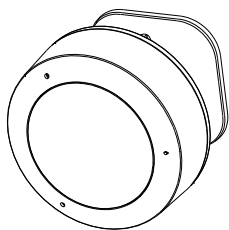




Q SENSOR  
ZSE11



Firmware 1.06

www.getzooz.com



FEATURES

- Quick and reliable motion alerts to Z-Wave hub
- Accurate temperature and humidity monitoring
- Lux sensor for smart light automations
- Battery or Micro USB power
- The latest S2 security and Z-Wave Plus chip
- Supports OTA firmware updates
- Built-in tamper switch for extra security

SPECIFICATIONS

- Model Number: ZSE11
- Z-Wave Signal Frequency: 908.42 MHz
- Power: 2 x CR123A (3 V) batteries / Micro USB
- Motion Detection: up to 20 feet
- Humidity Detection Range: 0 – 100 %
- Light Sensor Detection Range: 0 – 65535 lux
- Operating Temperature: 32° – 104° F
- Dimensions: 2.3” x 2.3” x 2.2”
- Range: Up to 130 feet line of sight
- Installation and Use: Indoor only

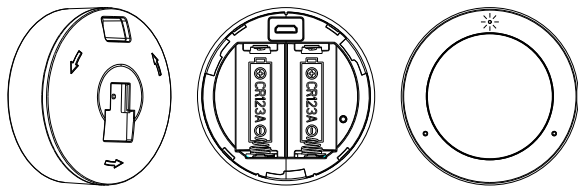
INSTALLATION

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 USB power (with micro USB cable + 1 A power supply) and not worry about batteries at all. If powering by USB and keeping the battery as back-up, **please note that if you include the sensor with the USB cable plugged in, it will keep the Z-Wave radio on at all times which will drain the batteries within 48 hours once the USB 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 **USB power**, simply insert the micro USB cable into the USB port located over the battery slot. The LED indicator will start blinking.

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?

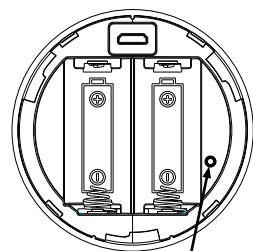
- Make sure the batteries are inserted correctly per the positive / negative pole marks.
- Try fresh lithium non-rechargeable batteries.
- Try a different USB cable or power supply.
- Click the Z-Wave button 3 times as quickly as possible to force inclusion/exclusion mode in case you missed when it first flashed.

1. ADD DEVICE to your hub (SMART START)

**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 back cover sticker to complete SmartStart inclusion.

2. POWER the sensor

Insert the batteries or the USB cable. 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 USB 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 USB power, no special button sequence required.

Get step-by-step instructions for adding the sensor to **SmartThings, Vera, Hubitat,** and other hubs at [www.support.getzooz.com](http://www.support.getzooz.com)



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 **press and hold the Z-Wave button for at least 20 seconds**. The LED indicator will start flashing and turn solid on 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 120 as min and 86400 as max values). **Press and hold the Z-Wave button for 3 seconds to wake the sensor up manually.** During wake-up, the sensor turns the Z-Wave radio for a couple of 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

The Q Sensor 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 12:** Adjust **motion sensitivity** where 8 is the most sensitive setting.

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

**Size:** 1 byte dec

**Parameter 13:** 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 19:** 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 172:** Set **the reporting frequency for battery, temperature, humidity, and light level**. 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 hours. **Note: Frequent reports will affect battery life.**

**Values:** 1 - 744 (hours). Default: 4 (hours)

**Size:** 2 byte dec

**Parameter 183:** 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:** 1 - 144 (degrees Fahrenheit). Default: 1 (degree).

**Size:** 2 byte dec

**Parameter 184:** Set **the reporting threshold for humidity**. The sensor will report new humidity value to the hub whenever humidity changes by the percentage number entered as value.

**Values:** 0 - disable humidity reporting based on environmental changes; 1-80 (%). Default: 5 (%).

**Size:** 1 byte dec

**Parameter 185:** 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

**Press and hold the Z-Wave button for 3 seconds 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.

Alternatively, you can use the included adhesive tape to fix the bracket to the wall if you'd like to avoid drilling holes.

### 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.
- Don't position it facing a window, direct sunlight, or above any source of heat (radiator, boiler, etc.).

## ! INDOOR ONLY!

**This sensor may only be used and installed indoors. Outdoor installation will void its warranty.**

### 1. MARK SCREW HOLES

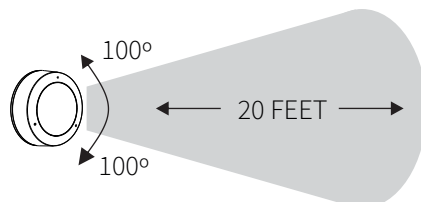
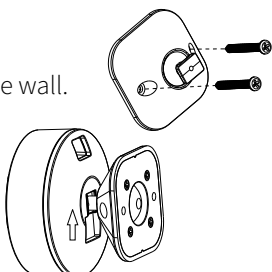
Use the bracket to mark 2 mounting holes on a dry clean surface 7 feet above ground. Skip this step if using tape.

### 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 upwards. 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
COMMAND_CLASS_VERSION
COMMAND_CLASS_MANUFACTURER_SPECIFIC
COMMAND_CLASS_NOTIFICATION
COMMAND_CLASS_BINARY_SENSOR
COMMAND_CLASS_ASSOCIATION_GRP_INFO
COMMAND_CLASS_ASSOCIATION
COMMAND_CLASS_BATTERY
COMMAND_CLASS_WAKE_UP
COMMAND_CLASS_POWERLEVEL
COMMAND_CLASS_SENSOR_MULTILEVEL
COMMAND_CLASS_CONFIGURATION
COMMAND_CLASS_SECURITY_2
COMMAND_CLASS_SECURITY
COMMAND_CLASS_TRANSPORT_SERVICE
COMMAND_CLASS_SUPERVISION
COMMAND_CLASS_FIRMWARE_UPDATE_MD
COMMAND_CLASS_DEVICE_RESET_LOCALLY
COMMAND_CLASS_ZWAVEPLUS_INFO
```



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 limited warranty. To read the full warranty policy or file a warranty claim, please go to [ww.getzooz.com/warranty](http://ww.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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