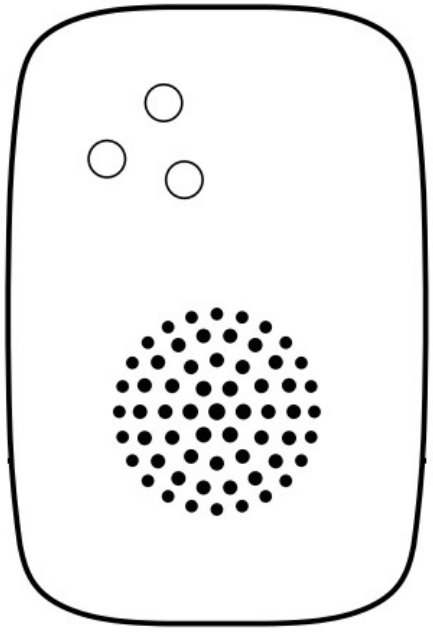
# Siren 8

(ZWA065)



| REVISION RECORD | | |
|---|---|---|
| Version | Date | Brief description of changes |
| 0.1 | 2025.06.17 | First revision. |
| 0.2 | 2025.08.27 | Update. |
| 0.3 | 2025.11.04 | Add the function of "Switch Device Type" |

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# 1 OVERVIEW

The Siren 8 is a wireless Z-Wave® device that allows you to have additional sirens placed throughout the home. It can be powered by AC power socket or its internal backup battery. Three LED lights that strobe when the siren is triggered.

This product supports Security 2 Command Class. While a Security S2 enabled Controller is needed in order to fully use the security feature. This product can be operated in any Z-Wave network with other Z-Wave/ Z-Wave Plus® certified devices from other manufacturers. All mains operated nodes within the network will act as repeaters regardless of vendor to increase reliability of the network. This product also supports SmartStart.




| Terminology | Description |
|---|---|
| Action Button | Used for networking ,resetting and protect the device. |
| Network Led | Used for indicating the current state of the product. |
| Safety Led | Send out alarm lights |
| Speaker System | Make an alarm sound |

# 2 SPECIFICATIONS

## 2.1 Structural

| Parameter | Value |
|---|---|
| Product Identifier | ZWA065 |
| Dimensions | 85x57x28mm |
| Color | White |
| Usage | For indoor use. |
| Operating Temperature | 0~45°C |
| Relative Humidity | 20%~80% |

## 2.2 Hardware

| Parameter | Value |
|---|---|
| Z-Wave Module | EFR32ZG23 |
| Z-Wave TX Power | Max: 14dBm |
| Z-Wave Classic Antenna Distance | 30m (Indoor) /150m (Outdoor) |
| Z-Wave Long Range Antenna Distance | 40m (Indoor) / 400m (Outdoor) |
| Indicator Light Color | white |
| Buttons | Action Button x 1 |
| Battery | Built-in Lithium Battery 450mAh,<br>Powered by battery, capable of continuous alarm for 2 hours. |
| Input Voltage | US: 120V~60Hz, EU/ANZ: 230V~50Hz |
| Working Power | 2.55W (Peak) |
| Standby Power | 0.2W (No Charge) |
| Maximum alarm volume | 105dB |

## 2.3 Software

| Parameter | Value |
|---|---|
| Wireless Technology | Z-Wave |
| Certification Type | Z-Wave Plus v2 Certification |
| Z-Wave SDK Version | 7.23.2 |
| Z-Wave Library Type | Enhanced 232 Slave |
| Z-Wave Role Type | Always On Slave [0x05] |
| Generic Product Type | GENERIC_TYPE_SWITCH_BINARY[0x10] (when Device Type is Binary Switch)<br>or<br>GENERIC_TYPE_AV_CONTROL_POINT [0x03] (when Device Type is Sound Switch) |
| Specific Product Type | SPECIFIC_TYPE_NOT_USED[0x00] (when Device Type is Binary Switch)<br>or<br>SPECIFIC_TYPE_SOUND_SWITCH [0x01] (when Device Type is Sound Switch) |
| Security Class | Non-Security, S0, S2 Unauthenticated, and S2 Authenticated |
| SmartStart Compatible | Support. After powering on, SmartStart is auto activated. |
| Over The Air (OTA) | Support. Firmware can be updated via RF.<br>IMPORTANT: This is a device for security situation, the OTA process MUST be carried out in the Ac power supply mode. |
| Multi Channel Product | No |
| Association | Support. Refer to Section 4.7 Association Group Info. |
| Factory Reset | Support. Refer to Section 3.6 How to factory reset. |
| Power-down Memory | Support. All command settings will stay unchanged even power down. |

| | |
|---|---|
| Sound State Report | Support. Send out sound state report via Group 1. |
| Control other product | Yes |
| Altering capabilities | changing the Device Type(Binary Switch or Sound Switch) with configuration parameter 13, the device must be re-included afterwards. |

# 3 QUICK START

## 3.1 Important safety information

Please read this manual carefully. Failure to follow the recommendations in this manual may be dangerous or may violate the law. The manufacturer, importer, distributor and seller shall not be liable for any loss or damage resulting from failure to comply with the instructions in this manual or any other material. Use this equipment only for its intended purpose. Follow the disposal instructions. Do not dispose of electronic equipment in a fire or near open heat sources.

## 3.2 How to add the product

The following will step you through adding the product to your Z-Wave network.

1. Set your Z-Wave gateway into its 'add device' mode in order to connect the product to your Z-Wave system. Refer to the gateway's manual if you are unsure of how to perform this step.
2. Click Action Button twice; its LED will flash fast to indicate it has entered pair mode.
3. When the product successfully joins your Z-Wave network its LED will turn on for 1 seconds and then turn off. Should the LED keep blinking, it has been unable to join your Z-Wave network; repeat the above steps and please contact us for further support if needed.

If your Z-Wave gateway supports SmartStart: scan the QR code on the product using the gateway's app. Your sensor will join your Z-Wave network automatically.

## 3.3 How to remove the product

1. Set your Z-Wave gateway into its 'remove device' mode.
2. Click Action Button twice on the product; its LED will flash fast to indicate it has entered remove mode.
3. When the product successfully remove, its LED will breathing light.

## 3.4 About SmartStart

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 and PIN code can be found on the back of the product, like this:




The DSK Code can be found on the packaging, like this:

Z-Wave DSK: **05065**-41336-16018-47313-50335-02212-29424-38760

**Note:** Do not remove or damage them.

## 3.5 About Product

This product can be operated in any Z-Wave network with other Z-Wave certified devices from other manufacturers. All mains operated nodes within the network will act as repeaters regardless of vendor to increase reliability of the network.

## 3.6 How to factory reset

This device also allows to be reset without any involvement of a Z-Wave controller. This procedure should only be used when the primary controller is inoperable.
Make sure the product is powered. To complete the reset process manually, press and hold the Action Button for at least 12s. The Indicator Light will become flash, which indicates the reset operation is successful. Otherwise, please try again. Contact us for further support if needed.

## 3.7 Long Range

The product can be included using Z-Wave Long Range.

# 4 SOFTWARE FUNCTION DEFINITION

## 4.1 User Behavior Interaction

| User behavior | Out of the Z-Wave network | In the Z-Wave network |
|---|---|---|
| Power OFF | Cut the power. | Cut the power. |
| Power ON | Send Inclusion Requests for SmartStart Learn Mode.<br>LED will breathing light | LED will become on one second, and turn off. |
| Click Action Button once | 1. Exit Classic Inclusion Learn Mode.<br>If Action Button is clicked again during the Classic Inclusion Learn Mode, the Learn Mode will exit. At the same time, Indicator Light will extinguish immediately, and then become breathing white light. Product will start SmartStart Mode again.<br>2. stop play tone and safety led when in alarm (Refer to configuration configured parameter 2) | 1. Exit Classic Inclusion Learn Mode.<br>If Action Button is clicked again during the Classic Inclusion Learn Mode, the Learn Mode will exit.<br>2. stop play tone and safety led when in alarm (Refer to configuration configured parameter 2) |
| Click Action Button twice | 1. Send Node Info for Adding.<br>Indicator Light will flash for up to 30s.<br>If Adding succeeds, it will turn on for 1 seconds and then turn off.<br>If Adding fails, it will return breathing white light.<br>2. Exit Classic Inclusion Learn Mode.<br>If Action Button is clicked twice again during the Classic Inclusion Learn Mode, the Learn Mode will exit. At the same time, Indicator Light will extinguish immediately, and then become breathing white light. Product will start SmartStart Mode again. | 1.Send Node Info for Removing.<br>Indicator Light will flash for up to 30s.<br>If Removing succeeds, it will turn on for 1 seconds and then turn off..<br>If Removing fails, it will it will turn off the led.<br>2. Exit Classic Inclusion Learn Mode.<br>If Action Button is clicked twice again during the Classic Inclusion Learn Mode, the Learn Mode will exit. |
| Press and hold Action Button for [1, 5s) | Reserved.<br>LEDs flash individually when press, and become off when release. | Reserved.<br>LEDs flash individually when press, and become off when release. |
| Press and hold Action Button for [5, 8s) | Test Mode:<br>LEDs flash together when press, and into test mode when release.<br>In the test mode, the sound rings for 5 seconds, LEDs are blink fast. | Test Mode:<br>LEDs flash together when press, and into test mode when release.<br>In the test mode, the sound rings for 5 seconds, LEDs are blink fast.<br>Will send tone play report to lifeline. |
| Press and hold Action Button for [8, 12s) | Reserved.<br>Indicator Light will speed up flashing when press, and turn off when release. | Reserved.<br>Indicator Light will speed up flashing when press, and turn off when release. |
| Press and hold Action Button for 12 seconds | Factory Reset.<br>If the LED starts breathing light, which indicates the reset is success | Factory Reset.<br>If the LED starts breathing light, which indicates the reset is success |

## 4.2 Supported Command Classes

| Command Class | Version | Securely added | |
|---|---|---|---|
| | | Non-secure | Secure |
| ZWAVEPLUS_INFO | 2 | Support | Support |
| ASSOCIATION | 2 | | Support |
| MULTI_CHANNEL_ASSOCIATION | 3 | | Support |
| ASSOCIATION_GRP_INFO | 3 | | Support |
| TRANSPORT_SERVICE | 2 | Support | Support |
| VERSION | 3 | | Support |

| | | | |
|---|---|---|---|
| MANUFACTURER_SPECIFIC | 2 | | Support |
| DEVICE_RESET_LOCALLY | 1 | | Support |
| INDICATOR | 3 | | Support |
| POWERLEVEL | 1 | | Support |
| CONFIGURATION | 4 | | Support |
| SCENE_ACTUATOR_CONF | 1 | | Support |
| SCENE_ACTIVATION | 1 | | Support |
| NOTIFICATION | 8 | | Support |
| APPLICATION_STATUS | 1 | Support | Support |
| SECURITY | 1 | Support | Support |
| SECURITY_2 | 1 | Support | Support |
| SUPERVISION | 1 | Support | Support |
| FIRMWARE_UPDATE_MD | 5 | | Support |
| BINARY_SWITCH(Device Type is Binary Switch)<br>Or<br>SOUND_SWITCH(Device Type is Sound Switch) | 2 | | Support |

## 4.3 Basic Command Class mapping

When Device Type is Binary Switch:

| Basic Command | Mapped Command |
|---|---|
| Basic Set | Map to Binary Switch Set |
| Basic Get | Map to Binary Switch Get |
| Basic Report | Map to Binary Switch Report |

Or Device Type is Sound Switch:

| Basic Command | Mapped Command |
|---|---|
| Basic Set (value) | Map to Sound Switch Tone Play Set (total number of supported is 5)<br>When value = 0x00, stop playing any tone<br>When 1 <= value <= 5, play the specified tone id.<br>When 5 < value < 99, play the default tone<br>When value = 0xFF, play the default tone |
| Basic Get | Map to Sound Switch Tone Play Get |
| Basic Report (current value, Target value, duration) | Map to Sound Switch Tone Play Report<br>Current value = 0x00, has stopped playing<br>Current value <= 5, playing the specified tone.<br>Target value = current value<br>Duration = instantly |

## 4.4 Binary Switch (When Device Type is Binary Switch)

| Command | Description |
|---|---|
| Binary Switch Set | Target Value = 0x00, stop playing any tone<br>When 1 <= value <= 5, play the specified tone id.<br>When 5 < value < 99, play the default tone<br>When value = 0xFF, play the default tone<br>Duration = instantly |
| Binary Switch Get | Request the current On/Off state from the node |
| Binary Switch Report | Current value = 0x00, has stopped playing<br>Current value = 0xFF, playing tone.<br>Target value = current value<br>Duration = instantly |

## 4.5 Z-Wave Plus® Info

| Parameter | Value |
|---|---|
| Z-Wave Plus Version | 0x02 |
| Role Type | 0x05 [ROLE_TYPE_SLAVE_ALWAYS_ON] |
| Node Type | 0x00 [ZWAVEPLUS_INFO_REPORT_NODE_TYPE_ZWAVEPLUS_NODE) |

When Device Type is Binary Switch:

| Parameter | Value |
|---|---|
| Installer Icon Type | 0x0F00 [ICON_TYPE_GENERIC_SIREN] |
| User Icon Type | 0x0F00 [ICON_TYPE_GENERIC_SIREN] |

Or Device Type is Sound Switch:

| Parameter | Value |
|---|---|
| Installer Icon Type | 0x0900 [ICON_TYPE_GENERIC_REMOTE_CONTROL_AV] |
| User Icon Type | 0x0900 [ICON_TYPE_GENERIC_REMOTE_CONTROL_AV] |

## 4.6 Manufacturer Specific

| Parameter | Value |
|---|---|
| Manufacturer ID 1 | 0x03 |
| Manufacturer ID 2 | 0x71 |
| Product Type ID 1 | 0x00 [EU], 0x01 [US], 0x02 [AU] |
| Product Type ID 2 | 0x03 (When Device Type is Binary Switch) / 0x04 (When Device Type is Binary Switch) |
| Product ID 1 | 0x00 |
| Product ID 2 | 0x41 (65) |

## 4.7 Version

| Parameter | Value |
|---|---|
| Z-Wave Protocol Library Type | 0x03 |
| Z-Wave Protocol Version | 0x07 |
| Z-Wave Protocol Sub Version | 0x17 |
| Firmware 0 Version | 0x01 [Z-Wave Chip Firmware Version] |
| Firmware 0 Sub Version | 0x00 [Z-Wave Chip Firmware Sub Version] |
| Hardware Version | 0x41 (65) |
| Number of firmware targets | 0x00 |

## 4.8 Association Group Info

When Device Type is Binary Switch:

| ID | Name | Node count | Profile | Function |
|---|---|---|---|---|
| 1 | Lifeline | 5 | General: Lifeline (0x0001) | **Device Reset Locally Notification:**<br>Issued when Factory Reset is performed.<br>**Basic Report:**<br>Issued when Play Tone is changed(enable by configuration 80)<br>**Notification Report:**<br>Issued when power supply is changed.<br>**Indicator Report:**<br>Issued when indication is changed.<br>**Switch Binary Report:** (When Device Type is Binary Switch)<br>Issued when Play Tone is changed(enable by configuration 80) |

| | | | | |
|---|---|---|---|---|
| | | | | **Sound Switch Tone Play Report: (**When Device Type is sound switch)<br>Issued when Play Tone is changed ,including testing mode.<br>**Sound Switch Configuration Report: (**When Device Type is sound switch)<br>Issued when default tone id or volume is changed.<br>**Sound Switch Tone Info Report: (**When Device Type is sound switch)<br>Issued when tone duration is changed. |
| 2 | Retransmit | 5 | Control:<br>NA(0x2000) | **Basic Set:**<br>Issued when received Basic Set command(enable by configuration 80)<br>**Switch Binary Set:** (When Device Type is Binary Switch)<br>Issued when received Binary Switch Set command(enable by configuration 80)<br>**Sound Switch Tone Play Set: (**When Device Type is sound switch)<br>Issued when received Sound Switch Tone Play Set command. |

Or Device Type is Sound Switch:

| ID | Name | Node count | Profile | Function |
|---|---|---|---|---|
| 1 | Lifeline | 5 | General: Lifeline (0x0001) | **Device Reset Locally Notification:**<br>Issued when Factory Reset is performed.<br>**Basic Report:**<br>Issued when Play Tone is changed(enable by configuration 80)<br>**Notification Report:**<br>Issued when power supply is changed.<br>**Indicator Report:**<br>Issued when indication is changed.<br>**Sound Switch Tone Play Report:**<br>Issued when Play Tone is changed ,including testing mode.<br>**Sound Switch Configuration Report:**<br>Issued when default tone id or volume is changed.<br>**Sound Switch Tone Info Report:**<br>Issued when tone duration is changed.<br>**Configuration Report:**<br>Issued when default tone id or volume is changed. |
| 2 | Retransmit | 5 | Control:<br>NA(0x2000) | **Basic Set:**<br>Issued when received Basic Set command(enable by configuration 80)<br>**Sound Switch Tone Play Set:**<br>Issued when received Sound Switch Tone Play Set command.<br>Issued when manually stop the tone<br>Issued when enter or exit testing mode |

## 4.9 Notification

| Notification Type | | Notification Events | | Description |
|---|---|---|---|---|
| Power Management | 0x08 | Power has been applied | 0x01 | Power has been applied |

| | | | | |
|---|---|---|---|---|
| | | AC mains disconnected | 0x02 | Supply by battery |
| | | AC mains re-connected | 0x03 | Supply by AC |

## 4.10 Sound Switch (When Device Type is sound switch)

1. Sound Switch Tones Number: 5

2. Default Tone Identifier: 01

3. Default Tone Volume:  100

4. Sound Switch Tone Info:

| Tone Identifier | Name | Durations (Second) |
|---|---|---|
| 01 | Sound 1 | 300 (configuration parameter 1) |
| 02 | Sound 2 | 300 (configuration parameter 1) |
| 03 | Sound 3 | 300 (configuration parameter 1) |
| 04 | Sound 4 | 300 (configuration parameter 1) |
| 05 | Sound 5 | 300 (configuration parameter 1) |

Mark: Durations can be set through configured parameter 1.

5. The actual volume of the product has only 10 levels, and the mapping relationship is as follows:

| Volume | Actual volume level | Safety Led |
|---|---|---|
| 01--10 | LEVEL_1 (Low) | LEVEL_1 (Low) |
| 11--20 | LEVEL_2 | LEVEL_2 |
| 21--30 | LEVEL_3 | LEVEL_3 |
| 31--40 | LEVEL_4 | LEVEL_4 |
| 41--50 | LEVEL_5 | LEVEL_5 |
| 51--60 | LEVEL_6 | LEVEL_6 |
| 61--70 | LEVEL_7 | LEVEL_7 |
| 71--80 | LEVEL_8 | LEVEL_8 |
| 81--90 | LEVEL_9 | LEVEL_9 |
| 91--100 | LEVEL_10(High) | LEVEL_10 (High) |

## 4.11 Scene Actuator Configuration and Scene Activation

1. Supports 255 scenes;

2. Level field map to sound switch tone id;

3. Dimming Duration field map to instantly.

## 4.12 Indicator

| Indicator ID | | Property ID | |
|---|---|---|---|
| Node Identify | 0x50 | Multilevel | 0x01 |

| | | | |
|---|---|---|---|
| (Only supports LED) | | On Off Period | 0x03 |
| | | On Off Cycles | 0x04 |
| | | On time within an On/Off period | 0x05 |
| | | Timeout minutes | 0x06 |
| | | Timeout seconds | 0x07 |

## 4.13 Application Status

When the product is in alarm and receives a indicator set command, it will send a application busy status to the source node.

## 4.14 Configuration

| Parameter | 0x01 (1) | | | |
|---|---|---|---|---|
| Name | Set the alarm duration in seconds | | | |
| Info | Set the alarm duration in seconds | | | |
| Properties | Size | 2 | Min Value | 10 |
| | Format | Unsigned Integer | Max Value | 600 |
| | Read-only | False | Default Value | 180 |
| | Altering capabilities | False | Advanced | False |
| Description | Set the alarm duration in seconds | | | |

| Parameter | 0x02 (2) | | | |
|---|---|---|---|---|
| Name | Set default tone id | | | |
| Info | Set default tone id | | | |
| Properties | Size | 1 | Min Value | 1 |
| | Format | Unsigned Integer | Max Value | 5 |
| | Read-only | False | Default Value | 1 |
| | Altering capabilities | False | Advanced | False |
| Description | Set default tone id | | | |

| Parameter | 0x03 (3) |
|---|---|
| Name | Set default volume |

| | | | | |
|---|---|---|---|---|
| Info | Set default volume | | | |
| Properties | Size | 1 | Min Value | 0 |
| | Format | Unsigned Integer | Max Value | 100 |
| | Read-only | False | Default Value | 100 |
| | Altering capabilities | False | Advanced | False |
| Description | Set default volume | | | |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Parameter | 0x04 (4) | | | | | | | | |
| Name | Enable button click to stop function | | | | | | | | |
| Info | Enable button click to stop function | | | | | | | | |
| Properties | Size | 1 | Min Value | 0x00 | | | | | |
| | Format | Bit field | Max Value | 0x03 | | | | | |
| | Read-only | False | Default Value | 0x03 | | | | | |
| | Altering capabilities | False | Advanced | False | | | | | |
| Description | Enable button click to stop alarm and indicator | | | | | | | | |
| | Bit | 7 | 6 | 5 | 4 | 3 | 2 | 1 | 0 |
| | Function | Reserved | Reserved | Reserved | Reserved | Reserved | Reserved | Stop indicator | Stop alarm |
| | 0 | disable | | | | | | | |
| | 1 | enable | | | | | | | |

| | | | | |
|---|---|---|---|---|
| Parameter | 0x05 (5) | | | |
| Name | Enable play sound when AC outage | | | |
| Info | Enable play sound when AC outage | | | |
| Properties | Size | 1 | Min Value | 0 |
| | Format | Enumerated | Max Value | 1 |
| | Read-only | False | Default Value | 0 |
| | Altering capabilities | False | Advanced | False |

| | | |
|---|---|---|
| Description | Enable play sound when AC outage | |
| | Value | Function |
| | 0 | Disable |
| | 1 | Enable. |

| | | | | |
|---|---|---|---|---|
| Parameter | 0x06 (6) | | | |
| Name | Stop alarm when AC reconnect | | | |
| Info | Stop alarm when AC reconnect | | | |
| Properties | Size | 1 | Min Value | 0 |
| | Format | Enumerated | Max Value | 1 |
| | Read-only | False | Default Value | 0 |
| | Altering capabilities | False | Advanced | False |
| Description | Stop alarm when AC reconnect | | | |
| | Value | Function | | |
| | 0 | Don’t stop alarm when AC reconnect | | |
| | 1 | Stop alarm when AC reconnect. | | |

| | | | | |
|---|---|---|---|---|
| Parameter | 0x07 (7) | | | |
| Name | Delay of (AC outage) alarm cancelation | | | |
| Info | Delay of (AC outage) alarm cancelation | | | |
| Properties | Size | 2 | Min Value | 0 |
| | Format | Unsigned Integer | Max Value | 300 |
| | Read-only | False | Default Value | 0 |
| | Altering capabilities | False | Advanced | False |
| Description | Delay of (AC outage) alarm cancelation | | | |
| | Value | Function | | |
| | 0 | no Cancelation | | |

| | | |
|---|---|---|
| | 1-300 | 1 – 300 sec. |

| Parameter | 0x08 (8) | | | |
|---|---|---|---|---|
| Name | Enable LED when siren alarm | | | |
| Info | Enable LED when siren alarm | | | |
| Properties | Size | 1 | Min Value | 0 |
| | Format | Enumerated | Max Value | 1 |
| | Read-only | False | Default Value | 1 |
| | Altering capabilities | False | Advanced | False |
| Description | Enable / Disable LED when siren alarm is turned on/off | | | |
| | Value | Function | | |
| | 0 | Disable | | |
| | 1 | Enable. | | |

| Parameter | 0x09 (9) | | | |
|---|---|---|---|---|
| Name | Enable tone when Siren alarm | | | |
| Info | Enable tone when Siren alarm | | | |
| Properties | Size | 1 | Min Value | 0 |
| | Format | Enumerated | Max Value | 1 |
| | Read-only | False | Default Value | 1 |
| | Altering capabilities | False | Advanced | False |
| Description | Enable/ Disable Siren tone when siren alarm is turned on/off | | | |
| | Value | Function | | |
| | 0 | Disable | | |
| | 1 | Enable. | | |

| Parameter | 0x0A (10) |
|---|---|

| | | | | |
|---|---|---|---|---|
| Name | Set level of light pattern | | | |
| Info | Set level of light pattern | | | |
| Properties | Size | 1 | Min Value | 1 |
| | Format | Unsigned Integer | Max Value | 99 |
| | Read-only | False | Default Value | 1 |
| | Altering capabilities | False | Advanced | False |
| Description | Only valid in light pattern mode | | | |
| | Value | Function | | |
| | 1-99 | Led level | | |

| | | | | |
|---|---|---|---|---|
| Parameter | 0x0B (11) | | | |
| Name | set led on together of light pattern | | | |
| Info | set led on together of light pattern | | | |
| Properties | Size | 1 | Min Value | 0 |
| | Format | Enumerated | Max Value | 1 |
| | Read-only | False | Default Value | 1 |
| | Altering capabilities | False | Advanced | False |
| Description | Set led light up together or one by one, only valid in light pattern mode. | | | |
| | Value | Function | | |
| | 0 | light up one by one | | |
| | 1 | light up together | | |

| | | | | |
|---|---|---|---|---|
| Parameter | 0x0C (12) | | | |
| Name | Set effect of light pattern | | | |
| Info | Set effect of light pattern | | | |
| Properties | Size | 4 | Min Value | 0 |
| | Format | Unsigned Integer | Max Value | 0xFFFFFFFF |

| | | | | |
|---|---|---|---|---|
| | Read-only | False | Default Value | 0 |
| | Altering capabilities | False | Advanced | False |

| Description | The unit of periods and On time is 0.1 seconds.<br>For example, setting the periods to 1 second, cycles to 6 times, and on time to 0.5S, then the value is 0x010A0605. | | | |
|---|---|---|---|---|
| | BYTE 1 (High Byte) | BYTE 2 | BYTE 3 | BYTE 4 (Low Byte) |
| | Multilevel group (0x00) | Multilevel value | ignored | ignored |
| | toggling group (0x01) | On/Off Periods | On/Off Cycles | On time |
| | timeout group (0x02) | Timeout(minutes) | Timeout(seconds) | ignored |

| Parameter | 0x0D (13) | | | |
|---|---|---|---|---|
| Name | Changing Device Type | | | |
| Info | Changing the Device Type between in Binary Switch or Sound Switch | | | |
| Properties | Size | 1 | Min Value | 0 |
| | Format | Enumerated | Max Value | 1 |
| | Read-only | False | Default Value | 1 |
| | Altering capabilities | True | Advanced | False |

| Description | The product supports 2 Device Types: Binary Switch or Sound Switch.<br>**Note:** Changing the Device Type with this configuration parameter 13, the device must be re-included afterwards. | |
|---|---|---|
| | Value | Function |
| | 0 | Device Type=Binary Switch |
| | 1 | Device Type= Sound Switch |

| Parameter | 0x50 (80) | | | |
|---|---|---|---|---|
| Name | Enable Association group report | | | |
| Info | Enable Association group report | | | |
| Properties | Size | 1 | Min Value | 0 |
| | Format | Enumerated | Max Value | 1 |

| | | | | |
|---|---|---|---|---|
| | Read-only | False | Default Value | 1 |
| | Altering capabilities | False | Advanced | False |

| | | |
|---|---|---|
| Description | Enable Association group report | |
| | Value | Function |
| | 0 | enable basic report of group1,<br>enable basic set of group2. |
| | 1 | (if the Device Type is Binary switch)<br>enable switch binary report of group1,<br>enable switch binary set of group2. |

| Parameter | 0xFC (252) | | | |
|---|---|---|---|---|
| Name | lock configuration setting | | | |
| Info | lock configuration setting | | | |
| Properties | Size | 1 | Min Value | 0 |
| | Format | Enumerated | Max Value | 1 |
| | Read-only | False | Default Value | 0 |
| | Altering capabilities | False | Advanced | False |

| | | |
|---|---|---|
| Description | Enable/disable to lock configuration parameters | |
| | Value | Function |
| | 0 | Disable |
| | 1 | Enable. |