

ZW305 Z-Wave In-Wall Switch

PLEASE READ FIRST!

This printed user guide includes only the bare essentials for installing and configuring the ZW305 switch. It does NOT contain information about advanced features, Z-Wave parameters and hub compatibility.



WARNING RISK OF FIRE | RISK OF ELECTRICAL SHOCK | RISK OF BURNS

DO NOT USE THIS SWITCH TO CONTROL ANYTHING THAT MAY PRESENT A HAZARD WHEN CONTROLLED REMOTELY OR USED IN AN UNATTENDED FASHION. DO NOT USE WITH MEDICAL AND LIFE SUPPORT INSTRUMENTS.

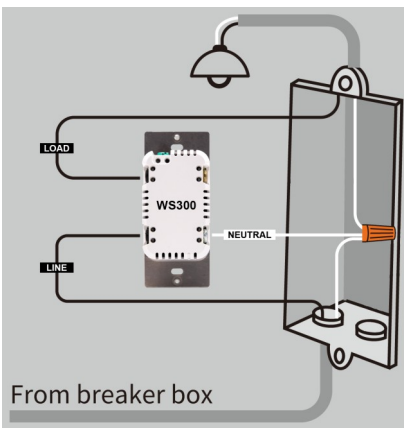
CAUTION: TO REDUCE THE RISK OF OVERHEATING AND POSSIBLE DAMAGE TO OTHER EQUIPMENT, DO NOT INSTALL TO CONTROL ANY LOAD THAT EXCEEDS THE MAXIMUM LOAD LISTED IN THE SPECIFICATIONS.

OVERVIEW

ZW305 is a Z-Wave in-wall light switch that operates as an on/off switch. It must be installed with a neutral wire and it works with conventional 3-way switches in 3-way circuit configurations.

CIRCUIT TYPES

ZW305 may be used with single pole (1-switch) circuits and multi-switch circuits, like the 3-way circuit shown below.



Single Pole Circuit

A single-pole circuit is the most basic and common type of light switch setup. It allows you to control a light or electrical device from just one location using one switch. The illustration at left (figure a) shows a ZW305 wired to control an overhead light.

Note: If present, the ground wire (not pictured) should be connected to the green terminal on the top of the ZW305.

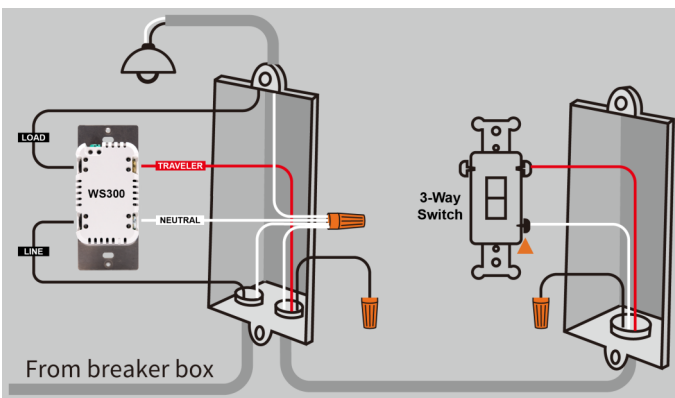
3-Way Circuit

A 3-way circuit is designed to control a light or device from two separate locations. This is useful in areas like staircases, hallways, or large rooms where it's convenient to operate the light from either end. While there are many ways to wire a 3-way circuit, the illustrations below show two common wiring configurations. In figure b, the load wires are present in the same (local) electrical box as the ZW305. In figure c, the load wires are present in the other (remote) electrical box with the standard 3-way switch.

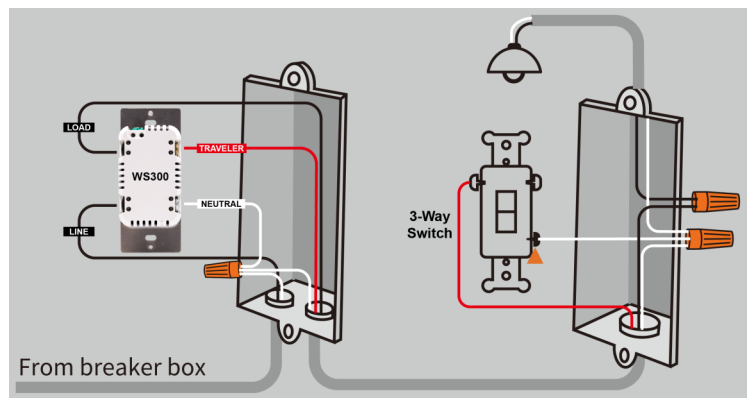
Note: If present, the ground wire (not pictured) should be connected to the green terminal on the top of the ZW305.

CAUTION: If your wiring differs from these configurations, you may need to use a multi-meter to identify the wires and determine the correct wiring configuration. **Always consult with a licensed electrician if you're not sure how to proceed!**

(a) Single Pole (1-Switch) Circuit



(b) 3-Way Circuit (Local Load)



(c) 3-Way Circuit (Remote Load)

INSTALLATION

Tools required: medium standard and Phillips head screwdrivers, wire strippers/cutters

1. Shut off power to the circuit at the circuit breaker or fuse box. **VERIFY power is OFF before continuing!**
2. Remove existing switch's wall plate and mounting screws. Carefully remove the existing switch from the electrical box but leave the wires connected.
3. There may be up to five wires connected to the existing switch. Make note of these wires and label, if necessary, to ensure correct installation of the ZW305. You will need to match these wires with the corresponding screw terminals on the ZW305.

Note: LINE, LOAD and NEUTRAL wires are required for every installation. Wires are usually color-coded for easy identification. However, colors can deviate from what's shown in the list below, depending upon the original installer. We recommend using a multi-meter to verify which wire is actually connected to power before wiring. In general, the colors follow the convention below.

- LINE (120 VAC) - Black (connected to power)
- NEUTRAL - White (this wire is often tied to other neutral wires and may require a jumper to connect with the ZW305)
- LOAD - Black (connected to load)
- GROUND — Green or Bare
- TRAVELER — Red/Other (only used in 3-way circuits)

4. Disconnect the wires from the existing switch and attach those wires to the ZW305 using the screw terminal connectors on the back with the following procedure:
 1. Strip 16 mm (5/8") insulation from each wire*.
 2. With a screw driver, loosen each screw terminal by rotating the screw counter-clockwise a few turns until resistance is felt.
 3. There are two holes on the back of the switch near each screw terminal. Insert the stripped wire into one of these holes and tighten the screw terminal to secure the connection. Connections should be snug.
 *all wires should be 14 AWG or larger rated at 80°C or higher. Tightening torque should be 12 lbf-in (14kgf-cm). **Use copper wire only.**
5. Carefully install the wired switch back into the electrical box and reattach the trim plate.

Z-WAVE INCLUSION or EXCLUSION

Follow this 2-step procedure to add (or remove) your new HomeSeer switch to (or from) your Z-Wave network:

1. Put your Z-Wave controller into inclusion (or exclusion) mode. Consult your controller's manual if you're unsure how to do this.
2. In rapid succession, tap the **bottom** paddle 2 times, then press & hold the bottom paddle for 3 seconds (tap-tap-press & hold). This will initiate the inclusion (or exclusion) process.

FACTORY RESET - To be used only in the event that the network primary controller is lost or otherwise inoperable.

1. In rapid succession, tap the **top** paddle 3 times, then tap the bottom paddle 3 times. If all LEDs flash magenta 3 times, factory reset was successful. If not, repeat this procedure.

Note: As this must be done very quickly, we recommend using 2 fingers for this operation; one on each paddle!

ASSOCIATION

This product supports Group 1 and Group 2 Associations with up to five Z-Wave devices per group. Group 1 supports Lifeline Communication, Group 2 supports Basic Set, refer to your controller manual for instructions on setting up these features.

OPERATION

Your new HomeSeer switch may be operated locally (by pressing the paddle) or remotely using a Z-Wave compatible hub or system

Local Control:

- Press (tap) the top of the paddle to power the load.
- Press (tap) the bottom of the paddle to cut power to the load.

Remote Control - On / Off control is available remotely. Consult your controller manual for details.

Z-Wave SmartStart

SmartStart enabled products can be added into a Z-Wave network by scanning the Z-Wave QR Code* with a controller providing SmartStart inclusion. No further action is required and the SmartStart product will be added automatically within 10 minutes of being switched on in the network vicinity.

***QR Code is located on the ZW305 metal yoke under the switch paddle.**

Interoperability: This product can be operated in any Z-Wave network with other Z-Wave certified devices from other manufacturers. All mains operated nodes within the network will act as repeaters regardless of vendor to increase reliability of the network

SPECIFICATIONS

Power	Requirements	125VAC / 60 Hz
Max Load	Resistive	15A (1875W)
	Incandescent	1250W
	Motor	1/2 HP
Z-Wave	Frequency	908.4/916 MHz (US/CAN)
	Range (up to)	200 feet (standard mesh network)
		1 mile (long range network)

Certifications ETL (US, Canada), FCC, Z-Wave Plus LR

WARRANTY

HomeSeer warrants to the original purchaser that this product, for the warranty period, will be free from material defects and workmanship. This warranty is subject to proper installation and operation of the product. HomeSeer's sole obligation, under this warranty, is to repair, replace or correct any defect that was present at the time of delivery. This warranty does not extend to consequential or incidental damage to other products that may be used with this product. Warranty claims must be submitted in writing directly to HomeSeer at HomeSeer.com. Warranty period: limited 2 years from date of purchase

FCC statements:

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.

Any Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

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 complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.