

Federal Communications Commission Statement

This equipment has follows 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 undersired 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.

Limited Warranty

Avadesign Guarantees that every In-Wall Switch module is free from physical defects in material and workmanship under normal use for one year from the date of purchase. If the product proves defective during this one-year warranty period, Avadesign will replace it free of charge. Avadesign does not issue any refunds. This warranty is extended to the original end user purchase only and is not transferable. This warranty does not apply to : (1) damage to units caused by accident, dropping or abuse in handling, or any negligent use; (2) units which have been subject to unauthorized repair, taken apart, or otherwise modified; (3) units not used in accordance with instruction; (4) damages exceeding the cost of the product; (5) transit damage, initial installation costs, removal cost, or reinstallation cost.

For information on additional devices, please visit us at www.avadesign.com.tw



Installation & Operation Manual

AZL7434IN
AZL7434MY
AZL7434EU
AZL7434RU
AZL7434US
AZL7434IL
AZL7434KR
AZL7434HK
AZL7434JP
AZL7434BR

In-Wall Switch, 1 Relay
(Screw Terminal)

AZL7434	V1	1040520	6B1Z-74009
---------	----	---------	------------

Introduction

Thanks for choosing the Avadesign's In-Wall Switch module of the home automation device. This module is a Z-Wave™ enabled device (interoperable, two-way RF mesh networking technology) and is fully compatible with any Z-Wave™ enabled network and its' security framework. Every mains powered Z-Wave enabled device acts as a signal repeater and multiple devices result in more possible transmission routes which helps eliminate "RF dead-spots".

Z-Wave™ enabled devices displaying the Z-Wave™ logo can also be used with it regardless of the manufacturer, and ours can also be used in other manufacturer's Z-Wave™ enabled networks. With special design, this module can fit into most of electronic box in the market. This module will send On/Off signal to the appliance that attached to this module by receiving Z-Wave™ signal from controller. It also can control two appliances independently. When the device is secure included into Z-Wave network, above communication will be encrypted.

Product Description and Specification

Specification:	Package Content
Protocol: Z-Wave™ (ZM5101) Frequency Range: 865.22MHz (AZL7434IN-5) 868.10MHz (AZL7434MY-5) 868.42MHz (AZL7434EU-5) 869.00MHz (AZL7434RU-5) 908.42MHz (AZL7434US-5) 916.00MHz (AZL7434IL-5) 919-923MHz (AZL7434KR-5) 919.80MHz (AZL7434HK-5) 922-926MHz (AZL7434JP-5) 921.42MHz (AZL7434BR-5) Operating Range: Up to 100 feet line of sight Operating Temp.: -15°C~ 60°C (5°F~140°F) Operating Voltage: 100VAC~240VAC Max Load: NO: 10A/1200W @ 120VAC 7A/1540W @ 220VAC NC: 5A/600W @ 120VAC 5A/1100W @ 220VAC	1pc AZL7434 In-Wall Switch, 1 Relay (Screw Terminal) 1pc Installation & Operation Manual

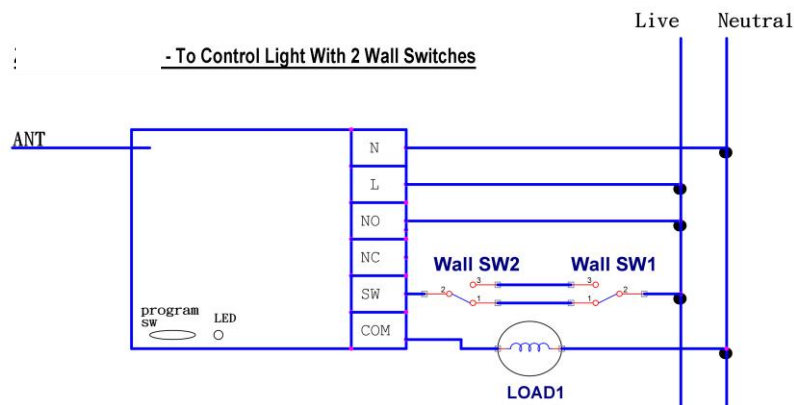
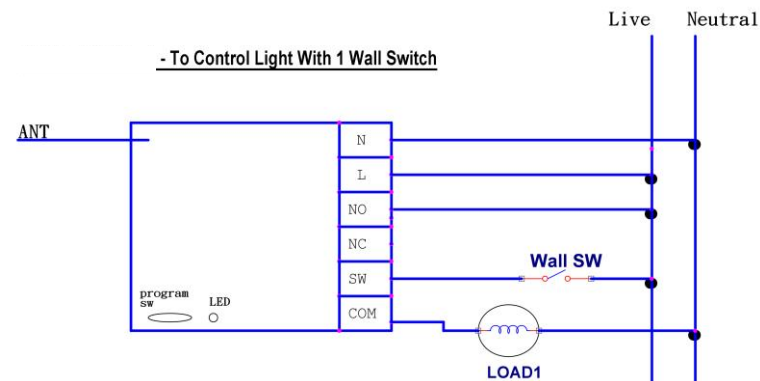
Z-Wave™ Command Classes:

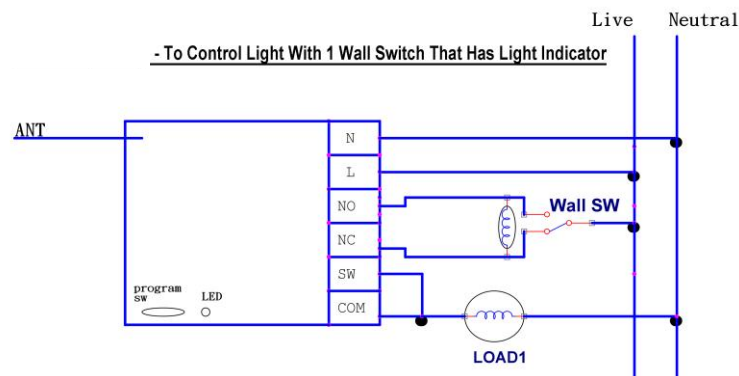
COMMAND_CLASS_ASSOCIATION_GRP_INFO
 COMMAND_CLASS_ASSOCIATION_V2
 COMMAND_CLASS_CONFIGURATION
 COMMAND_CLASS_DEVICE_RESET_LOCALLY
 COMMAND_CLASS_FIRMWARE_UPDATE_MD_V2
 COMMAND_CLASS_MANUFACTURER_SPECIFIC_V2
 COMMAND_CLASS_POWER_LEVEL
 COMMAND_CLASS_SECURITY
 COMMAND_CLASS_SWITCH_ALL
 COMMAND_CLASS_SWITCH_BINARY (mapping COMMAND_CLASS_BASIC)
 COMMAND_CLASS_VERSION_V2
 COMMAND_CLASS_ZWAVEPLUS_INFO_V2

Installation

Notice: If you are installing the entire Z-Wave™ system for the first time, please refer to the installation guide of Z-Wave™ Interface Controller before installing A ZL7434 In-Wall Switch Module.

- Following the wiring diagram to install AZL7434 according to your varied requirements.
Note: Place antenna toward the surface and away from metal to get better signal.





LED Status after Power On:

Not Included: FLASH

Included : OFF

2. For **"Inclusion" & "Auto Inclusion"** in (adding to) a network: Put the Z-Wave™ Interface Controller into "inclusion" mode, and following its instruction to add the AZL7434 to your controller. To get in the "inclusion" mode, the distance between module and controller is suggested to be in one meter. Press 3 times program switch within 2 seconds or turn on the wall switch 3 times within 2 seconds (or press toggle switch 3 times) to be included.

For **"Exclusion"** from (removing from) a network: Put the Z-Wave™ Interface Controller into "exclusion" mode, and following its instruction to delete the AZL7434 from your controller. Press 3 times program switch within 2 seconds or turn on the wall switch 3 times within 2 seconds (or press toggle switch 3 times) to be excluded.

3. For **"Association"**: Use Association to set up the reporting node after triggering. Put the Z-Wave™ Interface Controller into "association", and following its instruction to associate the AZL7434 with other devices. Support grouping identifier=1. Support one association group (5 nodes). "Association" is used for other grouping devices chain reaction.
4. For **"Controller's Switching"**: Use Command Class to change the status of lighting.
 - * Basic Set (0xFF): Lighting On
 - * Basic Set (0x00): Lighting Off
5. For **"Lighting Switching Report"**: AZL7434 will report the lighting status automatically for manual switching..
 - * Switch On: Switch Binary Report (0xFF)
 - * Switch Off: Switch Binary Report (0x00)

6. For **"Configuration Set"** : Two difference ways to program 3 different wiring situation by following:
 - a-1.) Program by Z-Wave™ Interface Controller _ Configuration:
 - Parameter Number= 1, Size= 1
 - Configuration Value:
 - "1" - To Control Light with 1 Wall Switch & to Control Light With 2 Wall Switches.
 - "2" - To Control Light with 1 Wall Switch That Has Light Indicator (factory default).
 - a-2.) If you chose configuration value "1"-control light with 1 or 2 wall switches, then you have also set below:
 - Parameter Number= 2, Size= 1
 - Configuration Value:
 - "1" – With common on/off type switch button used(factory default).
 - "2" – With momentary type switch button used.
 - b.) Program by Program SW:
 - Press and hold Program SW 3 seconds, LED will flash one time for setting up the type of "To Control Light With 1 Wall Switch" & "To Control Light With 2 Wall Switches".
 - Release the Program SW, press and hold Program SW 3 seconds again then LED will flash 2 times for setting up the type "To Control Light with 1 Wall Switch That Has Light Indicator."
7. **Factory Default Reset:** Power off first, press Program Switch and power on, AZL7434 will send the "Device Reset Locally Notification" command and reset to the factory default. (Remark: This is to be used only in the case of primary controller being inoperable or otherwise unavailable.)
8. Support OTA Firmware update from controller. Please refer to your controller manual. We recommend to exclusive the device & include again before use the device.
9. Support AES Function. Security enabled_Z-Wave controller must be used to fully utilize the product.
10. All the rest commands depend on Z-Wave standard.

Operation

Turn on or turn off the appliances that attached to AZL7434 by Z-Wave™ Interface Controller, or manually turn on/off the light switch.