# Z - Wave
# IN-WALL ON/OFF MODULE

Thank you for purchasing this Z-Wave™ In-Wall On/Off Module from Monoprice!

This module is a wireless Z-Wave enabled device and is fully compatible with any Z-Wave enabled network. Z-Wave is an interoperable, two-way RF mesh networking technology used for home automation and security. Every AC powered Z-Wave device acts as a signal repeater, so multiple devices result in more possible transmission routes, which helps eliminate RF "dead spots" in the network. Any Z-Wave enabled device displaying the Z-Wave logo can be used with Z-Wave devices from other manufacturers.

This module allows you to turn an appliance on or off wirelessly, using the Z-Wave controller. You can also manually turn the appliance on/off using a wall switch wired to the module. As an AC powered Z-Wave device, it will act as a Z-Wave repeater (supporting FLiRS).

USER's MANUAL

# PACKAGE CONTENTS

After receiving the product, please inventory the contents to ensure you have all the proper parts, as listed below. If anything is missing or damaged, please contact Monoprice Customer Service for a replacement.

1x Z-Wave In-Wall On/Off Module

1x User's Manual

# SPECIFICATIONS

**Protocol:** Z-Wave

**Operating Frequency:** 908.42 MHz

**Operating Range:** up to 100 feet line of sight

**Operating Temperature:** +5 ~ +140°F (-15 ~ +60°C)

**Operating Voltage:** 100 ~ 240 VAC, 50/60Hz

**Maximum Resistive Load:** 800W for 110VAC, 1300W for 220VAC

# INSTALLATION

*Note: If you are installing a complete Z-Wave system for the first time, please refer to the installation guide of your Z-Wave Interface Controller before installing this module.*

***Warning! Installation of this module requires connecting to household AC wiring. Ensure that the power is off before doing any electrical work. If you are not 100% comfortable working with AC wiring, hire a professional electrician to perform the installation.***

Use one of the following wiring diagrams to install the module in a system with one wall switch without indicator light, two wall switches, or one wall switch with an indicator light. Note that the module can fit into most electric boxes. For best results, ensure the antenna is located away from metal and as close to the wall as possible.
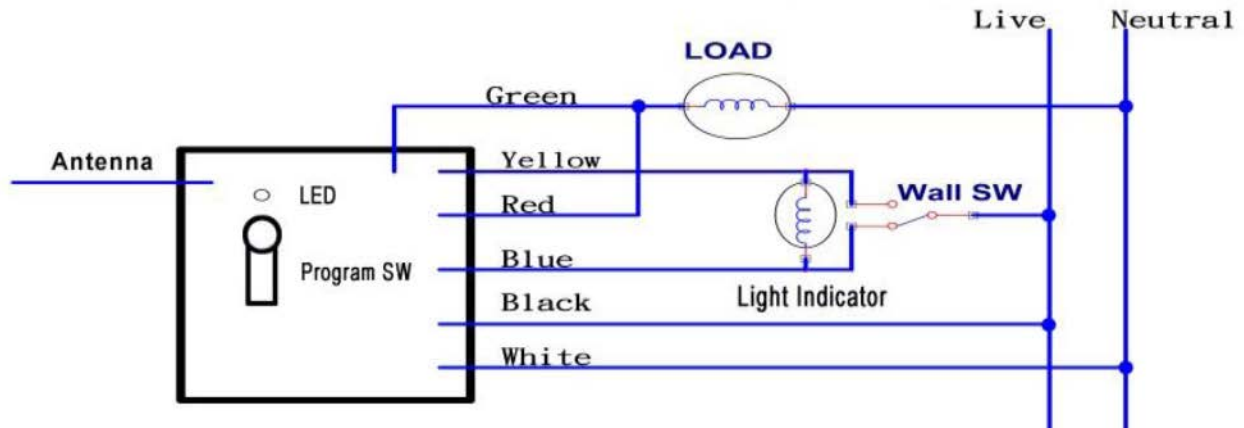
**To Control a Light Using 1 Wall Switch**
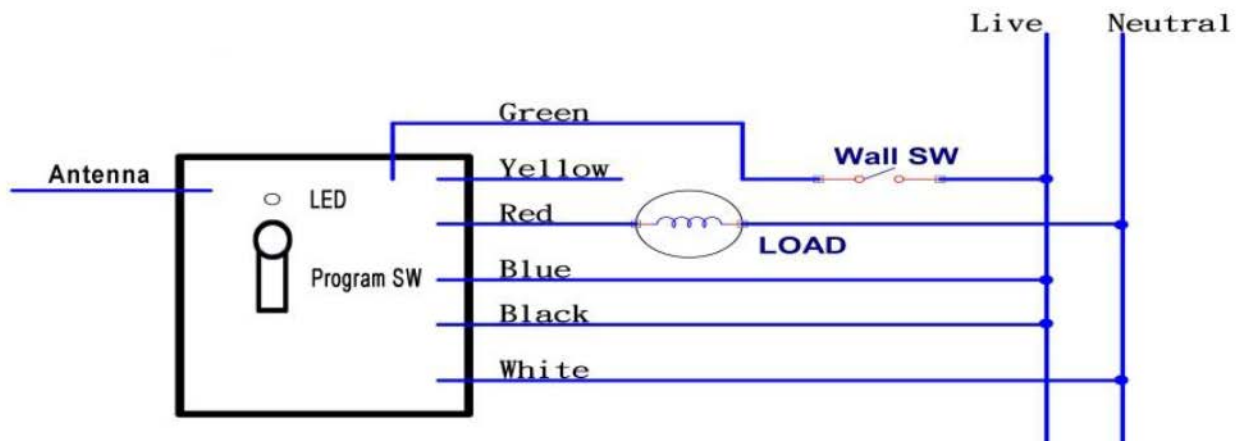


**To Control a Light Using 2 Wall Switches**
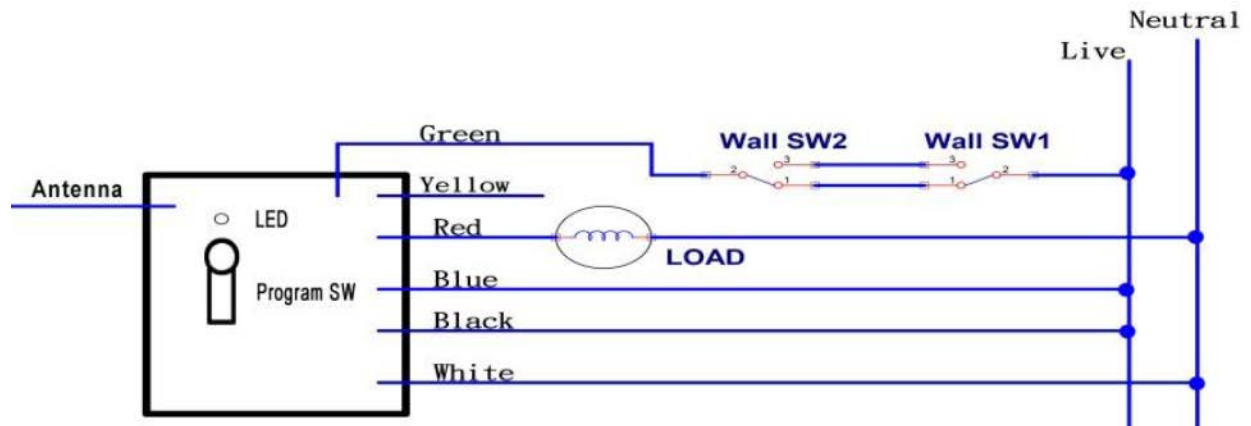
**To Control a Light Using 1 Wall Switch Equipped With an Indicator Light**



# INCLUSION

*Now that the module is in its final location, it can be "included" into the network. Bring your Z-Wave Interface Controller to the sensor's location. The distance between the controller and the module should be less than 1 meter during the "inclusion" process.*

1. Following the instructions that came with your Z-Wave Controller, put the controller into "include" mode.

2. When prompted, turn the wall switch on and off four times or press the Program Switch on the module four times. This completes the "inclusion" process.

# EXCLUSION

*If you wish to remove the module from your network, you will need to "exclude" it.*

1. Following the instructions that came with your Z-Wave Controller, put the controller into "exclude" mode.

2. When prompted, turn the wall switch on and off four times or press the Program Switch on the module four times. This completes the "exclusion" process.

# PROGRAMMING

By default, the module is configured to be installed into a system with a single wall switch with a light indicator. If you are installing it into a single switch or dual switch system with no light indicators, you will need to program the module. This can be done using the Z-Wave controller or physically, using the Program Switch on the module.

### Programming Using the Z-Wave Controller

1. Following the instructions that came with your Z-Wave controller, put it into Configuration mode.

2. Select **Parameter Number 01, Size 01**.

3. Set the **Parameter Value** to **01** or **02**, depending on the type of wiring situation you will be using:

    **01** for a Single Wall Switch without Indicator Light or for Two Wall Switches

    **02** for a Single Wall Switch with Indicator Light

### Programming Using the Program Switch

1. Press and hold the Program Switch on the module for about 3 seconds.

2. If the LED blinks **once**, the module is configured for a Single Wall Switch without Indicator Light or for Two Wall Switches.

3. If the LED blinks **twice**, the module is configured for a Single Wall Switch with Indicator Light.

# RESET TO DEFAULT

To reset the module to the factory default settings, perform the following steps:

1. Ensure that the wall switch is off.

2. Press and hold the Program Switch. While holding the switch, turn on the wall switch.

3. The LED on the module will begin flashing, indicating that it is no longer included in a Z-Wave network.

# OPERATION

You can turn the appliance connected to this module on or off manually, using the wall switch(es), or wirelessly using the Z-Wave controller. Use the following codes for wireless operation:

**ON**:　Binary Switch Set **0xFF**

**OFF**:　Binary Switch Set **0x00**

# Z-WAVE COMMAND CLASS

This module supports the following Z-Wave commands:

COMMAND_CLASS_ASSOCIATION

COMMAND_CLASS_CONFIGURATION

COMMAND_CLASS_MANUFACTURER_SPECIFIC

COMMAND_CLASS_SWITCH_ALL

COMMAND_CLASS_SWITCH_BINARY mapping

COMMAND_CLASS_BASIC

COMMAND_CLASS_VERSION

# FCC STATEMENT

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 instruction, 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 and correct the interference by one of the following measures: Reorient or relocate the receiving antenna.

Increase the separation between the equipment and receiver. Connect the equipment into and 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 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.

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.