

Z-Wave Door Sensor Guide Document

1. Door Sensor Z-Wave Specifications

- Device Type : Sensor – Notification
- Role Type : RSS (Reporting Sleeping Slave)
- Command Class Support/Control
 - ✓ Version C.C version 2
 - ✓ Manufacture Specific C.C Version 2
 - ✓ Notification C.C Version 8
 - ✓ Device Reset Locally C.C Version 1
 - ✓ Association Group Information C.C Version 1
 - ✓ Association C.C Version 2
 - ✓ Battery C.C Version 1
 - ✓ Wake Up C.C Version 2
 - ✓ Power Level C.C Version 1
 - ✓ Z-Wave plus info C.C Version 2
 - ✓ Firmware Update Meta Data C.C Version 5
 - ✓ Configuration C.C Version 1
 - ✓ Indicator C.C Version 3
 - ✓ Multi Channel Association C.C version 3
 - ✓ Securiy2 C.C Version 1
 - ✓ Supervision C.C Version
 - ✓ Transport Service C.C version 2

2. Technical Specifications

- a. South Korea 919–923 MHz RF Frequency
- b. Up to 500m outdoor line of sight
- c. Used AAA type two Battery.
- d. Operating Temperature 0 °C ~ 50 °C.

3. Door Sensor Device Inclusion

- a. Press & hold Inclusion/Exclusion button for 5 seconds when Door Sensor is exclusion status.
- b. LED of Door sensor will be on 5 seconds later.
- c. Door sensor will try Inclusion for 30sec when button is released.
- d. LED will blink 3 times with 250ms interval if Inclusion is successful.

4. Door Sensor Device Exclusion

- a. Receiver will stay exclusion waiting mode.
- b. Press & hold Inclusion/Exclusion button for 5 seconds when Door Sensor is Inclusion status.
- c. LED of Door sensor will be on 5 seconds later.
- d. Door sensor will try Exclusion when button is released.
- e. LED will blink 3 times with 250ms interval if Exclusion is successful.

5. Door Sensor Device Factory Reset

- a. Press & hold Inclusion/Exclusion button for 10sec.
- b. LED will blink while holding the button.
- c. Factory reset will be done in 5sec after releasing button and LED will blink 5 times with 100ms interval.

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



6. Notification Command

No	Description	Byte size	Value	
1	Notification Type	1	0x06	Access Control
2	Event	1	0x16/0x17	Open/Close

7. Wake up Notification

- a. Device sends Wake up Notification by every 15 minutes (default).
- b. Devices also sends Wake up Notification when inclusion/exclusion button is shortly pressed (200ms~1sec) regardless of 15minutes interval.

8. Association & Association Group Information

- a. Grouping identifier : Association Group support is only 1.
- b. Maximum number of devices that can be added to the group : The maximum number of node supports up to 5.
- c. Description of how the association group is used and/or triggered by the product : This product's Association Group are used by Life Line of products.

9. Battery Report

- a. The device sends Battery report when the power supplied
- b. The device sends Battery Report 4times a day for every 6 hours. (Default)
- c. The device sends Low Battery Report 1 time if battery voltages drops under 2.5V

Battery Voltage	%	Data
3.0V	100%	64(h)
...
2.12V(Low battery warning)	10%	FF(h)
...
2.0V	0%	00(h)

10. Z-Wave Configuration Parameters

- a. Parameter Number : Battery Period (0x01).
- b. Description of parameter and its effect on the product
: Battery Report Period Value
- c. Default value : 0x18
- d. Size (Number of bytes) : 1 Byte
- e. Possible Values : 0x01 ~ 0x7F

11. ZWAVE_PLUS_INFO

No	Description	Byte size	Value	
1	Z-Wave+ Version	1	0x02	
2	Role Type	1	0x06	RSS
3	Node Type	1	0x00	Z-Wave Plus node
4	Installer Icon Type	2	0x0C06	ICON_TYPE_SPECIFIC_
5	User Icon Type	2	0x0C06	SENSOR_NOTIFICATION_ ACCESS_CONTROL

12. Version Command

No	Description	Byte size	Value	
1	Z-Wave Library Type	1	0x03	Enhanced Slave
2	Z-Wave Protocol Version	2	0x070B	
3	Firmware Version	2	0x2710	v1.00.00
4	Hardware Version	1	0x01	V1.0

13. Manufacturer Command

No	Description	Byte size	Value	비고
1	Manufacturer ID	2	0x022C	RemoteSolution
2	Product Type ID	2	0x0060	Sensor Door
3	Product ID	2	0x0001	Sensor Door
4	Device ID Type	3bits	1	Serial Number
5	Device ID Data Format	3bits	1	Binary
6	Device ID Data Length Indicator	5bits	6	Device ID Data Length Indicator
7	Device ID Data 1 ~ 6	6	022C60000001	Serial Number

14. 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.

15. Support of Basic CC is not required for this Device Type.
So ignore if you get Basic Get.

16. SmartStart enabled products can be added into a Z-Wave network by scanning the Z-Wave QR Code present on the product with a controller providing SmartStart inclusion. No further action is required and the SmartStart product will be added automatically within 10 minutes of being switched on in the network vicinity. The QR code or PIN number in this product attached to the product is used for S2 inclusion.

17. QR code and PIN code is located above the battery insertion position.

18. The DSK string is located to the back of the package box.