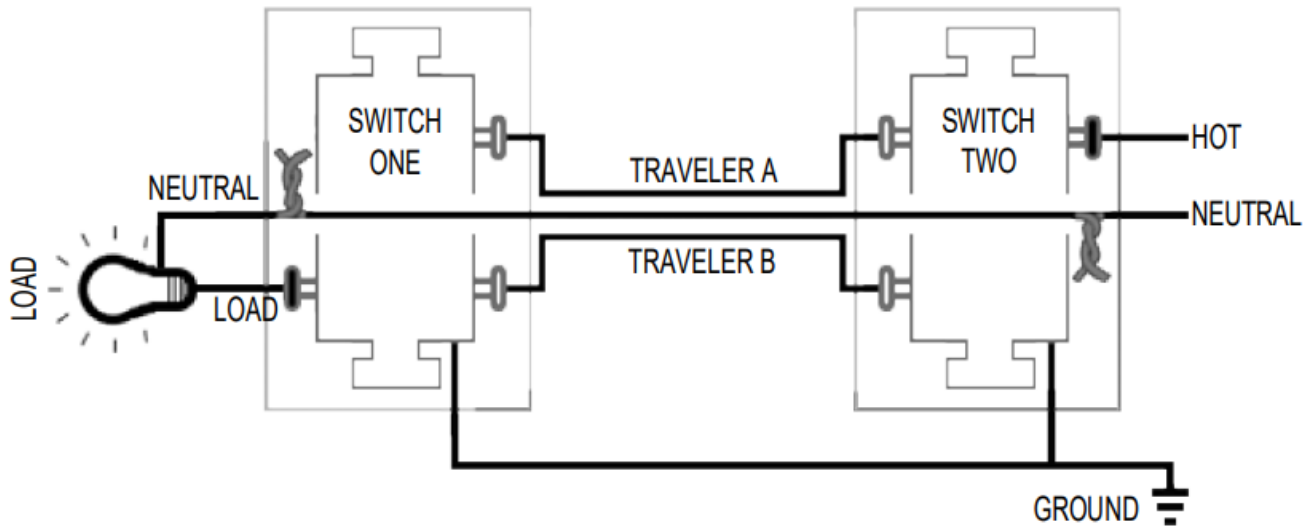
Read and understand these instructions before installing. This device is intended for installation in accordance with the National Electric Code and local regulations. It is recommended that a qualified electrician performs this installation. Make sure to turn off the circuit breaker or fuse(s) and make sure power is off before wiring the device. 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 so an unintentional activation may occur if the wrong button on the remote is pressed. Z-Wave devices can be automatically powered on by programmed events. Unattended or unintentional operation could result in hazardous conditions. Z-Wave enabled devices should never be used to supply power to, control or monitor medical and/or life support equipment. The ZW3K-N is NOT a switch on it's own, but is used to enable the 3-way function on the ZW15S or ZW500D-N. For use with incandescent, halogen, dimmable CFL and LED lights. Use copper wires only.

### **REPLACING EXISTING SWITCHES WITH ZW3K-N AND EITHER ZW15S-N OR ZW500D-N**

The term "3-way circuit" refers to a circuit with two switches and one load (light) like you find at the top and bottom of a stairway. There are many ways to physically wire a 3-way circuit so it is important to understand how the circuit is wired before performing the upgrade to a Z-Wave control.

DIAGRAM 1 illustrates a common 3-way circuit. In Diagram 1 and Diagram 2, SWITCH ONE is replaced with the ZW3K-N and SWITCH TWO is replaced with the ZW15S-N or ZW500D-N. The auxiliary switch (ZW3K-N) does not actually control the power; instead, it sends a momentary voltage signal through the traveler wire to the primary switch (ZW15S-N or ZW500D-N) which in turn, controls the power to the load.

## COMMON 3-WAY WIRING DIAGRAM 1



If you have trouble identifying the wires, STOP and consult with an electrician.

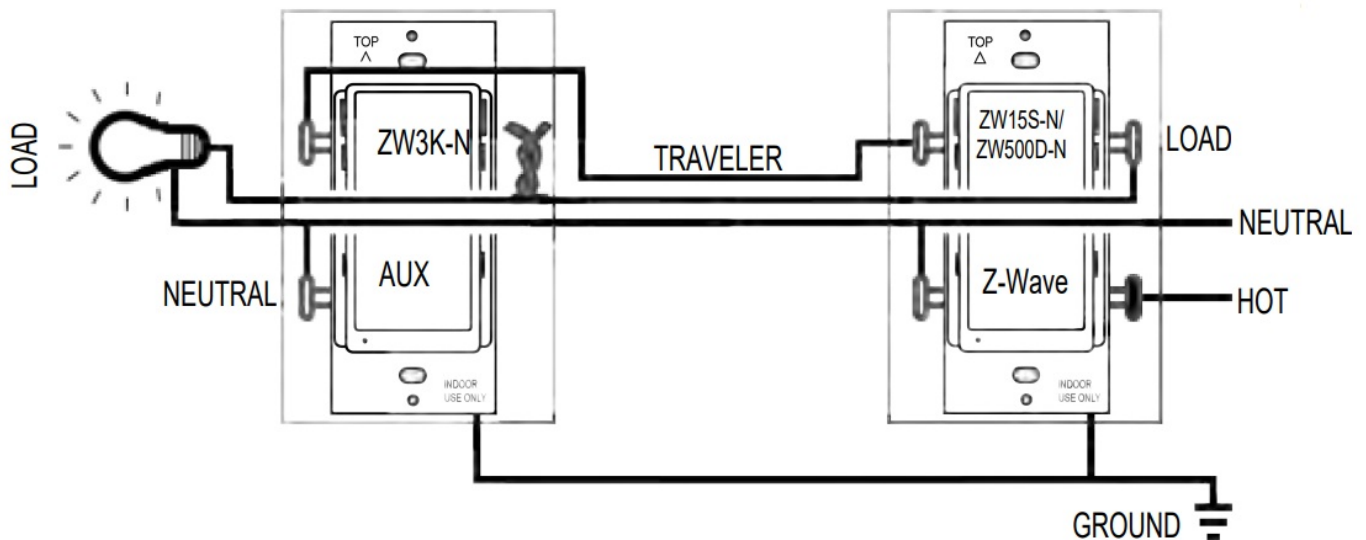
### DO NOT REVERSE THE HOT AND TRAVELER WIRES.

DOING SO WILL VOID YOUR WARRANTY AND THE SWITCH WILL SHORT CIRCUIT.

**Step 1.** Identify all your wires (DIAGRAM 1). Label the wires or draw a diagram of existing wires.

**Step 2.** Convert the TRAVELER B wire to the LOAD wire. To do so, Take the LOAD wire and TRAVELER B wires off SWITCH 1 and connect them together with a wire nut (DIAGRAM 2).

## RETROFIT WIRING DIAGRAM 2



**Step 3.** Connect the other end of the TRAVELER B wire to the LOAD terminal on ZW15S-N/ZW500D-N.

**Step 4.** Connect the NEUTRAL wire to the NEUTRAL terminals on both switches.

**Step 5.** Connect the TRAVELER A wire to the TRAVELER terminals on both switches.

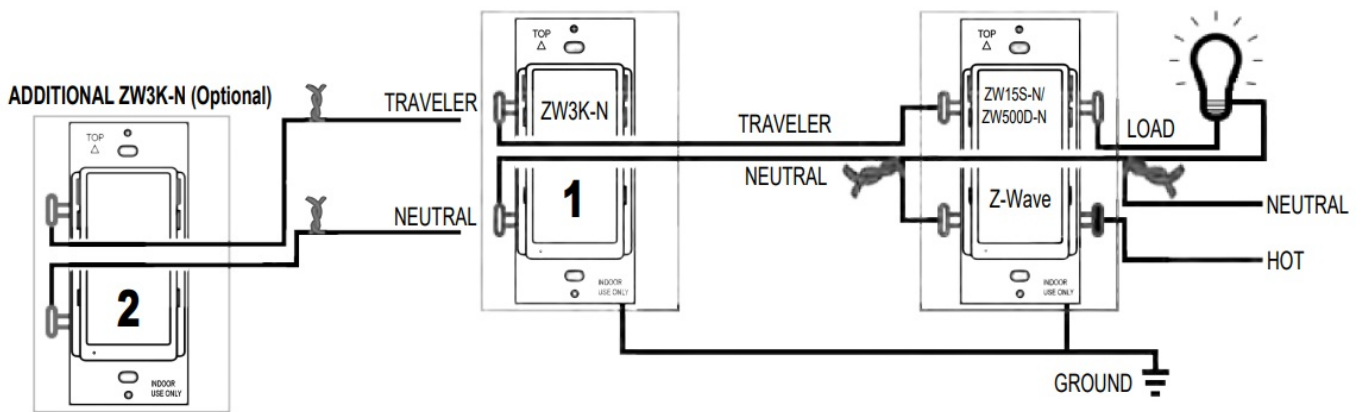
**Step 6.** Connect the HOT wire to the HOT terminal on the ZW15S-N/ ZW500D-N.

**Step 7.** Connect the GROUND wire to the GROUND terminals on both switches.

## NEW CONSTRUCTION WIRING

If you are running new wires in a house specifically for the ZW3K-N and ZW15S-N/ZW500D-N, follow DIAGRAM 3 for the easiest wiring method. This method will require the LOAD, HOT, NEUTRAL, and GROUND wires to be installed in the wiring box where the ZW15S-N/ZW500D-N is located and a TRAVELER and NEUTRAL wire to be installed in the ZW3K-N box. Once the wires are installed, the devices should be connected as follow:

### NEW CONSTRUCTION WIRING DIAGRAM 3



- Step 1.** Connect the TRAVELER wire to the TRAVELER terminals on both devices.  
**Step 2.** Connect the NEUTRAL wire to the NEUTRAL terminals on both devices.  
**Step 3.** Connect the HOT wire to the HOT terminal on the ZW15S-N/ ZW500D-N.  
**Step 4.** Connect the LOAD wire to the LOAD terminal on the ZW15S-N/ZW500D-N.  
**Step 5.** Connect the GROUND wire to the GROUND terminals on both devices.

### MULTIPLE ZW3K-N

Additional ZW3K-N switches may be added for control over the same Load in multiple locations. Run additional TRAVELER and NEUTRAL lines to each location. These additional lines may be daisy chained from each location or centralized at 1 switch.

### WARRANTY INFORMATION

This device is warranted to be free of material and workmanship defects for 2 years from the date of purchase. Original receipt or proof of purchase from an authorized retailer must be presented upon warranty claim. ALL claims must be verified and approved by Enerwave, Inc. Warranties from other Enerwave products may vary. This warranty is nontransferable and does not cover normal wear and tear or any malfunction, failure, or defect resulting from misuse, abuse, neglect, alteration, modification, or improper installation. To the fullest extent permitted by the applicable state law, Enerwave shall not be liable to the purchaser or end user customer of Enerwave products for direct, indirect, incidental, or consequential damages even if Enerwave has been advised of the possibility of such damages. Enerwave' total liability under this or any other warranty, express or implied, is limited to repair, replacement or refund. Repair, replacement or refund are the sole and exclusive remedies for breach of warranty or any other legal theory.

### CUSTOMER SUPPORT

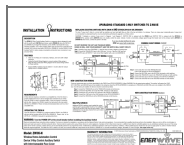
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● [WWW.ENERWAVEAUTOMATION.COM](http://WWW.ENERWAVEAUTOMATION.COM)  
● CA, USA  
**Model:** ZW3K-N

Wireless Home Automation Control Device 3-Way Control Auxiliary Switch with Interchangeable Face Cover



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## Documents / Resources



[ENERWAVE ZW15S-N Upgrading Standard 3 Way Switches To Z Wave](#) [pdf] Instruction Manual

ZW15S-N Upgrading Standard 3 Way Switches To Z Wave, ZW15S-N, Upgrading Standard 3 Way Switches To Z Wave, 3 Way Switches To Z Wave, Switches To Z Wave

## References

-  [Manual-Hub.com – Free PDF manuals!](#)
- [User Manual](#)

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