Z-Wave ZW30S Smart On/Off Toggle Switch User Manual

Minoston™

Smart On/Off Toggle Switch Manual

Contents

Smart On/Off Toggle Switch

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 Smart O 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
Ce périphérique a été testé et reconnu conforme aux limites spécifiées dans RSS-210.
Son utilisation est soumise aux deux conditions suivantes :
(1) il ne doit pas provoquer d'interférences gênantes et
(2) il doit tolérer les interférences re.ues, notamment cellessusceptibles d'en perturber le fonctionnement.

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.

SPECIFICATIONS

Model: MS12ZS
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 Control Room 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**

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™ IN DEVICE MAY BE IN A DIFFERENT ROOM THAN THE CONTROLLED APPLIANCE, ALSO AN 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:

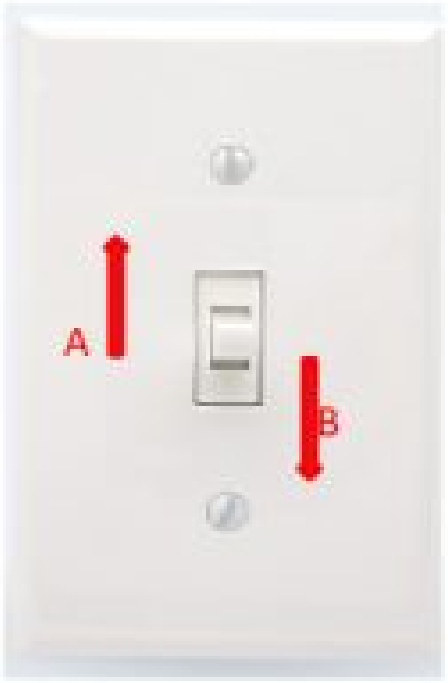
This product can be operated in any Z-Wave network with other Z-Wave Plus™ certified devices from other manufacturers.
All non-battery-operated nodes within the network will act as repeaters regardless of vendor to increase the reliability of the network.
Each module is designed to act as a repeater, 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.
MS12ZS 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 MS12ZS is an on/off power switch.
The Role Type of the MS12ZS is Always On Slave Role Type

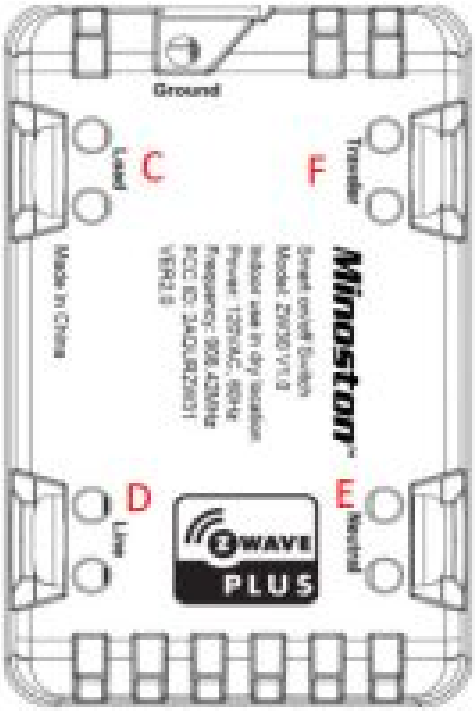
Key Features:

—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

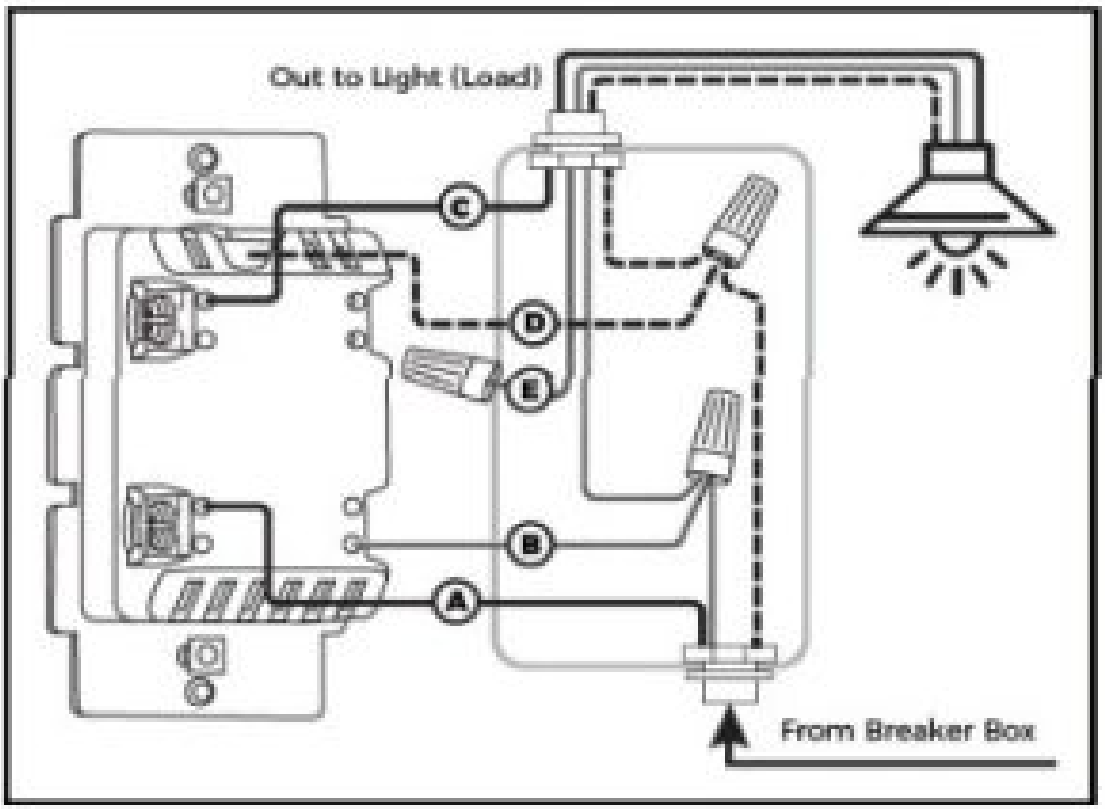
Product Overview:

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)





MS12ZS Installation Wiring Diagram



A. LINE (HOT)-Black connect to power
B. NEUTRAL- White
C. LODE-Black connected to the lighting
D. GROUND-Green/Barer
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.

http://www.qrstuff.com

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

-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 ConfigurationParameterNo: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 Paramter No: 3(0x03)	Size=4 Values:0 (minutes) default; Values: 1 – 65535 (minutes);	
5: Auto Turn-Off Time Paramter No: 5(0x05)	Size=4 Values:0 (minutes) default; Values: 1 – 65535 (minutes);	
8 Restores state after power failure Paramter No: 8(0x08)	Size:1 Byte Value: 00 Value:01 Value:02(default)	Output OFF Output ON. The state before a power outage.
11: Enable or Disable OutPut control Paramter No: 11(0x0B)	Size=1 Value=0 Value=1 Value=2 Default =1	disable local button and External Switch control,enable Z-Wave™ control enable local button and External Switch control,enable Z-Wave™ control disable local button and External Switch control
12: external switch type Paramter No: 12(0x0C)	Size:1 , Value: 0 Value: 01 Value: 02	Default =0 toggle switch(device changes status when switch changesstatus)momentary switch electronic add-on switch
13: Behavior when Output control disabled Paramter No: 13(0x0D)	Size:1 ,Default =0 Value: 01 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). DON't report on/off status or change LED indicator when the upper or lower paddle is pressed and Parameter 11 is set to

14: LED Indicator Color Parameter No: 14(0x0E)	Size:1 ,Default =1 Value: 0 White Value: 01 Blue Value: 02 Green Value: 03 Red	
15: LED Indicator Brightnes Paramt er No: 15(0x0F)	Size:1 ,Default =1Value: 00 Bright (100%Value: 01 Medium (60%)V alue: 02 Low (30%)	
16: Association reports Paramter No: 16(0x10)	Size:1 , Value: 00 Value: 01Defau lt =1	, Z-Wave™ control Binary switch rep ort, Manual control: Basic set report Z-Wave™ control Binary switch rep ort, Manual control: Binary switch r eport

Support for Association Groups
MS12ZS 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 default to associate with the primary controller (Gateway/Hub/Controller) for MS12ZS Status change report, 1. MS12ZS 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 MS12ZS is changed, On (0xFF) or Off (0x00). The MS12ZS 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 MS12ZS is changed, On (0xFF) or Off (0x00). The MS12ZS will automatically send out a related basic set command. On (0xFF) or Off (0x00) to its associated group.

Restoring Factory Defaults

MS12ZS 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

	**Z-Wave ZW30S Smart On/Off Toggle Switch** [pdf] User Manual ZW30S, Smart On Off Toggle Switch