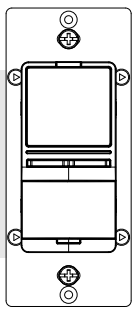
USER MANUAL

MOTION DIMMER

ZEN12 800LR



ZOOZ™
smart move
www.getzooz.com
ask@getzooz.com

Scan to register your product for extended warranty and direct access to firmware files.

FEATURES

- Smart dimmer with built-in motion and lux sensors
- Works with LED lights up to 150 W, incandescent up to 500 W
- **Adjustable sensor settings** for quick and reliable automation
- **800 series Z-Wave®** chip for better range and faster control
- **Direct 3-Way:** works with regular on/off switches in a 3-way
- **Scene control**: trigger actions with multi-tap (select hubs only)
- **Smart bulb mode:** disable relay + control the light via Z-Wave®
- **Z-Wave® Long Range** for ultra reliable no-mesh communication
- Remembers and restores on/off status after power failure

SPECIFICATIONS

- Model Number: ZEN12 800LR
- Z-Wave® Region: US / CA / MX
- Power: 100-125V AC, 60 Hz
- **Maximum Load:** 150W LED, 500W Incandescent lighting only (do NOT connect to motors, tube lights, receptacles, or fans)
- **Motion Sensor Detection:** Up to 25 feet
- Range: Up to 500 feet line of sight (or 1300 feet with ZWLR)
- Operating Temperature: 32-104° F (0-40° C)
- Installation and Use: Indoor only

⚠ CAUTION

This is an electrical device - please use caution when installing and operating the dimmer. 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. Use with lighting fixtures only.
To reduce risk of overheating and possible damage to other equipment, do not install this unit to control a receptacle; a motor-operated appliance; a fluorescent lighting fixture; or a transformer-supplied fixture.

BEFORE YOU INSTALL

This switch is intended for installation in accordance with the National Electric Code and local regulations. It is recommended that a licensed electrician perform this installation.

WIRING: READ IT!

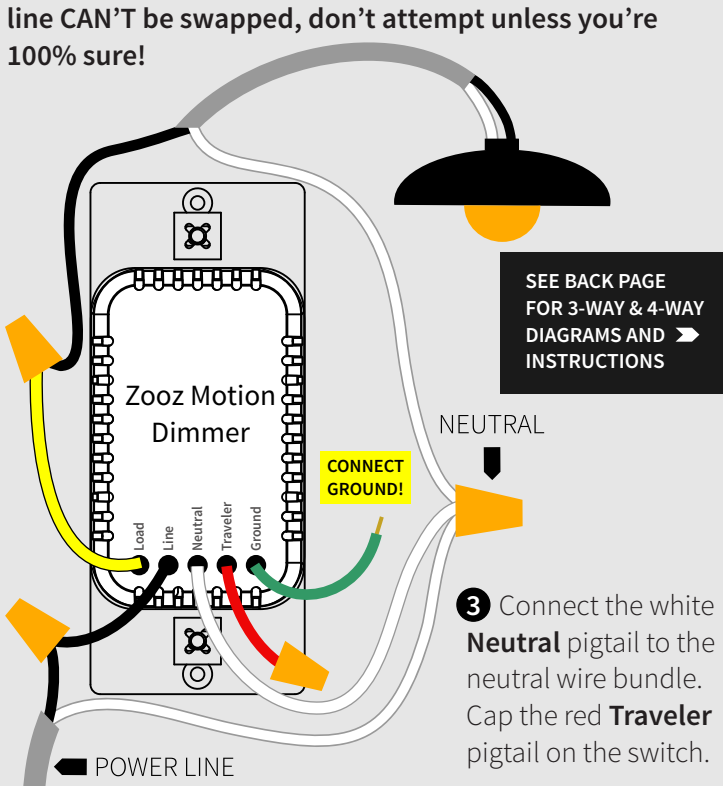
1. CHECK THE LOAD: make sure that the load you're about to connect is within the electrical specs of this switch listed on the back of the device. Connect to light fixtures only.
2. POWER OFF: turn the circuit power off in the breaker panel before you start. If installing in a multi-switch box with multiple circuits, turn power off at all of the circuits.
3. CHECK THE WIRES: mark load (most often black), line (most often black), neutral (most often white), and ground (most often bare). **Don't rely exclusively on your multimeter to identify the wires!**

NOT SURE WHAT YOU'RE SEEING? WE'LL HELP! **SUPPORT.GETZOOZ.COM**
SEND US PICTURES OF YOUR SET-UP, BEFORE YOU DISCONNECT WIRES.

4. REMOVE THE OLD SWITCH: disconnect the wires and label them with the included label stickers.
5. CONNECT THE Z-WAVE® SWITCH: follow all installation steps carefully. Wire the switch EXACTLY like in the diagram.

ZEN12 WIRING DIAGRAM FOR SINGLE POLE INSTALLATION

1. Connect the ground (bare) wire with the green **Ground** pigtail on the switch (ground wires aren't shown in the diagram).
2. Connect the power source wire with the black **Line** pigtail and load wire to the yellow **Load** pigtail. **Load and line CAN'T be swapped, don't attempt unless you're 100% sure!**



SEE BACK PAGE FOR 3-WAY & 4-WAY DIAGRAMS AND INSTRUCTIONS

3. Connect the white **Neutral** pigtail to the neutral wire bundle. Cap the red **Traveler** pigtail on the switch.

DON'T TURN THE POWER BACK ON UNTIL THE SWITCH IS FULLY INSTALLED AND ARRANGED BACK IN THE BOX.

SAFETY FIRST!

Wire colors and romex layout are for illustration only. You should not follow the colors and positioning in the illustration blindly. Always identify all wires prior to installing Zooz switches and make sure you can match the diagrams to your set-up exactly. Don't experiment or attempt a "trial-and-error" installation for your own safety.
Always cap any exposed wires and isolate electrical elements with appropriate protectiction.

COMPLETE INSTALLATION

Secure your Z-Wave® switch in the box with mounting screws, handling the wires with care. Isolate all bare wires with electrical tape. Install the wall plate and only now restore power to circuit.

TEST THE SWITCH

The LED indicator should light up as soon as you turn the power back on if the switch (light) is OFF. Tap the switch button for ON and OFF, hold the horizontal buttons below to dim or increase brightness. **If the test fails, please check that:**

- power is fully restored to the circuit
- wiring matches the instructions **exactly**
- the load isn't too large and causing emergency shut off

⚠ WARNING

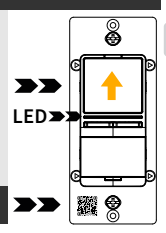
- This product should be installed indoors upon completion of any building renovations.
- Prior to installation, the device should be stored in a dry, dust-and-mold-proof place.
- Do not install the switch in a place with direct sun exposure, high temperature, or humidity.
- Keep away from chemicals, water, 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.

Z-WAVE® CONTROL

There are 2 methods to ADD THE SWITCH TO YOUR HUB:

SmartStart: use the hub UI / app to scan the SmartStart QR code on the switch, located on the metal plate (below the motion sensor). Power the device on for SmartStart inclusion, it will add automatically. On SmartThings, you may need to tap the top button 3 times quickly to complete inclusion.
See below for QR codes to hub-specific instructions.

Manual inclusion: initiate inclusion (pairing) in the app or hub UI. Make sure the switch is powered and finalize the inclusion at the switch: tap the top button 3 times quickly.



SCAN THE QR CODE / ENTER PIN FOR SMARTSTART

The LED indicator will blink blue to signal communication and turn green for 2 seconds if inclusion is successful or turn red for 2 seconds if the pairing attempt fails.

NEED SOME HELP? **ask@getzooz.com**

Choose your hub and scan the QR code with your phone's camera. Then click on the link to access the step-by-step pairing instructions.

SmartThings | Hubitat | Home Assistant | Z-Box Hub

Get more tutorials and helpful tips at ww.support.getzooz.com

TROUBLESHOOTING

The switch won't add to your system? Try this:

1. Initiate **EXCLUSION** and tap the top button 3 times quickly.
2. Tap the top button **3 times as quickly as you can**.
3. Bring the gateway controller (hub) **closer** to the switch, it may be out of range.
4. Get troubleshooting tips for your hub at **www.support.getzooz.com**

The switch won't control the lights manually anymore? Try this:

1. Turn the power off at the breaker and check if a wire didn't get loose.
2. Exclude the switch from the hub or **reset** it in case manual control was accidentally disabled.
3. The load may be incompatible so try it with a single incandescent bulb.

EXCLUSION (REMOVING / UNPAIRING DEVICE)

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. Tap the **top button** on the switch **3 times quickly** (the LED indicator will start blinking magenta)
4. Your hub will confirm exclusion, the LED indicator on the switch will turn green for 2 seconds, and the device will disappear from your controller's device list

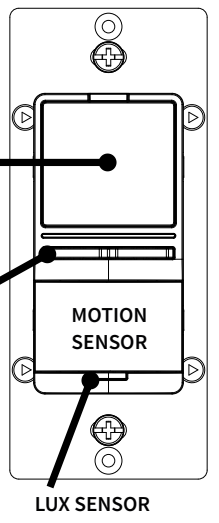
FACTORY RESET

If your primary controller is missing or inoperable, you may need to reset the device to factory settings. To reset the switch, **hold the top button for 10 seconds** until the LED indicator starts blinking green. Release the button, and immediately after, **tap the left dimmer button 5 times** to complete the reset. The LED indicator will flash red 5 times to confirm successful reset.
NOTE: All previously recorded activity and custom settings will be erased from the device's memory.

HOW IT WORKS

PHYSICAL CONTROL

TAP THE TOP BUTTON for on/off control of the connected lights. The light will turn on to the last brightness level by default. You can change that behavior in the advanced settings (see below for details).
HOLD THE LEFT DIMMING BUTTON to decrease brightness of the controlled light and **HOLD THE RIGHT DIMMING BUTTON** to increase brightness. If installed upside down with motion sensor on top, the dimming buttons will work in reverse.



DEFAULT BEHAVIOR

The motion dimmer will automatically turn on the light it controls when motion is detected. It will automatically turn the light off after 30 seconds from the last detected motion event. **Wait 1 minute after power-up for the motion sensor to warm up before it starts detecting activity.**
If you'd like to change this behavior, you can adjust it in the advanced settings of the switch. There, you'll be able to decide if, when, and how the built-in motion sensor triggers your dimmer. This includes the time of inactivity, the brightness level for "night mode", as well as lux level offset and motion sensitivity. See below how to access and change the advanced settings for this device on your Z-Wave® hub.

ADVANCED SETTINGS

Please refer to your hub's user guide for advanced programming instructions as they are a little different for every software.
Not sure where to start? Go to www.support.getzooz.com for detailed instructions on how to change the settings on Home Assistant, SmartThings, Hubitat, and more.
Or just email us: ask@getzooz.com

CUSTOMIZE YOUR SWITCH

Here is a selection of settings available to customize your switch. **Scan the QR code for a full list of parameters** and look below for how to access them on your hub.

- **LED Indicator** behavior, color, brightness
- **Smart Bulb Mode** (disable the relay)
- **Motion and lux sensor** reporting mode
- **Ramp rate** for the dimmer
- On/off status after **power failure**

SCAN SETTINGS

Choose your hub and scan the QR code with your phone's camera. Then click on the link to learn how to access and change the advanced settings for the switch on your hub.

SmartThings | Hubitat | Home Assistant | Z-Box Hub

SCENE CONTROL

You can trigger scenes or control other connected devices in your network using this switch. Just enable the setting in Parameter 8 and verify that your hub supports scene control. Assign scenes or actions to 1-tap, 2-tap, 3-tap, 4-tap, and 5-tap as well as to held and released for any of the buttons.

Scan the QR code for scene control programming instructions on your hub.

QUESTIONS?

ask@getzooz.com

ASSOCIATION

This dimmer supports group 1 with up to 1 devices for Lifeline communication and groups 2-6 with up to 5 devices. This device will send BASIC REPORT to group 1 and BASIC SET command to group 2, MULTILEVEL SET to group 3, and MULTILEVEL CHANGE to group 4 when operated manually. It will send BASIC SET command to group 5 when motion is triggered and BASIC SET command to group 6 when the lux sensor is triggered. Not every hub exposes direct association settings in the interface so please go to www.support.getzooz.com to see if your system allows for direct association.

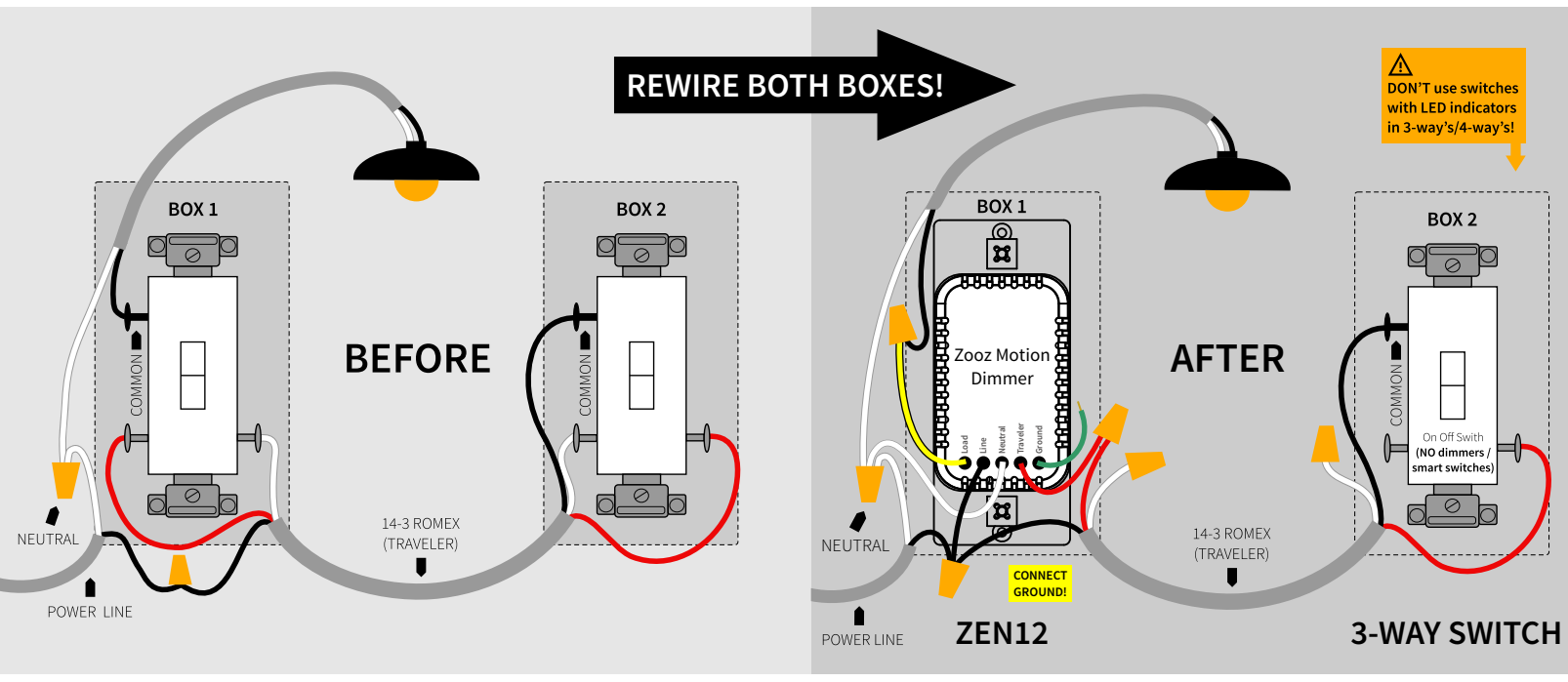
S2

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 product features the latest Security 2 (S2) framework to remove smart home network hacking risks. This device is equipped with a unique authentication code for trusted wireless communication.
This is an ETL certified device. ETL, just like UL, is a Nationally Recognized Testing Laboratory. The ETL mark is proof of product compliance with North American safety standards.

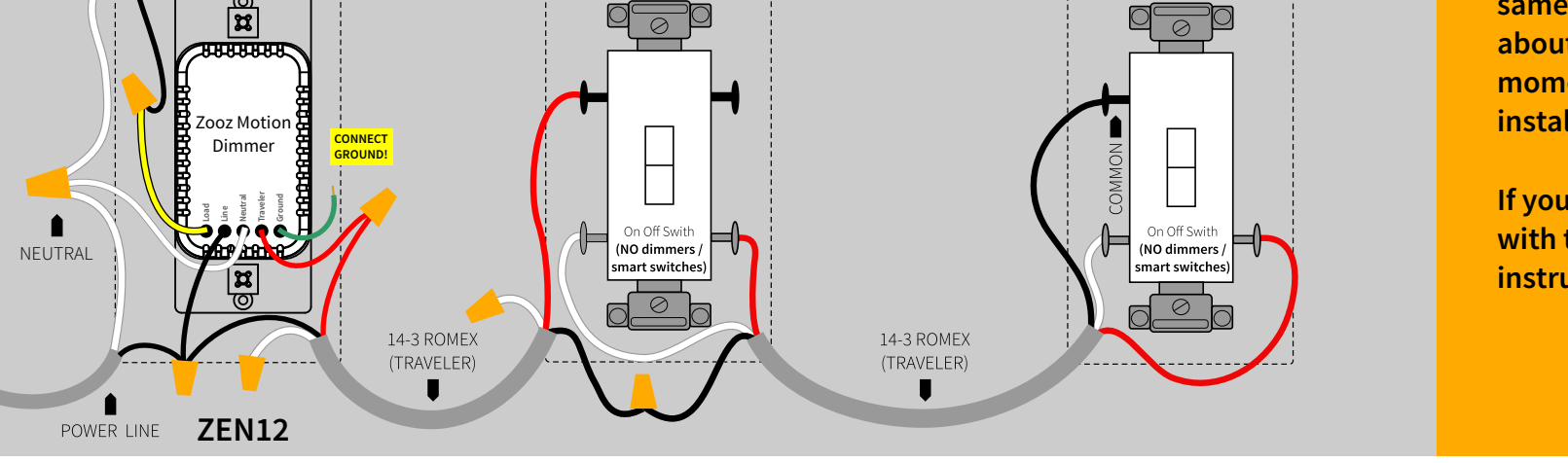
ZEN12 WIRING DIAGRAMS FOR THE MOST COMMON 3-WAY INSTALLATIONS

For more diagrams or to request custom instructions go to **support.getzooz.com**

3-WAY DIAGRAM FOR 2-POINT CONTROL WITH ZEN12 AND REGULAR 3-WAY SWITCH: OPTION 1



3-WAY DIAGRAM FOR 2-POINT CONTROL WITH ZEN12 AND REGULAR 3-WAY SWITCH: OPTION 2



STOP!

Wire and screw position, as well as color codes are for illustration only. You should not follow the colors and positioning in the illustration blindly. Always identify all wires prior to installing Zooz switches and make sure you can match the diagrams to your set-up exactly. Don't experiment or attempt a "trial-and-error" installation for your own safety. **Don't disconnect any wires before documenting your set-up in each box with detailed images!**

NOTE!

If you are not comfortable identifying the wiring and completing the installation, please consult a licensed electrician.
Make sure you have identified all wiring correctly before connecting the switch. If your wiring doesn't match any of the below diagrams, contact our support: ask@getzooz.com

ON/OFF SWITCHES ONLY

Do not connect Zooz Z-Wave® switches to an existing 3-way dimmer, illuminated switch, or an electronic add-on switch. Zooz switches can only be wired with mechanical on/off or momentary switches in a 3-way or 4-way setting! 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.

POWER OFF!

Cut power to the circuit before handling the wiring.
Always install your Zooz switch in the box with direct connection to power line.
Diagrams and instructions in this manual are for ZEN12 model ONLY!

ZEN12 4-WAY INSTALLATION WIRING DIAGRAM (LINE AND LOAD MUST BE IN THE SAME BOX)

NOTE: Use regular 3-way on/off switches ONLY in this set-up (replace any 4-way switches or 3-way dimmers if needed). 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.

CHECK 3-WAY / 4-WAY TYPE!
Your 3-way and 4-way switches may have a different terminal layout so identify the in and out terminals on the 4-way switch and the common terminal on the 3-way switch before the installation.

EACH BOX NEEDS TO BE REWIRED ACCORDING TO THE 4-WAY DIAGRAM.

Follow this diagram ONLY if you confirmed you have direct connection to power and light in the same box. If they're in separate boxes, ask us about using the ZEN12 switch with ZAC99 momentary switches in 4-way and 5-way installations.

If you have power or load coming into the box with the 4-way switch, contact us for custom instructions: ask@getzooz.com

WARRANTY

This product is covered under a 1-year limited warranty and extended 5-year warranty if registered within 30 days of purchase. To read the full warranty policy or file a warranty claim, please go to www.getzooz.com/warranty

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, WHETHER IN AN ACTION IN CONTRACT, OR OTHERWISE EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DA-MAGES. ZOOZ'S LIABILITY AND CUSTOMER'S EXCLUSIVE REMEDY FOR ANY CAUSE OF ACTION ARISING IN CON-NECTION WITH THIS AGREEMENT OR THE 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 PORTION 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 FOR DELI-VERY IN THE EVENT OF NONDELIVERY.

FCC NOTE
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 USE WHERE DIRECTLY EXPOSED TO WATER.
This device complies with Part 15 of the FCC Rules.
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 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 installation.
This equipment generates, uses and can radiate radio frequency energy and, if not installed and used according to instructions, may cause harmful interference to radio communications.
However, there is no guarantee that interference will not occur in any given installation.
If this equipment causes harmful interference to radio or television reception, the user may try to correct the interference by taking one or more of the following measures:
- Reorient or relocate receiving antenna
- Increase the separation between equipment and receiver
- Connect equipment into a separate outlet or circuit from receiver
- Consult the dealer or an experienced radio/TV technician for additional assistance

NEED HELP?

If you're having trouble reading the diagrams or don't see your wiring set-up here, get in touch! We have **more 3-way, 4-way, and 5-way diagrams** and will create custom instructions for your set-up if needed.
There are many ways to wire multi-point control set-ups so unless you can match your wiring to the diagrams here, please don't attempt the installation for your own safety.
www.support.getzooz.com
ask@getzooz.com

Parameter no.	Size (bytes)	Range	Default value	Values	Label	Short Description	Full Description
1	1	0/1/2/3	0	0 – LED on when switch off 1 – LED on when switch on 2 – LED always off 3 – LED always on	LED Indicator	Choose if you want the LED indicator to turn on when the dimmer (light) is on or off, or if you want it to remain on or off at all times.	Choose if you want the LED indicator to turn on when the dimmer (light) is on or off, or if you want it to remain on or off at all times. Values: 0 – LED on when switch off (middle part of LED bar lit up when off, LED's show new brightness level during dimming, LED stays on for 2 seconds once new brightness level is set) 1 – LED on when switch on (LED off when the dimmer is off, LED's show new brightness level during dimming, LED stays on at the selected level once the new brightness level is set) 2 – LED always off (LED's do not show new brightness level during dimming) 3 – LED always on (middle part of LED bar lit up when off, LED's show new brightness level during dimming, LED stays on at the selected level once the new brightness level is set)
2	1	0-6	0	0 – white 1 – blue 2 – green 3 – red 4 – yellow 5 – cyan 6 – magenta	LED Indicator Color	Choose the color of the LED indicator. 0 – white, 1 – blue, 2 – green, 3 – red, 4 – yellow, 5 – cyan, 6 – magenta.	Choose the color of the LED indicator. 0 – white, 1 – blue, 2 – green, 3 – red, 4 – yellow, 5 – cyan, 6 – magenta.
3	1	1-100	50	1-100 (%)	LED Indicator Brightness	Choose the LED indicator's brightness level from 1 to 100%.	Choose the LED indicator's brightness level from 1 to 100%.
4	4	0~65535	0	0 – Timer disabled 1-65535 (minutes)	Auto Turn-On Timer	Auto-on timer will automatically turn the dimmer on after x minutes once it has been turned off.	Use this parameter to enable or disable the auto turn-on timer function (the time after which you want the dimmer to automatically turn on once it has been turned off).
5	4	0~65535	0	0 – Timer disabled 1-65535 (minutes)	Auto Turn-Off Timer	Auto-off timer will automatically turn the dimmer off after x minutes once it has been turned on.	Use this parameter to enable or disable the auto turn-off timer function (the time after which you want the dimmer to automatically turn off once it has been turned on).
6	1	0-7	7	0 – Disable timer 1 – Enable if turned from by button 2 – Enable if turned from by 3-way switch 3 – Enable if turned from by button or 3-way switch 4 – Enable if turned from by Z-Wave 5 – Enable if turned from by Z-Wave or button 6 – Enable if turned from by Z-Wave or 3-way switch 7 – Enable if turned from by Z-Wave, button, or 3-way switch	Auto Turn-On Timer Trigger	Decide when the auto-on timer is triggered. Expert users only, see documentation for details.	Decide when the auto-on timer is triggered. Expert users only, see documentation for details. Values: 0 – Disable timer 1 – Enable if turned from by button 2 – Enable if turned from by 3-way switch 3 – Enable if turned from by button or 3-way switch 4 – Enable if turned from by Z-Wave 5 – Enable if turned from by Z-Wave or button 6 – Enable if turned from by Z-Wave or 3-way switch 7 – Enable if turned from by Z-Wave, button, or 3-way switch
7	1	0-7	7	0 – Disable timer 1 – Enable if turned on from button 2 – Enable if turned on from 3-way switch 3 – Enable if turned on from button or 3-way switch 4 – Enable if turned on from Z-Wave 5 – Enable if turned on from Z-Wave or button 6 – Enable if turned on from Z-Wave or 3-way switch 7 – Enable if turned on from Z-Wave, button, or 3-way switch	Auto Turn-Off Timer Trigger	Decide when the auto-off timer is triggered. Expert users only, see documentation for details.	Decide when the auto-off timer is triggered. Expert users only, see documentation for details. Values: 0 – Disable timer 1 – Enable if turned on from button 2 – Enable if turned on from 3-way switch 3 – Enable if turned on from button or 3-way switch 4 – Enable if turned on from Z-Wave 5 – Enable if turned on from Z-Wave or button 6 – Enable if turned on from Z-Wave or 3-way switch 7 – Enable if turned on from Z-Wave, button, or 3-way switch
8	1	0/1	0	0 – scene control disabled 1 – scene control enabled	Scene Control	Enable or disable scene control functionality for quick multi tap triggers.	Enable or disable scene control functionality for quick multi tap triggers.

9	1	0/1	0	0 – scene indicator disabled 1 – scene indicator enabled	Scene Indicator	Enable the LED indicator to signal when a central scene event is triggered from any of the buttons (see documentation for details).	Enable the LED indicator to signal when a central scene event is triggered from any of the buttons according to the following pattern: - Top switch button: white - Left dimmer button: blue - Right dimmer button: green - 3-way switch: red - 1-tap: 1 LED on the right lights up for 2 seconds - 2-tap: 2 LED's on the right light up for 2 seconds - 3-tap: 3 LED's on the right light up for 2 seconds - Held: All LED's on the left and right side light up for 2 seconds
10	1	0/1	0	0 – programming enabled 1 – programming disabled	Disable Button Programming	Enable (0) or disable (1) programming functionality on the dimmer buttons. Expert users only, changes not recommended.	Enable or disable programming functionality on the dimmer buttons. If this setting is disabled, then inclusion, exclusion, smart bulb mode no longer work when dimmer buttons are activated (factory reset and scene control will still work). That means you can now use triple-tap triggers on the switch for scenes and remote control of other devices.
11	1	0/1/2	1	0 – Disable buttons 1 – Enable buttons and Z-Wave 2 – Disable buttons and Z-Wave	Load Control (Smart Bulb Mode)	Enable or disable physical and Z-Wave on/off and dimming control. Disable both for smart bulbs.	Enable or disable physical and Z-Wave on/off and dimming control. Disable both physical button and Z-Wave control for smart bulbs (use central scene triggers). Scene control and other functionality will still be available from buttons.
12	1	0/1/2	2	0 – always off once restored 1 – always on once restored 2 – remembers and restores status	On/Off Status After Power Failure	Set the on off status for the dimmer after power failure.	Set the on off status for the dimmer after power failure.
13	1	0/1	0	0 – enable motion trigger 1 – disable motion trigger	Disable Motion Trigger	Enable (0) or disable (1) motion trigger to control the connected light.	Enable or disable motion trigger to control the connected light. If disabled, the built-in motion sensor will no longer automatically turn on or turn off the light connected to the dimmer.
14	1	0/1/2/3	1	0 – disable both sensors 1 – motion sensor always enabled 2 – motion sensor enabled in night mode only 3 – only lux sensor enabled (dusk to dawn mode)	Sensor Mode	Choose the sensor mode for your motion dimmer. Disable motion sensor, enable only in night mode, or disable both sensors.	Choose the sensor mode for your motion dimmer. Values: 0 – disable both sensors 1 – motion sensor always enabled 2 – motion sensor enabled in night mode only 3 – only lux sensor enabled (dusk to dawn mode)
15	2	1-1000	25	1-1000 (lux)	Night Mode	Set the lux value for night mode (when the lux sensor signals "night" / "it's dark" to the dimmer).	Set the lux value for night mode (when the lux sensor signals "night" / "it's dark" to the dimmer). If 25 lux is entered as night mode, the device will go into night mode if the light sensor reports 25 lux or lower. The value set in this parameter needs to be lower than the value set in parameter 16 (day mode).
16	2	1-1000	100	1-1000 (lux)	Day Mode	Set the lux value for day mode (when the lux sensor signals "day" / "there's enough natural light" to the dimmer).	Set the lux value for day mode (when the lux sensor signals "day" / "there's enough natural light" to the dimmer). If 100 lux is entered as day mode, the device will go into day mode if the light sensor reports 100 lux or higher. The value set in this parameter needs to be higher than the value set in parameter 15 (night mode).

17	2	0~3600	30	0-3600 seconds	Motion Clear Delay	Set the amount of time the device waits to send a motion clear notification after the last motion event is detected.	Set the amount of time the device waits to send a motion clear notification after the last motion event is detected. The values are set in seconds.
18	2	0~1200	0	0 – dimmer on until day mode or manual override 1-1200 (minutes)	Auto Turn-Off After Dusk	The dimmer turns off after x number of minutes when turned on in night mode and when parameter 14 is set to value 3.	The dimmer turns off after x number of minutes when turned on in night mode and when parameter 14 is set to value 3. Keep the dimmer on until day mode (dawn) or manual override with value 0. The values correspond to the number of minutes for the timer.
19	2	0~200	20	0 – Lux reporting based on changes disabled 1-200 lux	Lux Reporting Threshold	Set the threshold for lux reporting. Set value to 0 to to ignore changes and report based on frequency.	Set the threshold for lux reporting. Set value to 0 to to ignore changes and report based on frequency.
20	1	5~120	10	5-120 minutes	Lux Reporting Frequency	Set the reporting interval for lux. Values 5-120 (minutes) will send a report regardless of the reporting threshold setting.	Set the reporting interval for lux.Values 5-120 (minutes) will send a report regardless of the reporting threshold setting in parameter 19. This means that the set value will force a report even the lux level has not changed.
21	1	1-10	5	1-10 — 1 indicates the lowest sensitivity and 10 indicates the highest sensitivity.	Motion Sensitivity	Set motion sensitivity for the motion detector to minimize false alerts. Set 1 to the lowest sensitivity level or 10 to the highest.	Set motion sensitivity for the motion detector to minimize false alerts. Value 1 indicates the lowest sensitivity and 10 indicates the highest sensitivity.
22	1	0~200	100	0-99 – negative offset 100 – no offset 101-200 – positive offset	Lux Offset	Set the lux reporting offset. Value 100 = no offset. Refer to documentation for more details. Expert users only.	Set the lux reporting offset. Value 100 means no offset, values 0-99 decrease the value (ex: 75 means deduct 25 lux from the measured value), values 101-200 increase the value (ex: value 147 means add 47 lux to the measured value).
23	1	0/1	0	0 – LED indicator flashes to confirm a setting change 1 – LED indicator doesn't flash if a setting is changed	Disable LED Indicator Flash On Setting Change	Choose if the LED should flash whenever a parameter is adjusted on the device to confirm the change (0) or disable this feature (1).	Enable / disable LED indicator for setting changes. Choose if you want the LED indicators to flash whenever a parameter (settings) is adjusted on the device to confirm the change. Disable this feature if you're using the LED indicators in automations.

24	1	0~99	0	0 – instant on 1-99 (seconds)	Physical Ramp Rate ON	Adjust the ramp rate ON for your dimmer when the top button is pressed for a smooth fade-in effect (in seconds).	Adjust the ramp rate ON for your dimmer when the top button is pressed (physical ramp rate on). Values correspond to the number of seconds it takes for the dimmer to reach full brightness when operated manually.
25	1	0~99	2	0 – instant off 1-99 (seconds)	Physical Ramp Rate OFF	Adjust the ramp rate OFF for your dimmer when the top button is pressed for a smooth fade-out effect (in seconds).	Adjust the ramp rate OFF for your dimmer when the top button is pressed (physical ramp rate off). Values correspond to the number of seconds it takes for the dimmer to completely turn off when operated manually.
26	1	1~99	5	1-99 (seconds)	Dimming Speed	Set the number of seconds it takes to get from 0% to 100% brightness when pressing and holding the dimming button (physical dimming).	Set the time it takes to get from 0% to 100% brightness when pressing and holding the dimming button (physical dimming). The number entered as value corresponds to the number of seconds.
27	1	0~99/255	255	0 – instant on 1-99 (seconds) 255 – match physical	Z-Wave Ramp Rate ON	Adjust the ramp rate ON for your dimmer when controlled with Z-Wave for a smooth fade-in effect (in seconds).	Adjust the ramp rate ON for your dimmer when controlled with Z-Wave for a smooth fade-in effect (in seconds). Values correspond to the number of seconds it takes for the dimmer to reach full brightness when controlled with Z-Wave commands. Use value 255 to match the physical settings in parameter 24.
28	1	0~99/255	255	0 – instant off 1-99 (seconds) 255 – match physical	Z-Wave Ramp Rate OFF	Adjust the ramp rate OFF for your dimmer when controlled with Z-Wave for a smooth fade-out effect (in seconds).	Adjust the ramp rate OFF for your dimmer when controlled with Z-Wave for a smooth fade-out effect (in seconds). Values correspond to the number of seconds it takes for the dimmer to completely turn off when controlled with Z-Wave commands. Use value 255 to match the physical settings in parameter 25.
29	1	1~99	5	1-99 (seconds)	Remote Z-Wave Dimming Duration	Set the number of seconds it takes to get from 0% to 100% brightness on dimmers and smart bulbs directly associated with ZEN12 in Groups 3 and 4.	Set the time it takes to get from 0% to 100% brightness on dimmers and smart bulbs directly associated with your dimmer in Groups 3 and 4 when pressing and holding the buttons (physical dimming) on your dimmer. The number entered as value corresponds to the number of seconds.
30	1	1~99	1	1-99 (%)	Minimum Brightness	Set the minimum brightness level (in %) for your dimmer. You won't be able to dim the light below the set value.	Set the minimum brightness level (in %) for your dimmer. You won't be able to dim the light below the set value.

31	1	1~99	99	1-99 (%)	Maximum Brightness	Set the maximum brightness level (in %) for your dimmer. You won’t be able to add brightness to the light beyond the set value.	Set the maximum brightness level (in %) for your dimmer. You won’t be able to add brightness to the light beyond the set value.
32	1	0/1/2/3	0	0 – on to full brightness 1 – on to the custom brightness (from param 34) 2 – on to max brightness (from param 31) 3 – double tap disabled	Top Button Double Tap	Choose what you'd like the dimmer to do when you double-tap the top button.	Choose what you'd like the dimmer to do when you double-tap the top button. This is a different setting than scene control so remember to program only one of the settings to avoid logical conflict.
33	1	0/1/2/3	0	0 – on to the last brightness level 1 – on to the custom brightness (from param 34) 2 – on to max brightness (from param 31) 3 – on to full brightness	Top Button Single Tap	Choose what you'd like the dimmer to do when you tap the top button once.	Choose what you'd like the dimmer to do when you tap the top button once. This is a different setting than scene control so remember to program only one of the settings to avoid logical conflict.
34	1	0~99	0	0 – last brightness level 1-99 (%)	Top Button Custom Brightness On	Set the custom brightness level (or leave the last brightness level) for single tap and double tap (see params 32 and 33) on the top button.	Set the custom brightness level (instead of the last set brightness level) you want the dimmer to come on to when you single tap or double tap the top button (see params 32 and 33).
35	1	0/1/2/3	0	0 – Toggle on/off switch 1 – Toggle switch with dimming mode 2 – Momentary switch (ZAC99) 3 – Momentary switch (ZAC99) with smart sequence	3-Way Switch Type	Choose the type of 3-way switch you want to use with this dimmer in a 3-way set-up.	Choose the type of 3-way switch you want to use with this dimmer in a 3-way set-up. Values: 0 – regular mechanical 3-way on/off switch, use the connected 3-way switch to turn the light off or on to the last brightness level, dimming only available from the Zooz Z-Wave dimmer and from the hub (or through voice control if smart speaker is integrated with your Z-Wave hub) 1 – regular mechanical 3-way on/off switch, tap the paddles once to change state (light on or off), tap the paddles twice quickly to turn light on to full brightness, tap the paddles quickly 3 times to enable a dimming sequence (the light will start dimming up and down in a loop) and tap the switch again to set the selected brightness level. Slight delay when triggered (since the switch needs to recognize multi-tap triggers in this mode). 2 – momentary switch, click once to change status (light on or off), click twice quickly to turn light on to full brightness, press and hold to adjust brightness (dim up / dim down in sequence). Slight delay when triggered (since the switch needs to recognize multi-tap triggers in this mode). 3 – momentary switch, click once to change status (light on or off), click twice quickly to turn light on to full brightness, press and hold to adjust brightness (dim up / dim down in sequence but always reduce brightness after double click).
36	1	0/1/2	2	0 – Reports each brightness level if physical and Z-Wave control disabled (reports final level if physical and Z-Wave control enabled) 1 – Always reports final brightness level only (Z-Wave multilevel reports, physical basic reports) 2 – Reports each brightness level if physical and Z-Wave control disabled (reports final level if physical and Z-Wave control enabled), all multilevel reports	Multilevel Dimming Reports	Choose how you'd like the dimmer to report when paddles are tapped and held and physical / Z-Wave control is enabled or disabled.	Choose how you'd like the dimmer to report when paddles are tapped and held and physical / Z-Wave control is enabled or disabled. See parameter 12 (smart bulb mode) for details.
37	1	0/1	0	0 – scene control disabled commands from the remote 3-way switch disabled 1 – scene control commands from the remote 3-way switch enabled	Scene Control From Remote 3-Way Switch	Enable scene control functionality from the momentary switch connected to ZEN12 in a 3-way installation.	Enable scene control functionality from the momentary switch connected to ZEN12 in a 3-way installation. If enabled, you will be able to trigger double tap and triple tap scenes from the Zooz smart dimmer AND the momentary switch connected to it in a 3-way set-up.

38	2	1-3600	10	1-3600 seconds	Manual Override Timer	The dimmer resumes sensor triggers after x number of seconds when turned on or off physically from the buttons or via Z-Wave.	The dimmer resumes sensor triggers after x number of seconds when turned on or off physically from the buttons or via Z-Wave. Use this setting to temporarily disable the motion and lux sensors as triggers for your device when you manually override it from the buttons or your Z-Wave hub.
39	1	0~99	0	0 – last brightness level 1-99 (%)	Basic Set Custom Brightness On	Set custom brightness (or leave last brightness) for Basic Set ON commands when the ZEN12 is triggered by another device in direct association.	Set the custom brightness level (or leave the last brightness level) for for Basic Set ON commands when the ZEN12 is triggered by another device in direct association.
40	1	0/1	0	0 – multi-tap for scene control enabled 1 – multi-tap for scene control disabled	Scene Control Multi-Tap	Disable multi-tap scene control so that only single taps report via central scene.	Disable multi-tap scene control so that only single taps report via central scene. Once this functionality is disabled, double taps, held, released, 3-tap, 4-tap, and 5-tap scene events will be ignored and won't be reported to the hub.
41	1	10~50	10	10-50 = 1.0 – 5.0 gamma	Gamma Factor	Adjust the gamma factor for your dimmer to improve dimming performance (experts only). See documentation for details.	The gamma factor in a dimmer setting defines how the output brightness responds to input control changes, shaping the perceived light intensity. A higher gamma makes dimming more gradual at low levels, while a lower gamma results in a more linear or abrupt transition. Values: 10-50 = 1.0 – 5.0 gamma
42	1	0/1	0	0 – Reports status / changes LED 1 – Doesn't report status / change LED	Disabled Load Behavior	Set reporting behavior for disabled physical control of the load connected to the dimmer (smart bulb mode).	Set reporting behavior for disabled physical control of the load connected to the dimmer (smart bulb mode). 0 – switch reports on/off and brightness level status and change LED indicator state even if physical and Z-Wave control is disabled (default). 1 – switch doesn't report on/off or brightness level status or change LED indicator state when physical (and Z-Wave) control is disabled.
43	1	0~99	20	0 – feature disabled 1 – 99 (%)	Night Light	Set the brightness level the dimmer will turn on to when off and when the left dimming button is held DOWN for 2 seconds.	Set the brightness level the dimmer will turn on to when off and when the left dimming button is held DOWN for 2 seconds.
44	1	0/1	0	0 – disabled 1 – enabled	On Off Switch Mode	Convert the dimmer to an on off switch. When enabled, the dimmer will behave as a switch without the ability to dim.	Convert the dimmer to an on off switch. When enabled, the dimmer will behave as a switch without the ability to dim. All ramp rates will be set to instant ON/OFF and the brightness level will locked at 99%.
45	1	0-7	0	0 – off 1 – white 2 – blue 3 – green 4 – red 5 – yellow 6 – cyan 7 – magenta	LED Indicator Multi-Color	Set the color of the LED indicator in opposite switch state (instead of off). 0 – off, 1 – white, 2 – blue, 3 – green, 4 – red, 5 – yellow, 6 – cyan, 7 – magenta.	Choose the color of the LED indicator in opposite switch state (instead of off) when the LED indicator mode (parameter 2) is set to values 0 or 1. The color chosen in this setting will apply instead of the default "off" value (LED doesn't light up). 0 – off, 1 – white, 2 – blue, 3 – green, 4 – red, 5 – yellow, 6 – cyan, 7 – magenta.
46	1	0/1	0	0 – left button dims, right button increases brightness 1 – left button increases brightness, right button dims	Dimming Button Orientation	Choose if you want the left or right dimming button to increase brightness and dim the connected light. Value 1 to reverse default.	Choose if you want the left or right dimming button to increase brightness and dim the light. By default, the left button dims the light and the right button increases brightness. Values: 0 – left button dims, right button increases brightness 1 – left button increases brightness, right button dims

Supported Command Classes

Z-Wave Plus Info	V2
Transport service	V2
Security 2	V1
Supervision	V1
Switch Multilevel	V4
Notification	V8
Sensor Multilevel	V11
Configuration	V4
Central Scene	V3
Association	V2

Multi channel association	V3
Association group information	V3
Version	V3
Manufacture specific	V2
Device reset locally	V1
Indicator	V3
Power level	V1
Firmware Update	V5