USER MANUAL

ZOOZ
smart move

TILT | SHOCK XS SENSOR

ZSE43 800LR

www.getzooz.com

FC S2

FEATURES

- Quick and reliable tilt and vibration alerts to your hub
- NEW 800 series chip for faster communication and more battery life than ever
- Extra small for discreet mounting
- Protective rubber coating
- Z-Wave® Long Range for ultra reliable no-mesh communication
- The latest S2 security and SmartStart for secure set-up
- Supports OTA firmware updates

SPECIFICATIONS

- Model Number: ZSE43 800LR
- Power: 1 x CR2450 battery
- Operating Temperature: 5°-104° F
- Dimensions: 2.2" x 1.3" x 0.4"
- Range: Up to 150 feet (up to 1300 ft with ZWLR) line of sight
- Installation and Use: Indoor only

INSTALLATION

1. POWER THE SENSOR

Use the triangle tool to gently open the sensor's cover and access the battery. Pull the tab from under the battery to activate the sensor.
Don't close the cover just yet.
The LED indicator will blink once (blue or blue/red if it senses vibration) when the device is powered.

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

- Make sure the battery is inserted correctly per the positive / negative pole marks.
- Try a fresh lithium non-rechargeable battery.
- Click the Z-Wave® button 3 times as quickly as possible to force inclusion/exclusion mode in case you missed when it first flashed.

LED INDICATOR

Z-WAVE® CONTROL

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

SmartStart: use the hub UI / app to scan the SmartStart code located on the inside of the sensor's battery cover. Simply power the device for SmartStart inclusion, it will be added automatically. On SmartThings, you may need to tap the Z-Wave® button on the sensor 3 times quickly to complete the inclusion process. **See next page for QR codes to hub-specific instructions.**

Manual inclusion: initiate inclusion (pairing) in the app or hub UI. Make sure the device is powered and finalize the inclusion at the sensor: tap the Z-Wave® button on the device 3 times quickly, the LED will start blinking blue and turn green once the sensor is added.

TIP!

It's best to add your sensor from the installation area so the hub can find the best route to reach it right away. If the signal is weak in your garage, you may need Z-Wave® repeaters between the hub and the sensor. **Use Z-Wave® Long Range if you can!**

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.

Z-Box Hub | Hubitat | Home Assistant | SmartThings

Get more tutorials and helpful tips at ww.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 **quicker** when adding 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**

EXCLUSION (REMOVE DEVICE)

1. Bring the sensor within **direct range** of your Z-Wave® hub.
2. Put the Z-Wave® hub into **exclusion** mode.
3. Click the **Z-Wave® button 3 times** as quickly as possible, the LED will start blinking blue.
4. Your hub will confirm exclusion and the LED indicator will blink green if the process is successful.

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 **click the Z-Wave® button twice and hold it the third time for 10 seconds.** The LED indicator will blink blue continuously. **Once the LED turns solid blue, click the Z-Wave® button twice more to finalize the reset.** The LED indicator will flash blue 3 times to confirm the 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 12 hours by default to save battery life. Use the Wake Up Command Class to adjust the interval. **Click the Z-Wave® button 4 times quickly to wake the sensor up manually.** The LED indicator will blink blue for a second to confirm the device is awake. During wake-up, the sensor turns the Z-Wave® radio on for one minute to receive communication from the hub. Long wake-up interval will not affect how often the sensor reports to your hub so we recommend leaving the default setting to conserve battery.

ASSOCIATION

The XS Sensor supports Group 1 for Lifeline communication, Group 2 (tilt sensor reports), and Group 3 (vibration sensor reports) with up to 5 devices for Basic Set on/off control of the associated devices. The value of the basic set command sent to Group 2 and Group 3 can be adjusted in the advanced settings to customize the sensor's behavior. Please note that not all Z-Wave® systems give users access to direct association settings so if you're note sure where to find it, please get in touch with our support and we'll be happy to help.

⚠ WARNING

- **INGESTION HAZARD:** This product contains a button cell or coin battery.
- **DEATH** or serious injury can occur if ingested.
- A swallowed button cell or coin battery can cause **Internal Chemical Burns** in as little as **2 hours**.
- **KEEP** new and used batteries **OUT OF REACH** of **CHILDREN**
- **Seek immediate medical attention** if a battery is suspected to be swallowed or inserted inside any part of the body.

Notes on the Battery

- The compatible battery type: CR2450
- The nominal battery voltage: 3V
- Remove and immediately recycle or dispose of used batteries according to local regulations and keep away from children.
  Do NOT dispose of batteries in household trash or incinerate.
- Even used batteries may cause severe injury or death.
- Call a local poison control center for treatment information.
- Non-rechargeable batteries are not to be recharged.
- Do not force discharge, disassemble, heat above 60°C or incinerate.
  Doing so may result in injury due to venting, leakage or explosion resulting in chemical burns.
- Ensure the batteries are installed correctly according to polarity (+ and -).
- Do not mix old and new batteries, different brands or types of batteries, such as alkaline, carbon-zinc, or rechargeable batteries.
- Remove and immediately recycle or dispose of batteries from equipment not used for an extended period of time according to local regulations.
- Always completely secure the battery compartment. If the battery compartment does not close securely, stop using the product, remove the batteries, and keep them away from children.

ADVANCED SETTINGS

Parameter 1: Turn the **LED indicator** for tilt or shock sensor status change on or off.
Values: 0 – LED won't blink when either sensor is triggered; 1 – LED blinks only when the shock sensor is triggered; 2 – LED blinks only when the tilt sensor is triggered; 3 – LED blinks when either sensor is triggered (default).
Size: 1 byte dec

Parameter 4: Set the shock sensor's level of sensitivity.
Values: 0 – highest level of sensitivity (default); 1 – medium level of sensitivity; 2 – lowest level of sensitivity.
Size: 1 byte dec

Parameter 7: Disable one of the sensor's reports if needed.
Values: 0 – only tilt sensor enabled; 1 – only shock sensor enabled; 2 – both sensors enabled (default).
Size: 1 byte dec

Click the Z-Wave® button 4 times quickly to wake the sensor up after updating the settings.
We listed the most helpful settings above. For a complete list of parameters, please go to www.support.getzooz.com or scan the QR code for a direct link to all of the settings. »

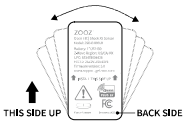
Not sure how to access advanced settings on your hub? We'll help!

ask@getzooz.com

SENSOR MOUNTING

1. We recommend including your sensor to the Z-Wave® network from the location you want to install it.
2. Choose a spot in the area you would like to monitor for vibration which will not be easily accessible to potential intruders, like high on the window glass. For tilt (open/close) reports, locate a clean spot on the **top panel of your garage door.**
3. Fix the sensor to the surface with the supplied adhesive tape or use the supplied snap-on mounting bracket. The sensor will report **vibration** and **blink red** when the acceleration sensor is tripped and it will change the **open/close** status and **blink blue** when the sensor is fully tilted to the vertical or horizontal position.
4. Test the sensor by simulating shock (strong vibration) or by opening or closing your garage door.

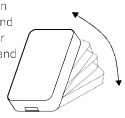
Make sure you install the sensor with the arrow printed on the back pointing up (and the opening slot facing down).



Attach the back side of the sensor to the surface or bracket when mounting it!

VERTICAL & HORIZONTAL TILT

The sensor can report open and close alerts for both vertical and horizontal tilting movement.



By default, the sensor will report vertical tilt movement only (towards and away from the ground moving up and down). You can enable horizontal tilt reports (towards and away from the ground moving to the left or right side) in the advanced settings. See parameter 17 for details.

TROUBLESHOOTING

TILT NOT WORKING?

1. Make sure you're testing the default vertical tilt direction and not the side horizontal tilt direction (you need to enable this type of detection in the advanced settings first).
2. The sensor needs to be mounted on the garage door with arrows printed on the back of the sensor facing up. Double check this detail, especially if using the mounting bracket.
3. If the surface you've mounted the sensor on is not exactly perpendicular to the ground, you may need to manually calibrate the sensor. Calibration can be initiated from the advanced settings (see parameter 16) or straight from the device. Press and hold the button for 5 seconds until the LED indicator begins to flash rapidly, alternating between red and blue. Mount the sensor in the appropriate position and wait until the LED begins to alternate between red and green which indicates that the sensor has successfully captured its initial position. Wait for another few seconds until the LED flashes green rapidly five times and then turns off to indicate successful calibration.

VIBRATION NOT WORKING?

1. Make sure the shock sensor is enabled (parameter 7) and set to high sensitivity (parameter 4) in the advanced settings.
2. There are more advanced parameters that can delay or disable the shock sensor conditionally so please refer to the full settings article to adjust the values accordingly if needed.
3. Try a fresh battery in case this is a power issue.
4. Exclude and re-include the sensor to your hub. Make sure your hub fully supports Z-Wave® vibration reports.

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

COMMAND CLASSES

COMMAND_CLASS_ZWAVEPLUS_INFO_V2
COMMAND_CLASS_ASSOCIATION_V2
COMMAND_CLASS_MULTI_CHANNEL_ASSOCIATION_V3
COMMAND_CLASS_ASSOCIATION_GRP_INFO_V3
COMMAND_CLASS_TRANSPORT_SERVICE_V2
COMMAND_CLASS_VERSION_V2
COMMAND_CLASS_MANUFACTURER_SPECIFIC
COMMAND_CLASS_DEVICE_RESET_LOCALLY
COMMAND_CLASS_POWERLEVEL
COMMAND_CLASS_BATTERY
COMMAND_CLASS_SECURITY_S2
COMMAND_CLASS_NOTIFICATION_V8
COMMAND_CLASS_INDICATOR_V3
COMMAND_CLASS_CONFIGURATION_V4
COMMAND_CLASS_WAKE_UP_V2
COMMAND_CLASS_SUPERVISION
COMMAND_CLASS_FIRMWARE_UPDATE_MD_V5

Z-WAVE PLUS LR **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 authentification code for trusted wireless communication.

⚠ WARNING

- This product should be installed indoors or outdoors under eve 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.

WARRANTY

This product is covered under a 12-month limited warranty and 5-year extended warranty if registered within 30 days of purchase. To read the full warranty policy, register your product, or file a warranty claim, please go to ww.getzooz.com/warranty