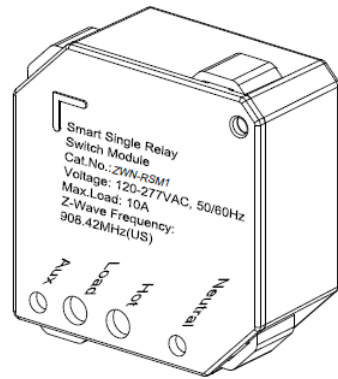


ZWN-RSM1

Smart Single Relay Switch Module



SPECIFICATIONS

Voltage.....120-277VAC, 50/60Hz
 Maximum Load requirement.....10A
 Z-Wave Frequency..... 908.42MHz(US)
 Operating Temperature.....32° F-104° F
 Size.....1.77" x1.65" x0.72"
 Range.....Up to 132 feet line of sight between the Wireless Controller and the closest Z-Wave receiver module.

FEATURES

- Work with existing light switches, required neutral wire
- Slim size module with build in Z-Wave technology and Interoperable with other Z-Wave enabled devices
- On/Off control via Z-Wave controller, manual wall switch
- Acts as a Z-Wave repeater to extend the range
- 3 way wiring compatible

DESCRIPTION

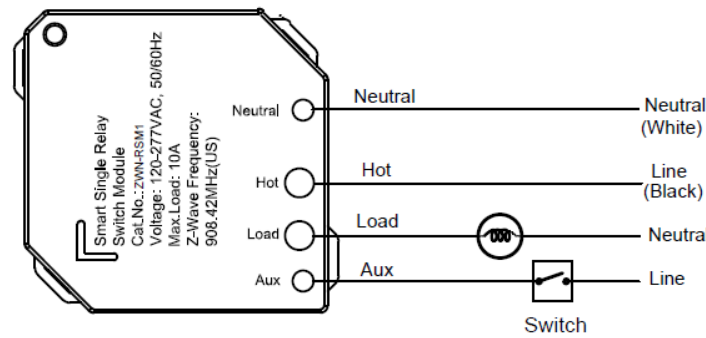
Z-Wave unifies all your home electronics into an integrated wireless network and helps them talk to each other. It can be added to the network, and making your home electronics fully compatible. The ZWN-RSM1 Switch Module is a component of lighting control system, it can't be used separately but should turn an existing switch into a Z-Wave switch. This ZWN-RSM1 module is a Z-Wave enabled device and fully interoperable with other Z-Wave certified device from other manufacturers and/or other applications. In a Z-Wave network, each device is designed to act as a wireless repeater. Once the ZWN-RSM1 module is installed and setup with in your wall, it will retransmit the RF signal from one device to another until the intended device is reached. This ensures that the signal is received by its intended destination by routing the signal around obstacles and radio dead spots.

WARNINGS AND CAUTIONS

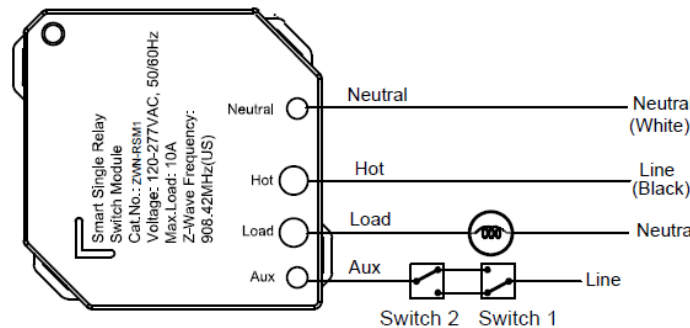
To be installed and/or used in accordance with appropriate electrical codes and regulations. Exercise extreme caution when using Z-Wave devices to control appliances. Operation of the Z-Wave device may be in a different room than the controlled appliance, also an unintentional activation may occur if 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 operation could possibly result in a hazardous condition. Z-Wave enabled devices should never be used to supply power to, or control the On/Off status of medical and/or life support equipment. If you are unsure or uncomfortable about performing the installation, please consult a qualified electrician.

INSTALLATION

Simple Wiring Diagram: Fig1



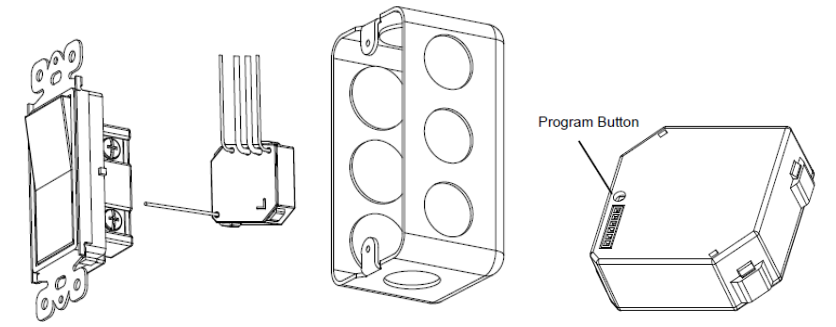
3-way Circuits Wiring Diagram: Fig2



IMPORTANT NOTE ABOUT 3-WAY CIRCUITS

The term "3-way circuit" refers to a circuit with two switches and one load (light) like you find at the top and bottom of a stairway. There are many ways to physically wire a 3-way circuit and it is important to understand how the circuit you wish to upgrade to Z-Wave control is wired. One of the ways , the Aux of ZWN-RSM1 to wire a 3way switch 2(Fig2), then wire to 3way switch 1 ,and then wire to the line. Although very common and by no means a standard, it is the easiest to convert to Z-Wave control. With this type of circuit, ZWN-RSM1 is set behind the switch 2. Do not change the wiring of switch 1. Please note that both switch 1 and switch 2 must be 3-way switch.

Please consult an electrician if you have trouble identifying the type of wiring circuit you wish to convert or if you do not feel confident in your ability to convert the circuit to Z-Wave control.



1. **WARNING :** To avoid fire, shock, or death. Turn off power at circuit breaker or fuse and test that power is off before wiring.
2. Remove wall plate and switch mounting screws.
3. Carefully remove the switch from the switch box.
4. Disconnect the wiring from the existing switch.
5. Connect the ZWN-RSM1 module as shown in the wiring diagram
6. Check connections to be sure they are tight and no bare conductors are exposed
7. Insert the ZWN-RSM1 module into the box first, then wire the existing switch.
8. Attach the wall plate.
9. Restore power at the circuit breaker and test the system.

TIPS FOR ARRANGING THE ANTENNA:

- ⌘ Locate the antenna as far from metal elements as possible to prevent interferences.
- ⌘ Metal surfaces in the direct vicinity of the antenna may impair signal reception.
- ⌘ Do not cut or shorten the antenna , its length is perfectly matched.

OPERATIONS

Manual Control

1. Manually turn ON the ZWN-RSM1 Module: Flick1 times of the **AUX** switch
The load of the module will turn ON.
2. Manually turn OFF the ZWN-RSM1 Module: Flick1 times of the **AUX** switch
The load of the Module will turn OFF.
3. When the controller is in add mode, and once program button is pressed and release, or Flick 3 times of the connected switch in 1.5S will also set the ZWN-RSM1 module enter into learn mode . and then the controller will verify the add.
4. When the controller is in remove mode, and once program button is pressed and release, or Flick 3 times of the connected switch in 1.5S will also set the ZWN-RSM1 module enter into learn mode . and then the controller will verify the remove.
5. Once program button is pressed and hold for 10 second, the device will send a device reset locally notification to controller. Then clear all of information for the network, and restore factory defaults, and reset the module. Use this procedure only in the event that the network primary controller is missing or otherwise inoperable.

Remote Control

When the ZWN-RSM1 module is included in a Z-Wave network, it can be turned on/off remotely by a portable controller or a Z-Wave enabled gateway controller.

Please Note: After a power failure, the ZWN-RSM1 switch module returned to the OFF state.

ADVANCED OPERATION

The following Advanced Operation parameters require that you have an advanced controller. However, basic remotes do not have this capability.

All-ON and All-OFF

Depending upon your primary controller, the ZWN-RSM1 module can be set to respond to ALL-ON and ALL-OFF commands in up to four different ways. Some controllers may not be able to change the response from its default setting. Please refer to your controller's instructions for information on whether or not it supports the configuration function and if so, how to change this setting.

The four possible responses are:

- It will respond to ALL-ON and the ALL-OFF command (default).
- It will not respond to ALL-ON or ALL-OFF commands.
- It will respond to the ALL-OFF command but will not respond to the ALL-ON command.
- It will respond to the ALL-ON command but will not respond to the ALL-OFF command.

Association

Grouping ID	Max number of nodes	Description
1	1	Lifeline: Send device reset locally notification
2	5	StatusReport: Send basic report

Restoring Factory Defaults

All information of network can all be restored to their factory default settings by using your primary controller or manual reset control to reset the device.

WIRELESS RANGE

This device complies with the Z-Wave standard of open-air, line of sight transmission distances of 132 feet. Actual performance in a home depends on the numbers of walls between the remote controller and the destination device, the type of construction and the number of Z-Wave enabled devices installed in the control network.

Things to consider regarding RF range:

- ⌘ Each wall or obstacle (i.e.:refrigerator, big screen TV, etc.)between the remote or a Z-Wave device and the destination device will reduce the maximum range by approximately 25-30%.

- Brick, tile or concrete walls block more of the RF signal than walls made of wooden studs and plasterboard (drywall).
- Wall mounted Z-Wave devices installed in metal junction boxes will suffer a significant loss of range (approximately 20%) since the metal box blocks a large part of the RF signal.

Effects of Home Construction on Wireless Range Between Z-Wave Enabled Devices.

Note: The distances shown in the table below are typical examples. Actual performance in your home will vary.

From the Remote (or repeating Z-Wave module) to destination device:					
Type of Construction	Wood Frame with Drywall		Brick, Tile or Concrete		
	Plastic J-Boxes*	Metal J-Boxes	Plastic J-Boxes*	Metal J-Boxes	
Number of Walls or Obstacles	0	112'	80'	112'	80'
	1	85'	56'	80'	48'
	2	65'	39'	62'	29'
	3	44'	27'	41'	17'

WARRANTY INFORMATION

Our company warranties its products to be free of defects in materials and workmanship for a period of two (2) years. There are no obligations or out of, or in connection with, the use or performance of this product or other indirect damages with respect to loss of property, revenue, or profit, or cost of removal, installation or reinstallation. liabilities on the part of our company for consequential damages arising

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