

## Lumina RF 10A Relay Switch

Cat. Nos. ZSS10-NxZ, ZSS10-GxZ

DI-000-ZSS10-00B

Incandescent: 800W @ 120V - Ballast: 1200VA @ 120V, 2700VA @ 277V - Motor: 1/4HP @ 120V

### INSTALLATION AND QUICK START SHEET

ENGLISH

#### WARNINGS AND CAUTIONS

- **TO AVOID FIRE, SHOCK, OR DEATH; TURN OFF POWER AT CIRCUIT BREAKER OR FUSE AND TEST THAT POWER IS OFF BEFORE WIRING!**
- To be installed and/or used in accordance with appropriate electrical codes and regulations.
- If you are unsure about any part of these instructions, consult an electrician.

#### NOTES

- 10A robust/commercial mechanical latching relay to handle high inrush (LED) and large loads.
- Utilizes Leviton® Lumina™ RF technology to communicate with other Lumina RF wireless compatible products.
- Requires Lumina gateway for programming and control communication to other devices.
- ZSS10-NxZ (Neutral Model) - Requires a neutral (white) connection wire.
- ZSS10-GxZ (No-Neutral Model) - 25 watts required as minimum load. Neutral (white) connection wire not required. Product is designed to leak voltage to load.

#### LEVITON LUMINA RF WALL SWITCH OVERVIEW

The Lumina RF components are designed to communicate with each other via 2.4GHz Radio Frequency (RF) to provide remote control of your lighting. Each module in the Lumina RF component line is designed to act as part of a system. Line powered devices are designed to act as a router. These routers will re-transmit the RF signal from one device to another until the intended device is reached. This ensures that the signal is received by its intended device by routing the signal around obstacles and radio dead spots.

#### CHANGING SWITCH COLOR

The color of the Leviton Lumina RF Wall Switch may be changed to complement the interior décor. The Leviton Lumina RF Wall Switch is supplied with a white, ivory and light almond switch plate. Additional colors are available; contact your Leviton distributor for more information. When changing the switch plate, **before** wiring and installation, proceed as follows:

1. Push in at two tabs on side to release (see Figure 2).
2. Line up and press in side to attach (see Figure 2).

#### WIRING

The Leviton Lumina RF Wall Switch is wired directly to the load and utilizes a mechanical latching relay for power switching control from the Decora® rocker. When multiple wall switches are controlling the same load, the following wiring instructions apply to each wall switch and the multi-location load control is completed through programming via the Leviton Lumina gateway. A gateway is required for all Lumina RF Wall Switches to control programming. Please refer to the Lumina gateway user manual for details.

#### NOTES:

1. Refer to Figure 3 to determine the wire colors for each connection.
2. Leviton Lumina RF Wall Switch ZSS10-NxZ requires a neutral (white) connection.
3. Wiring Connections:
  - a. Connect the Load (blue) wire to the lighting load.
  - b. Connect the Neutral (white) wire to the neutral supply.
  - c. Connect the Line (black) wire to either phase of the 120-277V supply.
 The Line (black) wire must be accessible for the installation of any additional switches.

#### INSTALLATION

1. **TO AVOID FIRE, SHOCK, OR DEATH; TURN OFF POWER** at circuit breaker or fuse and test that power is off before wiring!
2. If applicable, remove the faceplate from the existing wall switch, remove the existing wall switch from the wall box, and disconnect the wires from the existing wall switch. Identify the "Line", "Neutral", "Load" and "Traveler" (if applicable) wires.
 

**NOTE:** Traveler wire is not required for multi-location load control. If unused, firmly attach wire connector and tuck into wall box.
3. Remove 3/4" of insulation from each of the wires on the Leviton Lumina RF Wall Switch. Install the Leviton Lumina RF Wall Switch by connecting wires per wiring diagram (see Figure 3).
4. After all connections have been made, ensure that all wire connectors are firmly attached and there is no exposed copper.
5. Gently place the wires and the Leviton Lumina RF Wall Switch into the wall box with the LED at the top of device. Using the supplied screws, attach the Leviton Lumina RF Wall Switch to the wall box.
6. Before installing the faceplate, restore power to the circuit, and verify LED, switch ON/OFF operation.
7. After testing the Leviton Lumina RF Wall Switch and Multi-location Switches for proper local operation (see Table 1), install a Decora faceplate over each switch.

#### SWITCH OPERATION

##### Local Rocker Switch Operation

The Leviton Lumina RF Wall Switch has a rocker that can be used to control the load (see Table 1).

##### LED Indicator

The Leviton Lumina RF Wall Switch comes equipped with a LED indicator that is normally lit to green when the load is OFF. The LED is OFF when the load is ON.

##### Setup Mode for Controls Communication

Configure the Leviton Lumina RF Wall Switch using a Lumina gateway with a PC running the Lumina RF smart configuration software (see configuration videos and software for detailed radio frequency pairing and control programming online at [www.leviton.com/luminarf](http://www.leviton.com/luminarf)). **NOTE:** The device must be in Network Enrollment mode while the Lumina gateway is searching for new devices to Enroll.

#### WARNINGS AND CAUTIONS

- Use this device with **copper or copper clad wire only**.
- For indoor applications only.
- Save these instructions.

TABLE 1 - Leviton Lumina RF Switch Local Operation		
Rocker Event	Top Rocker	Bottom Rocker
Single-Tap	Load turns ON.	Load turns OFF.

Figure 1 - Lumina RF Wall Switch

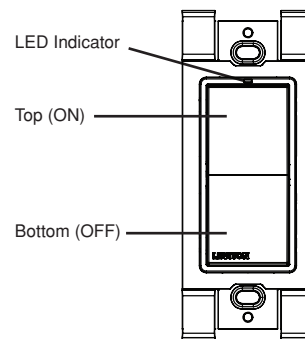


Figure 2 - Changing Switch Color

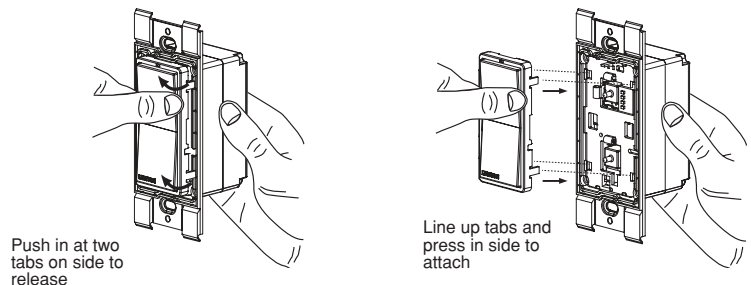


Figure 3 - Wiring Diagrams

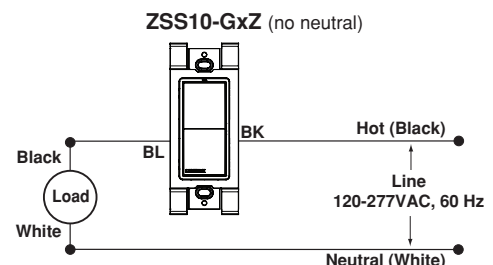
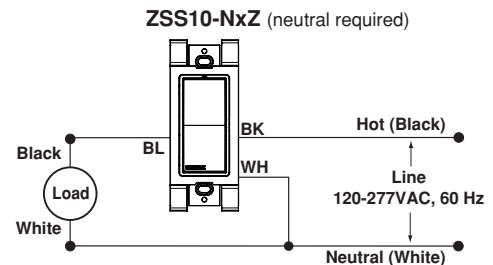


TABLE 2 - Operation Modes Defined	
Mode / Blink(s)	Operation
1	Enrollment - Allows the device to enroll in a network, or be removed.
2	Identify - The device will announce itself to other devices in the network (see FUTURE USE).
3	RF Pairing - Will initiate a search for compatible devices that are already in Identify Mode (see FUTURE USE).
4	LED Operation - Allows the device to enable/disable LED operations.
5	Reset - Resets device to Factory Default settings.

TABLE 3 - Configuration Menu, Quick Start Programming	
Notes	Requires <i>Lumina</i> gateway - Review all related gateway instructions before beginning.
	Idle Time Exit: No button presses for > 20 seconds will time out the menu and return to normal operation.
<b>Mode 1: Enrolling your Device in RF Network</b>	
Enter Menu	Press and hold the bottom (OFF) rocker for > 10 seconds - identified by the LED switching to amber blinking (Mode 1 - One Blink - Enroll into <i>Lumina</i> RF Network).
Step 1	Review <i>Lumina</i> gateway instructions. Power up gateway and prepare network.
Step 2: Add Device	Press and hold the bottom (OFF) rocker for > 5 seconds to enroll into <i>Lumina</i> RF network. Start green blinking until completion (time out or press of bottom rocker), then return to Mode 1 - One Blink.
Step 3: Exit	Tap the top (ON) rocker.
<b>Mode 1: Removing your Device from RF Network</b>	
Enter Menu	Press and hold the bottom (OFF) rocker for > 10 seconds - identified by the LED switching to amber blinking (Mode 1 - One Blink - Enroll into <i>Lumina</i> RF Network).
Step 1: Remove Device	Press and hold the top (ON) rocker for > 5 seconds to leave the network (start red blinking until completion (time out or press of bottom (OFF) rocker), then return to Mode 1 - One Blink.
Step 2: Exit	Tap the top (ON) rocker.
<b>Mode 4: Turn LED OFF/ON</b>	
Enter Menu	Press and hold the bottom (OFF) rocker for > 10 seconds - identified by the LED switching to amber blinking (Mode 1 - One Blink - Enroll into <i>Lumina</i> RF Network).
Step 1	Tap the bottom (OFF) rocker 3 times to move into Four Blink (Mode 4 - LED Operation).
Step 2	Press and hold the bottom (OFF) rocker for > 5 seconds to toggle the LED mode - Green LED confirmation blink indicates locator LED will operate normally - Red LED confirmation blink indicates locator LED will be disabled and remain OFF.
Exit	Tap the top (ON) rocker.

TABLE 4 - Configuration Menu: Reset to Factory Default Settings		Mode 5
Enter Menu	Press and hold the bottom (OFF) rocker for > 10 seconds - identified by the LED switching to amber blinking (Mode 1 - One Blink - Enroll into <i>Lumina</i> RF Network).	
Step 1	Tap the bottom (OFF) rocker 4 times to move into Five Blink (Mode 5 - Reset).	
Step 2	Press and hold the bottom (OFF) rocker for > 5 seconds to enter Factory Default pending mode (Start red blinking until top (ON) rocker is pressed to initiate. To cancel Reset - press the bottom (OFF) rocker or allow idle timeout.	
Step 3: Reset/Exit	Press and hold the top (ON) rocker for > 5 seconds to complete Reset process (Stops the red blinking, cancels the menu and returns to normal device operation when reset is complete.	

FUTURE USE - Identify		Mode 2
Enter Menu	Press and hold either top (ON) or bottom (OFF) rocker for > 5 seconds to enter "60 second RF Identify Devices". Start red blinking until completion (time out or press of bottom (OFF) rocker), then return to Mode 2 - Two Blink.	
Step 1	Tap the bottom (OFF) rocker to move into Mode 3 - Three Blink - RF Pairing.	
FUTURE USE - RF Pairing		Mode 3
Step 1	Press and hold the bottom (OFF) rocker for > 5 seconds to initiate a search of compatible devices currently in the RF Identify Mode (start red blinking until completion (time out or press of bottom (OFF) rocker), then return to Mode 3 - Three Blink.	
Step 2	Press and hold the top (ON) rocker for > 5 seconds to clear out the list of paired devices.	
Step 3	Tap the bottom (OFF) rocker to move into Mode 4 - Four Blink - Reset.	

SPECIFICATIONS	
	ZSS10-NxZ, ZSS10-GxZ
LED, Incandescent, Inductive and Fluorescent Loads	Yes
Motor Operated Appliances	Yes
Current Maximum	10A
Connections	16 AWG
LED Indicator	Yes
Dimensions	4.1" x 1.75" x 1.45"
Weight	0.25 lb
Mounting	Standard J box
Input Power	120-230-277VAC
Input Frequency	50/60Hz
Frequency/Range	2.4GHz / 100-150ft
Power Consumption	ZSS10-NxZ: 120VAC @ 6.8mA AC (360mW typical) 277VAC @ 5.7mA AC (620mW typical) ZSS10-GxZ: 120VAC @ 6.2mA AC (350mW typical) 277VAC @ 4.7mA AC (520mW typical)
Operating Temperature	0°C - 40°C (32°F - 104°F)
ETL Certified to UL Standard	UL-508, CAN/CSA-C22.2 No. 14

#### FCC COMPLIANCE STATEMENT:

Contains FCC ID: W7Z-ZICM357SP0

The enclosed device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

(i.) This device may not cause harmful interference (ii.) This device must accept any interference received, including interference that may cause undesired operation. Any changes or modifications not expressly approved by Leviton could void the user's authority to operate this equipment. 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 for help.

#### FOR CANADA ONLY

For warranty information and/or product returns, residents of Canada should contact Leviton in writing at **Leviton Manufacturing of Canada Ltd to the attention of the Quality Assurance Department, 165 Hymus Blvd, Pointe-Claire (Quebec), Canada H9R 1E9** or by telephone at **1 800 405-5320**.

#### LEVITON LIMITED WARRANTY

Leviton warrants to the original consumer purchaser and not for the benefit of anyone else that products manufactured by Leviton under the Leviton brand name ("Product") will be free from defects in material and workmanship for the time periods indicated below, whichever is shorter: • **OmniPro II and Lumina Pro**: three (3) years from installation or 42 months from manufacture date. • **Omni LTE, Omni Ite, and Lumina**: two (2) years from installation or 30 months from manufacture date. • **BitWise Controllers, Accessories**: two (2) years from installation or 30 months from manufacture date. • **Lumina Gateway Controllers**: two (2) years from installation or 30 months from manufacture date. • **Thermostats, Accessories**: two (2) years from installation or 30 months from manufacture date. • **Batteries**: Rechargeable batteries in products are warranted for ninety (90) days from date of purchase. **Note**: Primary (non-rechargeable) batteries shipped in products are not warranted. **Products with Windows® Operating Systems**: During the warranty period, Leviton will restore corrupted operating systems to factory default at no charge, provided that the product has been used as originally intended. Installation of non-Leviton software or modification of the operating system voids this warranty. Leviton's obligation under this Limited Warranty is limited to the repair or replacement, at Leviton's option, of Product that fails due to defect in material or workmanship. Leviton reserves the right to replace product under this Limited Warranty with new or remanufactured product. **Leviton will not be responsible for labor costs of removal or reinstallation of Product.** The repaired or replaced product is then warranted under the terms of this Limited Warranty for the remainder of the Limited Warranty time period or ninety (90) days, whichever is longer. This Limited Warranty does not cover PC-based software products. **Leviton is not responsible for conditions or applications beyond Leviton's control. Leviton is not responsible for issues related to improper installation, including failure to follow written installation and operation instructions, normal wear and tear, catastrophe, fault or negligence of the user or other problems external to the Product.** To view complete warranty and instructions for returning product, please visit us at [www.leviton.com](http://www.leviton.com).