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LEEDARSON Multi Sensor 7A-SS-AABC-H0

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Multi-Sensor

Quick Start Guide

1. Product Introduction

The Multi-sensor is designed for using with scenes in home automation systems, integrate motion, light, temperature and humidity sensors, powered by CR123A battery or USB cable. The Motion Sensor lets you know when movement is detected in a certain area and can trigger different actions in response to that movement (or lack of movement). It also lets you know the ambient temperature and humidity to trigger different actions to make you more comfort. This sensor integrated Z-Wave communication module to connect with Z-Wave gateway, and this device can be adapted to EU(868.42Mhz) or US(908.42MHz).

2. Product Appearance

Product appearance and function overview.



① Button:

- Short press reset button into learning mode, then the sensor can inclusion or exclusion from the Z-Wave network.
- Hold the key for 5s to reset the sensor, after reset, Multi-Sensor will send “Device_Reset_Locally” to the main controller and exclude from the Z-Wave network when the Button is released, this procedure will reset the Sensor to factory default.
- Short press button for 3 times then the sensor sending wake up notification to gateway, wake up for 10 seconds.

- #### ② LED Indicator:
- if sensor has not been added to controller, the LED will blink for 5 seconds. The LED will keep on 3 seconds when joined to controller successfully.

3. Specification

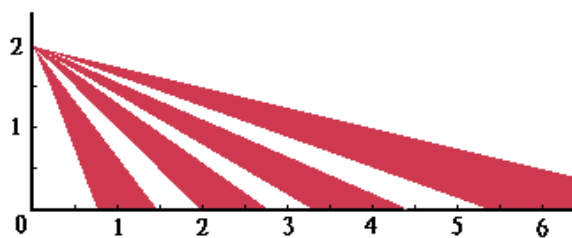
Module Name	7A-SS-AABC-H0
Detection Technology	PIR (Passive Infrared)
Detection Angle	110°±10°
Detection Distance	5 meters
Temperature Accuracy	±1°C
Humidity Accuracy	±5%
Communication Protocol	Z-Wave
Radio Frequency	908.42MHz (US) 868.42MHz (EU) 921.42MHz (AU)
Wireless Range	More than 100m outdoors About 30m indoors (depending on building materials)
Power Source	USB (Built-in CR123A battery)
Battery Life	1 year
Mounting	Screws or 3M Tape
Mounting Height (recommended)	6.5 ft to 8.5 ft (2m to 2.8m), recommend 2.5 meters
Mounting Location	Wall Surface
Operating Temperature	-10°C to + 45°C
Operating Humidity	Up to 85% non-condensing
Certifications	CE/FCC,Z-Wave
Dimensions (mm)	51(L)X51(W)X42(H)
OTA	Yes

4. Features/Capabilities:

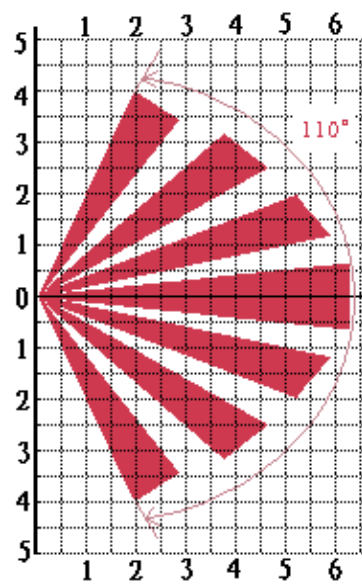
- The LEEDARSON Multi-Sensor is a universal Z-Wave Motion Sensor.
- The LEEDARSON Multi-Sensor detects motion / Luminance intensity/ Temperature/ Humidity.
- The LEEDARSON Multi-Sensor can through the USB charging, also can through the batteries.
- The LEEDARSON Multi-Sensor is designed to be mounted on the wall and indoor use only.
- The LEEDARSON Multi-Sensor has configuration Luminance intensity/ Temperature/ Humidity Report time interval.
- The LEEDARSON Multi-Sensor has detective range with 10m x 6m @110°.
- The LEEDARSON Multi-Sensor Support low battery alarm function.
- The LEEDARSON Multi-Sensor Support firmware OTA.
- After installation, detect direction can be adjusted by universal wheels.

5. Installation Position and Notes

1. Installation position should be chosen at the area which the bass-by will be across, try to make the bass-by in the detection area as below.



Side view



Top view

2. Do avoid installation near air-conditioner, electric fans, refrigerators, ovens or other places where temperature easy change.
3. In order not to affect the detecting result, there should be no object in front of the produces lens.
4. Building (such as the wall) will shorten the distance of wireless communication.
5. This device can be mounted on the wall only, it cannot be installed on the ceiling.

6. Product Installation

Adding the device as accessories, install it according to the diagram below:

- ① Choose the installation location on the wall, fix the universal wheels by screw or 3M adhesion tape on the wall.
- ② Take off the bracket in the back, install battery into the body.
- ③ Assembly the body to the universal wheels, adjust the detection position, then installation finishes.

7. Product Usage

Function of Action Button:

7.1 All functions of each trigger:

Trigger	Description
Power On	In the network: Send battery report, the LED turn on within 1 second, the buzzer tweet 1 second. Not in the network: the LED turn on 1 second then turn off
Short press one time (within 1 second)	1. Send Security Node Info frame. 2. Add Multi-Sensor into a z-wave network: a. Let the primary controller into inclusion mode (If you don't know how to do this, refer to its manual). b. Short Press one time this Z-Button. c. If the inclusion is successful, Multi-Sensor LED will blink less than 5 seconds and then keep on 2 seconds. Otherwise, the LED will blink 25 seconds and then turn off, in which case you need to repeat the process from step b. 3. Remove Water Sensor from a z-wave network:

	<p>a. Let the primary controller into remove mode (If you don't know how to do this, refer to its manual).</p> <p>b. Short Press one time this Z-Button.</p> <p>c. If the remove is successful, Multi-Sensor LED will blink 2 second. Otherwise, the LED will keep on 25 seconds and then turn off, in which case you need to repeat the process from step b.</p>
Short press 3 times (within 1.5 second)	<p>In the network:</p> <ol style="list-style-type: none"> 1、 Multi-Sensor will send “wake up notification command” to the nodes which is assigned by “Wake Up Command”. 2、 LED Keep bright when receive the Wake up no more info notification or if 10 second timeout , LED will be turn off. <p>Not in the network: NOP</p>
Press and hold 5 seconds	<p>Reset Smart Switch to factory Default:</p> <ol style="list-style-type: none"> 1. Press and hold the Z-Button for 5 seconds. 2. If holding time more than 5 seconds, the LED will fast blink at acceleration. If reset success Multi-Sensor LED will be on for 2 seconds then turn off. When the Z-Button is released, it will send “Device Reset Locally Command”. Otherwise please repeat step 2. <p>Note:</p> <ol style="list-style-type: none"> 1, This procedure should only be used when the primary controller is inoperable. 2, Reset Multi-Sensor to factory default settings will: sets the Multi-Sensor to not in z-wave network state; delete the Association setting and restore the Configuration setting to the default.

Caution:

This device complies with Part 15 of the FCC rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

7.2 Low voltage alarm to remind changing battery.

This product has low voltage detection reminder, when the battery voltage is in low status, the detector will give out low battery signal to controller.

8. Attention

1. If need to clean the sensor, please use a soft cloth with a little alcohol to wipe it after you cut off the power.
2. This product is just for indoor use.
3. Replace the battery timely on low battery warning to ensure the detector works properly. Please remove the battery and safe keeping, if you don't use this product for a long time.
4. This device can be mounted on the wall only, it cannot be installed on the ceiling.

FCC Statement

15.19

1. This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference.
- (2) This device must accept any interference received, including interference that may cause undesired operation.

15.21

Note: The grantee is not responsible for any changes or modifications not expressly approved by the party responsible for compliance. Such modifications could void the user's authority to operate the equipment.

15.105(b)

NOTE: 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 in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help

IC Statement

This device complies with Industry Canada licence-exempt RSS standard(s). Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes :

- (1) l'appareil ne doit pas produire de brouillage, et
- (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.