



## EVALOIGK SmartStart On/Off Switch S2 User Manual

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# EVALOIGK™



S2 Smart Start On/Off Switch



### S2 SmartStart On/Off Switch Manual

Federal Communications Commission (FCC) Statement FCC Caution: Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment. 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.

**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. This equipment should be installed and operated with a minimum distance of 20cm between the radiator and your body.

#### **IC Caution:**

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 interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

## **DECLARATION DE CONFORMITE D'INDUSTRIE CANADA**

### **WARRANTY**

Evalogik Products warrants this product to be free from manufacturing defects for a period of two years from the original date of consumer purchase. This warranty is limited to the repair or replacement of this product only and does not extend to consequential or incidental damage to other products that may be used with this product.

This warranty is in lieu of all other warranties, expressed or implied. Some states do not allow limitations on how long an implied warranty lasts or permit the exclusion or limitation of incidental or consequential damage, so the above limitations may not apply to you.

This warranty gives you specific rights, and you may also have other rights which vary from state to state. If the unit should prove defective within the warranty period.

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## **SPECIFICATIONS**

**Model:** ZW30S

**Power:** 120 VAC, 60 Hz.

**Signal (Frequency):** 908.42 MHz. Maximum load for outlet 15A, 960W Resistive

**Maximum load for the Z-Wave™ controlled outlet:** 600W Incandescent, ½ HP Motor or 600W Resistive

**Range:** Up to 100 feet line of sight between the Wireless Contr and the closest Z-Wave™ receiver module.

**Operating Temperature Range:** 32-104° F (0-40° C)

Specifications subject to change without notice due to continuing product improvement

Website: [www.nie-tech.com](http://www.nie-tech.com)

### **WARNING**

RISK OF FIRE RISK OF ELECTRICAL SHOCK RISK OF BURNS

**CONTROLLING APPLIANCES:** EXERCISE EXTREME CAUTION WHEN USING Z-Wave™ DEVICES TO CONTROL APPLIANCES. OPERATION OF THE Z-Wave™ DEVICE MAY BE IN A DIFFERENT ROOM THAN THE CONTROLLED APPLIANCE, ALSO UNINTENTIONAL ACTIVATION MAY OCCUR IF THE WRONG BUTTON ON THE REMOTE IS PRESSED. Z-Wave™ DEVICES MAY AUTOMATICALLY BE POWERED ON DUE TO TIMED EVENT PROGRAMMING. DEPENDING UPON THE APPLIANCE, THESE UNATTENDED OR UNINTENTIONAL OPERATIONS COULD POSSIBLY RESULT IN A HAZARDOUS CONDITION. FOR THESE

REASONS, WE RECOMMEND DO NOT RETURN THIS PRODUCT TO THE STORE

#### **THE FOLLOWING:**

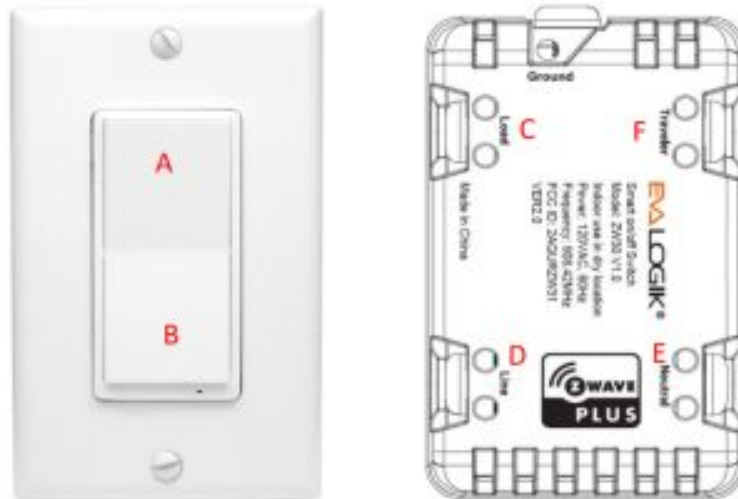
DO NOT USE Z-Wave™ DEVICES TO CONTROL ELECTRIC

HEATERS OR ANY OTHER APPLIANCES WHICH MAY PRESENT

A HAZARDOUS CONDITION DUE TO UNATTENDED OR UNINTENTIONAL OR AUTOMATIC POWER-ON CONTROL.

## Introduction:

This product can be operated in any Z-Wave network with other Z-Wave Plus™ certified devices from other manufacturers. All non-battery-operated nodes within the network will act as repeaters regardless of vendor to increase the reliability of the network. Each module is designed to act as a repeater, which will re-transmit a radio frequency (RF) signal by routing the signal around obstacles and radio dead spots to ensure that the signal is received at its intended destination. ZW30S is a security-enabled Z-Wave Plus™ device. Security Enabled Z-Wave Plus™ Controller must be used in order to fully utilize the product. The Device Type of the ZW30S is an on/off power switch. The Role Type of the ZW30S is Always On Slave Role Type



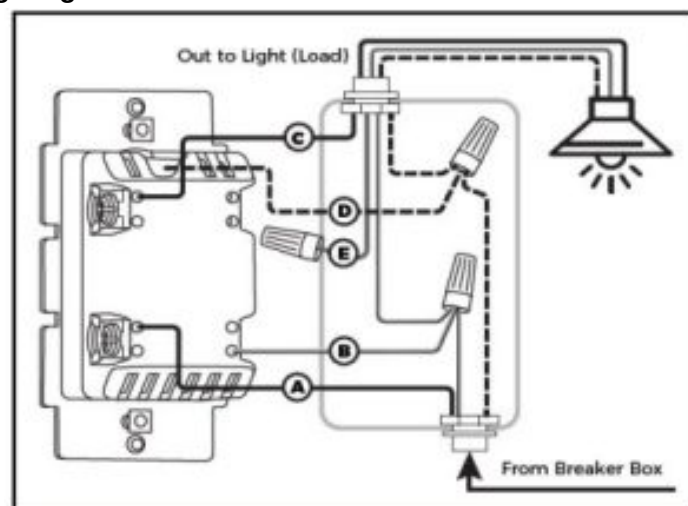
## Key Features:

- Remote ON/OFF control via the Z-Wave™ controller
- Manual ON/OFF control with the front panel push button
- Support Association Group and Auto Report switch status
- Support firmware upgrades via Over-the-air (need Gateways support)
- Support Scenes

## Product Overview:

- A. Up Push button
- B. Down Push button
- C. Load1 (Black)
- D. Lin (Black) – Line in
- E. Nin (White) – Neutral in
- F. 3-way (RED)

## ZW30S Installation Wiring Diagram



- A. LINE (Hot) — Black (connected to power)
- B. NEUTRAL — White
- C. LOAD — Black (connected to lighting)

D. GROUND — Green/Bare E. TRAVELER — Red/Other (only in 3-way installations)

### Key function description

**Function 1:** Press the up or down button to turn the output ON or OFF

**Function 2:** quickly press 3x upper paddle: inclusion (only if the switch is not included in network) quickly press 3x lower paddle: exclusion

**Function 3:** quickly press upper paddle 6x to change Status LED Configuration

**Function 4:** Press and hold lower paddle for 10 seconds, then LED starts blinking, release paddle and within 2 seconds, click lower paddle 5 times

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

**Function 5:** Tap A(1x/2x/3x/4x/5x/Hold/Release) Activate the scene.

Function 6: Tap B(1x/2x/3x/4x/5x/Hold/Release) Activate the scene.

### Adding Your Device To A Hub

The device support two methods of inclusion, When using a Z-Wave Plus™ certified controller choose Network Wide Inclusion or SmartStart, Network Wide Inclusion To A Z-Wave™ Network

1. Refer to your primary controller instructions to process the inclusion/exclusion setup procedure.
2. When prompted by your primary controller, click the Up or Down button three times in one second.

The device is compatible with SmartStart

SmartStart enabled products can be added into a Z-Wave™ network by scanning the Z-Wave QR Code found on the top of the outlet or the back of the box 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 and in the network vicinity.

### QR CODE

the QR code is stuck to the side of the case, DSK is included in the QR code.

### DSK

The DSK code can be found on the DSK label which is attached to the packaging box.



<http://www.qrstuff.com>





### **Z-Wave™ protocol Command Class Node Info**

COMMAND\_CLASS\_ZWAVEPLUS\_INFO\_V2,  
 COMMAND\_CLASS\_SWITCH\_BINARY\_V2,  
 COMMAND\_CLASS\_CONFIGURATION\_V4,  
 COMMAND\_CLASS\_CENTRAL\_SCENE\_V3,  
 COMMAND\_CLASS\_ASSOCIATION\_V3,  
 COMMAND\_CLASS\_MULTI\_CHANNEL\_ASSOCIATION\_V3,  
 COMMAND\_CLASS\_ASSOCIATION\_GRP\_INFO\_V3,  
 COMMAND\_CLASS\_TRANSPORT\_SERVICE\_V2,  
 COMMAND\_CLASS\_VERSION\_V3,  
 COMMAND\_CLASS\_MANUFACTURER\_SPECIFIC\_V1,  
 COMMAND\_CLASS\_DEVICE\_RESET\_LOCALLY\_V1,  
 COMMAND\_CLASS\_INDICATOR\_V3,  
 COMMAND\_CLASS\_POWERLEVEL\_V1,  
 COMMAND\_CLASS\_SECURITY\_2,  
 COMMAND\_CLASS\_SUPERVISION\_V1,  
 COMMAND\_CLASS\_FIRMWARE\_UPDATE\_MD\_V5

### **The Below listed Command Class are all supported the Security S2**

COMMAND\_CLASS\_VERSION\_V2,  
 COMMAND\_CLASS\_SWITCH\_BINARY\_V2,  
 COMMAND\_CLASS\_CONFIGURATION\_V4,  
 COMMAND\_CLASS\_CENTRAL\_SCENE\_V3,  
 COMMAND\_CLASS\_ASSOCIATION\_V3,  
 COMMAND\_CLASS\_MULTI\_CHANNEL\_ASSOCIATION\_V3,  
 COMMAND\_CLASS\_ASSOCIATION\_GRP\_INFO\_V3,  
 COMMAND\_CLASS\_MANUFACTURER\_SPECIFIC\_V1,  
 COMMAND\_CLASS\_DEVICE\_RESET\_LOCALLY\_V1,  
 COMMAND\_CLASS\_INDICATOR\_V3,  
 COMMAND\_CLASS\_POWERLEVEL\_V1,  
 COMMAND\_CLASS\_FIRMWARE\_UPDATE\_MD\_V5

## Z-Wave™ Configuration Parameters

You may use the below configuration parameters to change the settings of the corresponding functionality.

### 1. Locally Button function

**Parameter No:** 1(0x01)

**Size:**1 Byte

**Value:** 00(default)

**Value:** 01

**Value:** 02

Up Button ON, Down Button OFF

Up Button OFF, Down Button ON

Up button ON/OFF, Down Button ON/OFF

### 2. Status LED Configuration

**Parameter No:** 2(0x02)

**Size:**1 Byte

**Value:** 00(default)

**Value:** 01

**Value:** 02 **Value:** 03

Output and the LED are in different states.

Output and the LED are in the same state.

LED Always OFF

LED Always ON

### 3. Auto Turn-Off Timer

**Parameter No:** 3(0x03)

**Size=**4

**Values:**0 (minutes) default;

**Values:** 1 – 65535 (minutes);

### 4. Auto Turn-Off Timer

**Parameter No:** 5(0x05)

**Size=**4

**Values:**0 (minutes) default;

**Values:** 1 – 65535 (minutes);

### 5. Restores state after power failure parameter

**No:** 11(0x0B)

**Size=**1

**Default =**1

**Value=**0

**Value=**1

**Value=**2

disable local button and External Switch control, enable Z-Wave™ control

enable local button and External Switchcontrol, enable Z-Wave™ control

disable local button and External Switch control

## 6. external switch type

**Parameter No:** 12(0x0C)

**Size:**1 ,

**Default** =0

**Value:** 0

**Value:** 01

**Value:** 02

toggle switch(device changes status when switching changes status) momentary switch electronic add-on switch

## 7. Behavior when Output control disabled

**Parameter No:** 13(0x0D)

**Size:**1 , **Default** =0

**Value:** 0

Report on/off status and change LED indicator when upper or lower paddle is pressed and Parameter 11 is set to value 0 or 2 (output control disabled).

**Value:** 01

DON't report on/off status or change LED indicator when the upper or lower paddle is pressed and Parameter 11 is set to value 0 or 2 (output control disabled).

## 8. LED Indicator Color

**Parameter No:** 14(0x0E)

**Size:**1 ,

**Default** =1

**Value:** 0 White

**Value:** 01 Blue

**Value:** 02 Green

**Value:** 03 Red

## 9. LED Indicator Brightness

**Parameter No:** 15(0x0F)

**Size:**1 ,

**Default** =1

**Value:** 00 Bright (100%)

**Value:** 01 Medium (60%)

**Value:** 02 Low (30%)

## 10. Association reports

**Parameter No:** 16(0x10)

**Size:**1 ,

**Default** =1

**Value:** 00 Z-Wave™ control: Binary switch report, Manual control: Basic set report

**Value:** 01 Z-Wave™ **control:** Basic set report **control** Binary switch report, Manual control: Binary switch report

## Support for Association Groups

ZW30S supports 3 association groups. Group 1 supports 1 node ID, Group 2 and Group 3 Supports a maximum

of 5 node ID's Association group\_1:Z-Wave™ Plus Lifeline  
Association group\_1 is defaulted to associate with the primary controller (Gateway/Hub/Controller) for ZW30S  
Status change report,


1. ZW30S will trigger the AUTO report function if the Switch status had been changed. (ex. Switch Binary Report/Basic Report/Central Scene Notification/ Device Reset Locally Notification)

Association group\_2:basic set command  
When the output of the ZW30S is changed, On (0xFF) or Off (0x00). The ZW30S will automatically send out a related basic set command. On (0xFF) or Off (0x00) to its associated group.  
Association group\_3:basic set command  
When the output of the ZW30S is changed, On (0xFF) or Off (0x00). The ZW30S will automatically send out a related basic set command. On (0xFF) or Off (0x00) to its associated group.

**Restoring Factory Defaults**

ZW30S is removed from the network and will be restored to the factory setting  
All Configuration Parameters values and Association information will be restored to factory default settings and excluded from the network. Manual Reset: Press and hold lower paddle for 10 seconds, then LED starts blinking, release paddle and within 2 seconds, click lower paddle 5 times Remark: All the settings and data will be permanently deleted. Please use this procedure only when the network primary controller is missing or otherwise inoperable.

**Documents / Resources**

	<p><a href="#">EVALOIGK SmartStart On/Off Switch S2</a> [pdf] User Manual EVALOIGK, SmartStart, On, Off, Switch, S2</p>
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