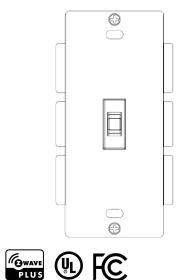
USER MANUAL



DIMMER TOGGLE SWITCH VER. 2.0 ZEN24



Z-WAVE CONTROL

ADD DEVICE to your hub

Initiate inclusion (pairing) in



the app (or web interface). Finalize inclusion at the swith.





TROUBLESHOOTING

- switch down 3 times quickly
- quickly when adding it
- 3. Bring the gateway controller (hub) **closer** to the switch, it may be out of

FEATURES

- ▶ Manual or remote on/off and dimming control from your mobile device or computer (when included to a Z-Wave gateway hub)
- ▶ Direct 3-way Solution works with regular 3-way switches (neutral connection required)
- ▶ 2 ramp rate options
- ▶ 500 chip for faster and safer wireless communication
- ▶ Works with LED, CFL, and incandescent bulbs
- ▶ Remembers and restores on/off status after power failure ► Supported by most Z-Wave gateway
- controllers ▶ Can be used in rules and scenes with other Z-Wave devices for advanced
- home automation ▶ Classic toggle design
- Air-gap switch for added safety
- ▶ Built-in Z-Wave signal repeater

REMOVE THE SWITCH FROM YOUR HUB

- 1. Bring your Z-Wave gateway (hub) close to the switch if possible
- 2. Put the Z-Wave hub into exclusion mode (not sure how to do that? ask@getzooz.com)
- 3. Toggle the switch down 3 times quickly to finalize the process
- 4. Your hub will confirm exclusion and the device will disappear from your controller's device list

FACTORY RESET

The switch will be reset to factory defaults only by exclusion using a Z-Wave controller. You may use any certified Z-Wave controller to exclude and reset the switch. This device may not be reset manually when the network's primary controller is missing or otherwise inoperable.

WIRING: READ IT!

- 1. CHECK THE LOAD: lights only (500W for incandescent, 150W for LED's/CFL's). DON'T CONNECT THIS SWITCH TO FANS.
- 2. POWER OFF: turn the circuit power off in the breaker panel before you start.
- 3. CHECK THE WIRES: mark load (most often black), line (most often black). neutral (most often white), and ground (most often bare). 14AWG wires only! Don't rely exclusively on your multimeter to identify the wires!

Not sure what you're seeing? We'll help: ask@getzooz.com

4. REMOVE THE OLD SWITCH:

disconnect the wires and label them.

5. CONNECT THE Z-WAVE SWITCH: follow all installation steps carefully. Wire the switch EXACTLY like in the

diagram.

ASSOCIATION

Once this switch is added to your Z-Wave network, you are able to turn the device on or off and adjust brightness remotely from your mobile device, computer, or Z-Wave remote control. Depending on your Z-Wave gateway's home automation software capabilities. you may be able to associate your Zooz switch in groups with other Z-Wave devices to schedule scenes and create

This dimmer switch supports Group 1 with up to 5 devices for lifeline communication.

This device will send MULTILEVEL REPORT to Group 1 when operated manually.

Please refer to your controller's user options (fade-in / fade-out effect for on / guide for advanced programming off operation) instructions as they are a little different Values: 0 – light turns on to 100% for each software. brightness within 2 seconds, turns off

within 1 second Size: 1 byte dec.

COMMAND CLASSES

This device requires the following command classes to be supported and recognized by your Z-Wave controller: COMMAND CLASS ASSOCIATION V2 COMMAND CLASS ASSOCIATION GRP INFO COMMAND CLASS BASIC COMMAND_CLASS_CONFIGURATION COMMAND_CLASS_DEVICE_RESET_LOCALLY COMMAND CLASS MANUFACTURER SPECIFIC COMMAND CLASS POWERLEVEL COMMAND CLASS SWITCH ALL COMMAND_CLASS_SWITCH_MULTILEVEL COMMAND CLASS VERSION V2 COMMAND CLASS ZWAVEPLUS INFO V2

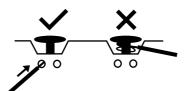
within 4 seconds (default); 1 – light turns on to 100% brightness instantly, turns off

HOW TO INSTALL THE WIRES

1. UNSCREW: carefully turn the screw counter clockwise to make space for the wire. DO NOT unscrew completely.



- 2. PRESS DOWN: once it's loose, press the screw down with your finger so it catches the thread.
- perfectly straight, then insert it to the terminal while holding the screw down. DO NOT wrap wires around the terminal screws!



4. TIGHTEN: turn the screw clockwise to tighten the wire.

DO NOT OVERTIGHTEN!



This is an electrical device please use caution when installing and operating the dimmer switch. Remote control of appliances may result in unintentional or automated activation of power.

Do not use this Z-Wave device to control electric heaters or other appliances which produce the risk of fire, burns, or electrical shock when unattended.

COMPLETE INSTALLATION

Secure your Z-Wave switch in the box with mounting screws, handling the wires with care.

For multi-gang-box installation, you may need to break the heatsink tabs off with pliers to fit the switch next to the neighboring switches.

Install the wall plate and restore power to the circuit

TEST THE SWITCH

Toggle the switch up for ON and toggle it down for OFF.

If the test fails, please check that:

 power is fully restored to the circuit wiring matches the instructions

Without the heatsink

tabs, the switch can't

control more than 30

60 W of LED bulbs.

- exactly
- ▶ the type of load is approved and within the specs of this switch

AWARNING

- ▶ This product should be installed indoors upon completion of any building renovations
- ▶ Prior to installation, the device should be stored in a dry, dust-and-moldproof place. ▶ Do not install the switch in a place
- with direct sun exposure, high 150W CFL or LED temperature, or humidity. ► Keep away from chemicals, water, ▶ Operating Temperature: 32-104° F (0-
- and dust.
- ▶ Ensure the device is never close to any heat source or open flame to prevent fire.
- ▶ Ensure the device is connected to an electric power source that does not exceed the maximum load power. No part of the device may be replaced

or repaired by the user.

- ▶ Model Number: ZEN24
- ▶ Z-Wave Signal Frequency: 908.42 MHz ▶ Power: 120 VAC, 60 Hz

SPECIFICATIONS

- ▶ Minimum Load: 15W for LED and CFL
- ▶ Maximum Loads: 500W single, 400W 2-gang, 300W 3-gang incandescent,
- ▶ Range: Up to 100 feet line of sight
- 40° C)
- ▶ Installation and Use: Indoor only

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goods, and only for physical goods, purchased from Zooz (the "Physical Goods").

What does this limited warranty cover?

This Limited Warranty covers any defects User Manual during the Warranty Period. Warranty coverage applies to purchases made from authorized dealers only. See full list of Zooz distributors here: getzooz.com/buv During the Warranty Period, Zooz will

because of improper material or

How long does the coverage last?

The Warranty Period for Physical Goods purchased from Zooz is 12 months from the date you purchased this product.

What does this limited warranty not cover?

This Limited Warranty does not cover any problem that is caused by:

- ▶ conditions, malfunctions or damage not resulting from defects in material or workmanship
- ▶ improper handling or installation of the product

The warranty does not cover purchases from unauthorized dealers or secondhand sources. The warranty does not cover return shipping cost for warranty

What do you have to do?

To obtain warranty service, please contact us to determine the problem and offer a quick solution for you: warranty@getzooz.com

You may also get in touch with the reseller of the product directly to return or replace

the product within 30 days of purchase or within applicable reseller's returns period.

SALE OR USE OF THE PRODUCTS, WHETHER BASED ON

NEGLIGENCE, STRICT LIABILITY, BREACH OF WARRANTY

BREACH OF AGREEMENT, OR EQUITABLE PRINCIPLES, IS

EXPRESSLY LIMITED TO, AT ZOOZ'S OPTION, REPLACEMENT

OF, OR REPAYMENT OF THE PURCHASE PRICE FOR THAT POR-

TION OF PRODUCTS WITH RESPECT TO WHICH DA-MAGES ARE

CLAIMED, ALL CLAIMS OF ANY KIND ARISING IN CONNECTION

WITH THIS AGREEMENT OR THE SALE OR USE OF PRODUCTS

SHALL BE DEEMED WAIVED UNLESS MADE IN WRITING WITHIN

THIRTY (30) DAYS FROM ZOOZ'S DELIVERY, OR THE DATE FIXED

THE MANUFACTURER IS NOT RESPONSIBLE FOR ANY RADIO

OR TV INTERFERENCE CAUSED BY UNAUTHORIZED

MODIFICATIONS TO THIS EQUIPMENT. SUCH MODIFICATIONS

COULD VOID THE USER'S AUTHORITY TO OPERATE THE

EQUIPMENT. STORE INDOORS WHEN NOT IN USE. SUITABLE

FOR DRY LOCATIONS ONLY. DO NOT IMMERSE IN WATER. NOT

FOR DELI-VERY IN THE EVENT OF NONDELIVERY.

FOR USE WHERE DIRECTLY EXPOSED TO WATER.

FCC NOTE

IN NO EVENT SHALL ZOOZ OR ITS SUBSIDIARIES AND AFFILIATES BE LIABLE FOR ANY INDIRECT. INCIDENTAL. PUNITIVE, SPECIAL, OR CONSEQUENTIAL DAMAGES, OR DAMAGES FOR LOSS OF PROFITS, REVENUE, OR USE

INCURRED BY CUSTOMER OR ANY THIRD PARTY, WHE-THER IN AN ACTION IN CONTRACT, OR OTHERWISE EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DA-MAGES. ZOOZ'S LIABILITY AND This equipment generates, uses and can radiate radio CUSTOMER'S EXCLUSIVE REMEDY FOR ANY CAUSE OF ACTION ARISING IN CON-NECTION WITH THIS AGREEMENT OR THE

However, there is no guarantee that interference will not

television reception, the user may try to correct the interference by taking one or more of the following

- Increase the separation between equipment and
- receiver - Connect equipment into a separate outlet or circuit
- Consult the dealer or an experienced radio/TV
- technician for additional assistance

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Operation is subject to the following conditions: 1. This device may not cause harmful interference, 2. This device must accept any interference received, including interference that may cause undesired

This device complies with Part 15 of the FCC Rules.

operation. 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

frequency energy and, if not installed and used according to instructions, may cause harmful interference to radio communications.

occur in any given installation.

If this equipment causes harmful interference to radio or measures:

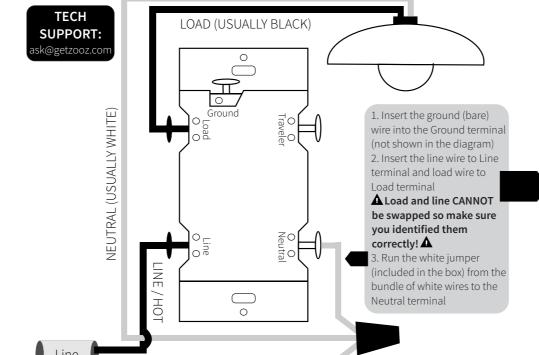
- Reorient or relocate receiving antenna

The switch won't add to your system? 1. Initiate **EXCLUSION** and toggle the 2. Toggle the switch up **6-7 times** very

> NOTE: All previously recorded activity and custom settings will be erased from the device's memory.

TURN THE PAGE FOR 3-WAY DIAGRAMS AND INSTRUCTIONS

DIMMER TOGGLE SWITCH ZEN24 WIRING DIAGRAM FOR SINGLE POLE INSTALLATION



ADVANCED SETTINGS

If your Z-Wave hub's interface allows for

advanced configuration and parameter

adjustment, you will be able to change

and save the settings below and custo-

Parameter 1: Choose if you want the to

turn the light on by clicking the toggle

Values: 0 - Toggle up turns the light on,

1 – Toggle up turns the light off, toggle

Parameter 4: Choose from 2 ramp rate

down turns the light on

Ramp Rate Control

Size: 1 byte dec.

toggle down turns the light off (default);

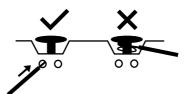
mize the switch to serve your needs.

Toggle Control

up or down

2.\\

B. INSERT WIRE: make sure the wire is





This product can be included and operated in any Z-Wave network with other Z-Wave certified devices from other manufacturers and/or other applications. All non-battery operated nodes within the network will act as repeaters regardless of vendor to increase reliability of the network.



This is an UL certified device. UL, just like ETL, is a Nationally Recognized Testing Laboratory. The UL mark is proof of product compliance with North American safety standards.

WARRANTY

This Limited Warranty applies to physical

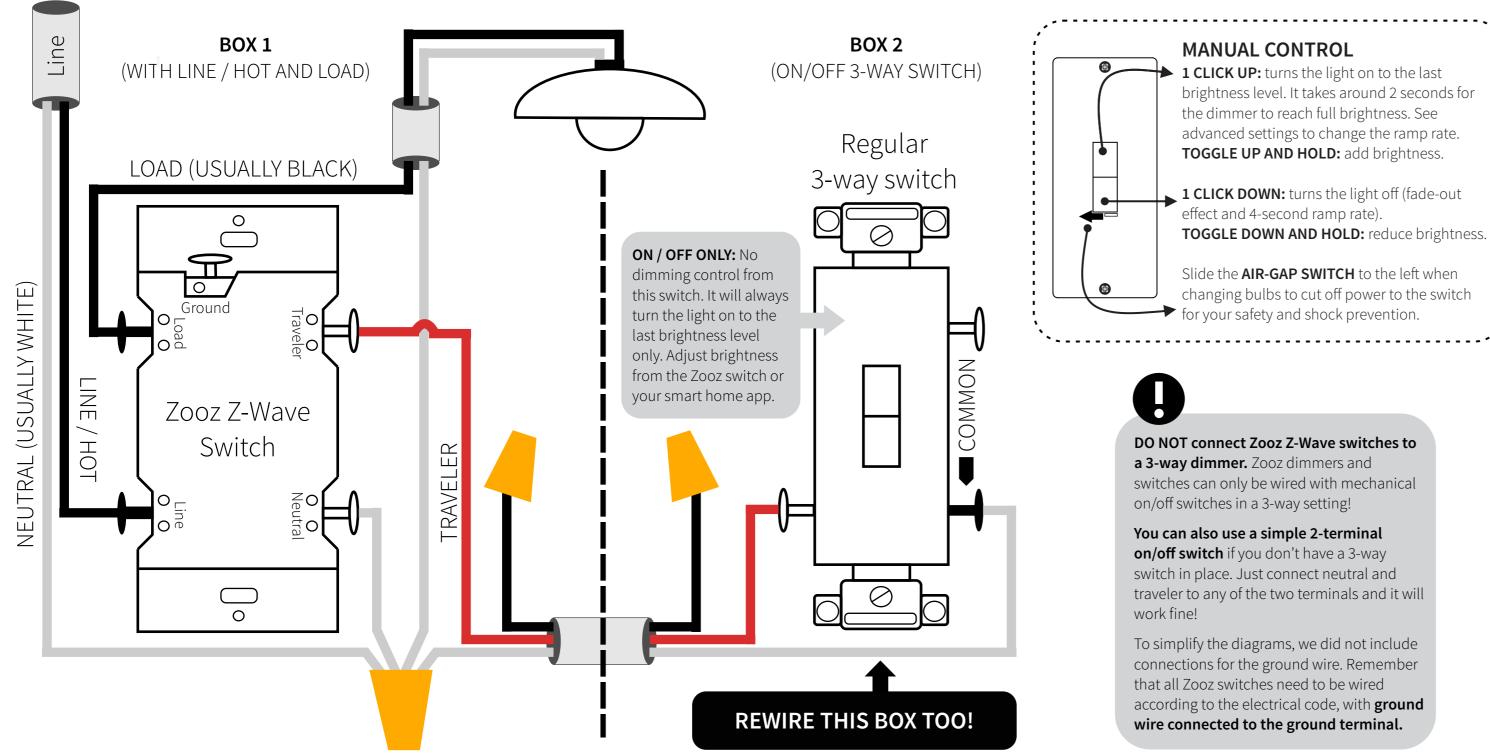
in material or workmanship under normal use according to instructions from the

repair or replace, at no charge, products or parts of a product that prove defective workmanship, under normal use and recommended maintenance. Zooz does not assume the cost of return shipping for warranty service.

3-WAY DIAGRAM FOR 2-POINT CONTROL OF ZOOZ SWITCHES: OPTION 1

3-WAY DIAGRAM FOR 2-POINT CONTROL OF ZOOZ SWITCHES: OPTION 2

Please follow the instructions from the Wiring section of the manual when completing the installation. If you're not sure about the wiring for electronic switches.



MANUAL CONTROL 1 CLICK UP: turns the light on to the last brightness level. It takes around 2 seconds for the dimmer to reach full brightness. See advanced settings to change the ramp rate. TOGGLE UP AND HOLD: add brightness. 1 CLICK DOWN: turns the light off (fade-out effect and 4-second ramp rate). TOGGLE DOWN AND HOLD: reduce brightness. Slide the **AIR-GAP SWITCH** to the left when changing bulbs to cut off power to the switch for your safety and shock prevention. *-----

DO NOT connect Zooz Z-Wave switches to a 3-way dimmer. Zooz dimmers and switches can only be wired with mechanical on/off switches in a 3-way setting!

You can also use a simple 2-terminal **on/off switch** if you don't have a 3-way switch in place. Just connect neutral and traveler to any of the two terminals and it will work fine!

To simplify the diagrams, we did not include connections for the ground wire. Remember that all Zooz switches need to be wired according to the electrical code, with ground wire connected to the ground terminal.

