ZOOZ ZSE70 800LR

Zooz ZSE70 Outdoor/Indoor Motion Sensor User Manual

Model: ZSE70 800LR

1. INTRODUCTION

The Zooz ZSE70 is an advanced Z-Wave Long Range motion sensor designed for both outdoor and indoor environments. This device provides reliable motion detection, temperature monitoring, and light level reporting, enabling enhanced automation and security for your property. It integrates with compatible Z-Wave hubs to trigger various actions, such as activating lights or security systems.
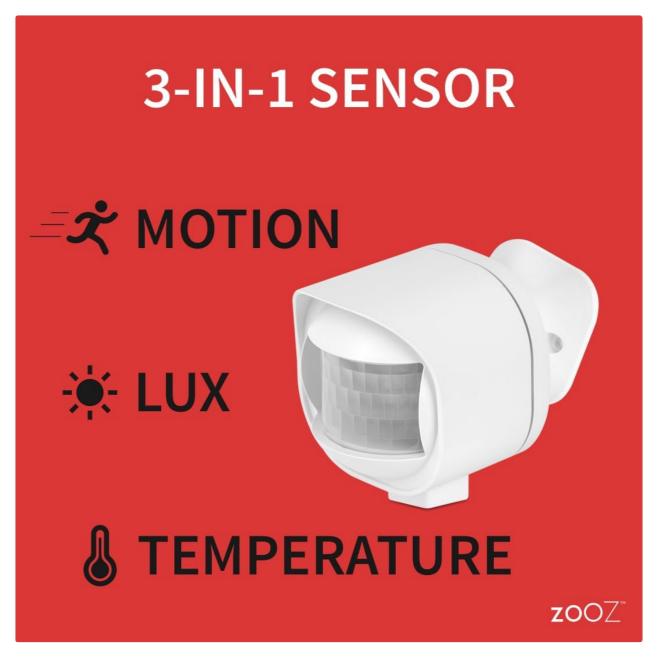

The Zooz ZSE70 Outdoor Motion Sensor, shown with its packaging, highlighting its Z-Wave Long Range capabilities.

2. KEY FEATURES

- **Reliable Motion Detection:** Detects movement up to 30 feet, sending instant alerts to your Z-Wave hub.

- **Temperature Monitoring:** Monitors ambient temperature, allowing for automation based on environmental conditions.

- **Light Level Reports:** Provides lux (brightness) readings, useful for smart lighting integration.

- **Z-Wave Long Range (ZWLR) Support:** Extends wireless range up to 1300 feet with compatible ZWLR hubs, utilizing the 800 series chip for enhanced speed and connection stability.

- **Flexible Power Options:** Operates on two CR123A batteries (included) or a 12-24V AC/DC power supply (sold separately). Functions as a Z-Wave signal repeater when powered by 12V.

- **Outdoor Ready:** IP66-rated for outdoor use, ensuring durability against weather elements.

- **Enhanced Security:** Includes S2 Authenticated Z-Wave security and SmartStart for secure communication.

An image illustrating the Zooz ZSE70's three primary functions: motion detection, lux (light level) sensing, and temperature monitoring.

3. PACKAGE CONTENTS

Verify that your package contains the following items:

- Zooz ZSE70 Motion Sensor
- Mounting bracket
- 12 V connection cap
- 2 CR123A batteries

4. SETUP

4.1 Powering the Sensor

The ZSE70 offers two power options:

- **Battery Power:** Insert the two included CR123A batteries into the sensor.
- **Wired Power:** Connect a 12-24V AC/DC power supply (sold separately) using the 12V connection cap. When wired, the sensor acts as a Z-Wave signal repeater.

The Zooz ZSE70 sensor, demonstrating its flexible power options: either two CR123A batteries or a 12-24V wired power supply.

4.2 Mounting the Sensor

The sensor is designed for wall mounting. Use the provided mounting bracket to secure the sensor in your desired location. Ensure the sensor is positioned to cover the area you wish to monitor.

The Zooz ZSE70 motion sensor mounted on the exterior wall of a house, indicating its suitability for outdoor use.

A rear view of the Zooz ZSE70 sensor, displaying its mounting plate and a label with support website and FCC ID.

4.3 Z-Wave Inclusion

To integrate the ZSE70 with your smart home system, you need a compatible Z-Wave hub. This device supports S2 Authenticated Z-Wave security and SmartStart for secure and easy inclusion.

1. Put your Z-Wave hub into inclusion (pairing) mode. Refer to your hub's manual for specific instructions.
2. Activate the sensor's inclusion mode (typically by pressing a button or following a specific sequence).
3. Confirm successful inclusion through your Z-Wave hub interface.

Note: This device is supported by open Z-Wave systems ONLY. It will NOT work with Wink or Z-Wave alarm panels. Compatible hubs include Z-Box Hub, SmartThings (requires custom driver from Zooz support), Home Assistant, Hubitat (requires custom driver), and HomeSeer.

4.4 Setup Demonstration Video

This video demonstrates the installation and functionality of the Zooz ZSE70 Outdoor Motion Sensor, showcasing its ability to detect motion outdoors and its various applications.

5. OPERATING INSTRUCTIONS

5.1 Motion Detection

The ZSE70 detects motion within a 30-foot radius. Upon detection, it sends a signal to your Z-Wave hub,

which can then trigger various automated actions. The sensor's IP66 rating ensures reliable operation in outdoor conditions.

5.2 Temperature and Light Monitoring

In addition to motion, the sensor provides real-time temperature and light level (lux) data. This information can be used to create advanced automation rules, such as:

- Adjusting smart thermostats based on outdoor temperature.
- Activating outdoor lights only when motion is detected and ambient light levels are low.

5.3 Automation Examples

The ZSE70 can be integrated into various smart home scenarios:

- **Security Lighting:** Program Z-Wave outdoor lights to turn on when motion is detected at night.
- **Intruder Deterrence:** Trigger a siren or activate a sprinkler system to deter unwanted human or animal activity.
- **Pathway Illumination:** Automatically illuminate pathways or entryways when approaching your home.

6. MAINTENANCE

6.1 Battery Replacement

The sensor uses two CR123A batteries. When the battery level is low, your Z-Wave hub should report a low battery status. To replace the batteries:

1. Carefully remove the sensor from its mounting bracket.
2. Open the battery compartment.
3. Remove the old batteries and insert new CR123A batteries, ensuring correct polarity.
4. Close the battery compartment and reattach the sensor to its bracket.

6.2 Cleaning

To ensure optimal performance, periodically clean the sensor's lens and housing with a soft, damp cloth. Avoid using abrasive cleaners or solvents.

7. TROUBLESHOOTING

7.1 Sensor Not Responding

- **Check Battery:** Ensure batteries are correctly inserted and not depleted. Replace if necessary.
- **Power Supply:** If wired, verify the 12-24V power supply is connected and functioning.
- **Z-Wave Network:** Confirm the sensor is properly included in your Z-Wave network and within range of your hub or a repeater.

7.2 False Motion Alerts

- **Placement:** Ensure the sensor is not directly exposed to strong winds, moving foliage, or direct sunlight, which can cause false triggers.
- **Sensitivity:** Adjust motion sensitivity settings within your Z-Wave hub interface if available.

7.3 Z-Wave Long Range (ZWLR) Issues

- **Hub Compatibility:** Verify your Z-Wave hub explicitly supports Z-Wave Long Range (ZWLR) technology.
- **Region Settings:** Ensure your hub's RF region is correctly configured for ZWLR if applicable.

7.4 Tamper Alert Issues

If you experience persistent tamper alerts after securing the back cover, ensure the cover is fully seated and locked into place. In some cases, slight adjustments during installation may be required.

8. SPECIFICATIONS

Attribute	Value
Brand	ZOOZ
Model Number	ZSE70 800LR
Power Source	2 CR123A batteries (included) / 12-24 V AC/DC (sold separately)
Motion Detection Range	Up to 30 feet
Z-Wave Range	Up to 100 feet in open space (up to 1300 feet with Z-Wave Long Range)
Operating Temperature	14°F to 122°F (-10°C to 50°C) with accuracy of ±2°C
Installation and Use	Indoor or outdoor (IP66 rated)
Compatible Devices	Z-Box Hub, SmartThings, Home Assistant, Hubitat, HomeSeer (Open Z-Wave systems only)
Product Dimensions	2.4"D x 2.34"W x 2.75"H
Item Weight	5.3 ounces (0.15 Kilograms)
UPC	853478006704

9. WARRANTY AND SUPPORT

The Zooz ZSE70 Motion Sensor is backed by a 1-year manufacturer warranty and lifetime technical support.
For an extended 5-year warranty, register your product within 30 days of purchase.
For support, please visit the official Zooz support website or contact their support team via email:
ask@getzooz.com.

Related Documents - ZSE70 800LR

[Zooz ZSE70 800LR Outdoor Motion Sensor User Manual](#)

User manual for the Zooz ZSE70 800LR Z-Wave Long Range Outdoor Motion Sensor, detailing installation, setup, features, specifications, troubleshooting, advanced settings, and warranty information.

[Zooz ZEN78 800LR High Power Relay User Manual | Z-Wave Long Range Control](#)

Comprehensive user manual for the Zooz ZEN78 800LR High Power Relay, detailing features, specifications, installation, Z-Wave control, troubleshooting, and warranty information for smart home automation.

[Zooz Q Sensor ZSE11 800LR User Manual - Motion, Temperature, Humidity, Lux](#)

Comprehensive user manual for the Zooz Q Sensor ZSE11 800LR, a Z-Wave Long Range motion, temperature, humidity, and lux sensor. Includes installation, setup, troubleshooting, and advanced settings.

[Zooz Q Sensor ZSE11 800LR User Manual - Smart Home Automation](#)

Comprehensive user manual for the Zooz Q Sensor ZSE11 800LR, detailing installation, Z-Wave pairing, advanced settings, troubleshooting, specifications, and warranty information for smart home automation.

[Zooz ZSE41 800LR Z-Wave Plus XS Open/Close Sensor User Manual](#)

Comprehensive user manual for the Zooz ZSE41 800LR Z-Wave Plus XS Open/Close Sensor, covering installation, setup, features, troubleshooting, and advanced settings for smart home automation.

[Zooz ZSE11 800LR Motion and Environmental Sensor User Manual](#)

User manual for the Zooz ZSE11 800LR Z-Wave Plus Long Range motion, temperature, humidity, and lux sensor. Includes installation, pairing, advanced settings, and troubleshooting.