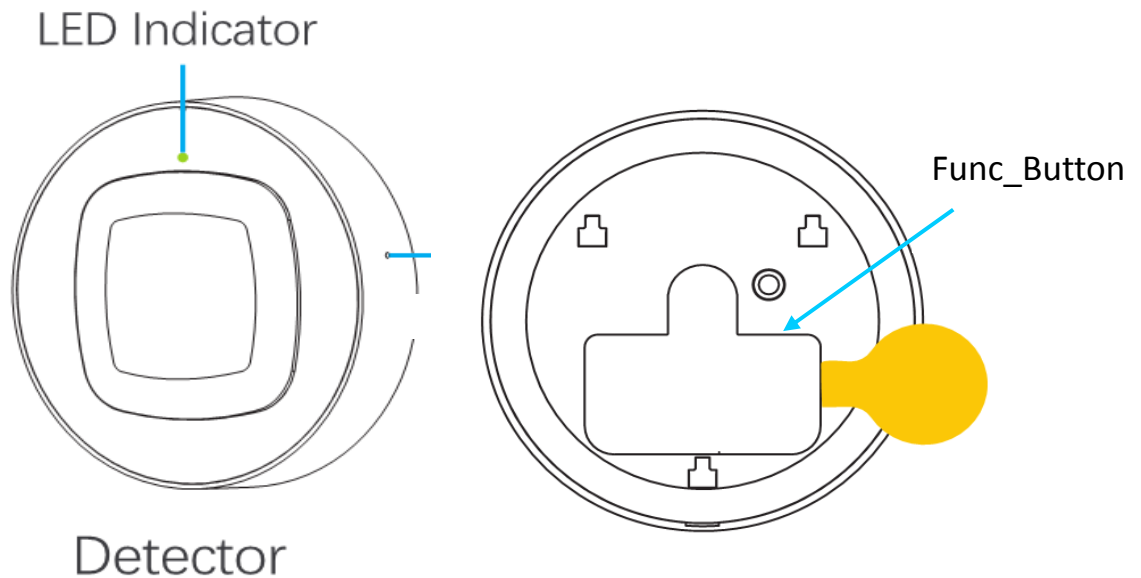


# HS3MS-Z

## Z-Wave Device Guide Document



### Product description

-Product is S2 Unauthenticated devices.

-This device is a security enable Z-Wave Plus product that is able to use encrypted Z-Wave Plus messages to communicate to other security enable Z-Wave Plus products.

Note: A "Security Enable Z-Wave Controller " must be used in order to fully utilize this function.

### -PIR Functionality Description

When the sensor is powered on, the sensor enters warm-up state, the red LED will flash for 30s. After the warm-up ends, the sensor enters test mode. In the test mode, the detection interval is 1 minute. 20 minutes later, the sensor automatically enters the energy-saving mode, in the energy-saving mode, when the sensor detects the movement of human body , it will be able to detect movement again after no movement is detected within the detection area for over 1 minute . If human body is moving continuously within the detection area, the sensor will not enter detection state. If you need to enter the test mode again, remove the sensor battery ,wait for 1 minute and then reinstall the battery to make the sensor enter test mode .

### 1-Device ADD for Inclusion

- Click [Add] icon in Z-Wave Controller .
- Press the Func\_Button 3 times within 1.5s, Green LED is Blinking 4 times within 1 second.
- If Inclusion Process is successful, Green LED will go off.

### 2-Device Remove for Exclusion

- Click [Remove] icon in Z-Wave Controller

- Press the Func\_Button 3 times within 1.5s
- If Exclusion Process is successful, Green LED is Blinking 6 times, then go off.

### 3-tamper device

If Inclusion process is successful, the Func\_Button will be able to detect tampering status and cancel tampering status. Red LED blinks once when Func\_Button is pressed or released.

### 4-Device Factory Reset

Long press Func\_Button while installing batteries in the Device

- Device Reset Locally notification is Transmitted
- Green LED goes off after 2 seconds.

Please use this procedure only when the network primary controller is missing or otherwise inoperable.

### 5-Association & Association Group Information

- Lifeline between controller and slave device
- Supported command classes

Battery report, Notification report, and Device Reset Locally notification.

- Association Group description

☑ Association group 1: Lifeline association group

- Maximum supported node is 5.

Include command classes: Battery report, Notification report, and Device Reset Locally notification,

☑ Association group 2: Root Device group(Basic set)

- Maximum supported node is 5.

The Sensor sends a Basic Set command to directly trigger devices (like a light, switch, etc.) in response to events. The value of the Basic Set command (e.g. Siren trigger) is configured using Motion Detection open or no Motion Detection

This parameter sets the value sent by the BASIC_SET command to Association Group for Motion Detection event		
BASIC_SET Level	0xFF	Turn On Device
This parameter sets the value sent by the BASIC_SET command to Association Group for no Motion Detection event		
BASIC_SET Level	0x00	Turn Off Device

### 6-Notification Report

- When people pass/leave is occurred.
- Notification Report is transmitted

Notification Type	Event
	Event inactive /Previous Events cleared(0x00)

Home Security (0x07)	Tampering, Product covering removed (0x03)
	Motion Detection, Unknown Location(0x08)

### 7-Battery Report

- Battery Report is transmitted when the device is powered on
- Battery Report is transmitted once a day
- Battery Report is transmitted when a battery falls less than 0%
- 

Battery Voltage	Battery Level
2.4V ~ 3.0V	0 ~ 100 (%)
Under 2.4V	0xFF

### 8-Wake up Notification

- Wake up Notification is transmitted every 300s by default.
- Wake up Notification is transmitted after Notification Report is Transmitted

### 9-Devices from multiple manufacturers in one network

- 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.

### 10-Z-Wave Specifications

10.1-Device Type : Sensor - Notification

10.2-Role Type : RSS (Reporting Sleeping Slave)

#### 10.3-Command Class Support/Control

10.3.1-Z-Wave plus Info Version 2

10.3.2-Notification Version 8

10.3.3-Association Version 2

10.3.4-Association Group Info Version 1

10.3.5-Transport Service Version 2

10.3.6-Version Version 3

10.3.7-Manufacturer Specific Version 2

10.3.8-Device Reset Locally Version 1

10.3.9-Powerlevel Version 1

10.3.10-Battery Version 1

10.3.11-Security 2 Version 1

10.3.12-Supervision Version 1

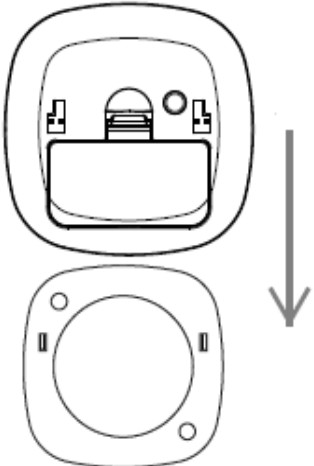
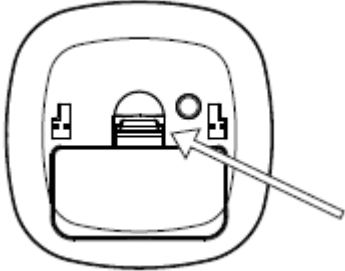
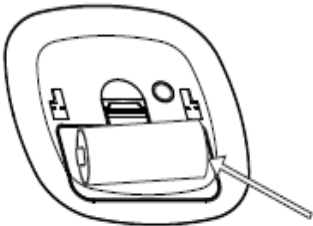
10.3.13-Wake Up Version 2

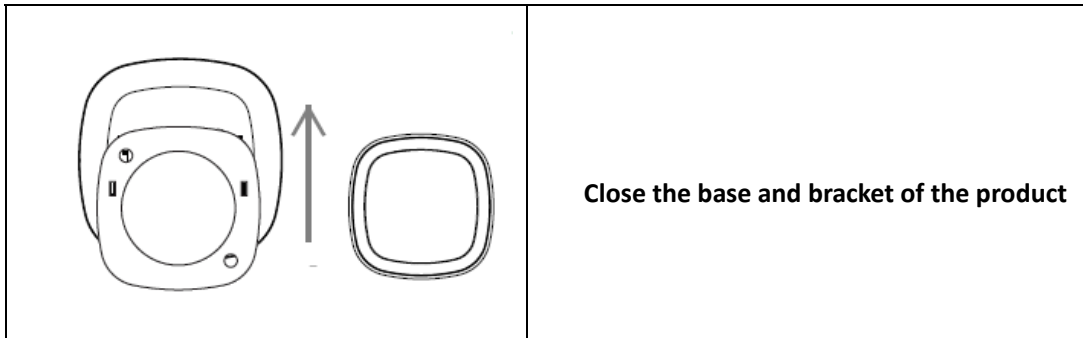
10.3.14-Multi-Channel Association Version 3

**10. 4–The below listed Command Class are all Supported the Security S2**

- 10.4.1-Notification Version 8
- 10.4.2-Association Version 2
- 10.4.3-Association Group Info Version 1
- 10.4.4-Version Version 3
- 10.4.5-Manufacturer Specific Version 2
- 10.4.6-Device Reset Locally Version 1
- 10.4.7-Powerlevel Version 1
- 10.4.8-Battery Version 1
- 10.4.9-Wake Up Version 2
- 10.4.10-Multi-Channel Association Version 3

**How to replace the batteries**

	<p><b>Dismantle the mounting bracket as the arrow direction indicates.</b></p>
	<p><b>Open battery base of the product</b></p>
	<p><b>Insert the battery on the product ( Pay Attention to the battery polarity)</b></p>



#### Technical Specifications

<b>Model No.</b>	<b>HS3MS-Z</b>
<b>RF frequency</b>	<b>868.40- 869.85 MHz</b>
<b>RF operating distance</b>	<b>Up to 100m outdoor in sight Up to 40m indoor</b>
<b>Powered by</b>	<b>CR123A x 1EA, lithium battery</b>
<b>Temperature</b>	<b>-10°C ~ 50°C</b>
<b>Humidity</b>	<b>95% max</b>
<b>Weight</b>	<b>42.6g (without battery)</b>