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 interferene 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

Vision 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, Vision will replace it free of charge. Vision 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 addional devices, plesae visit us at www.visionsecurity.com.tw

ZL 7435-8	V0	1130815	

VISION®

Installation & Operation Manual

ZL7435IN-8
ZL7435MY-8
ZL7435EU-8
ZL7435RU-8
ZL7435US-8
ZL7435USLR-8
ZL7435IL-8
ZL7435KR-8
ZL7435HK-8
ZL7435JP-8
ZL7435BR-8

In-Wall Switch, 2 Relays
(Screw Terminal)

www.visionsecurity.com.tw

Introduction

Thanks for choosing the Vision'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 it's 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® Frequency Range: 865.22MHz (ZL7435IN-8) 868.10MHz (ZL7435MY-8) 868.42MHz (ZL7435EU-8) 869.00MHz (ZL7435RU-8) 908.42MHz (ZL7435US-8) 912.00MHz (ZL7435USLR-8) 916.00MHz (ZL7435IL-8) 919~923MHz (ZL7435KR-8) 919.80MHz (ZL7435HK-8) 922~926MHz (ZL7435JP-8) 921.42MHz (ZL7435BR-8) Operating Range: Up to 100 feet line of sight Operating Temp.: -15°C~ 60°C (5°F~140°F) Operating Voltage: 90VAC~240VAC Resistive Load: 550W for 110VAC 1100W for 220VAC	1pc ZL 7435-8 In-Wall Switch, 2 Relays (Screw Terminal) 1pc Installation & Operation Manual

Operation

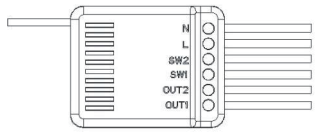
Turn on or turn off two individual appliances that attached to ZL7435 by Z-Wave® Interface Controller

Installation

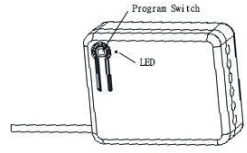
Notice: If you are installing the entire Z-Wave® system for the first time, please refer to the installation guide of Z-Wave® Interface Controller before installing ZL7435 In-Wall Switch Module.

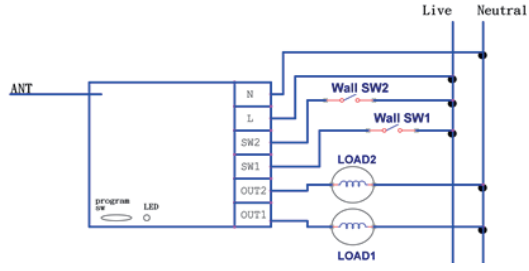
Following the wiring diagram to install ZL7435.
Note: Place antenna toward the surface and away from metal to get better signal.

***Front Side:**



***Back Side:**





LED Status after Power On:
- Excluded:: red LED blink 5 times
- Included: : red LED blink once & send Indicator Report.

1. For “Learning SW1/SW2 neon light mode”: Long-pressed the Learn SW button for 5~10 seconds and released, then：
red LED blinks 3 times means go into SW1 neon light learning mode.
red LED blinks 6 times means go into SW2 neon light learning mode.
(While power ON or get into neon light learning mode, will switch to SW1 neon light learning mode first and next time switch to SW2 neon light learning mode, cycle in sequence.)
● SW1 learning: while SW1 switch’s neon light is ON, press the Learn SW once for Controller learning (red LED flash once). Turn SW1 switch’s neon light to OFF and press the Learn SW once for Controller learning(SW1 learning succeed & red LED will flash twice; if SW1 learning failed, red LED will flash 10 times quickly and exit the learning mode.)
● SW2 learning: while SW2 switch’s neon light is ON, press the Learn SW once for Controller learning (red LED flash 3 times). Turn SW2 switch’s neon light to OFF and press the Learn SW once for Controller learning(SW2 learning succeed & red LED will flash 4 times; if SW1 learning failed, red LED will flash 10 times quickly and exit the learning mode)

2. For **“Inclusion”** in (adding to) a network: Put the Z-Wave® Interface Controller into “inclusion” mode, and following its instruction to add the ZL 7435 to your controller. Press learn SW once or turn on/off the wall switch 6 times within 3 seconds to be included.

[Adding device via SmartStart]
SmartStart simplifies the installation and setup process by having a user scan the sensor’s SmartStart QR code via smartphone. Please refer to the inclusion controller’s manual for activating SmartStart. When a sensor is powered and not included, it will go into SmartStart inclusion mode. While in this mode, the sensor can be added to a Z-Wave controller that supports SmartStart.

3. For **“Exclusion”** from (removing from) a network: Put the Z-Wave® Interface Controller into “exclusion” mode, and following its instruction to delete the ZL 7435 from your controller. Press learn SW once or turn on/off the wall switch 6 times within 3 seconds to be excluded.

Press the program switch, the LED will flash 5 times which means the sensor has not been “included” yet or flash once which means the sensor has been “included” already.

4. Association:
* Support one group with 5 nodes
* Group 1 = Multi Channel Command, Reset Locally, Indicator

* All triggering reports will be sent to the associated nodes
* “Association” is used for setting report address after the device is triggered.
* The Group will support 1*node, after activating the LR (Long Range) function.

5. For “Memory socket output status”: It can be switched whether to need to remember the output status of sockets 1 and 2, so that it can return to the previous/original status when starting up.

	Byte	Value
Parameter 1	1	0x00 = Memory the socket output status function-Off 0xFF = Memory the socket output status function-ON (Default)

6. For “SWITCH report resending times” while device switch trigger reporting signal loss.

	Byte	Value
Parameter 2	1	0~5 (default: 0) This is for Switch Binary Report command

7. For “Synchronization with switch’s neon lights: It can be switched whether Relay Light output need to be synchronized with the neon light switch
If synchronized, manually switch the neon light switch, neon light ON-->Relay Light OFF

	Byte	Value
Parameter 3	1	0x00 = Synchronization-Off 0xFF = Synchronization-ON (Default)

8. For “SW1/SW2’s Control”: Press SW1/SW2 to control 1st/2nd Relay’s On & Off.

	Byte	Value
ON	Binary Switch Set(0xFF)	Basic Set On
OFF	Binary Switch Set(0x00)	Basic Set Off

For relay 1 or 2: Please use Multi Channel CMD ENCAP V4 command class to control.

9. Factory Default Reset: Power off first, press Program Switch & hold over 7 seconds then release, ZL7435 will send the “Device Reset Locally” command to controller and reset to the factory default. (Remark: This is to be used only in the case of primary controller being inoperable or otherwise unavailable.)

10. A Security Enabled Z-Wave Controller must be used to fully utilize the product.

11. Support Repeater for routing Function.

12. Support AES Command Class Security Function.

13. Support Explorer Frame Function.

14. Support OTA Firmware update from controller. Please refer to your controller manual. We recommend to exclusive the device & include again before use the device.

15. All the rest commands depend on Z-Wave standard.

Command Class

COMMAND CLASS NAME	VERSION	REQUIRED SECURITY CLASS
ZWAVEPLUS_INFO	2	None
APPLICATION_STATUS	1	None
ASSOCIATION	2	S2
ASSOCIATION GROUP INFO	3	S2
CONFIGURATION	4	S2
DEVICE RESET LOCALLY	1	S2
FIRMWARE UPDATE MD	5	S2
SWITCH BINARY	2	S2
INDICATOR	3	S2
MANUFACTURER SPECIFIC	2	S2
MULTI_CHANNEL	4	S2
MULTI_CHANNEL_ASSOCIATION	3	S2
POWERLEVEL	1	S2
SECURITY	2	None
SUPERVISION	1	None
TRANSPORT_SERVICE	2	None
VERSION	3	S2