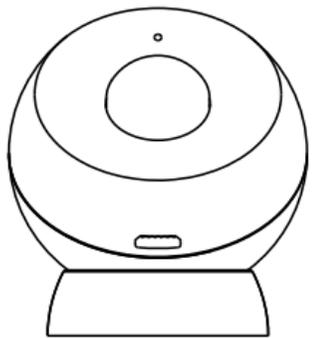# ZOOZ
bright ideas™

MOTION SENSOR
ZSE18

www.getzooz.com

Z-WAVE PLUS

FC

FEATURES

‣ Fast, reliable motion detection
‣ Built-in vibration sensor
‣ Latest S2 security protocol and AES-128 signal encryption
‣ 2 alternative power sources: battery or micro USB
‣ Auto-inclusion for instant set-up
‣ Visual range test tool
‣ Magnetic mount for quick and flexible installation
‣ Adjustable LED indicator
‣ Low battery alerts
‣ Z-Wave Plus with improved 500 chip for faster and safer wireless communication

SPECIFICATIONS

‣ Model Number: ZSE18
‣ Z-Wave Frequency: 908.42 MHz
‣ Power: 1 CR123A battery (3V) or micro USB
‣ Range: Up to 100 feet
‣ Operating Temp.: 32-104° F
‣ Installation and Use: Indoor only

Z-WAVE CONTROL

ADD DEVICE to your hub

Initiate inclusion (pairing) in the app (or web interface).

Twist open the cover of the sensor to access the battery.

MANUAL INCLUSION (PAIRING)

1. Bring the sensor within direct range of your Z-Wave gateway (hub).
2. Put the Z-Wave hub into inclusion mode (not sure how to do that? ask@getzooz.com).
3. Press and release the Z-Wave button 3 times quickly. The LED indicator will start blinking fast and turn solid for a second to
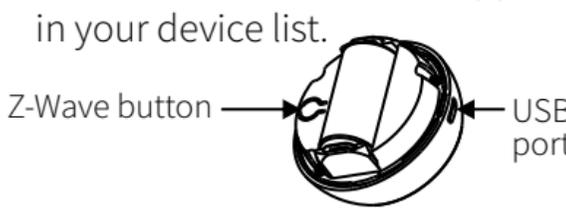
PULL BATTERY TAB OUT

Activating the battery will automatically put the sensor into inclusion mode. If it's not added within 30 seconds, try resetting it and including it manually.

Z-Wave button → USB port

confirm inclusion.
3. A new motion sensor will appear in your device list.

TROUBLESHOOTING

The sensor won't add to the hub? Try this:

1. Initiate **EXCLUSION** and click the Z-Wave button 3 times quickly. Then try adding it again.
2. Bring the sensor **closer** to your Z-Wave hub.
3. Click the Z-Wave button on the sensor **4-5 times VERY quickly** when adding it.

EXCLUSION (REMOVING DEVICE)

1. Bring the sensor within direct range of your Z-Wave gateway controller (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 on the sensor 3 times as quickly as possible.
4. Your hub will confirm exclusion 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 complete the reset process manually, **press and HOLD the Z-Wave button** on the sensor for at least **20 seconds.** The LED indicator will flash, stay solid, and then turn off to confirm factory 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. You can change the wake-up interval in advanced settings if available in your system.

During wake-up, the sensor receives communication from the hub (setting updates or network information). Long wake-up interval will **not** affect how often the sensor reports motion or vibration to your gateway (hub).
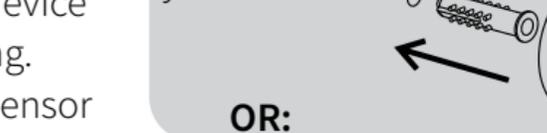
MANUAL WAKE-UP

Press and **HOLD** the Z-Wave button **for 5 seconds** to wake the device up. The LED will start flashing. You may need to wake the sensor up manually IF:

1. It doesn't fully configure during set-up (status is not displayed or errors pop up in your hub's interface).

2. You change advanced settings for the sensor and want them to update.

MOUNTING

RECOMMENDED: Use the mounting screw to securely attach the magnetic base to a flat surface of your choice.

OR:

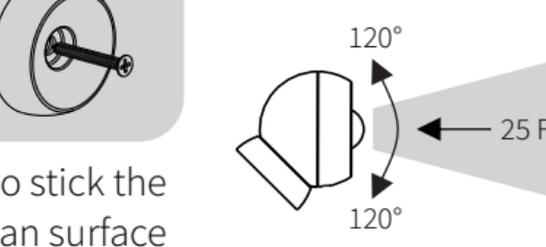Use the adhesive tape to stick the base to a clean surface for quick and hassle-free installation.

POSITIONING

Attach your sensor to the magnetic base and position it to cover the area you wish to monitor. For best results, mount the sensor within 20 feet from the door and around 7 feet from the ground.

MOTION DETECTION RANGE

120°
120°
13 FEET
25 FEET
13 FEET

See **Settings** for ways to optimize and customize motion detection and activity reports.

⚠ WARNING

‣ This product should be installed **indoors** upon completion of any building renovations.
‣ Do not install the sensor 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, except for the battery.

Please refer to your controller's user guide for advanced programming instructions as they are a little different for every software. **Not sure where to start? Let us know!** ask@getzooz.com

ASSOCIATION

Associate your Motion Sensor with other Z-Wave devices for direct communication between them so your rules and automations can take place even if the hub is down. The Motion Sensor supports Group 1 (motion detection and battery level) and Group 2 (BASIC SET) with up to 5 devices for lifeline communication. To associate the sensor with other devices, put your Z-Wave controller in Association mode by sending the appropriate command and wake up the sensor by pressing and holding the Z-Wave button for 5 seconds.

CUSTOMIZE YOUR SENSOR

Motion Sensor
Parameter 12: Use it to adjust PIR sensor sensitivity.
Values: 1 - 8, where 1 = low sensitivity and 8 = high sensitivity. Default set to 4.
Size: 1 byte dec.

Parameter 14: Use it to enable or disable BASIC SET reports when motion is triggered for Group 2 of associated devices.
Values: 0 - disabled (default), 1 - enabled
Size: 1 byte dec.

Parameter 15: Use it to reverse values sent in BASIC SET reports when motion is triggered for Group 2 of associated devices.
Values: 0 - BASIC SET value 255 is sent when motion is triggered, BASIC SET value 0 is sent when motion times out (default).
1 - BASIC SET value 0 is sent when motion is triggered, BASIC SET value 255 is sent when motion times out.
Size: 1 byte dec.

Parameter 18: Use it to set trigger interval - the time when motion is reported again after initial trigger.
Values: 3 - 65535 where 3 stands for 6 seconds and 65535 stands for 65538 seconds (add 3 seconds to each value number). Default set to 30 seconds (value 27).
Size: 2 byte dec.

NOTE: Small interval will increase activity and decrease battery life.

Vibration Sensor
Parameter 17: Use it to disable the vibration sensor.
Values: 0 - vibration sensor is disabled, 1 - vibration sensor is enabled (default).
Size: 1 byte dec.

Low Battery Alert
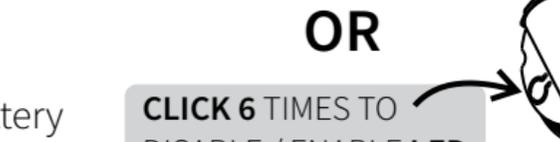Parameter 32: Use it to set battery level for low battery reports.
Values: 10-50, where 10 stands for 10% battery left and 50 stands for 50% battery left. Default set to 10.
Size: 1 byte dec.

LED Indicator
Parameter 20: Use it to disable the LED indicator.
Values: 0 - LED indicator is disabled, 1 - LED indicator is enabled (default).
Size: 1 byte dec.

OR

CLICK 6 TIMES TO
DISABLE / ENABLE LED

USB POWER

When used with a USB power adapter, the sensor will act as a Z-Wave signal repeater. Go to our website for inclusion instructions:
support.getzooz.com

You can easily check if the sensor is within your Z-Wave hub's range: Press and **hold** the Z-Wave button for **10-15 seconds and release it** to start the test. The LED indicator will then report signal strength.
Solid blue = direct communication with the primary controller is **stable**
Slow blinking blue = communication quality is **fair**
Fast blinking blue = communication with the primary controller has **failed**
Press and release the Z-Wave button to exit testing mode.

This device requires the following **command classes** to be supported and recognized by your Z-Wave controller:
COMMAND_CLASS_ASSOCIATION_GRP_INFO
COMMAND_CLASS_ASSOCIATION_V2
COMMAND_CLASS_BATTERY
COMMAND_CLASS_CONFIGURATION
COMMAND_CLASS_DEVICE_RESET_LOCALLY
COMMAND_CLASS_FIRMWARE_UPDATE_MD_V3
COMMAND_CLASS_MANUFACTURER_SPECIFIC_V2
COMMAND_CLASS_NOTIFICATION_V5
COMMAND_CLASS_POWERLEVEL
COMMAND_CLASS_SECURITY
COMMAND_CLASS_SECURITY_S2
COMMAND_CLASS_SUPERVISION
COMMAND_CLASS_TRANSPORT_SERVICE_V2
COMMAND_CLASS_VERSION_V2
COMMAND_CLASS_WAKE_UP_V2
COMMAND_CLASS_ZWAVEPLUS_INFO_V2

Z-WAVE PLUS 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 unique authentication code for trusted wireless communication.

This product is covered under a 12-month limited warranty. To read the full warranty policy or file a warranty claim, please go to
www.getzooz.com/warranty