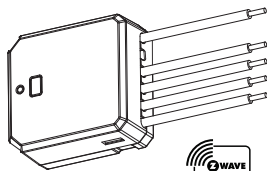


DC SIGNAL SENSOR  
ZEN55 LR

**ZOOZ™**  
bright ideas  
www.getzooz.com  
ask@getzooz.com



FEATURES

- Z-Wave alerts from low-voltage trigger signals
- Connect to smoke or CO detectors to monitor activity
- 120 V relay to control a security siren or lights
- Installs in the box with the last smoke detector in series
- **800 series Z-Wave** chip for better range and faster control
- **Z-Wave Long Range** for ultra reliable no-mesh communication
- Advanced settings to customize the device's behavior
- Built-in Z-Wave signal repeater for boosted communication
- SmartStart and S2 Authenticate Security for a safer network

SPECIFICATIONS

- Model Number: ZEN55 LR
- Power Input: 100-240 VAC, 50/60 Hz
- **Maximum Load:** 10 A
- Range: Up to 300 feet line of sight (or up to a mile with LR)
- 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 DC Signal Sensor. 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. 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; any device over 32 V DC power; or a transformer-supplied fixture. Use with low-voltage inputs only.

**BEFORE YOU INSTALL**

This device is intended for installation in accordance with the National Electric Code and local regulations. It is recommended that a licensed electrician perform this installation. This is NOT a security alarm component and the device is NOT part of a life-safety system. Check local regulations before installing.

WIRING: READ IT!

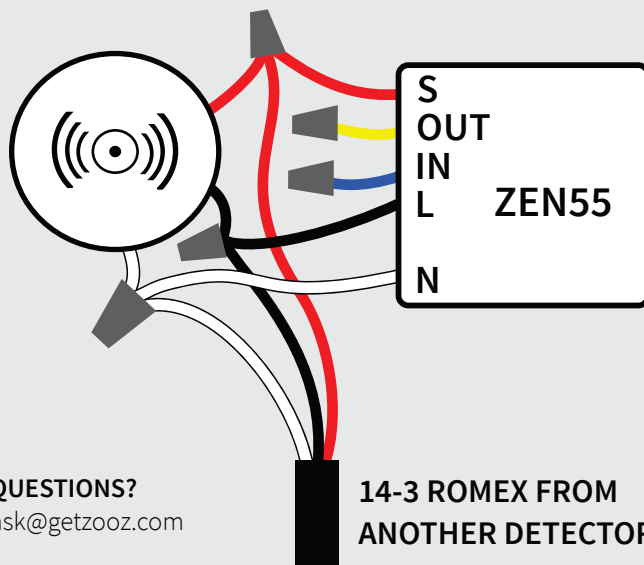
- 1. LOCATE THE DETECTOR:** install the DC Signal Sensor in the box with the last smoke detector in series, it will only have 3 wires in the box (usually black, white, and red).
- 2. POWER OFF:** turn the circuit power off in the breaker panel before you start.
- 3. CHECK THE WIRES:** mark the interconnect alarm wire (usually red), power line (usually black), and neutral (white). **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. DISCONNECT THE DETECTOR:** remove the wires from the smoke detector and label them accordingly.
- 5. CONNECT THE DC SIGNAL SENSOR:** follow all installation steps carefully. Wire the device EXACTLY like in the diagram. Depending on your set-up, you may need a custom diagram to connect a load to the relay part of the DC Signal Sensor. These instructions only cover the basic wiring for smoke and CO alarm monitoring from an existing interconnect detector. Scan the QR code on page 3 to access more wiring diagrams and expanded instructions for different installation types.

- 1** Cap the **IN** and **OUT** wires on the ZEN55.
- 2** Connect the interconnect wire (usually red) on the smoke detector to the **S** pigtail on the ZEN55.
- 3** Connect the **L** pigtail on the ZEN55 to the line bundle from the 120 V power source (usually black).
- 4** Connect the **N** pigtail on the ZEN55 to the neutral bundle from the 120 V power source (usually white).

INTERCONNECT SMOKE DETECTOR



QUESTIONS?  
ask@getzooz.com

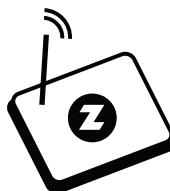
14-3 ROMEX FROM  
ANOTHER DETECTOR

COMPLETE INSTALLATION

Secure your Z-Wave DC Signal Sensor and the smoke / CO detector back in the box, handling the wires with care. Restore power to the circuit.

If using SmartStart to add your device to the Z-Wave hub, please wait with putting it back into the box since you'll need to scan the QR code on the DC Signal Sensor and activate it for inclusion. Turn the power off at the breaker again before putting the wires back into the box.

Z-WAVE CONTROL

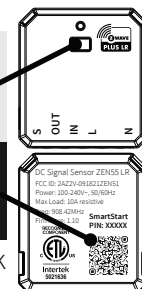


- 1. ADD DEVICE** to your hub  
Initiate inclusion (pairing) in the app (or web interface). Check Long Range if using. Not sure how? Scan one of the QR codes below for step-by-step instructions or get in touch: [www.support.getzooz.com](http://www.support.getzooz.com)
- Finalize inclusion at the device. **TAP THE Z-WAVE BUTTON 3 TIMES QUICKLY** if using traditional Z-Wave inclusion.

**SCAN THE QR CODE / ENTER THE 5-DIGIT PIN** if using the new SmartStart method.

The SmartStart security PIN is located on the back of the device, next to the ETL logo.

The LED indicator will blink green 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](mailto: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.



Z-Box Hub



Habitat



Home Assistant



SmartThings

Get more tutorials and helpful tips at [www.support.getzooz.com](http://www.support.getzooz.com)

**Register your product for extended warranty and direct access to firmware files: [getzooz.com/register](http://getzooz.com/register)**

## INSTALLATION TIPS

- Always turn off the power at the breaker before handling the wiring, this is a 120 V high-voltage installation.
- Analog interconnected smoke detectors required (sold separately) - this DC Signal Sensor only translates the signal from your existing alarms to Z-Wave.
- Use with any standard interconnect smoke alarms.
- When adding the DC Signal Sensor to your hub, you may need to scan the QR code or enter the PIN code located on the back of the device (if your system supports SmartStart). Refer to the Z-Wave Control portion of the manual for detailed instructions.
- Test the detector's alarm (follow the instructions for your unit) to see if the status of the Signal Sensor changes in your hub's interface once the alarm goes off. Remember to warn your family members or roommates when testing this!
- You'll need to create an automation in your hub for a notification to be sent to your phone or email once the status on the DC Signal Sensor changes to "alarm detected" so you can immediately know if the detector is triggered.
- **Remember that this DC Signal Sensor is NOT designed to be a part of your alarm panel and is NOT a life safety device.**

SCAN FOR MORE  
WIRING DIAGRAMS



## TROUBLESHOOTING

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

1. Initiate **EXCLUSION** and click the Z-Wave button 3 times quickly.
2. Click the Z-Wave button **4-5 times quickly** to add.
3. Bring the gateway controller (hub) **closer** to the device, it may be out of range.
4. Get troubleshooting tips for your hub at [www.support.getzooz.com](http://www.support.getzooz.com)

### EXCLUSION (REMOVING / UNPAIRING DEVICE)

1. Bring your Z-Wave hub close to the device if possible
2. Put the Z-Wave hub into **exclusion mode** (not sure how to do that? ask@getzooz.com)
3. Click the **Z-Wave button** on the device **3 times quickly** (the LED indicator will start blinking green)
4. Your hub will confirm exclusion, the LED indicator on the device will turn green for 2 seconds, and the ZEN55 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 ZEN55, **click the Z-Wave button once and immediately after, press and hold it down for 15 seconds.** The LED indicator will flash during the process and turn red for 3 seconds to confirm successful reset.

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

### ⚠ 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 device 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.

## ADVANCED SETTINGS

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

- **Relay behavior** when alarm is triggered
- **Disable LED indicator** status
- **Timer** functionality for the relay
- On/off relay status after **power failure**
- **Association behavior** for the alarm

### 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 device on your hub.



Z-Box Hub



Hubitat



Home Assistant



SmartThings

### ASSOCIATION

This DC Signal Sensor supports Group 1 with up to 5 devices for Lifeline Group communication and Groups 2-4 with up to 5 devices. This device will send BASIC REPORT and NOTIFICATION REPORT to Group 1 and BASIC SET command to groups 2, 3, and 4. You can set direct association to have the DC Signal Sensor control another Z-Wave device independently of the hub by using Groups 2 - 4. Not every hub exposes direct association settings in the interface so please go to [www.support.getzooz.com](http://www.support.getzooz.com) to see if your system allows for direct association.



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.

### WARRANTY

This product is covered under a 1-year limited warranty and extender 5-year warranty once registered. To read the full warranty policy or file a warranty claim, please go to [www.getzooz.com/warranty](http://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 DAMAGES. ZOOZ'S LIABILITY AND CUSTOMER'S EXCLUSIVE REMEDY FOR ANY CAUSE OF ACTION ARISING IN CONNECTION 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 DAMAGES 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 DELIVERY 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