



Wireless Switch Installation Guide

Supported Models

C4-SW101-Z-W Wireless Switch (White)
 C4-SW101-Z-B Wireless Switch (Black)
 C4-SW101-Z-A Wireless Switch (Almond)

This device requires a neutral AC connection.

Specifications and Supported Fixtures

This Control4® Wireless Switch operates independently or as part of a Control4® home automation system to enable intelligent lighting control. It installs in a standard wall box using typical wiring standards and communicates with other devices through a wireless RF (radio frequency) connection.

Power: 120 VAC +/-10% 50/60 Hz
 300 mW when off
 850 mW when on

Supported Load Types and Ratings: 120 VAC 1000 W Resistive
 120 VAC 500 W Tungsten
 120 VAC 1000 W Electronic Low Voltage
 120 VAC 1000 W Fluorescent Light Fixtures
 120 VAC 1000 W Magnetic Low Voltage

Operating Temperature: All load ratings are based on an ambient temperature of 25 degrees Celsius.

Volume: 5.0 Cubic inches

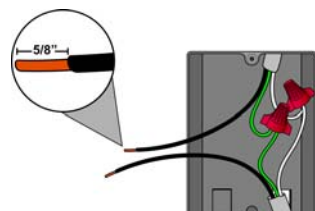
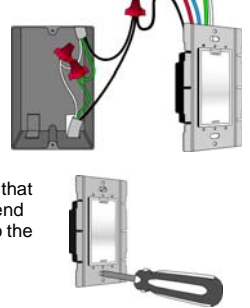


Communications: ZigBee, IEEE 802.15.4, 2.4 GHz, 15-channel, spread spectrum radio

Warnings & Considerations

- WARNING!** Install in accordance with all national and local electrical codes.
- WARNING!** Improper use or installation can cause SERIOUS INJURY, DEATH or LOSS/DAMAGE OF PROPERTY.
- WARNING!** If you are unsure about any part of these instructions, consult a qualified electrician.
- WARNING!** Use this device only with copper or copper clad wire. This product has NOT been approved for use with Aluminum wiring.

- IMPORTANT!** Use or modification of this product in a manner not expressly approved by Control4 voids your warranty. Further, Control4 is NOT liable for any damage incurred with the misuse of this product. See "Limited 2 Year Warranty."
- IMPORTANT!** 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.

Installation Instructions

1. **TURN OFF POWER** by switching off the circuit breaker or removing the fuse and test that power is off before wiring!
2. Identify your wiring application (refer to the appropriate diagram in ^{mm} on the back page).
 - "Single-Pole (with power source at wall box) - see Figure 1
 - "3-Way (with power source at wall box) - see Figure 2
3. Prepare wires by removing pre-cut insulation from the appropriate switch leads. Wire insulation should be stripped back 5/8" of an inch from the wire end (as shown).
 
4. Connect the switch wires to the wall box wires using wire nuts according to the relevant wiring diagram. See "Sample Wiring Configurations."
5. Mount Switch into wall box by partially securing the wall box screws attached to the switch. Ensure that the word "Top" on the switch frame is facing up. Bend wires in a zigzag pattern so that they easily fold into the wall box.
 
 - WARNING!** Ground the Wireless Switch in accordance with the National Electric Code (NEC) requirements. Although the switch's aluminum yoke plate and green ground wire are directly bonded together inside the switch, DO NOT rely solely upon the yoke plate's contact with a metal wall box for adequate grounding. Use the switch's ground wire to make a secure connection to the safety ground of the electrical system.
 - IMPORTANT!** Not grounding this product according to the preceding may result in an installation less immune to damage caused by electrical disturbances, such as lightning, and void the warranty.
6. If you are using the Control4 push-on (screw-less) wall plate that shipped with your switch:
 - a. For a single-gang scenario, attach the black plastic sub-plate using the provided sub-plate screws.
 - IMPORTANT!** Tighten the screws until the back side of the metal yoke plate is even with the wall surface, but no farther. Over-tightening can damage the switch and cause mechanical malfunction. Do NOT use a power screw driver to install this device as this may lead to over-tightening.
 - b. If you are installing in a multi-gang scenario, only partially tighten the mounting screws, leaving about 1/8 of an inch gap between the wall and the yoke plates prior to attaching the black plastic sub-plate. This allows each device in a multi-gang scenario to conform to the sub-plate, creating a single assembly. Secure the multi-gang sub-plate to all devices using the provided sub-plate screws. Then secure the assembly by tightening the wall box screws the remaining 1/8 of an inch. Do not over-tighten any of the screws or you will misalign the flat plane of the multi-gang wall plate.
 - c. With the wall plate's removal slot facing down, push the wall plate onto the switch's black plastic sub-plate.
7. If you are using a Decora-style screw-on wall plate:
 - a. Do not attach the switch's black plastic sub-plate
 - b. Align the switch to the wall box and fasten with screws.
 - c. Fasten the wall plate to the switch with screws.
8. Turn ON power at the circuit breaker or replace fuse from fuse box.
9. Test the switch to see if it is working properly. See "Operation and Configuration" for specific instructions.
 

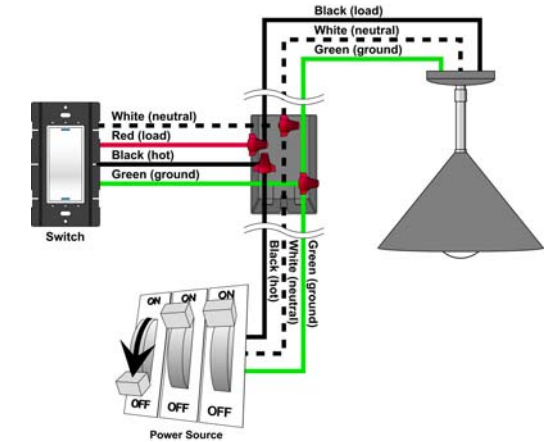
Sample Wiring Configurations

Single-Location Scenario—Power Source at Wall Box

NOTE: This device will not function without a neutral AC connection.

To wire the switch for a Control4 single-location scenario in which the power is first routed to the wallbox, connect together and cap with a wire nut the wires indicated in the following table:

Switch Wires	Wires in the Wall Box	
	From Power Source	To Light Fixture
White (neutral)	White (neutral)	White (neutral)
Red (load)	None	black (load)
Black (hot)	Black (hot)	None
Green (ground)	Green (ground)	Green (ground)



Two-Location Scenario—Power Source at Wall Box

NOTE: This device will not function without a neutral AC connection.

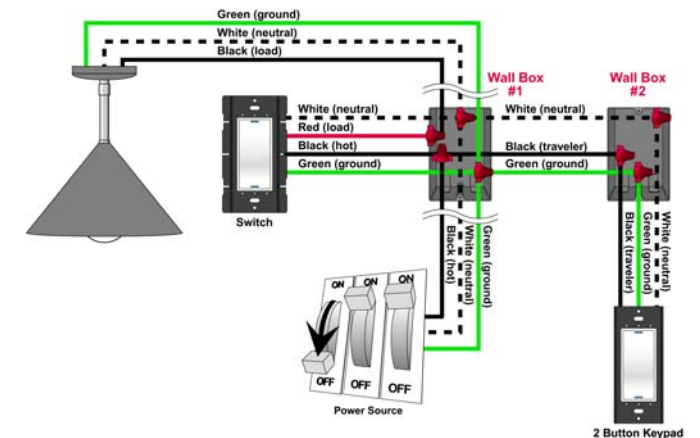
To wire the switch and a multi-button keypad in a two-location scenario (Control4's 3-way-switch solution) where the power is first routed to the wall box, do the following:

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

Switch Wires	Wires in Wall Box 1		
	From Power Source	To Light Fixture	To Wall Box 2
White (neutral)	White (neutral)	White (neutral)	White (neutral)
Red (load)	None	Black (load)	None
Black (hot)	Black (hot)	None	Black (traveler)
Green (ground)	Green (ground)	Green (ground)	Green (ground)

2. Wire the multi-button keypad into Wall Box #2 by connecting together and capping with a wire nut the following wires:

Multi-Button Keypad Wires	Wires in Wall Box 2 (from Wall Box 1)
White (neutral)	White (neutral)
Green (ground)	Green (ground)
Black (traveler)	Black (traveler)



Optional Antenna Extension

In some installation scenarios, it may be desirable to enhance the Switch's wireless (RF) transmission capabilities. This may be needed to overcome issues such as local interference from other devices, range considerations due to the distance between devices or the use of metallic faceplates. The Control4 Wireless Switch has been designed with a wire whip antenna coiled underneath the plastic button that can be extended to accommodate such scenarios. Instructions for extending the antenna are provided below.



WARNING! To avoid risk of electrical shock that may cause personal injury or damage to the Switch, this procedure should be performed prior to connecting the switch at the wall box.



CAUTION! Risk of Equipment Damage. This procedure enables advanced functionality and should only be performed by a competent trained installer.

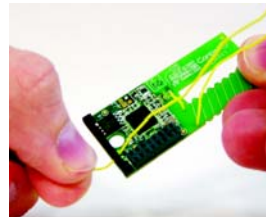
- 1 Remove the plastic button frame by squeezing the side tabs near the top and bottom of the button and pulling outward. A small flat-head screw driver can also be used to assist in releasing the tabs.



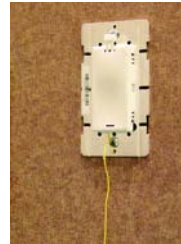
- 2 Once the button has been removed, detach the radio board from its connector by gently pulling away from the switch frame.



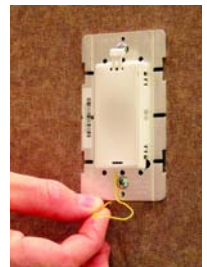
- 3 Slip the end of the antenna out of the radio board hole and uncoil it, being careful not to exert undue tension on the wire. Once uncoiled, thread the antenna wire under the plastic spacer at the bottom of the radio board.



- 4 Re-attach the radio card to the switch frame by carefully aligning the connector and pressing gently. Then re-attach the button and button frame by aligning the button frame securement tabs with the appropriate slots on the switch frame and pushing gently. Ensure that the antenna is routed through the small notch on the bottom left-hand side of the button frame provided for this purpose. Once the button has been re-attached, proceed with the standard installation procedure for wiring the switch to the light load and securing it into the wall box, as described in Step 1 through Step 5 of "Installation Instructions."



- 5 The antenna has been designed to extend well beyond the faceplate. For optimal performance, it should be oriented in a vertical plane below the switch. To enable this without leaving the antenna visible to the end user, a very small hole should be made in the wall just below the switch frame and the antenna inserted through the hole back into the wall. Once the antenna has been routed into the wall, proceed with standard installation of the switch sub-plate and faceplate, as described in Step 6 and Step 7 of "Installation Instructions."



CAUTION! Risk of Equipment Damage. The antenna must not be inserted into the junction box containing high voltage wires.



IMPORTANT! Do not shorten or cut the antenna in any way as this may seriously impair transmission capabilities.

Troubleshooting

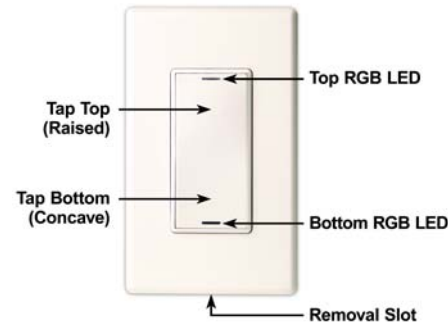
If light does not turn on:

- Ensure at least one LED on the face of the switch is lit.
- Ensure the light bulb is not burned out and is screwed in tightly.
- Ensure circuit breaker is not turned OFF or tripped.
- Check for proper wiring (see the "section).
- 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.

Operation and Configuration

On initial power up, the unit will flash the Red/Green/Blue (RGB) LEDs, which can be programmed with different colors for different states or color preferences.

To set up this switch for use with a Control4 system, refer to your system setup documentation.



To operate this switch as a stand-alone device, refer to the following tables.

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
Care and Cleaning		
Do NOT paint switch or its wall plate. Do NOT use any chemical cleaners to clean the switch. Clean surface with a soft damp cloth as needed.		

Limited 2 Year Warranty

Control4 Corporation ("Control4") warrants that at the time of first-consumer sale, this product will be free from defects in material and manufacture. Control4 further warrants that for a period of 2 years (24 months) after initial consumer sale, the product will function in accordance with its specification, provided that it is installed and maintained under normal and proper use. This warranty extends only to products purchased directly from Control4 or an Authorized Control4 Reseller. If the product proves to be defective in material or workmanship during the warranty period, it may be returned to the place of purchase and Control4 will, at its sole option, repair or replace the product with a like product. This warranty provides the consumer purchaser with specific legal rights, which may vary per state or country. For complete warranty information, including details on consumer legal rights as well as warranty exclusions, visit www.control4.com/warranty.

Regulatory Compliance

FCC

FCC ID: R33C4SW101Z

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.

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.



IMPORTANT! Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

ETL Statement

ETL Control Number: 3017581

This product has been tested by ETL and was found to comply with the Standard for Safety for Industrial Control Equipment:

- UL/ANSI Standard 508 (Seventeenth Edition)
- CSA Standard C22.2 No. 14-05



Industry Canada

This Class B digital apparatus complies with Canada ICES-003.

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

About this Document

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Wireless Fireplace Switch Installation Guide

Supported Models

- C4-FS101-Z-W Wireless Fireplace Switch (White)
- C4-FS101-Z-B Wireless Fireplace Switch (Black)
- C4-FS101-Z-A Wireless Fireplace Switch (Almond)

This device requires a neutral AC connection.

Specifications and Supported Fixtures

This Control4® Wireless Fireplace Switch operates independently or as part of a Control4® home automation system to enable intelligent lighting control. It installs in a standard wall box using typical wiring standards and communicates with other devices through a wireless RF (radio frequency) connection.

Power: 120 VAC +/-10% 50/60 Hz
300 mW when off
850 mW when on

Supported Load 30 VDC 8.3A

Types and Ratings: Operating Temperature: All load ratings are based on an ambient temperature of 25 degrees Celsius.

Volume: 5.0 Cubic inches

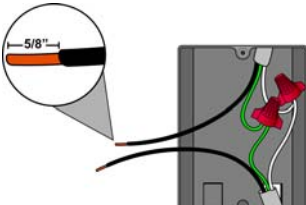
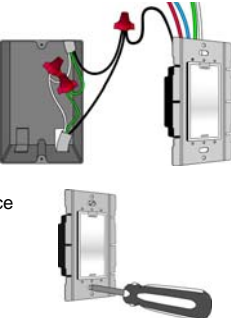


Communications: ZigBee, IEEE 802.15.4, 2.4 GHz, 15-channel, spread spectrum radio

Warnings & Considerations

- WARNING!** Install in accordance with all national and local electrical codes.
- WARNING!** Improper use or installation can cause SERIOUS INJURY, DEATH or LOSS/DAMAGE OF PROPERTY.
- WARNING!** If you are unsure about any part of these instructions, consult a qualified electrician.
- WARNING!** Use this device only with copper or copper clad wire. This product has NOT been approved for use with Aluminum wiring.

- IMPORTANT!** Use or modification of this product in a manner not expressly approved by Control4 voids your warranty. Further, Control4 is NOT liable for any damage incurred with the misuse of this product. See "Limited 2 Year Warranty."
- IMPORTANT!** 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.

Installation Instructions

- TURN OFF POWER by switching off the circuit breaker or removing the fuse and test that power is off before wiring!
 - Identify your wiring application (refer to the appropriate diagram in ^m on the back page).
 - "Single-Pole (with power source at wall box) - see Figure 1
 - "3-Way (with power source at wall box) - see Figure 2
 - Prepare wires by removing pre-cut insulation from the appropriate fireplace switch leads. Wire insulation should be stripped back 5/8 of an inch from the wire end (as shown).
 
 - Connect the fireplace switch wires to the wall box wires using wire nuts according to the relevant wiring diagram. See "Sample Wiring Configurations."
 - Mount fireplace switch into wall box by partially securing the wall box screws attached to the fireplace switch. Ensure that the word "Top" on the fireplace switch frame is facing up. Bend wires in a zigzag pattern so that they easily fold into the wall box.
 
- WARNING!** Ground the Wireless Fireplace Switch in accordance with the National Electric Code (NEC) requirements. Although the fireplace switch's aluminum yoke plate and green ground wire are directly bonded together inside the fireplace switch, DO NOT rely solely upon the yoke plate's contact with a metal wall box for adequate grounding. Use the fireplace switch's ground wire to make a secure connection to the safety ground of the electrical system.
- IMPORTANT!** Not grounding this product according to the preceding may result in an installation less immune to damage caused by electrical disturbances, such as lightning, and void the warranty.
- If you are using the Control4 push-on (screw-less) wall plate that shipped with your fireplace switch:
 - For a single-gang scenario, attach the black plastic sub-plate using the provided sub-plate screws.
 - IMPORTANT!** Tighten the screws until the back side of the metal yoke plate is even with the wall surface, but no farther. Over-tightening can damage the fireplace switch and cause mechanical malfunction. Do NOT use a power screw driver to install this device as this may lead to over-tightening.
 - If you are installing in a multi-gang scenario, only partially tighten the mounting screws, leaving about 1/8 of an inch gap between the wall and the yoke plates prior to attaching the black plastic sub-plate. This allows each device in a multi-gang scenario to conform to the sub-plate, creating a single assembly. Secure the multi-gang sub-plate to all devices using the provided sub-plate screws. Then secure the assembly by tightening the wall box screws the remaining 1/8 of an inch. Do not over-tighten any of the screws or you will misalign the flat plane of the multi-gang wall plate.
 - With the wall plate's removal slot facing down, push the wall plate onto the fireplace switch's black plastic sub-plate.
 
 - If you are using a Decora-style screw-on wall plate:
 - Do not attach the fireplace switch's black plastic sub-plate
 - Align the fireplace switch to the wall box and fasten with screws.
 - Fasten the wall plate to the fireplace switch with screws.
 - Turn ON power at the circuit breaker or replace fuse from fuse box.
 - Test the fireplace switch to see if it is working properly. See "Operation and Configuration" for specific instructions.
 

Sample Wiring Configurations

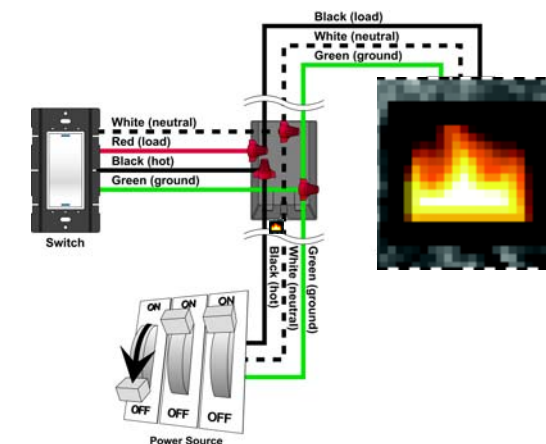
Single-Location Scenario—Power Source at Wall Box

NOTE: This device will not function without a neutral AC connection.

To wire the switch for a Control4 single-location scenario in which the power is first routed to the wallbox, connect together and cap with a wire nut the wires indicated in the following table:

Fireplace Switch Wires	Wires in the Wall Box	
	From Power Source	To Fireplace
White (neutral)	White (neutral)	None
Orange (load)	None	White (load)
Orange (load)	None	Black (load)
Black (hot)	Black (hot)	None
Green (ground)	Green (ground)	Green (ground)

Placeholder Image



Optional Antenna Extension

In some installation scenarios, it may be desirable to enhance the Fireplace Switch's wireless (RF) transmission capabilities. This may be needed to overcome issues such as local interference from other devices, range considerations due to the distance between devices or the use of metallic faceplates. The Control4 Wireless Fireplace Switch has been designed with a wire whip antenna coiled underneath the plastic button that can be extended to accommodate such scenarios. Instructions for extending the antenna are provided below.

WARNING! To avoid risk of electrical shock that may cause personal injury or damage to the Fireplace Switch, this procedure should be performed prior to connecting the fireplace switch at the wall box.

CAUTION! Risk of Equipment Damage. This procedure enables advanced functionality and should only be performed by a competent trained installer.

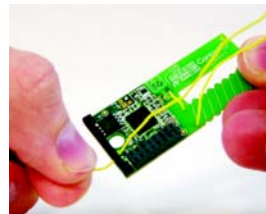
- 1 Remove the plastic button frame by squeezing the side tabs near the top and bottom of the button and pulling outward. A small flat-head screw driver can also be used to assist in releasing the tabs.



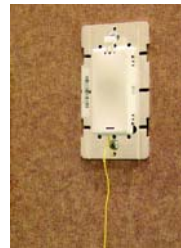
- 2 Once the button has been removed, detach the radio board from its connector by gently pulling away from the fireplace switch frame.



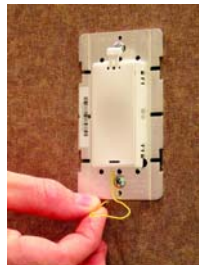
- 3 Slip the end of the antenna out of the radio board hole and uncoil it, being careful not to exert undue tension on the wire. Once uncoiled, thread the antenna wire under the plastic spacer at the bottom of the radio board.



- 4 Re-attach the radio card to the fireplace switch frame by carefully aligning the connector and pressing gently. Then re-attach the button and button frame by aligning the button frame securement tabs with the appropriate slots on the fireplace switch frame and pushing gently. Ensure that the antenna is routed through the small notch on the bottom left-hand side of the button frame provided for this purpose. Once the button has been re-attached, proceed with the standard installation procedure for wiring the fireplace switch to the light load and securing it into the wall box, as described in Step 1 through Step 5 of "Installation Instructions."



- 5 The antenna has been designed to extend well beyond the faceplate. For optimal performance, it should be oriented in a vertical plane below the fireplace switch. To enable this without leaving the antenna visible to the end user, a very small hole should be made in the wall just below the fireplace switch frame and the antenna inserted through the hole back into the wall. Once the antenna has been routed into the wall, proceed with standard installation of the fireplace switch sub-plate and faceplate, as described in Step 6 and Step 7 of "Installation Instructions."



CAUTION! Risk of Equipment Damage. The antenna must not be inserted into the junction box containing high voltage wires.

IMPORTANT! Do not shorten or cut the antenna in any way as this may seriously impair transmission capabilities.

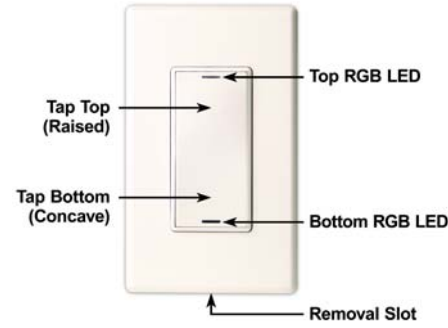
Troubleshooting

If fireplace does not turn on:

- Ensure at least one LED on the face of the switch is lit.
- Ensure the pilot light is on or fireplace is in mode ready to be turned on (refer to the fireplace documentation).
- Ensure circuit breaker is not turned OFF or tripped.
- Check for proper wiring (see the ""section).
- 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.

Operation and Configuration

On initial power up, the unit will flash the Red/Green/Blue (RGB) LEDs, which can be programmed with different colors for different states or color preferences. To set up this switch for use with a Control4 system, refer to your system setup documentation.



To operate this switch as a stand-alone device, refer to the following tables.

Operate Fireplace 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
Care and Cleaning		
Do NOT paint switch or its wall plate.		
Do NOT use any chemical cleaners to clean the switch.		
Clean surface with a soft damp cloth as needed.		

Limited 2 Year Warranty

Control4 Corporation ("Control4") warrants that at the time of first-consumer sale, this product will be free from defects in material and manufacture. Control4 further warrants that for a period of 2 years (24 months) after initial consumer sale, the product will function in accordance with its specification, provided that it is installed and maintained under normal and proper use. This warranty extends only to products purchased directly from Control4 or an Authorized Control4 Reseller. If the product proves to be defective in material or workmanship during the warranty period, it may be returned to the place of purchase and Control4 will, at its sole option, repair or replace the product with a like product. This warranty provides the consumer purchaser with specific legal rights, which may vary per state or country. For complete warranty information, including details on consumer legal rights as well as warranty exclusions, visit www.control4.com/warranty.

Regulatory Compliance

FCC

FCC ID: R33C4SW101Z

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.

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.

IMPORTANT! Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

ETL Statement

ETL Control Number: 3017581

This product has been tested by ETL and was found to comply with the Standard for Safety for Industrial Control Equipment:

- UL/ANSI Standard 508 (Seventeenth Edition)
- CSA Standard C22.2 No. 14-05



Industry Canada

This Class B digital apparatus complies with Canada ICES-003.

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

About this Document

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