# 48V Wireless Keypad Power Supply

## Installation Guide

## Introduction

The 48V Wireless Keypad Power Supply enables Control4 wireless keypads—typically used with standard 110V or 240VAC power—to be powered using Class 2 low-voltage power. Multiple keypads can be powered over common low-voltage wiring, such as 16/2 or CAT5e Ethernet cable.

### Box contents

- 48V Wireless Keypad Power Supply

### Supported keypads

The Control4® 48V Wireless Keypad Power Supply can power the following keypad models:

- C4-KC240 240V Wireless Configurable Keypad
- C4-KC120277 120-277V Wireless Configurable Keypad
- C4-SKC-N Square Wireless Configurable Keypad
- C4-KP2-Z Wireless 2-Button Keypad
- C4-KP3-Z Wireless 3-Button Keypad
- C4-KP6-Z Wireless 6-Button Keypad
- LSZ-3W1-240 240V 2-Button Keypad
- KPZ-3B1-240 240V 3-Button Keypad
- KPZ-6B1-240 240V 6-Button Keypad

## Specifications

| | |
|---|---|
| Model number | C4-KPS48-BL |
| AC input | 100-240VAC 50/60 Hz, 1.4A |
| DC output | 48VDC, 2.5A (120W) max |
| **Wiring requirements** | |
| Minimum conductor gauge | 18 AWG (1.0 $mm^2$)<br>Note: When using Category cable, combine all four solid color wires into one strand and all four striped wires into a second strand. |
| Maximum cable run length | 1,000 ft (300 m), summed for all keypads per power supply |
| Maximum number of keypads | 20 per power supply |
| **Environmental** | |
| Operational temperature | 32°F - 104°F (0°C - 40°C) |
| Humidity | 5% - 95% non-condensing |
| Storage | -4°F - 158°F (-20°C - 70°C) |
| **Miscellaneous** | |
| Dimensions | 6.5 × 2.5 × 1.4 in (165 × 64 × 36 mm) |
| AC input cable | IEC C13 |

## Installing the power supply

1. Ensure that the location and intended use meet the following criteria:
   - Install in accordance with all national and local electrical codes.
   - NEC Code dictates that Class 1 (high voltage) and Class 2 (low voltage) powered devices cannot be installed together in the same junction box. There are some exceptions if this type of installation is required. Refer to the current NEC documentation for additional information or consult your building inspector.

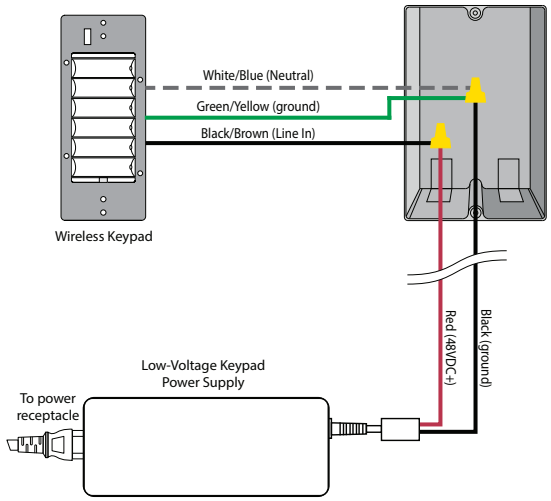
   ⚠ **Important!** Ensure the power supply is not plugged into a live AC power outlet until all wiring connections have been made between the power supply and the wireless keypads.
2. Connect the positive (+) and ground (-) leads from the power supply to the appropriate leads on the multi-button keypads (either directly or over an appropriate low voltage cable).
3. Connect the red 48VDC (+) lead from the power supply output to the **Line In** (black or brown) lead/terminal of the keypad.

4 Connect the black 48VDC (ground) lead/terminal from the power supply output to the **Neutral** (white or blue) and **Earth Ground** (green/yellow) lead/terminal of the keypad.

**Tip:** Wiring connections should be secured using conventional wire nuts or terminal blocks.

| Keypad connection | Power supply output wire leads |
|---|---|
| Line In (black or brown) | Red (48V+ positive) |
| Neutral (white or blue) | Black (ground) |
| Earth Ground (green/yellow) | Black (ground) |

*Figure 1: Wiring—Single keypad option*




5 Connecting multiple keypads to a single power supply can be achieved by following either of the wiring diagrams shown below:

*Figure 2: Wiring—Multiple keypads, option A*

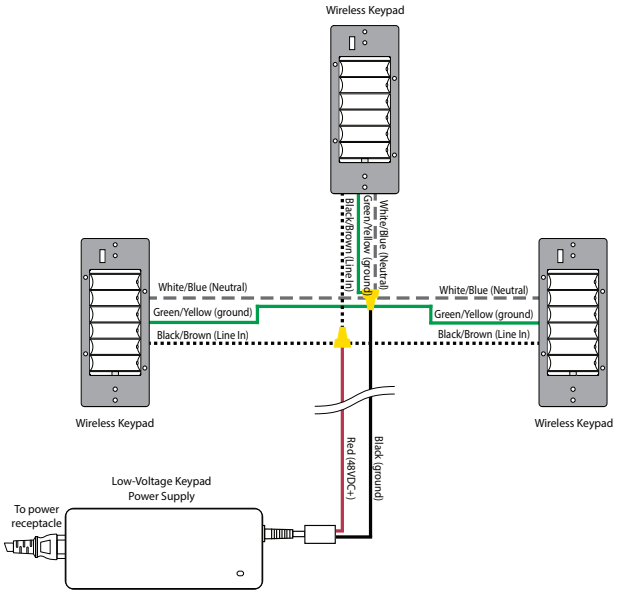
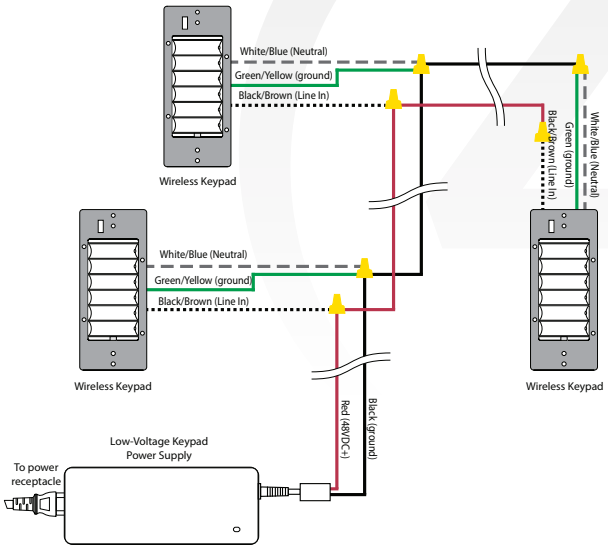



*Figure 3: Wiring—Multiple keypads option B*




6 Plug in the power supply to power on the keypads.

7 Follow the standard procedure for configuring each type of keypad in a project using Composer Pro.

## Additional resources

**The following resources are available for additional support:**

- Control4 Knowledgebase and forums
- Control4 Technical Support
- Control4 website: **www.control4.com**
- Composer documentation available at **ctrl4.co/docs**.

For the latest version of this document, open this URL or scan the QR code on a device that can view PDFs.

### Regulatory/Safety information

To review Regulatory information for your particular Control4 products, see the information located on the Control4 website at **ctrl4.co/reg**.

### Patent information

Applicable patents are available at **ctrl4.co/patents**.

### Warranty

Visit **ctrl4.co/warranty** for details.

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