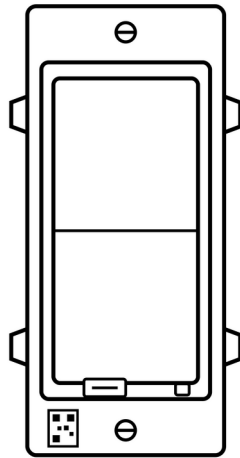


versa

DIM-ZW

In-Wall Z-Wave Paddle Dimmer

Z-Wave 800 LR · S2 Security · SmartStart



INSTALLATION MANUAL

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Features

- In-wall dimmer — single-pole or 3-way
- Z-Wave 800 LR with S2 security and SmartStart
- Central Scene support (2-tap each paddle)
- Adjustable minimum and maximum brightness
- Adjustable on/off and dimming ramp rates
- Soft start; restores state after power failure
- Air-gap pull tab for safe bulb changes
- Built-in Z-Wave repeater
- Compatible with all certified Z-Wave hubs

SPECIFICATIONS

Input voltage	125 VAC, 60 Hz
Frequency	908.42 / 916 MHz mesh · 912 / 920 MHz LR
Range	Up to 1300 ft direct-to-controller (LR) · 330 ft (100 m) per hop (mesh)
Incandescent	600 W max — ganged: 500 W (2), 400 W (3)
Dimmable LED / CFL	300 W max
Wiring	Single-pole or 3-way; neutral required; 14 AWG copper only
Operating temp.	32–104 °F (0–40 °C)
Use	Indoor, dry location; lighting loads only
Listing	ETL Listed — UL 60730-1:2016
Version	V1.0 (SDK 7.24.1, Z-Wave version 8.2)
Warranty	2 years

LED indicator

State	Meaning
Solid blue	Dimmer status (see parameter 2)
Blue flashing	Inclusion or exclusion in progress
Green solid 2 s	Inclusion or exclusion success
Red solid 2 s	Inclusion or exclusion failed
Green flashing 3×	Setting saved / parameter changed
Red flashing 3×	Parameter change failed
Orange flashing	Min/max brightness setting mode
Purple flashing	Factory reset in progress
Purple solid 2 s	Factory reset complete

BEFORE YOU INSTALL

⚠ TURN OFF the breaker before removing the wall plate. Verify with a non-contact voltage tester. Lights only — DO NOT connect to fans, receptacles, tube/fluorescent fixtures, or transformer-supplied fixtures.

You will need

- Phillips & flat-blade screwdrivers, wire stripper, voltage tester
- Single-gang wall box, 2-3/4" min depth, 14 AWG copper wire

Identify wires

- Line (black) → LINE terminal
- Load (black/red) → LOAD terminal — line and load can't be swapped
- Neutral (white) → NEUTRAL terminal — required
- Ground (bare/green) → GROUND terminal
- Traveler (3-way only, red) → TRAVELER terminal

Install wires into the terminals

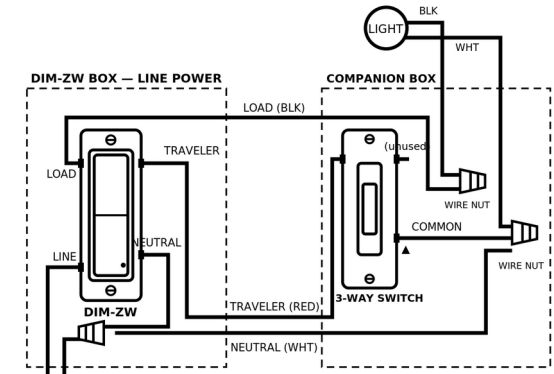
Strip wires 1/2–5/8". Don't wrap around screws. Lift screw, press down to catch thread, insert straight wire, tighten clockwise. No power tools. Copper conductors only.

Wiring — 3-way

DIM-ZW must be installed in the box with direct connection to power. Companion switch must be a standard mechanical 3-way — not another smart switch, dimmer, or add-on. LOAD feeds the light directly. The companion gets two wires only: neutral on its COMMON screw, red traveler on a traveler screw.

DIM-ZW — 3-WAY WIRING

DIM-ZW must be in the box with line power · companion = standard mechanical 3-way



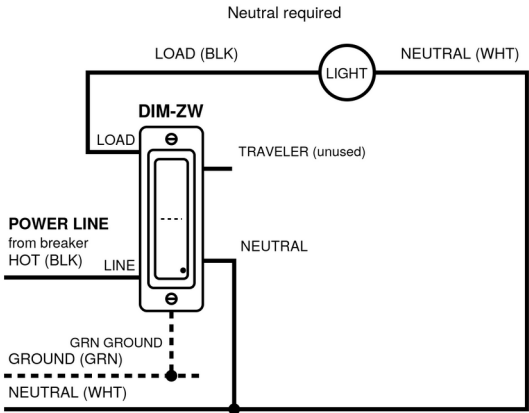
POWER LINE from breaker: HOT (BLK) → LINE · WHT → wire nut.
Run the three conductors between the boxes as ONE 3-conductor cable (BLK · RED · WHT).
Connect all grounds (bare/GRN) together and to each device's GROUND terminal.

If your wiring doesn't match, stop and consult an electrician.

Wiring — single-pole

Power OFF. Ground → GROUND, Neutral → NEUTRAL, Line → LINE, Load → LOAD. Tug-test, fold wires in, mount, restore power.

DIM-ZW — SINGLE-POLE WIRING



Z-WAVE NETWORK SETUP

Add the device (inclusion)

Set your controller to add a device. Press TOP paddle 3× quickly — blue LED flashes. Green 2 s = success. Red 2 s = failed, retry.

Remove the device (exclusion)

Set your controller to remove a device. Press BOTTOM paddle 3× quickly.

Factory reset

Press BOTTOM paddle 2× quickly, hold 3rd press 10 sec. Purple flash → solid purple = done. Use only if your controller is missing or inoperable.

SmartStart

Scan the Z-Wave QR code on the front of the device with your SmartStart-capable controller. Auto-added within 10 minutes.

Association groups

Group 1 — Lifeline (5 nodes)

Group 2 — Single Press (5 nodes, sends Basic Set ON/OFF on local paddle press)

Paddle functions

- Top 1×: ON · Bottom 1×: OFF (Param 1)
- Press & hold: brighten (top) / dim (bottom)
- Top 2×: Scene 1 · Bottom 2×: Scene 2
- Top 3×: include · Bottom 3×: exclude
- Top 5×: set max brightness · Bottom 5×: set min
- Top 8×: cycle Param 1 · Bottom 8×: cycle Param 8
- Bottom 10×: cycle Param 2

Set minimum / maximum brightness

Press BOTTOM paddle 5× quickly — orange LED flashes slowly and the light goes to the current minimum. Hold top or bottom to adjust, then press BOTTOM 5× to confirm (green flashes 3×). Use the TOP paddle 5× the same way to set maximum. 10 s without input exits without saving.

PARAMETER SETTINGS

Set from your hub. LED flashes green 3× for success, red 3× for failure.

#	Parameter	Default	Values
1	Button Function	0	0=Top ON/Bot OFF (def), 1=Top OFF/Bot ON, 2=both toggle
2	LED Indicator	0	0=match dimmer (def), 1=match relay, 2=off, 3=on
4	Auto Turn-Off	0	1-65535 min. 0=disabled.
6	Auto Turn-On	0	1-65535 min. 0=disabled.
8	Power-Fail Restore	2	0=off, 1=on, 2=last state (def)
9	Ramp — On/Off	2	Full fade in 1-10 s
10	Ramp — Dimming	4	Full fade in 1-10 s
11	Min Brightness	10	0-99
12	Max Brightness	99	0-99

Z-WAVE INTEROPERABILITY

Works with any Z-Wave certified network. All non-battery nodes act as repeaters. DIM-ZW supports Lifeline (group 1); most controllers configure this automatically during inclusion.

Manufacturer ID 0x0464 · Product Type 0xEE00 · Product ID 0xEE02 · Installer Icon 0x0700 · User Icon 0x0604

Device class and supported command classes will be published with the final certified firmware.

CERTIFICATIONS & COMPLIANCE

- ETL Listed — UL 60730-1:2016 · Intertek control no. 5030071
- FCC Part 15 Class B · FCC ID: 2AD9XDIM-ZW
- Z-Wave Plus certified · Z-Wave 800 LR, SDK 7.24.1

FCC compliance

This device complies with Part 15 of the FCC Rules. Operation is subject to: (1) this device may not cause harmful interference; (2) this device must accept any interference received, including interference that may cause undesired operation. Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

FCC Class B

This equipment has been tested and complies with Part 15 Class B limits, providing reasonable protection against interference in residential installations. If interference occurs (verify by powering off and on), try:

- Reorient or relocate the receiving antenna.
- Increase separation between equipment and receiver.
- Connect to a circuit different from the receiver.
- Consult a qualified radio/TV technician.

RF exposure

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. Install and operate with a minimum distance of 20 cm between the radiator and any person.

SAFETY & WARNINGS

⚠ RISK OF FIRE / ELECTRIC SHOCK / BURNS

TURN OFF the breaker before installation. Verify with a voltage tester before touching any wires.

Do not exceed 600 W incandescent or 300 W dimmable LED/CFL; in ganged installs derate incandescent to 500 W (2-gang) / 400 W (3-gang). DO NOT use to control fans, receptacles, tube/fluorescent fixtures, transformer-supplied fixtures, heat lamps, or sun lamps.

Air gap

Pull the tab at the bottom of the paddle out to cut power to the dimmer before changing a bulb. Push it back in for normal operation.

Medical equipment

Do not use this dimmer to control medical or life-support equipment.

Controlling appliances

Use extreme caution with appliances. Schedules, automations, or network errors may cycle a device unintentionally. Do not include appliance-controlling devices in groups or scenes, and do not use Z-Wave to control electric heaters or any device that could become hazardous if unattended.

Caution — please read

Install per the National Electrical Code and local regulations. Where required by code, installation must be performed by a qualified, licensed electrician. If unsure, consult an electrician.

WARRANTY

Versa Wireless products are warranted free from manufacturing defects for two years from the original date of consumer purchase. Limited to repair or replacement; does not cover consequential or incidental damage. This warranty is in lieu of all other warranties expressed or implied. Some states do not allow such limitations, so they may not apply to you. You may have other rights that vary by state.

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