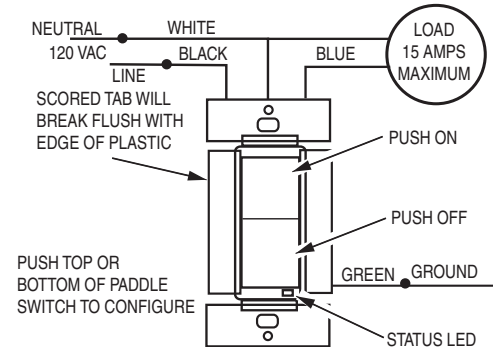


Shown with supplied decorative trim plate

WS15Z-1 AND THE LOAD MUST SHARE THE SAME PROPRIETARY NEUTRAL



NOTE: This module must be "included in the Network" **only where it will be permanently installed.** The proper operation of this node in the mesh network is dependent on it knowing its location with respect to other nodes. You cannot "test bench" configure this module.

WS15Z-1 WALL MOUNTED SWITCH

Linear's family of Z-Wave certified wireless lighting controls (switches, dimmers, outlets and plug-in modules) brings a new level of intelligent wireless capability to commercial and residential environments.

The Z-Wave wireless protocol is an international wireless standard for remote home automation, security and other applications. Embedded in each device, the Z-Wave smart chip enables two-way RF communication among hundreds of Z-Wave enabled devices, allowing products and services from multiple manufacturers to work seamlessly.

Linear Z-Wave products are easy to install, and allow dealers to create an integrated wireless network with nearly limitless expansion and interoperability with security and health monitoring systems, energy management, home entertainment, appliances, and more.

DANGER! SHOCK HAZARD. Read and understand these instructions before installing. This device is intended for installation in accordance with the National Electric code and local regulations in the United States, or the Canadian Electrical Code and local regulations in Canada. It is recommended that a qualified electrician perform this installation. Make sure the load controlled by the switch does not exceed 1800 watts. For indoor use only. Retain instructions for future use.

INSTALLATION

Wire this Switch in place of a current wall switch according to the diagram above. When used, WT00Z-1's are required to be **wired to the same line (or neutral)** which is also wired to the master unit as well as the load being controlled, and not wired to any other neutral. If multiple neutrals are tied together in one box, separate the neutrals to preserve the integrity of the WS15Z-1 circuit. **Caution!** Do not wire unit "live" (with power on the circuit) and do not allow the yellow wire to contact line voltage, neutral or ground or you will damage the device. Refer to your Controller operating instructions to add this module under the command of the Wireless Controller.

INCLUDING/EXCLUDING WS15Z-1 TO THE NETWORK

STEP 1. Prepare the Controller to include a unit to the network by adding it to a group (method of adding a node to the network). Refer to controller instructions.

STEP 2. The WS15Z-1 must be in its permanently installed location.

- **To add a node:** NWI: Tap the button once. This can be done upon power-up of the node to be included, or once the controller is prepared to add all nodes to the network. Classic inclusion: Tap the button twice
 - **To remove a node:** Tap the button twice
- STEP 3.** You should see an indication on your Controller that the "device was included" in the network.

NOTE: If you have trouble adding the WS15Z-1 to a group it may be that the Home ID and Node ID were not cleared from it after testing. You must first "RESET UNIT" with your controller to remove it from the network.

Although adding it to a group includes it in the network, removing it from a group does not remove it from the network. If removed from a group, it functions as a repeater (only). "RESET UNIT" removes it completely from the network.

BASIC OPERATION

(Local Control)

The switch paddle on the WS15Z-1 allows the user to:

- Turn the attached load on or off.
- Tapping top of switch turns the load attached ON.
- Tapping bottom of switch turns the load attached OFF.
- Pressing and holding switch does not effect the load attached to the WS15Z-1, but will allow dimming and brightening of Z-Wave dimmers if associated (see below for details)

LED Indication

The LED on the WS15Z-1 will turn ON when the load attached is OFF, to act as a night light. However, the LED can be user configured to turn ON, when the load attached is ON, if so desired.

Remote Control

The WS15Z-1 will respond to BASIC and BINARY commands that are part of the Z-Wave system. Refer to your controller's instructions as to whether your controller can transmit those commands.

Internal Circuit Protection

The WS15Z-1 internal circuitry is protected by an internal fuse. This internal fuse is factory serviceable only. Check your home circuit breakers before concluding that the product must be returned to manufacturer for repair at a nominal charge.

ADVANCED OPERATION

All On/All Off

The WS15Z-1 supports the ALL ON/ALL OFF commands.

The WS15Z-1 can be set to respond to ALL ON and ALL OFF commands four different ways.

Refer to your controller for information on how to set the WS15Z-1 to operate in the manner you desire. Some controllers may be only able to set certain settings of ALL ON/ALL OFF response.

The four different ways the WS15Z-1 can be setup to respond to ALL ON and ALL OFF commands are:

1. WS15Z-1 will not respond to ALL ON or the ALL OFF command.
2. WS15Z-1 will respond to ALL OFF command but will not respond to ALL ON command
3. WS15Z-1 will respond to ALL ON command but will not respond to ALL OFF command.
4. WS15Z-1 will respond to ALL ON and the ALL OFF command.

CONFIGURATION

The WS15Z-1 supports the Configuration command.

The WS15Z-1 can be configured to operate slightly differently than how it works when you first install it. Using the Configuration command you can configure the following:

Night Light

By default, the LED on the WS15Z-1 will turn OFF when the load attached is turned ON. To make the LED turn ON when the load attached is turned ON, set parameter 3 to a value of 0.

- **Parameter No: 3**
- **Length: 1 Byte**
- **Valid Values = 0 or 1 (default 1)**

Invert Switch

To change the top of the switch to OFF and the bottom of the switch ON, set parameter 4 to 1.

- **Parameter No: 4**
- **Length: 1 Byte**
- **Valid Values = 0 or 1 (default 0)**

Each configuration Parameter can be set to its default setting by setting the default bit in the Configuration Set command. See your controller's instructions on how to do this (and if it supports it).

All configuration commands will be reset to their default state when the WS15Z-1 is excluded from the Z-Wave network by using the controller to reset the node.

SPECIFICATIONS

Power	120 VAC, 60 Hz
Signal	(Frequency) 908.42 MHz, 9.6Kbps or 40Kbps capable
Maximum Load:	Resistive: 15 amps (1800 watts) maximum, 120 VAC Motor: 1/2 H.P. maximum, 120 VAC Incandescent: 600W maximum, 120 VAC
Range:	Up to 100 feet line of sight between the Wireless Controller and/or the closest HomePro Receiver Module

INTEROPERABILITY WITH Z-WAVE DEVICES

A Z-Wave™ network can integrate devices of various classes, and these devices can be made by different manufacturers. just as the WS15Z-1 can be incorporated into existing Z-Wave™ networks. The top or bottom of the WS15Z-1 switch paddle can be used to carry out **inclusion** (inclusion to the network by adding to a group), **association** (operate simultaneously with other nodes), **exclusion** (remove from a group) or **reset** (remove from the network). Controllers can be replicated in order to provide operation from other locations.

REGULATORY INFORMATION

The WS15Z-1 is certified to comply with applicable FCC and IC rules and regulations governing RF and EMI emissions. 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 NOTICE

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 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 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 to help.
- Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment

IC NOTICE

This Class B digital apparatus complies with Canadian ICES-003

Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada. Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes : (1) l'appareil ne doit pas produire de brouillage, et (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada. 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.

WARRANTY

This Linear product is warranted against defects in material and workmanship for twelve (12) months. **This warranty extends only to wholesale customers** who buy direct from Linear or through Linear's normal distribution channels. Linear does not warrant this product to consumers. Consumers should inquire from their selling dealer as to the nature of the dealer's warranty, if any. **There are no obligations or liabilities on the part of Linear Corporation for consequential damages arising out of or in connection with 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.** All implied warranties, including implied warranties for merchantability and implied warranties for fitness, are valid only until Warranty Expiration Date as labeled on the product. **This Linear LLC Warranty is in lieu of all other warranties express or implied.**

All products returned for warranty service require a Return Product Authorization Number (RPA#). Contact Linear Technical Services at 1-800-421-1587 for an RPA# and other important details.

IMPORTANT !

Linear radio controls provide a reliable communications link and fill an important need in portable wireless signaling. However, there are some limitations which must be observed.

- For U.S. installations only: The radios are required to comply with FCC Rules and Regulations as Part 15 devices. As such, they have limited transmitter power and therefore limited range.
- A receiver cannot respond to more than one transmitted signal at a time and may be blocked by radio signals that occur on or near their operating frequencies, regardless of code settings.
- Changes or modifications to the device may void FCC compliance.
- Infrequently used radio links should be tested regularly to protect against undetected interference or fault.
- A general knowledge of radio and its vagaries should be gained prior to acting as a wholesale distributor or dealer, and these facts should be communicated to the ultimate users.

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