Control4™

Wireless Fireplace Switch Installation Guide

Supported Models

C4-FS1-Z Wireless Fireplace Switch

Specifications and Supported Fixtures

This Control4® Wireless Fireplace Switch operates independently or as part of a Control4 Home-Automation System to enable intelligent control of a gas fireplace. 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 400 mW when on
Supported Load Types and Ratings:	This device requires a neutral AC connection. - Millivolt Low Voltage Control - 24VAC at 240W - 30 V DC at 10A
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 and 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.

WARNING! Do not connect any gas valve or electronic device directly to the 110 to 120VAC power. Refer to your gas appliance's instructions and wiring diagrams for proper placement of wires. All electronic devices must be wired according to their manufacturer's instructions.

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.
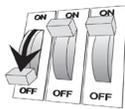
Fireplace Safety Instructions

WARNING! This Fireplace Switch is intended for installation in standard wall-mounted switching locations. Do no install this Switch inside the fireplace housing or in areas of excessive heat.

IMPORTANT! This Fireplace Switch should be installed by a qualified electrician or a gas technician who is familiar with gas appliances and gas valves. Incorrect wiring connections will cause damage to the gas valve, electonic module, and/or Fireplace Switch that operates the gas appliance.
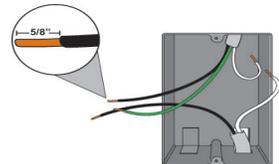
Installation Instructions

WARNING! In accordance with the National Electric Code (NEC) requirements.
• The wires entering the wall box from the 24V or mili-volt system fireplace (low-voltage wiring) must either have a UL rating for 600V or have a protective, non-conductive sleeve/tubing which provides 600V insulation.
• Control4 recommends that the low-voltage wiring enter the wall box through a different opening than the high-voltage wiring.
• Control4 recommends that good wiring practices be observed when installing the device to keep good separation between low and high-voltage wires within the wall box.

1. TURN OFF POWER by switching off the circuit breaker or removing the fuse and test that power is off before wiring!
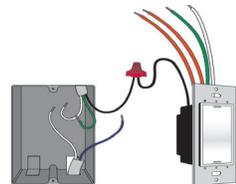
2. Identify your wiring application (refer to the appropriate diagram on the back page). "Single-Pole (with power source at wall box)

3. Prepare the wires by removing the 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).

4. Connect the Fireplace Switch wires to the wall box wires using wire nuts according to the relevant wiring diagram.

   See "Sample Wiring Configuration."

WARNING! Orange wires are only to be used in low-voltage switching. Do not connect them to 120V sources or any loads outside the supported types and ratings.

5. 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.
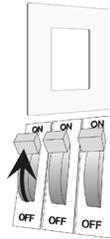
WARNING! Ground the Wireless Fireplace Switch in accordance with the National Electric Code (NEC) requirements. Although the fireplace switch's aluminum yoke plate and green ground wire are directly bonded together inside the fireplace switch, DO NOT rely solely upon the yoke plate's contact with a metal 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.

6. If you are using the Control4 push-on (screw-less) wall plate that shipped with your Fireplace 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 fireplace 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, partially tighten the mounting screws, leaving 1/8-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-inch. Do not over-tighten 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 Fireplace Switch's black plastic sub-plate.

7. If you are using a Decora-style screw-on wall plate:
   a. Do not attach the Fireplace Switch's black plastic sub-plate
   b. Align the fireplace switch to the wall box and fasten with screws.
   c. Fasten the wall plate to the Fireplace Switch with screws.

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

9. Test the Fireplace Switch to see if it is working properly. See "Operation and Configuration" for specific instructions.

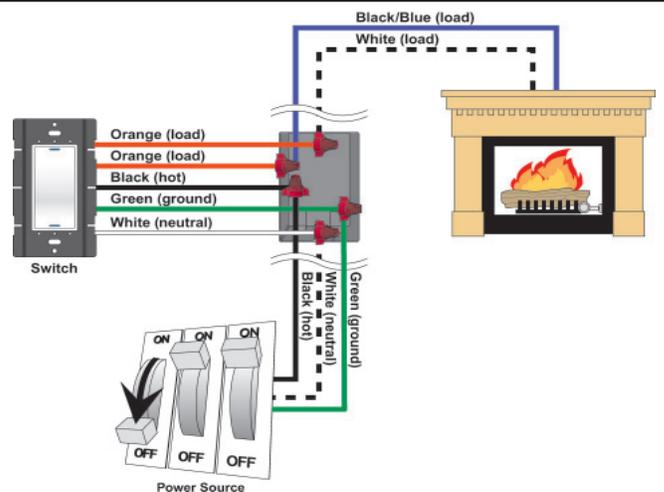| Operate Fireplace Switch	Expected behavior of RGB LEDs:	
To operate the Fireplace Switch:	*Top*	*Bottom*
Turn ON: Tap top.	Lit, full brightness	Not lit
Turn OFF: Tap bottom.	Not lit	Lit, full brightness
To operate the Fireplace Switch manually during a power outage:		
To turn on the Fireplace Switch:	*Top*	*Bottom*
Pull up on the **Manual Switch Mechanism** and fully extend (about 0.5") to close the switch to the fireplace.	Not lit	Not lit
Care and Cleaning		
Do NOT paint the Fireplace Switch or its wall plate.		
Do NOT use any chemical cleaners to clean the switch.		
Clean surface with a soft damp cloth as needed.		

Sample Wiring Configuration

WARNING! The following wiring diagram is for demonstration purposes only. Refer to your manufacturer's electronic module and gas valve instructions for correct wiring procedures. Improper installation of electronic devices can cause damage to the module, valve or remote receiver.

Single-Location Scenario—Power Source at Wall Box

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

To wire the Fireplace 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:

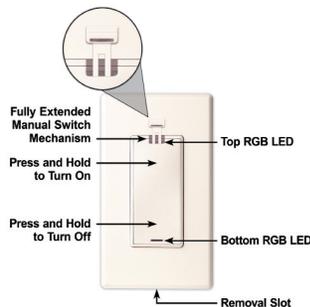| Fireplace Switch Wires	Wires in the Wall Box	
	From Power Source	*To Fireplace*
White (neutral)	White (neutral)	None
Orange (load)	None	White (load)
Orange (load)	None	Black (load)
Black (hot)	Black (hot)	None
Green (ground)	Green (ground)	Green (ground-optional)

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 table.

In case there is a power outage, the Wireless Fireplace Switch is equiped with a manual switching mechanism. To close the Fireplace Switch, pull up on the Manual Switch Mechanism with your fingernail.

Troubleshooting

If the fireplace does not turn on:

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

Limited 2-Year Warranty

Regulatory Compliance

FCC

FCC ID: R33C4FS1Z

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: 3129831

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

3129831

Industry Canada

IC : 7848A-C4FS1Z

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.

Protected under U.S. Patents 7,335,845, 7,106,261 and licensed under U.S. Patents 5,905,442 and 5,982,103

About this Document

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