8-Port Ethernet Switch Installation Guide

Supported Model

- C4-DIN-8ESW-E   8-Port Ethernet Switch (DIN Rail)

Introduction

The Control4® 8-Port Ethernet Switch is part of the Control4 Panelized Lighting System. It installs in the Control4 5-Slot or 2-Slot Panel or in any standard DIN rail panel with 35mm rails. The Ethernet Switch is a standard 8-port 10/100 switch that allows a single Ethernet CAT5e cable to be pulled into the panel, and then distributed to up to seven (7) other Control4 panelized lighting devices in the panel.

Box Contents

- 8-Port Ethernet Switch
- Warranty Card
- **8-Port Ethernet Switch Installation Guide** (this document)
- *8-Port Ethernet Switch Wiring Guide*

Warnings and Considerations

⚠️ WARNING! Improper use or installation can cause SERIOUS INJURY, DEATH or LOSS/DAMAGE OF PROPERTY.
ATTENTION! Une mauvaise utilisation ou installation peut entraîner des blessures graves, décès ou perte / dommages à la propriété.

⚠️ WARNING! This device must be protected by a circuit breaker (20A max).
ATTENTION! Cet appareil doit étre protègè par un disjoncteur (20A max.)

⚠️ WARNING! Ensure that all circuit breakers feeding into the panel are OFF before installing or servicing the devices.
ATTENTION! Assurez-vous que tous les disjoncteurs d'alimentation dans le panneau sont éteints avant d'installer ou de réparer l'appareil.

✅ 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.

✅ IMPORTANT! The Ethernet Switch should be installed by a licensed electrician in accordance with all national and local electrical codes.
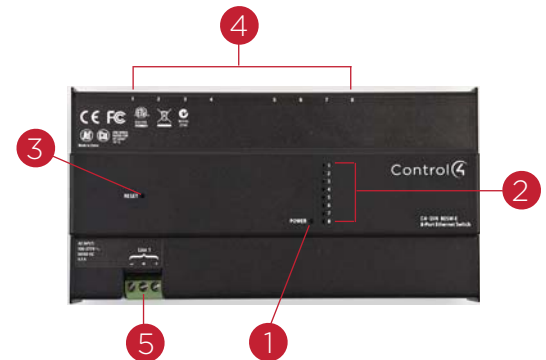
Requirements and Specifications

Prior to installing this product, ensure that the Control4 5-Slot or 2-Slot Panel or that the cabinet to house the switch has been installed.

The 8-Port Ethernet Switch specifications include:

Power	110V-277VAc, 50/60 Hz
Operating Temperature	32˚F to 104˚F (0˚C to 40˚C)
Power Consumption	2W
Communications	10/100 Ethernet
Connectors	Three (3) Screw Terminals (Line, Neutral, Ground), one (1) 26AWG to 12AWG (.12 - 4mm^2) per terminal Eight (8) RJ-45 Ethernet
Humidity	5% - 95% Non-condensing
Storage	-4˚ F - 158˚ F (-20˚ C - 70˚ C)
Dimensions (HxWxD)	8.5" x 4.3" x 2.3" (215 mm x 109 mm x 57 mm)
DIN Module Width	12M
Weight	2.3 lbs. (1.04 kg)
Shipping Weight	2.8 lbs. (1.27 kg)

Front View

Figure 1. Front View

1   Power LED
2   Link/Activity LEDs
3   Reset button
4   Ethernet RJ-45 Connectors
5   Line Voltage Connector

Pre-Installation Instructions

Before You Install in a Control4 Panel

1   Use Composer Pro to add the 8-Port Ethernet Switch to a project, define its location in a panel, and print the panel report. See the *Composer Pro User Guide* for details.

2   Install the panel following the instructions in the *5-Slot and 2-Slot Panel Installation Guide*.

3   Install and wire the Terminal Block for the 8-Port Ethernet Switch following the instructions in the *Terminal Block Installation Guide* and in the location defined by the Composer Pro panel reports.

Before You Install in a Third-Party DIN Rail Panel

1   Install the third-party panel according to the third-party instructions.

NOTE: Third-party panels do not require a Terminal Block.

Installation Instructions
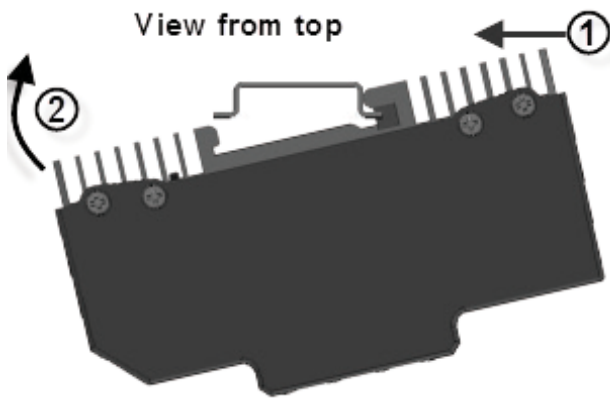
Install in a Control4 Panel

1   The 8-Port Ethernet Switch should be installed in the panel next to the 8-Port Ethernet Switch Terminal Block.

2   With the green screw terminals on the left side of the 8-Port Ethernet Switch, hold the switch upright and angle it to the right so that the right side of the module fits onto the rail in the panel.

NOTE: The 8-Port Ethernet Switch installs with the Line Voltage Connector on the left side and the Ethernet ports on the right side. While not required, the 8-Port Ethernet Switch should be installed in the bottom slot of the panel.

3   With the right side already in place, push forward on the left side of the 8-Port Ethernet Switch to snap it onto the rail (see Figure 2).

Figure 2. Snap on the Ethernet Switch - Control4 Panels

NOTE: To remove the module, push the module toward the left side, pull out from the left side., and remove it from the right side.

4   On the left side of the 8-Port Ethernet Switch, connect the Line, Neutral and Ground wires from the Terminal Block to the screw terminals on the module (see the *8-Port Ethernet Switch Wiring Guide* for details).

IMPORTANT! All wires between the Terminal Block and the Ethernet Switch must use the same gauge wire as the field wiring connected to the Terminal Block.

NOTE: Wiring between the Terminal Blocks and the module will be easiest when stranded wire is used.

- At the terminal block side, strip the wires 0.35 in. (9mm) and tighten to 7 in-lb (0.8Nm).
- At the module side, strip the wires 0.3 in. (7mm) and tighten to 5.3 in-lb (0.6Nm).

5   On the right side of the 8-Port Ethernet Switch, connect the incoming Ethernet CAT5 cable to an RJ-45 port.

6   Install the other modules in the panel as defined in the reports from Composer Pro. See the *8-Channel Dimmer Installation Guide*, *8-Channel Relay Installation Guide*, or the *8-Channel 0-10V Dimmer Installation Guide* for details.

7   Connect CAT5 patch cables from the Ethernet Switch to the other modules in the cabinet.

8   Turn the circuit breakers back ON and test the devices.
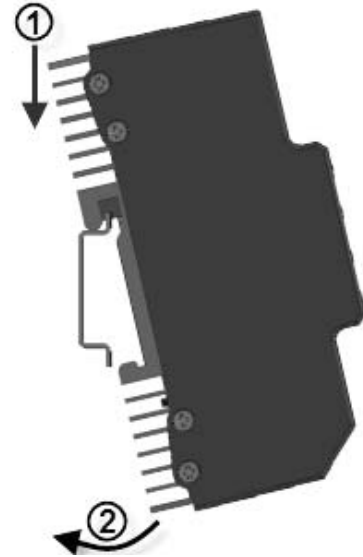
Install in a Third-Party Panel

1   With the green screw terminals pointing downward, hold the switch lengthwise and angle it up so that the top side of the module fits onto the rail in the panel.

NOTE: The 8-Port Ethernet Switch installs with the Line Voltage Connector on the bottom and the Ethernet ports on the top.

2   With the top side seated in the rail, rotate the 8-Port Ethernet Switch down to snap it onto the rail (see Figure 3).

Figure 3. Snap on the Ethernet Switch - Third-Party Panels

NOTE: To remove the module, push the module toward the bottom, rotate the module up, and lift it off.

3   Connect the Line, Neutral and Ground wires to the screw terminals on the module (see the wiring diagrams in the *8-Port Ethernet Switch Wiring Guide*).

Strip the wires 0.3 in. (7mm) and tighten to 5.3 in-lb (0.6Nm).

4   On the top of the 8-Port Ethernet Switch, connect the incoming Ethernet CAT5 cable to an RJ-45 port.

5   Install the other modules in the panel. See the *8-Channel Dimmer Installation Guide*, *8-Channel Relay Installation Guide,* or *8-Channel 0-10V Dimmer Installation Guide* for details.

6   Connect the CAT5 patch cables from the 8-Port Ethernet Switch to the other modules in the panel.

7   Turn the circuit breakers back ON and test the devices.

Operation

The recessed Reset button on the front of the module (see Figure 1) can be used to reboot the Ethernet switch without removing power. Use a paper clip or similar device to access the Reset button.

LED Indicators

The indicator lights on the front of the 8-Port Ethernet Switch communicate the status of the device.

Indicator	Color	Status
Power	Blue	On
	Black	Off
Link/Activity	Green	Link
	Orange	Activity
	Black	None

Additional Information

To install the Terminal Block, 8-Channel Dimmers, 8-Channel Relays, 8-Channel 0-10V Dimmers, or 5-Slot or 2-Slot Panels, see the following documentation (included in the box with the device or onine in the Dealer product pages):

- *8-Channel Relay Installation Guide* (*8-Channel Relay Wiring Guide* also available)
- *8-Channel Dimmer Installation Guide* (*8-Channel Dimmer Wiring Guide* also available)
- *8-Channel 0-10V Dimmer Installation Guide* (*8-Channel 0-10V Dimmer Wiring Guide* also available)
- *5-Slot and 2-Slot Panels Installation Guide*
- *Terminal Block Installation Guide* (*Terminal Block Wiring Guide* also available)

Regulatory/Safety Compliance

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: 200-00208 Rev. B 3/04/2013

Wiring Diagrams

The wiring diagrams for the Control4 panels and third-party panels are available in the *8-Port Ethernet Switch Wiring Guide*.