

HS-WD100+ Z-Wave Wall Dimmer

OVERVIEW

HS-WD100+ is a Z-Wave wall dimmer that's designed for wireless on-off-dim control of connected dimmable lighting loads. See HomeSeer.com/lighting for a complete list of features and applications.

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.

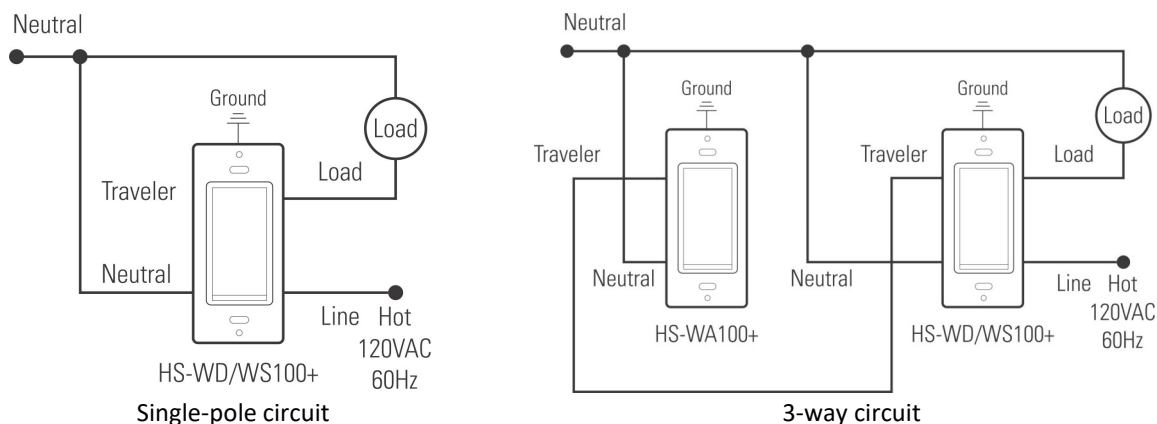
CAUTION: TO REDUCE THE RISK OF OVERHEATING AND POSSIBLE DAMAGE TO OTHER EQUIPMENT, DO NOT INSTALL TO CONTROL A RECEPTACLE, A MOTOR-OPERATED APPLIANCE, A FLUORESCENT LIGHTING FIXTURE, OR A TRANSFORMER-SUPPLIED APPLIANCE.

INSTALLATION

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

- Shut off power to the circuit at the circuit breaker or fuse box. **VERIFY power is OFF before continuing!**
- Remove existing switch's wall plate and mounting screws. Carefully remove the existing switch from the electrical box but leave the wires connected.
- 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 HS-WD100+. You will need to match these wires with the corresponding screw terminals on the HS-WD100+. **Note: LINE, NEUTRAL and LOAD wires are required for every installation**
 - LINE (Hot) - Black (connected to power)
 - NEUTRAL - White (this wire is often tied to other neutral wires and may require a jumper to connect with the HS-WD100+)
 - LOAD - Black (connected to load)
 - GROUND — Green or Bare
 - TRAVELER — Red/Other (only used in 3-way circuits)
- Disconnect the wires from the existing switch and attach those wires to the HS-WD100+ using the screw terminal connectors on the back with the following procedure:
 - Strip 16 mm (5/8") insulation from each wire*.
 - With a screw driver, loosen each screw terminal by rotating the screw counter-clockwise a few turns until resistance is felt.
 - 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).
- Carefully install the wired switch back into the electrical box and reattach the trim plate.



COMPATIBILITY

Your new HomeSeer switch is Z-Wave certified and is ready to be used with a wide variety of home automation hubs and controllers. All features are fully supported by HomeSeer systems but some **ADVANCED FEATURES** (see below) may not be fully supported by other controllers. If you're using another brand of controller, be sure to check with that company to determine compatibility.

Z-WAVE INCLUSION

Follow this 2-step procedure to add your new HomeSeer switch to your Z-Wave network:

- 1 Put your Z-Wave controller into inclusion mode. Consult your controller manual if you're unsure how to do this.
HomeSeer users: press "Add Device" on your Z-Tool+ mobile app
- 2 Tap the paddle of your new HomeSeer switch to begin the inclusion process. This will take a few moments to complete.
HomeSeer users: Be sure to name the switch and assign it to a location using Z-Tool+ when inclusion is done

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

(1) Turn switch on by tapping the top of the paddle once. **(2)** Quickly tap top of the paddle 3 times. **(3)** Quickly tap bottom of paddle 3 times. **(4)** If light turns off and then on again, switch is reset. If not, repeat manual reset.

ASSOCIATION - This product supports association group #1 for lifeline communication. Refer to your controller manual for instructions on setting the lifeline association.

OPERATION – Your new HomeSeer switch may be operated locally (manually) or remotely using a Z-Wave compatible controller or home automation 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.
- Press & Hold the top or bottom of the paddle increase or decrease the dim level of the load. The switch's white LED indicators will light to represent the relative dim level of the switch.

Remote Control:

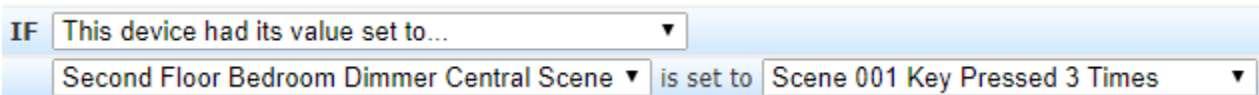
- On / Off / Dim control is available remotely. Consult your controller manual for details.

HomeSeer users: this switch creates 3 devices; a root device, central scene device and control device. The root device may be used to manage Z-Wave settings. The central scene device may be used as a trigger for events. The control device will send on / off / dim commands to the switch.

ADVANCED FEATURES

Your new HomeSeer dimmer includes advanced features that may be accessed with HomeSeer (and other*) systems.

Multi-tap triggering - Tapping the top or bottom of the paddle 1, 2, or 3 times in rapid succession may be used as a trigger to launch HomeSeer events. In the example below (using HomeSeer HS3 software), the trigger is set to the top of the paddle being pressed 3 times. You must use the trigger "device had its value set to" and apply it to the "Central Scene" device. Note that "Scene 001" refers to the top of the paddle.



Note that pressing the top or bottom of the paddle once will also control the attached load.

COMPATIBILITY (with Non-HomeSeer systems)

The special features of this dimmer are supported using a number of different Z-Wave technologies. HomeSeer systems are designed to support these technologies and will provide the most seamless operation of these features. However, other systems may also provide satisfactory results depending on the level of support they provide for these same technologies. If you're using a non-HomeSeer system, use the information below and consult with your system manufacturer to determine the level of compatibility.

Multi-tap Triggers: This feature uses the Z-Wave CENTRAL SCENE command class. If the system supports this command class AND

utilizes a general interrogation process for inclusion, this feature should work. However, if the system employs an inclusion process based on the Z-Wave product ID, then specific product support would need to be implemented.

Instant Status: This feature is supported using a Z-Wave MULTILEVEL REPORT and the CENTRAL SCENE command class. All Z-Wave certified systems should support the MULTILEVEL REPORT feature.

S2 Security / SmartStart: S2 security is an advanced encryption technology. SmartStart is a pre-provisioning technology that provides easier inclusion with compatible controllers*.

*Be sure to check our support page (<https://homeseer.com/support-home/>) for more detailed information regarding features and integrations with other smart hubs and controllers.

Z-Wave Parameters				
Parameter	Description	Bytes	Value	Default
4	Sets paddle's load orientation	1	0 = Top of Paddle turns load ON 1 = Bottom of Paddle turns load ON	0
7	Sets dimmer remote ramp rate step resolution	1	Possible values: 1-99 1=highest resolution (slowest dimming)	1
8	Set dimmer remote ramp rate step speed	2	Possible values: 1-255 1=10 milliseconds	3
9	Sets dimmer local ramp rate step resolution	1	Possible values: 1-99 1=highest resolution (slowest dimming)	1
10	Set dimmer local ramp rate step speed	2	Possible values: 1-255 1=10 milliseconds	3

SPECIFICATIONS

Power	Requirements	120VAC / 60 Hz
Max Load	Incandescent LED	600 watts 150 watts
Derating	3-gang	500 watts 150 watts
	4-gang	400 watts 150 watts
Z-Wave	Frequency	908.4 / 916 MHz
	Range	100 ft. (open air)
Certifications	UL (US, Canada), FCC/IC, Z-Wave Plus	

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](https://homeseer.com). Warranty period: limited 1 year 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.

NOTE: The manufacturer is not responsible for any radio or TV interference caused by unauthorized modifications or changes to this equipment. Such modifications or changes could void the user's authority to operate the equipment.

IC statements:

This device complies with Part 15 of the FCC Rules and with RSS of Industry Canada. 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.

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes :

- (1) l'appareil ne doit pas produire de brouillage, et
- (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

This Class B digital apparatus complies with Canadian ICES-003.

Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.