Minostol

Smart On/Off Toggle 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 caus 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 minimum distance 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^M controlled outlet:

600W Incandescent, $\frac{1}{2}$ HP Motor or 600W Resistive

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 $^{T\!M}$ DEVICES TO CONTROL APPLIANCES. OPERATION OF THE Z-Wave M DEVICE MAY BE IN A DIFFERENT

Range: Up to 100 feet line of sight between the Wireless ContrcROOM THAN THE CONTROLLED APPLIANCE, ALSO ANUNINTENTIONAL ACTIVATION and the closest Z-Wave^M receiver module.

MAY OCCUR IF THE WRONG BUTTON ON THE REMOTE IS PRESSED. Z-Wave^M DE MAY OCCUR IF THE WRONG BUTTON ON THE REMOTE IS PRESSED. Z-Wave^{DM} 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





Smart On/Off Toggle Switch

Introduction:

This product can be operated in any Z-Wave network with other Z-Wave Plus^m certified devices from other manufacturers. All non-battery operated nodes within the network will act as repeaters regardless of vendor to increase 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^m device. A security Enabled Z-Wave Plus^m Controller must be used in order to fully utilize the product. The Device Type of the MS12ZS is on/off power switch.

The Role Type of the MS12ZS is Always On Slave Role Type

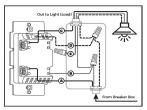
Key Features:

- 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:

- Up Push button
- В. Down Push button
- Load1 (Black)
- D. Lin (Black) - Line in
- Nin (White) Nutral in F.,
- 3-way (RED)

MS12ZS 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

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

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

Function 3: quickly press upper paddle $\,$ 6x to change Status LED Configuration

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

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

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

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 M 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 are sticked to the side of the case, DSK is included in the QR code. $\ensuremath{\mathsf{DSK}}$

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





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,

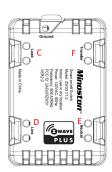
COMMAND_CLASS_POWERLEVEL_V1,

COMMAND CLASS SECURITY 2,

COMMAND_CLASS_SUPERVISION_V1,

COMMAND_CLASS_FIRMWARE_UPDATE_MD_V5





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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 settings of the corresponding functionality.
1: Locally Button function
     Paramter No: 1(0x01)
                             Size:1 Byte
                             Value: 00 (default) Up Button ON, Down Button OFF
                                                   Up Button OFF, Down Button ON
                             Value: 01
                                                    Up Button ON/OFF, Down Button ON/OFF
                             Value: 02
2: Status LED Configuration
     Paramter No: 2(0x02)
                             Size:1 Byte
                             Value: 00(default) Output and the LED are in the different state.
                             Value: 01
                                                  Output and the LED are in the same state.
                             Value: 02
                                                   LED Always OFF
                                                   LED Always ON
                             Value: 03
3: Auto Turn-Off Timer
     Paramter No: 3(0x03),
                             Values:0 (minutes) default;
                             Values: 1 - 65535 (minutes);
5: Auto Turn-Off Timer
     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
                                                      Output OFF.
                             Value: 01
                                                      Output ON.
                             Value: 02 (default) The state before a power outage.
11: Enable or Disable OutPut control
     Paramter No: 11(0x0B),
                            Size=1, Default =1
                             Value=0 disable local button and External Switch control, enable Z-Wave™ control
                                        enable local button and External Switch control, enable Z-Wave ^{\text{M}} control
                                        disable local button and External Switch control
12: external switch type
     Paramter No: 12(0x0C)
                             Size:1 , Default =0
                             Value: 0 toggle switch (device changes status when switch changes status)
                             Value: 01
                                         momentary switch
                             Value: 02
                                         electronic add-on switch
13: Behavior when Output control disabled
     Paramter 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 upper or lower paddle is pressed and Parameter 11 is set to value 0 or 2 (output control disabled).
14: LED Indicator Color
     Paramter No: 14(0x0E)
                             Size:1 , Default =1
                             Value: 0 White
                             Value: 01
                                         Blue
                             Value: 02
                                         Green
                                         Red
                             Value: 03
15: LED Indicator Brightness
                             Size:1 , Default =1
     Paramter No: 15(0x0F)
                             Value: 00
                                         Bright (100%)
                             Value: 01
                                         Medium (60%)
                             Value: 02
                                        Low (30%)
16: Association reports
     Paramter No: 16(0x10)
                             Size:1 ,Default =1
                             Value: 00
                                          Z-Wave™ control: Binary switch report, Manual control: Basic set report
                                          Z\text{-Wave}^{\text{M}} \quad \text{control: Binary switch report, Manual control:} \quad \text{Binary switch report}
                             Value: 01
Support for Association Groups
MS12ZS supports 3 association groups. Group 1 supports 1 node ID,Group 2 and Group 3 Supports 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 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 0ff (0x00) to its associated group.
   Association group_3:basic set command
  When the output of the MS12ZS is changed, On (OxFF) or Off (OxOO). The MS12ZS will automatically send out a related basic set
   command. On (0xFF) or Off (0x00) to its associated group.
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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 setting and data will be permanently deleted.

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