Wireless Switch Installation and User Guide

Supported Models and Fixtures

This installation and user guide covers these switch models:

LSZ-101-W	Wireless Switch (802.15.4)
LSZ-101-B	Wireless Switch (802.15.4)
LSZ-101-A	Wireless Switch (802.15.4)

This switch can operate independently or as a device you can control with your Control4® system. The switch installs in a standard wall box using typical wiring standards and it communicates to the Control4 system using a wireless connection. The switch supports:

- 120 Volt incandescent (all types)
- 120 Volt halogen (all types)
- 120 Volt magnetic low voltage (all types with 70 percent or greater load factor)

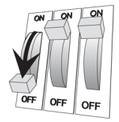
WARNING! To reduce the risk of serious injury or death, turn all power OFF before installing this product. Using this product in a manner other than outlined in this document voids your warranty. Further, Control4 is NOT liable for any damage incurred with the misuse of this product. See “Limited 1-Year Warranty”. This product generates heat. The room must have adequate ventilation or heat dissipation ability.

Installation Instructions

1 Ensure that the location and intended use meet the following criteria:

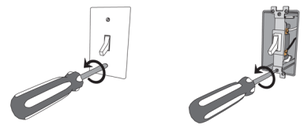
- Install in accordance with all national and local electrical codes.
- Wall box size required depends on your wiring. To calculate the total depth required, add 2.5 inches to the amount of space recommended in the NEC (National Electric Code) for your configuration.
- The range and performance of the wireless control system is highly dependent on the following:(1) Distance between devices; (2) Layout of the home; (3) Walls separating devices; and (4) Electrical equipment located near devices.
- If installing a dimmer in a multi-unit installation, DO NOT continue until you have read the “Multi-Unit Installations” section.
- DO NOT use where total wattage of the load is under 25 watts.
- DO NOT exceed maximum load rating of dimmer (which is 1000W for a single unit, if both side tabs are intact).

2 To avoid injury or death, turn OFF local electrical power. To turn off the power, either switch off the circuit breaker or remove the fuse from fuse box. To ensure the wires do NOT have power running to them, use an inductive voltage detector.



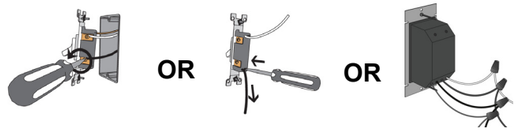
WARNING! As with any electrical device, improper use or installation can cause SERIOUS INJURY or DEATH. It is important that you understand the particular wiring configuration of your installation.
(Refer to the Wiring Configurations section of this document. Note: These are not the only wiring scenarios you may encounter.) If you are not sure which wires are the Hot, Neutral, or Load wires, have a trained electrician do the installation.

3 Use screwdriver to remove wall plate and existing switch from wall.



4 Detach existing switch or dimmer.

The existing switch or dimmer is wired in one of three ways: terminal screws, backwire, or wire nuts.

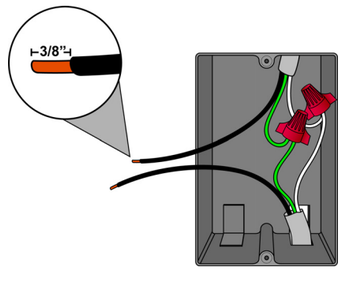


Terminal Screws:
Use a screwdriver to unscrew the screws to release the wire.

Backwire:
Insert screwdriver in Wire Release slot and pull out wire. If this does not work, use a wire cutter to cut the wire.

Wire Nuts:
Turn to remove wire nuts from existing wiring.

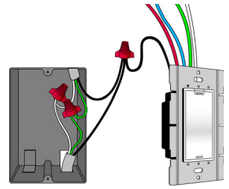
5 Identify the wires in your wall box. Straighten the wire ends. With a wire cutter, cut off the bare wire just below the insulation on all wires. Use a wire stripper to strip off the installation leaving about 3/8-inch of bare wire (as shown).



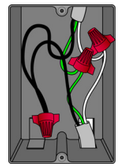
IMPORTANT: The National Electric Code (NEC) requires 6 inches of extended wire from the wall box. If your wiring does not meet this requirement, you will not meet code. Do NOT cut wire shorter than 6 inches.

IMPORTANT: **When installing this product in a commercial application or metal wall box, you might need to ground it to the wall box.**

6 Connect the switch wires to the wall box wires using wire nuts. Wall box wires can differ depending upon how the box was wired by your electrician and where the power source comes from—either the light fixture or the wall box. Refer to the “Sample Wiring Configurations” section.

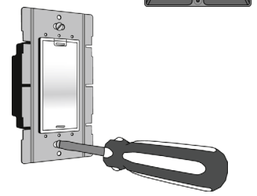


7 Fit wires back into the wall box. Bend the wires in a zigzag pattern so that they easily fold into the wall box.



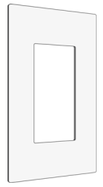
8 If you are using a Decora-style screw-on wall plate:

- **a.** Remove the switch’s black plastic sub-plate (located directly behind the screws) and store it for future use (in case you later change wall plates).
- **b.** Align the dimmer to the wall box and fasten with screws.
- **c.** Fasten the wall plate to the dimmer with screws.



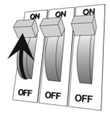
9 If you are using the Control4 snap-on wall plate that shipped with your switch:

- **a.** Align the switch to the wall box and fasten it with screws
- **b.** Snap the wall plate onto the dimmer.



10 Turn ON power at the circuit breaker or replace fuse from fuse box.

11 Test the switch to see if it is working properly. See “Operation and Configuration” for specific instructions.



Troubleshooting

If light does not turn on:

- Ensure light bulb is not burned out.
- Ensure light bulb is screwed in tightly.
- Ensure circuit breaker is not turned OFF or tripped.
- Check for proper wiring (see the “Sample Wiring Configurations” section).

Limited 1-Year Warranty

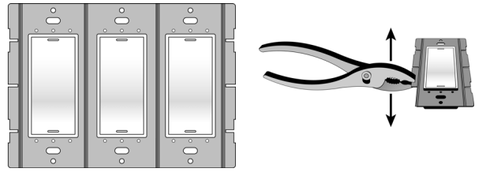
This device has a limited one (1) year warranty on parts from the date of purchase. Control4 will replace or repair any defective unit. Return unit to the place of purchase for replacement. For any damages incurred, the warranty will never exceed the purchase price of the device. This warranty does not cover installation, removal, or reinstallation cost. The warranty is not valid in cases where damage incurred due to misuse, abuse, incorrect repair, or improper wiring or installation. It does not cover incidental or consequential damage. This warranty gives you specific legal rights, and you might also be entitled to other rights that vary from state to state. Some states do not allow limitations on how long an implied warranty lasts or the exclusion or limitation of incidental or conseqential damages. In these cases, the above mentioned limitations might not apply to you. For complete warranty information, see www.Control4.com.To automatically receive notification of upgrades, return the enclosed registration card or register online at www.Control4.com.

Multi-Unit Installations

Multi-unit installations allow you to install one stand-alone switch next to another in the same wall box.

Remove Inner-Side Breakaway Tabs

When doing a multi-unit installation, you must r**emove ONLY the breakaway tabs on the one switch side that will be adjacent to another switch side (otherwise the tabs on the 2 sides will collide).** DO NOT remove tabs on any side that will become the outer side of a group of switches. Use pliers to bend a tab back and forth until it comes off.



Resulting Capacity Depends on Side Tab Status

- With both sides’ breakaway tabs intact, the capacity is 1000W maximum.
- If you remove 1 side’s tabs, the capacity is reduced to 800W maximum.
- If you remove 2 sides’ tabs, the capacity is reduced to 600W maximum.

FCC and UL Information

FCC ID: R33LSZ1011

CAUTION! Changes or modifications not expressly approved by Control4 could void the user’s authority to operate the equipment.

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 interfence, and (2) this device must accept any interference received, including interference that may cause undesired operation.

UL Control number: xxxx

CAUTION! To reduce the risk of overheating and possible damage to other equipment, Do Not Install to control an Outlet Receptacle, a Motor-Operated Appliance, a Fluorescent Lighting Fixture, or a Transformer-Supplied Appliance.

Control4 Technical Support

For help on the installation or operation of this product, email or call the Control4 Technical Support Center. Please provide your exact model number. Contact support@control4.com or see the web site www.control4.com.

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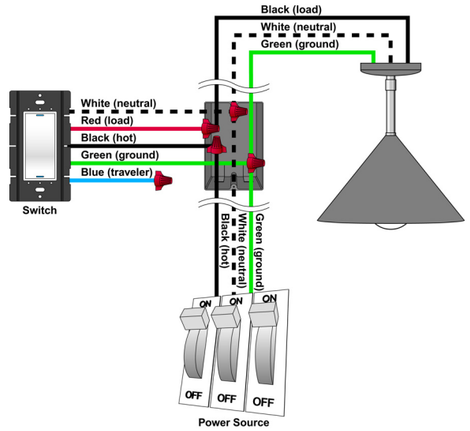
Part Number: 21-0020 Rev A Draft 13

Sample Wiring Configurations

Single-Switch Environment—Power Source at Wall Box

To wire the switch for a Control4 single-switch environment when the power is coming from the wallbox, connect together and cap with a wire nut the wires indicated in the following table:

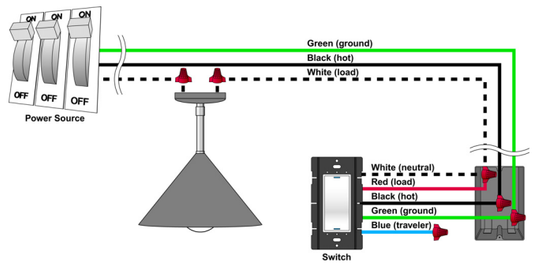
Wires from switch	Wires from Wall Box	
	Light Fixture	Power Source
White (neutral)	White (neutral)	White (neutral)
Red (load)	black (load)	None
Black (hot)	None	Black (hot)
Green (ground)	Green (ground)	Green (ground)
Blue (3-way traveller)	None	None



Single-Switch Environment—Power Source at Light Fixture

To wire the switch for a Control4 single-switch environment when the power is coming from the light fixture (switched-leg mode), connect together and cap with a wire nut the wires indicated in the following table:

Wires from switch	Wires from the Wall Box (coming from the power source at light)
White (neutral)	White (load)
Red (load)	White (load)
Black (hot)	Black (hot)
Green (ground)	Green (ground)
Blue (3-way traveller)	None



3-Way-Switch Environment—Power Source at Wall Box

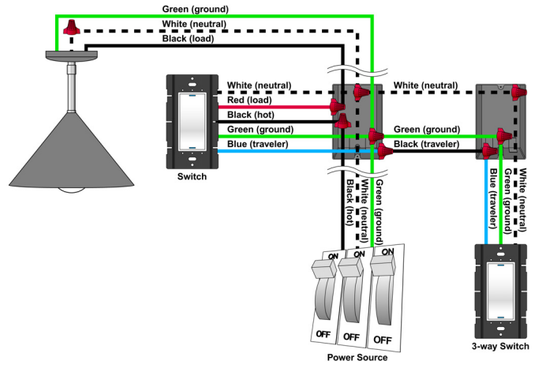
To wire the switch for a Control4 3-way-switch environment when the power is coming from the wall box, do the following:

1. Wire the switch to Wall Box 1 by connecting together and capping with a wire nut the following wires:

Wires from switch	Wires from Wall Box 1		Wires from Wall Box 2
	Light Fixture	Power Source	
White (neutral)	White (neutral)	White (neutral)	White (neutral)
Red (load)	black (load)	None	None
Black (hot)	None	Black (hot)	
Green (ground)	Green (ground)	Green (ground)	Green (ground)
Blue (3-way traveller)	None	None	Black (3-way traveller)

2. Wire the 3-way switch to Wall Box 2 by connecting together and capping with a wire nut the following wires:

Wires from 3-way Keypad	Wires from Wall Box 2
White (neutral)	White (neutral)
Green (ground)	Green (ground)
Blue (3-way traveller)	Black (3-way traveller)



3-Way-Switch Environment—Power Source at Light Fixture

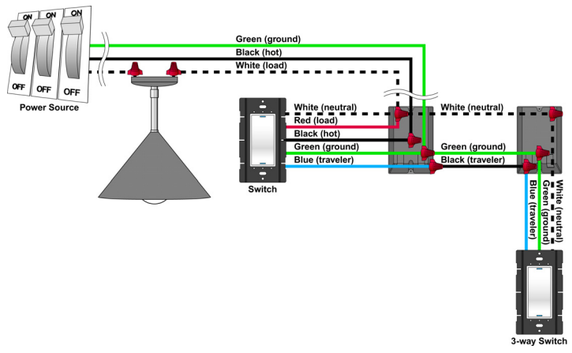
To wire the switch for a Control4 3-way-switch environment when the power is coming from the light fixture (switched-leg mode), do the following:

1. Wire the switch to Wall Box 1 by connecting together and capping with a wire nut the following wires:

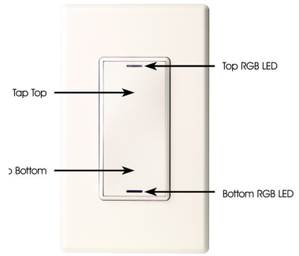
Wires from switch	Wires from Wall Box 1		Wires from Wall Box 2
	Light Fixture	Power Source	
White (neutral)	White (load)	None	White (neutral)
Red (load)	White (load)	None	None
Black (hot)	None	Black (hot)	None
Green (ground)	None	Green (ground)	Green (ground)
Blue (3-way traveller)	None	None	Black (3-way traveller)

2. Wire the 3-way switch to Wall Box 2 by connecting together and capping with a wire nut the following wires:

Wires from 3-way Keypad	Wires from Wall Box 2
White (neutral)	White (neutral)
Green (ground)	Green (ground)
Blue (3-way traveller)	Black (3-way traveller)



Operation and Configuration



To configure this switch for use with a Control4 system, refer to the documentation that shipped with your controller. To operate and configure this switch as a stand-alone device, refer to the tables below.

This switch features RGB LEDs, which are small lights that can be programmed with different colors to reflect different states or color preferences.

Note: The Switch may feel warm to the touch under normal operation.

Operate Switch	**Expected behavior of RGB LEDs:**	
To operate switch:	***Top***	***Bottom***
Turn ON: Tap top.	Lit, full brightness	Not lit
Turn OFF: Tap bottom.	Not lit	Lit, full brightness
Bind 3-Way	**Status indicated by RGB LEDs**	
To bind devices for a 3-Way switch:	***Top***	***Bottom***
1. Tap bottom 6 times on each device in the 3-Way group to enter into 3-Way Binding mode.	Red = Ready to receive and build an address table	Amber = 3-Way Binding mode
2. Tap top 1 time on each device in the 3-Way group to advertise its address.	Green = Device address has been advertised	Amber = 3-Way Binding mode
3. Tap bottom 1 time to save all advertised addresses and exit 3-Way Binding mode.	(Returns to default or previous value)	(Returns to default or previous value)
Select Channel	**Status indicated by RGB LEDs**	
To select a channel:	***Top***	***Bottom***
1. Tap bottom 7 times to enter into *Channel Select* mode.	Red = Channel A	Aqua = Channel Select mode
2. Tap top 1 time to toggle to next available channel.	Red = Channel A Blue = Channel B Green = Channel C (Other user defined color) = Custom Channel	Aqua = Channel Select mode
3. Tap bottom 1 time to save selected channel and exit *Channel Select* mode.	(Returns to default or previous value)	(Returns to default or previous value)
Restore Defaults	**Status indicated by RGB LEDs**	
To restore default settings:	***Top***	***Bottom***
1. Tap bottom 10 times to enter into *Restore Default* mode.	Red = No action	White = Restore Default mode
2. Tap top 1 time to toggle to *No Action* or *Restore Default* modes.	Red = No action Green = Restore Default	White = Restore Default mode
3. Tap bottom 1 time to execute the selected command and exit *Restore Default* mode.	(Returns to default or previous value)	(Returns to default or previous value)
Care and Cleaning		
Do NOT paint switch or wall plate. It is not recommended. Do NOT use any chemical cleaners to clean the switch. Clean surface with a soft damp cloth as needed.		