EVALOGIK®

Smart On/Off Switch

• ZW30S •

- Switch x1
- Wiring x1
- Screws x2
- Faceplate x1

Specifications:

Model: ZW30S
Power: 120VAC, 60Hz
Frequency: 908.42 MHz
Maximum Load: 960W Incandescent, ½ HP Motor or 1800W (15A) Resistive
Temperature Range: 32° F~104° F

Indoor use in dry location

FCC

This device complies with part 15 of the FCC and Industry Canada license-exempt RSS standard(s). Operation is subjected 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.
FCC NOTE: The manufacturer is not responsible for any radio or TV interference caused by unauthorized modifications to this equipment. Such modifications could void the user's authority to operate the equipment.
— 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.
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:
Important note: To comply with the FCC RF exposure compliance requirements, no change to the antenna or the device is permitted. Any change to the antenna or the device could result in the device exceeding the RF exposure requirements and void user's authority to operate the device.

⚠ CAUTION - PLEASE READ!

This device is intended for installation in accordance with the National Electric Code and local regulations in the United States, or the Canadian Electrical Code and local regulations in Canada. If you are unsure or uncomfortable about performing this installation consult a qualified electrician.

⚠ WARNING - SHOCK HAZARD

TURN OFF THE POWER to the circuit for the switch and lighting fixture at the service panel (circuit breaker) prior to installation.
ALL WIRING CONNECTIONS MUST BE MADE WITH THE POWER OFF to avoid personal injury and/or damage to the switch.

⚠ OTHER WARNINGS

Risk of Fire
Risk of Electrical Shock
Risk of Burns

⚠ WARRANTY

Our Products warrants this product to be free from manufacturing defects for a period of one year 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.

Part 1. Installation

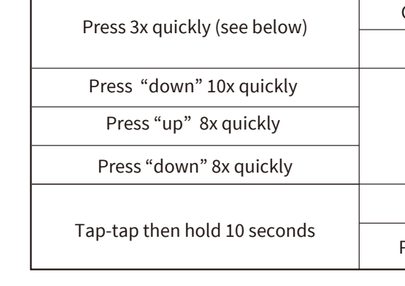
CHANGING THE COLOR OF THE PADDLE(OPTIONAL)
This step is optional. Before you start you may want to change the color of the paddle to match your wallplate or decor.
1. Push side tabs in on one side and then the other to release paddle. Lift the cover up and off.
2. Simply put the new paddle onto the switch by side tabs and snap securely into place.Once this step has been completed please proceed to part 2 wiring.

Scan to view installation guide

⚠ Wiring Instructions - A Few Quick Reminders

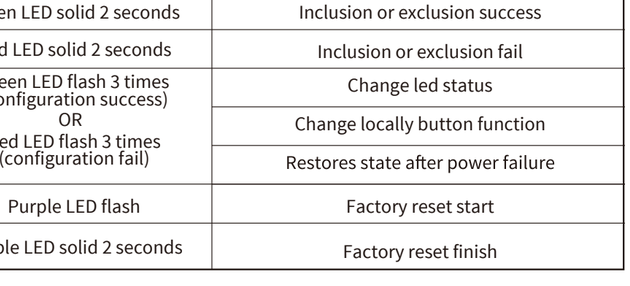
Note before installation

1) The In-wall Smart Switch must not exceed Incandescent **625W** / LED **150W** / Resistive **1250W**.
2) Work with **regular 3-way on/off** for 2 locations control. It can only be connected with regular 3-way on/off switch, **don't use a smart switch or a dimmer switch! Couldn't work with an add-on switch!**
3) The colors of your wires may not match the ones in our diagrams so please make sure you've **identified all wires correctly** based on their source, not color only.
4) Please check your original 3-way wiring circuit in your home before installation, and then **follow the wiring diagram option 1 or 2** in the manual.
5) This switch **requires a Neutral for installation**, or the installation will not succeed.
6) Not recommended for fan.



Line (hot) — black (connected to power)
Neutral — white
Load — black (connected to lighting)
Traveler — red/other
(only in 3-way installations)

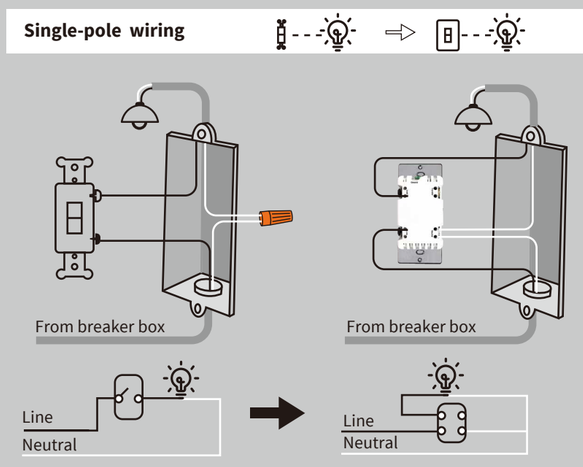
HOW TO INSTALL THE WIRES



1. Unscrew: carefully turn the screw counterclockwise to leave enough space for the wire to be inserted. Do not unscrew the screws completely.
2. Press down: Once loosened, use your finger so it catches the thread.
3. Insert the wire: make sure the wire is completely straight, then insert it into the terminal while holding down the screw. Do not wrap the wire around the screw!
4. Tighten: Turn the screw clockwise to tighten the wire. Make sure the wires are locked!
Note: There are 2 holes for each terminal can be used in the connection.You can use a jump wire or the second hole at the terminal to connect.

• *Please contact us at* **ask@minoston.com** *if you have any questions during installation.*

Single-pole wiring

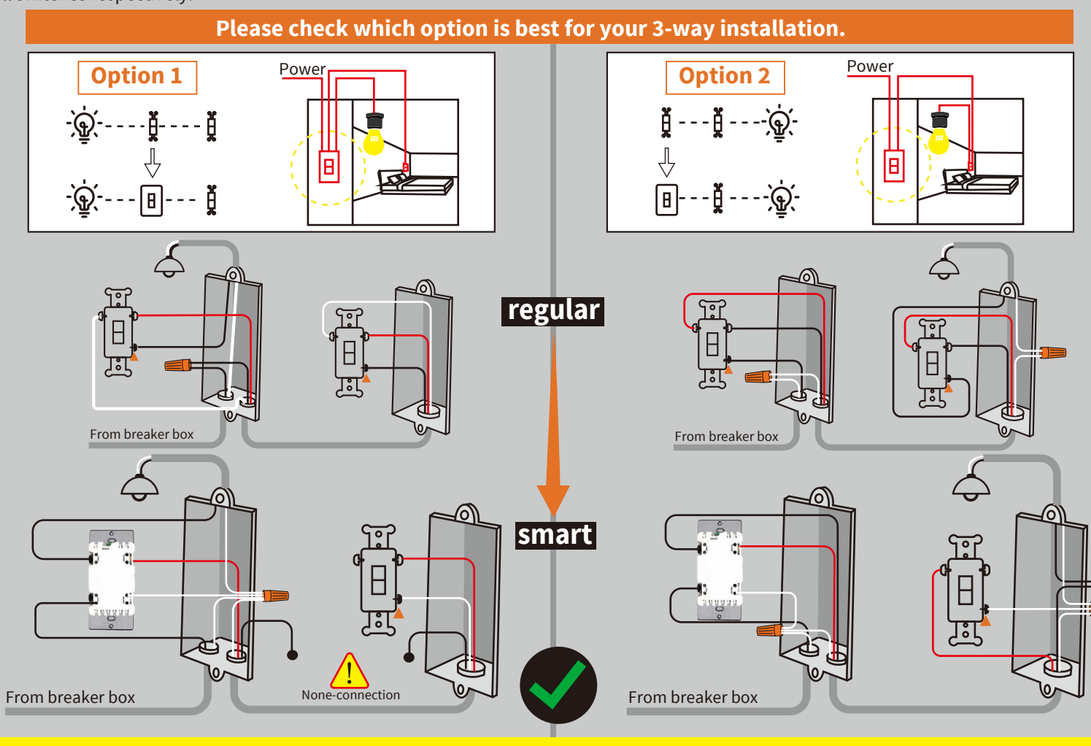


1. **Tool:** Please prepare a flat head screwdriver.
2. **Turn power OFF at circuit breaker or fuse box.**
3. **Remove wallplate.**
4. **Remove the switch mounting screws.**
5. **Disconnect the wires and label them after remove the old switch.**(Please use our sticker)

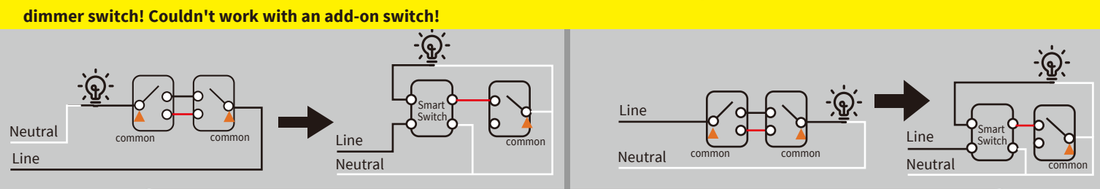
Line | Load | Neutral | Ground | Traveler (Just for 3-way switch)

6. **Carefully remove the switch from the switch box.** (DO NOT disconnect the wires.)
7. **There are up to five screw terminals on the smart switch, these are marked** (Please check **<HOW TO INSTALL THE WIRES>**)
8. **Fix the wallplate with screws after wiring succeed.** (Please use our screws.)
9. **The Ground was excluded from the diagram to simplify the illustration.** Please Make sure all ground wires are connected to all switches respectively.

Please check which option is best for your 3-way installation.



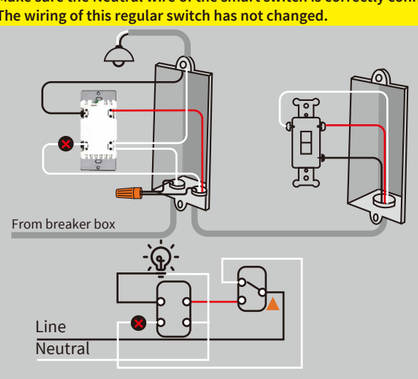
1) **Neutral required**. If the switch box do not have a Neutral, please stop! Connect the **white wire to neutral terminal** (use a white jump wire form the package or the second hole at the terminal to connect.)
2) Insert the Line wire to Line terminal and Load wire to Load terminal. **LOAD and LINE Can't be swapped**, please make sure to identify them correctly!
3) Install the smart switch in the switch box which directly connects to the power **Line, Load and Neutral.**
4) Only work with **regular 3-way on/off** for 2 locations control. It can only be connected with regular 3-way on/off switch, **don't use a smart switch or a dimmer switch! Couldn't work with an add-on switch!**



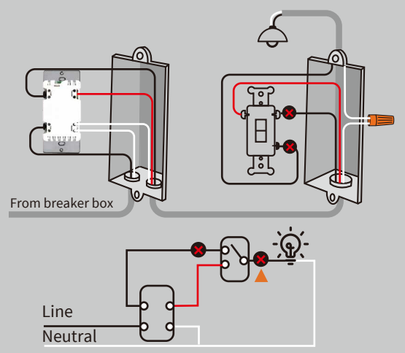
⚠ Please change the wiring of the regular switch to make the 3-way configure works properly.

When the smart switch does not work properly, there may be in error conditions:

1) Make sure the Neutral wire of the smart switch is correctly connected.
2) The wiring of this regular switch has not changed.



The wiring of this regular switch has not changed.



Part 2. Manual Control

Operation	LED Status	Switch
Press down	On (blue)	Power off (default)
Press up	Off (blue)	Power on (default)
Press 2x quickly	/	Send scene 1 / scene 2
Press 3x quickly (see below)	Green LED solid 2 seconds	Inclusion or exclusion success
	Red LED solid 2 seconds	Inclusion or exclusion fail
Press "down" 10x quickly	Green LED flash 3 times (configuration success) OR Red LED flash 3 times (configuration fail)	Change led status
Press "up" 8x quickly		Change locally button function
Press "down" 8x quickly		Restores state after power failure
Tap-tap then hold 10 seconds	Purple LED flash	Factory reset start
	Purple LED solid 2 seconds	Factory reset finish

Part 3. Network Configuration

Adding Device To Z-Wave Network:

1. Follow the instructions for your Z-Wave certified controller to add a device to the Z-Wave network.
2. Once the controller is ready to add your device, **press the "down" button on the swtich 3 times quickly.**
   The blue LED will blink quickly.
   Now, you have complete control to turn your fixture ON/OFF or set dim levels according to groups, scenes, schedules and interactive automation programmed by your controller. If your Z-Wave certified controller features remote access, you can control your fixture from your mobile devices.
   Again: If you have issues with pairing/including, please move the hub as close as possible to the deviceand try again.
   Note: If the Blue LED indicator doesn't light up after pressed the "down" button 3 times, please reset the device: **click the button 2 times quickly then hold for at least 10 seconds.** This operation could be done when manual control is functional--single press can turn on/off the light.

To Remove The Device:

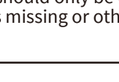
1. Follow the instructions for your Z-Wave certified controller to remove a device from the Z-Wave network.
2. Once the controller is ready to remove your device, press the "down" button on the swtich 3 times quickly.

To Return The Device To Factory Defaults:

Manual: Click the swtich button 2 times quickly then hold for at least 10 seconds.
Host reset: Remove it from the host connection and the device will factory reset.
Note: This should only be used in the event your network's primary controller is missing or otherwise inoperable.

Association Group:

Group 1 supports 1 node ID,
Group 2 Supports maximum of 5 node ID's
Association group_1: Z-Wave Plus Lifeline
Association Group 2: Send Basic Set ON / Off



FEATURES

1. 2 ways of control: Manual & wireless control switch on/off.
2. Support 3-way control with regular/ dummy switch(non-dimming switch)--neutral wire required.
3. Support 2 customized scene functions.
4. Built-in Z-Wave Plus signal repeater /range extender.
5. S2 security protocol + the latest 500 series Z-Wave chip.
6. OTA for firmware updates.
7. Support customized parameter settings.
8. Restores the same status after power failure.

Part 4.Parameter Settings

- **Locally Button function**
  This parameter can access you to set the up button to turn the light on/off, or if you'd like any paddle to change the state of the light.
  (GREEN LED flashes 3 times when the configuration parameter changed.)
  Operation: Quickly press the switch "up" button 8 times(Please note: the switching of each value is in order, a quick press on the"up" button 8 times will switch once. eg: Switching from value 0 to value 2 needs 2 switching.)
  Parameter =1 Size=1
  Value=0 (Default)The up button turn the light on and down button turn lights off.
  Value=1 ----------The up button turn the light off and down button turn lights on.
  Value=2 ----------The up/down button both can changes the state of the light.

- **LED Indicator**
  This parameter can access you to choose the led indicator to be on when the switch(light) is on/off, or LED indicator remains on/off all times.
  (GREEN LED flashes 3 times when the configuration parameter changed.)
  Operation: Quickly press the switch "down" button 10 times(Please note: the switching of each value is in order, a quick press on the "down" button 10 times will switch once. eg: Switching from value 0 to value 3 needs 3 switching.)
  Parameter=2, Size=1, Default =0
  Value=0 (default) LED is On when the switch(light) Off and LED is Off when the switch (light) On.
  Value=1 ----------LED is On when switch(light) On and LED is Off when the switch(light) Off.
  Value=2 ----------LED is always Off.
  Value=3 ----------LED is always On.

- **Auto Turn-Off Timer**
  This parameter can access you to set a timer to make the switch turn off automatically after the switch turned on.The numberentered as value corresponds to number of minutes.
  (GREEN LED flashes 3 times when the configuration parameter changed.)
  Operation: Set up on the hub.
  Parameter=4, Size=4, Default =0(minutes)
  Values: 0 – 65535 (minutes);

- **Auto Turn-On Timer**
  This parameter can access you to set a timer to make the switch turn on automatically after the switch turned off.The numberentered as value corresponds to number of minutes.
  (GREEN LED flashes 3 times when the configuration parameter changed.)
  Operation: Set up on the hub.
  Parameter=6, Size=4, Default =0(minutes)
  Values: 0 – 65535 (minutes);

- **Restores state after power failure**
  This parameter can access you to set the switch to be on/off after power failure.
  Operation: Quickly press the switch "down" button 8 times (Please note: the switching of each value is in order, a quick press on the "down" button 8 times will switch once. eg: Switching from value 0 to value 2 needs 2 switching.
  (GREEN LED flashes 3 times when the configuration parameter changed.)
  Parameter=8, Size=1, Default =2
  Value=0----------The switch is off regardless of the state prior to power failure.
  Value=1----------The switch is on regardless of the state prior to power failure.
  Value=2(default) memory state before power failure
  This switch will be return to state prior to the power failure after power is restored.

- **Association Group:**
  Direct control of other devices within the Z-Wave system network.
  Group 1 supports 1 node ID,
  Group 2 Supports maximum of 5 node ID's
  Association group_1: Z-Wave Plus Lifeline
  Association Group 2: Send Basic Set ON / Off

- **Locally Button function:**
  1: press 1x: turn output ON or OFF
  2: quickly press 2x: send scne1/scene2
  3: quickly press 3x: inclusion or exclusion
  4: quickly press "down"10x : change Parameter 2
  5: quickly press "up" 8x: change Parameter 1
  6: quickly press "down" 8x: change Parameter 8
  7: Factory reset: click Z-Wave button 2 times quickly, and hold for at least 10 seconds.

Generic Device Class:
0x10 - GENERIC_TYPE_SWITCH_BINARY

Specific Device Class:
0x01 - SPECIFIC_TYPE_POWER_SWITCH_BINARY

Command Classes:
0x5E - COMMAND_CLASS_ZWAVEPLUS_INFO
0x25 - COMMAND_CLASS_SWITCH_BINARY
0x85 - COMMAND_CLASS_ASSOCIATION
0x8E - COMMAND_CLASS_MULTI_CHANNEL_ASSOCIATION
0x59 - COMMAND_CLASS_ASSOCIATION_GRP_INFO
0x55 - COMMAND_CLASS_TRANSPORT_SERVICE
0x86 - COMMAND_CLASS_VERSION
0x72 - COMMAND_CLASS_MANUFACTURER_SPECIFIC
0x5A - COMMAND_CLASS_DEVICE_RESET_LOCALLY
0x73 - COMMAND_CLASS_POWERLEVEL
0x70 - COMMAND_CLASS_CONFIGURATION
0x5B- COMMAND_CLASS_CENTRAL_SCENE
0x6C - COMMAND_CLASS_SUPERVISION
0x9F - COMMAND_CLASS_SECURITY_2
0x7A - COMMAND_CLASS_FIRMWARE_UPDATE_MD

⚠ WARRANTY

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We are always here for you: **ask@minoston.com**

Part 5. Troubleshooting

Possible Problem	Possible Cause	Solution
1. Couldn't pair with hub/your hub cannot recognize the device.	The device needs to be resetted before pairing.	Please reset the device according to the manual.
2. The device couldn't trun lights on/off manually.	Wiring error	Please check the wiring diagram on the manual.
3. The smart switch is working and the 3-way switch does not.	3-way Wiring error	Please check the wiring diagram on the manual.