

Terminal Block Installation Guide

Supported Models

- C4-DIN-TB-8DIM 8-Channel Dimmer Terminal Block
- C4-DIN-TB-8REL 8-Channel Relay Terminal Block
- C4-DIN-TB-PO Ethernet Switch/O-10V Dimmer Terminal Block

Introduction

The Control4® Terminal Blocks mount in a Control4 panelized backbox (C4-DIN-5PAN or C4-DIN-2PAN) and are used to terminate the field wiring (Line, Neutral, and Load) for each circuit. Each module type (8-Channel Dimmer, 8-Channel Relay, 8-Channel 0-10V Dimmer, or 8-Port Ethernet Switch) has a specific matching terminal block that provides the appropriate connections for that module type. The terminal block is sold separately from the module to allow the termination of all field wiring during the rough-in phase. The module can then be installed and wired to the terminal block during the trim-out phase.

Box Contents

- Terminal Block (for Dimmer, Ethernet Switch, or Relay modules)
- Two (2) screws (10-32 x .375", Phillips pan head)
- Warranty Card
- Terminal Block Wiring Diagram
- Terminal Block Installation Guide* (this document)

Warnings and Considerations

- WARNING!** This device and the lighting devices installed with this device are modular and require installation by a licensed electrician 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!** Remove power to all circuits entering the panel before installing the Terminal Blocks by locking all appropriate circuit breakers in the OFF position..
- IMPORTANT!** 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 "Troubleshooting."
- IMPORTANT!** Changes or modifications not expressly approved by Control4 could void the user's authority to operate the equipment.

Control4 Supported Devices

- 8-Channel Dimmer (C4-DIN-8DIM-E)
- 8-Port Ethernet Switch (C4-DIN-8ESW-E)
- 8-Channel Relay (C4-DIN-8REL-E)
- 8-Channel 0-10V Dimmer (C4-DIN-8TV-E)
- 5-Slot or 2-Slot Panels (C4-DIN-5PAN, C4-DIN-2PAN)

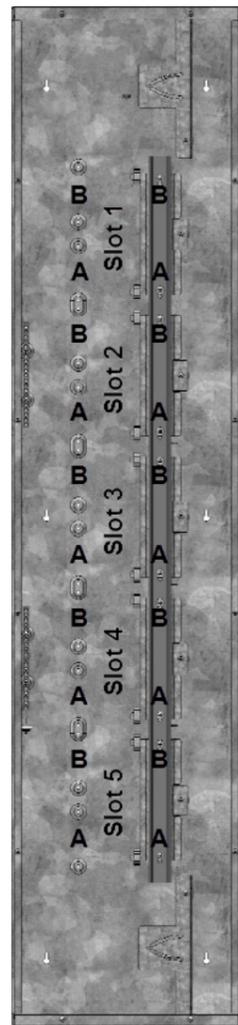
Pre-Installation

Before you install any Terminal Block devices into a Control4 panel (C4-DIN-5PAN or C4-DIN-2PAN), install the panel. See the *5-Slot and 2-Slot Panels Installation Guide* for details.

Installation

- Ensure that the location and intended use meet the following criteria:
 - Each Terminal Block is specific to the type of device that it's connecting to (8-Channel Dimmer, 8-Channel Relay, 8-Channel 0-10V Dimmer, or 8-Port Ethernet Switch module).
 - Install the Terminal Blocks on the left side of the panel adjacent to the module you plan to install (see Figure 1). The location of each Terminal Block within the panel is defined by the panel report from Composer Pro.

Figure 1. Location of Terminal Blocks in Panel



WARNING! Disconnect the power before installing these devices.

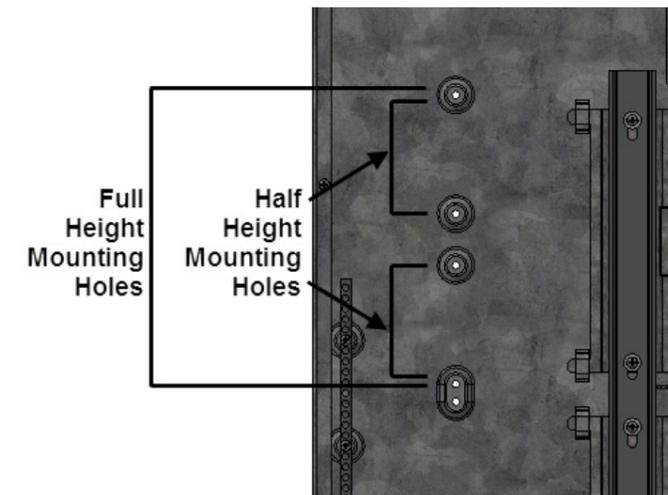
- Switch off the power at the circuit breaker for all circuits entering the panel before starting any installation or maintenance.
- Prepare the panel's back box (see the *5-Slot and 2-Slot Panels Installation Guide* for details).

- Position the Terminal Blocks (with rail) vertically on the left side of the panel's backbox so that the screw holes on the Terminal Blocks line up with the screw holes on the backbox (see Figure 2).

The 8-Channel Dimmer Terminal Blocks and 8-Channel Relay Terminal Blocks should be oriented with the red terminals at the top. The Ethernet Switch/O-10V Dimmer Terminal Blocks should be oriented with the blue terminals at the top.

NOTE: The Control4 panels are designed to accommodate "full-length" and "half-length" Terminal Block rails. Each slot on the module rail has corresponding standoffs to mount a single full-length Terminal Block rail or two (2) half-length Terminal Block rails. The Terminal Blocks for the 8-Channel Dimmer and 8-Channel Relay are full-length, while the Terminal Block for the Ethernet Switch or 0-10V Dimmer is half-length. The Terminal Block for the Ethernet Switch should always be mounted in the top half of its slot while the Terminal Block for the 8-Channel 0-10V Dimmer should always be mounted in the bottom half of its slot.

Figure 2. Position the Terminal Blocks



- Screw each Terminal Block's rail into the panel's backbox using the socket screws (provided). See Figure 3.

Wiring

- Run the appropriate wires into the panel (see the *5-Slot and 2-Slot Panels Installation Guide*). Use copper conductors only.

NOTE: Each Terminal can accommodate a single 22-12AWG wire.

- Strip each wire 0.35 inches (9 mm) before you insert the wire into the terminal.
- Connect the individual Line, Neutral, Load, and Override switch wires to each Terminal Block following the wiring diagrams (see the *Terminal Block Wiring Guide*) and the reports from Composer. Additionally, connect one (1) ground wire from the ground bar in the panel to the green terminal segment in the terminal block.

IMPORTANT! Label each wire you install as you wire each Terminal Block.

- Tighten each Terminal Block screw to 7 lb-inch (0.8Nm).
- After wiring all of the Terminal Blocks in a panel, test the wiring by turning on each of the associated circuit breakers. Check that power is delivered to all the appropriate loads.

IMPORTANT! If a circuit breaker trips, this indicates a fault in the wiring which must be fixed before installing the module.

NOTE: Bypass jumpers are pre-installed in a number of locations on the 8-Channel Dimmer and 8-Channel Relay Terminal Blocks. These bypass jumpers short all of the individual terminals in the jumpered section together. The jumpers in the Red and Black sections short Line to Load allowing the loads to be powered simply by turning on the circuit breaker.

- Follow the instructions in the specific module's installation guide to connect the Terminal Block to the module.
- Once the modules have been installed, remove only the bypass jumpers that short Line to Load (Red and Black sections only) by loosening each screw in the jumper until the entire jumper can be pulled out of the Terminal Block assembly. Do not remove the bypass jumpers in any white terminals.

Wiring Diagrams

The Terminal Block wiring diagrams for the 8-Port Ethernet Switch, 8-Channel Dimmer, 8-Channel 0-10V Dimmer, and 8-Channel Relay are shown in the *Terminal Block Wiring Guide*.

Regulatory/Safety Information

To review regulatory information for your particular Control4 products, see the information located on the Control4 website at: <http://www.control4.com/regulatory/>.

Warranty

For complete warranty information, including details on consumer legal rights as well as warranty exclusions, review the Warranty card or visit www.control4.com/warranty.

About this Document

Part Number: 200-00242 Rev A 06/14/2012