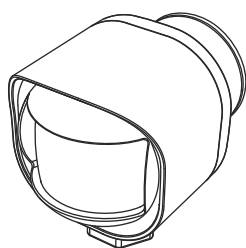




OUTDOOR MOTION SENSOR

ZSE70 800LR

Scan to register your product for extended warranty and more perks.



www.getzooz.com



FEATURES

- Quick and reliable motion alerts to Z-Wave hub
- Accurate temperature monitoring
- Lux sensor for smart light automations
- 800 series Z-Wave chip + SmartStart technology
- Z-Wave Long Range for no-mesh communication
- Battery or 12-24 V power with sealed terminals
- Rated for indoor or outdoor use

SPECIFICATIONS

- Model Number: ZSE70 800LR
- Z-Wave Region: CA/US/MX
- Power: 2 x CR123A (3 V) batteries / 12-24 V AC/DC
- Motion Detection: up to 30 feet
- Temperature Range: -10°C to 50°C / 14°F to 122°F ±2°C / 1°F accuracy
- Light Sensor Range: 0 LUX to 30000 LUX with ±20% accuracy
- Dimensions: 2.34" x 2.4" x 2.75"
- Range: Up to 130 ft line of sight up to 1300 ft with LR)
- Installation and Use: Indoor or outdoor (IP66)

INSTALLATION

1. CHOOSE POWER SOURCE

You can use 2 CR123A lithium batteries to power the sensor. They'll last around a year depending on traffic, reporting settings, and general quality of the batteries. OR you can use the optional 12-24 V power supply (insert wires using the sealed terminals) and not worry about batteries at all. If powering by 12-24 V and keeping the battery as back-up, **please note that if you include the sensor with the 12 V wires plugged in, it will keep the Z-Wave radio on at all times which will drain the batteries within 48 hours once the 12 V power source is disconnected.**

2. INSTALL BATTERIES / USB POWER

Twist the back cover counter clockwise to open it and access the **batteries**. Pull on the battery tab to power the sensor. The LED indicator will start blinking.

If using **12-24 V**, replace the bottom cap with terminal seal. Unscrew the cap and connect 12-24 V wires to the terminals (follow polarity). Install the cover: gently mount the 3 pieces included in the box starting with the frame, then add the seal, and screw the cover on. Scan the QR code and follow the link to watch a video on how to install the 12-24 V power source.



3. TEST THE SENSOR

Once the device is powered, the LED indicator will start blinking if the sensor hasn't been included to your Z-Wave network yet. If it's already part of your network, it will light up for 2 seconds and flash once.

The LED indicator doesn't blink or light up at all?

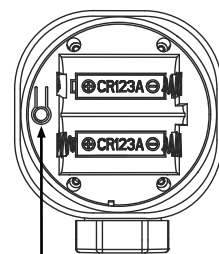
- Make sure the batteries are inserted correctly per the positive / negative pole marks.
- Try fresh lithium non-rechargeable batteries.
- Make sure your 12-24 V connections are firm and the power supply is functional.
- Click the Z-Wave button 3 times as quickly as possible to force inclusion/exclusion mode in case you missed when it first flashed.

1. ADD DEVICE to your hub (SmartStart)

**Initiate inclusion (pairing)** in the app (or web interface). Not sure how? ask@getzooz.com  
If you're using an S2 hub, it will ask you to enter the DSK key or scan the QR code printed on the sticker on the side of the cover to complete SmartStart inclusion.

2. POWER the sensor

Insert the batteries or the 12 V wires. The LED indicator will start blinking and the sensor will join the network automatically once you scan the code.



Z-WAVE BUTTON

**IMPORTANT!**

**NEVER include the sensor powered with 12 V and then switch over to batteries. Your hub will recognize the sensor as a Z-Wave repeater and the batteries will drain quickly. Always include the sensor powered by batteries only if you're planning to use it as a battery device.**



MANUAL INCLUSION

Put your Z-Wave hub into inclusion mode and **click the Z-Wave button 3 times** as quickly as possible. The LED indicator will start blinking to confirm inclusion mode and turn off once inclusion is completed. The sensor will automatically pair as a repeater if connected to 12-24 V power, no special button sequence required.

**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



SmartThings



Hubitat



Home Assistant

TROUBLESHOOTING

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

1. Initiate **EXCLUSION** in your hub and click the Z-Wave button 3 times as quickly as possible.
2. Click the Z-Wave button **4-5 times as quickly as possible** when including it.
3. Bring the sensor **closer** to your hub, it may be out of range.
4. Double-check if the device is powered.
5. Get troubleshooting tips specific to your hub at [www.support.getzooz.com](http://www.support.getzooz.com)

EXCLUSION (REMOVING / UNPAIRING DEVICE)

1. Bring the sensor within **direct range** of your Z-Wave gateway (hub).
2. Put the Z-Wave hub into **exclusion** mode (not sure how to do that? ask@getzooz.com).
3. Press and release the **Z-Wave button 3 times** quickly.
4. Your hub will confirm exclusion and the sensor will disappear from your controller's device list.

FACTORY RESET

When your network's primary controller is missing or otherwise inoperable, you may need to reset the device to factory settings manually. In order to complete the process, make sure the sensor is powered, then **hold the Z-Wave button down for at least 10 seconds**. The LED indicator will start flashing blue and turn solid blue for a couple of seconds to indicate successful reset. **NOTE: All previously recorded activity and custom settings will be erased from the device's memory.**

WAKE-UP MODE

The sensor's wake-up interval is set to 4 hours by default to save battery life. Use the Wake Up Command Class to adjust the interval (in seconds, working in 3600s intervals, with 3600 as min and 86400 as max values). **Click the Z-Wave button once to wake the sensor up manually.** During wake-up, the sensor turns the Z-Wave radio for 10 seconds to receive communication **from** the hub. Long wake-up interval will not affect how often the sensor reports motion or other values **to** your hub.

## ASSOCIATION

This device supports Group 1 with 5 nodes for Lifeline communication and Group 2 with up to 5 devices for basic on/off control. This device will send a Notification and Sensor Multilevel Report to Group 1 and Basic Set command to Group 2 whenever it detects motion.

## ADVANCED SETTINGS

**Parameter 1:** Adjust **motion sensitivity** where 8 is the most sensitive setting.

**Values:** 0 - disable motion reports; 1-8. Default: 6.

**Size:** 1 byte dec

**Parameter 2:** Set **motion clear time** for the delay before the sensor reports no motion to the hub and associated devices after detecting the last motion activity.

**Values:** 10-3600 (seconds). Default: 30.

**Size:** 2 byte dec

**Parameter 6:** Enable or disable **LED indicator for motion alerts**.

**Values:** 0 - don't flash LED when motion is detected; 1 - flash LED indicator when motion is detected (default).

**Size:** 1 byte dec

**Parameter 12:** Set **the reporting threshold for temperature**.

The sensor will report new temperature value to the hub whenever temperature changes by the number of degrees entered as value.

**Values:** 0 - disable temperature reports. 1 - 144 (degrees Fahrenheit). Default: 1 (degree).

**Size:** 2 byte dec

**Parameter 13:** Set **the reporting threshold for lux**. The sensor will report new lux value to the hub whenever the brightness level changes by the number of lux entered as value.

**Values:** 0 - disable lux reporting based on environmental changes; 1-30000 (lux). Default: 50 (lux).

**Size:** 2 byte dec

**Parameter 16:** Program **the dusk to dawn feature**. The sensor will report motion to the hub only when the lux level goes below the value set in this parameter.

**Values:** 0 - the sensor will always report motion events to the hub, regardless of lux level (default); 1-30000 (lux).

**Size:** 2 byte dec

**Parameter 17:** Set **the reporting frequency for temperature**.

This is the minimum interval in which the sensor will send updates to the hub even if the reporting threshold isn't met. The values entered correspond to the number of seconds.

**Note: Frequent reports will affect battery life.**

**Values:** 0 - reporting based on threshold only. 1- 43200 (seconds). Default: 0

**Size:** 2 byte dec

**Click the Z-Wave button once to wake the sensor up after updating the settings.**

We listed the most helpful settings above. For a complete list of parameters, go to [www.support.getzooz.com](http://www.support.getzooz.com)

## MOUNTING

Use the 2 screws included in the box to fix the mounting bracket to a flat surface of your choice - at least 7 feet above the ground for best results.

### A FEW TIPS:

- The sensor best detects movement to the sides of the lens rather than activity directly in front of it.
- Use a standard phillips screwdriver to attach the mounting screws.
- The sensor can be safely mounted indoors or outdoors, avoid extreme temperatures and don't submerge in water.
- Don't position it facing up into direct sunlight or above any source of heat (radiator, boiler, etc.).

### 1. MARK SCREW HOLES

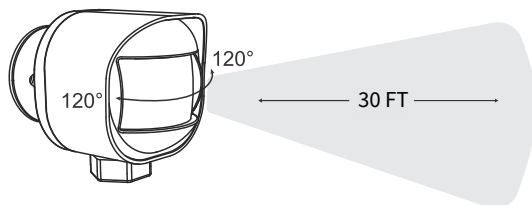
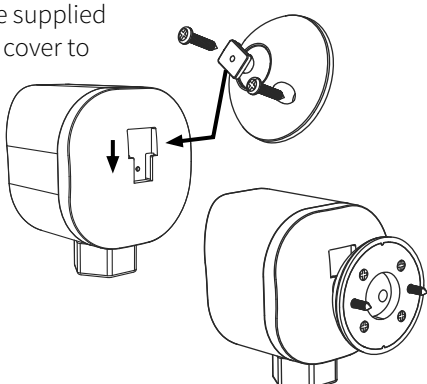
Use the bracket to mark 2 mounting holes on a dry clean surface 7 feet above ground. Skip this step if using tape.

### 2. INSTALL THE BRACKET

Drill holes and use the supplied screws to fix the back cover to the wall.

### 3. MOUNT SENSOR

Attach the sensor to the back cover by snapping it down. Position the sensor to face your desired coverage area.



## ! WARNING

- This product should be installed indoors or outdoors in a sheltered area 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.
- No part of the device may be replaced or repaired by the user except for the batteries.

## COMMAND CLASSES

This device requires the following **command classes** to be supported and recognized by your Z-Wave controller:

```
COMMAND_CLASS_ZWAVEPLUS_INFO_V2
COMMAND_CLASS_TRANSPORT_SERVICE_V2
COMMAND_CLASS_SECURITY_0_V1
COMMAND_CLASS_SECURITY_2_V1
COMMAND_CLASS_SUPERVISION_V1
COMMAND_CLASS_APPLICATION_STATUS_V1
COMMAND_CLASS_NOTIFICATION_V8
COMMAND_CLASS_BATTERY_V1
COMMAND_CLASS_WAKE_UP_V2
COMMAND_CLASS_CONFIGURATION_V4
COMMAND_CLASS_ASSOCIATION_V2
COMMAND_CLASS_ASSOCIATION_GRP_INFO_V3
COMMAND_CLASS_VERSION_V3
COMMAND_CLASS_MANUFACTURER_SPECIFIC_V2
COMMAND_CLASS_DEVICE_RESET_LOCALLY_V1
COMMAND_CLASS_POWERLEVEL_V1
COMMAND_CLASS_FIRMWARE_UPDATE_MD_V5
COMMAND_CLASS_MULTI_CHANNEL_ASSOCIATION_V3
COMMAND_CLASS_INDICATOR_V3
COMMAND_CLASS_MULTILEVEL_SENSOR_V11
```



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.

## WARRANTY

This product is covered under a 12-month warranty and under a 5-year limited 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)

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### 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

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