



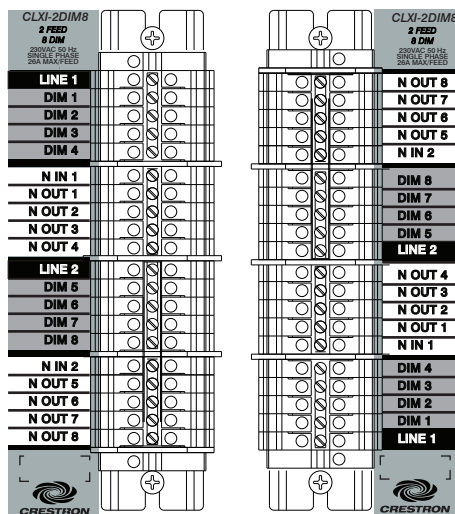
Description

The Crestron® 2-feed, 8-dimmer terminal block (CLTI-2DIM8) and module (CLXI-2DIM8) are a single entity and must be used together. They ship separately so that the terminal block wiring can be accomplished before module installation. The terminal block is designed to terminate the circuit feed (line and neutral) and distribute the controlled circuit (load) to the fixtures. The module connects to the terminal block and performs dimming control of eight incandescent, magnetic low voltage, neon/cold cathode, or dimmable 2-wire fluorescent lighting loads.

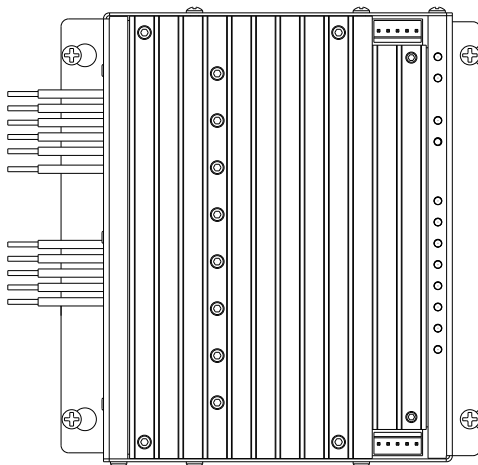
The maximum load for the CLXI-2DIM8 is 10 A for any single circuit, or 13 A for each group of four circuits, and 26 A maximum total per module. The CLXI-2DIM8 accepts two 16 A feeds that must be the same phase or split phase. The unit requires 230 Vac 50 Hz, 1-phase input voltage.

An oversized heat sink dissipates heat efficiently. There are LEDs on the module to indicate communication with a Cresnet® network, input power to the module, and output power to the load.

The CLTI-2DIM8 terminal and CLXI-2DIM8 module are shown in the following illustrations. CLTI-2DIM8 Terminal Block with Left- and Right-Side CLXI-2DIM8 Wiring Labels



CLXI-2DIM8 Module (Connects to a CLTI-2DIM8)



Additional Resources

Visit the product page on the Crestron website (www.crestron.com) for additional information and the latest firmware updates. Use a QR reader application on your mobile device to scan the QR image.



CLTI-2DIM8



CLXI-2DIM8

Installation

NOTE: Before using the CLXI-2DIM8, ensure the device is using the latest firmware. Check for the latest firmware for the CLXI-2DIM8 at www.crestron.com/firmware. Firmware is loaded onto the device using Crestron Toolbox™ software.

The terminal block and module must be mounted into a Crestron Automation Enclosure by a licensed electrician and in accordance with all national and local codes.

CAUTION: This equipment is for indoor use only and needs to be air cooled. Mount it in a well-ventilated area. The ambient temperature must be 0° to 40° C (32° to 104° F). The relative humidity must be 0% to 90% (noncondensing).

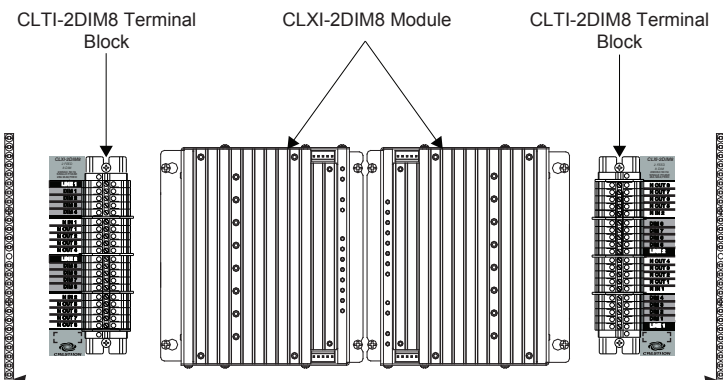
NOTE: The two input lines must be the same phase or split phase.

NOTE: When connecting to an arc fault breaker, ensure that the load does not exceed 1,000 watts total.

Terminal blocks are installed along the left side of single-wide enclosures and along the outside edges (left and right sides) of double-wide enclosures. Modules are installed along the right side of single-wide enclosures and side-by-side in the center of double-wide enclosures. When installing modules and terminal blocks in a double-wide enclosure, be sure to invert the units on the right side so that they can be properly wired. Refer to the illustrations that follow when considering the location of terminal blocks and modules within an enclosure.

NOTE: Modules and terminal blocks must be installed into the lowest available spaces and continue toward the top of the enclosure.

Terminal Block and Module Layout for a Double-Wide Enclosure



Terminal Block Installation and Field Wiring

Apply the supplied adhesive label before installing the terminal block. The adhesive label provides the labeling for each terminal in the terminal block and is designed to accommodate installation into the left or right side of a cabinet.

NOTE: To install a CLTIBN Circuit Breaker Terminal Block, refer to the CLTIBN Installation Guide (Doc. 6561) at www.crestron.com/manuals for details.

NOTE: Both left-side and right-side adhesive wiring labels are provided. The left-side labels are used in both single- and double-wide enclosures. The right-side labels are used only in double-wide enclosures.

1. Remove the backing from the left- or right-side adhesive wiring label.
2. Apply the adhesive label by aligning the holes in the label with the holes on the Crestron Automation Enclosure where the terminal block is to be mounted. The wiring label lies beneath the terminal block as shown in the following diagrams.
3. Use the two supplied 8B x 6 mm (1/4 in) length self-tapping Phillips pan head screws to secure the terminal block to the Crestron Automation Enclosure.

CAUTION: Bypass jumpers are provided to test circuits and to protect the module during installation. When properly secured by five screws, each of the two jumpers on the brown and red sections of the terminal block shorts the line in to dim out so that the circuit is energized. Do not remove any bypass jumpers until all feed and load wiring has been completed, the circuit has been tested for electrical faults, and the module has been installed. Refer to "Module Installation."

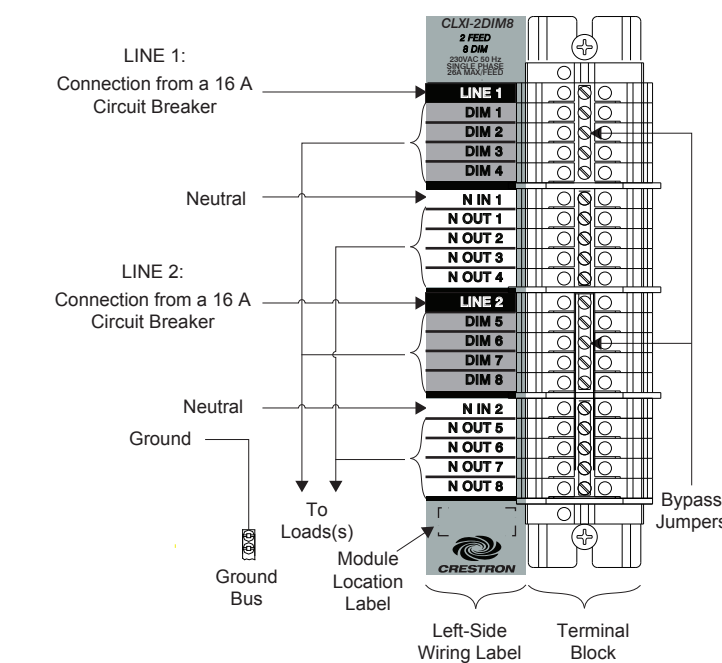
Furthermore, the two jumpers on the blue sections of the terminal block tie the neutral ins to the neutral outs. These jumpers should never be removed.

NOTE: Use copper conductors only—rated 75° C or greater.

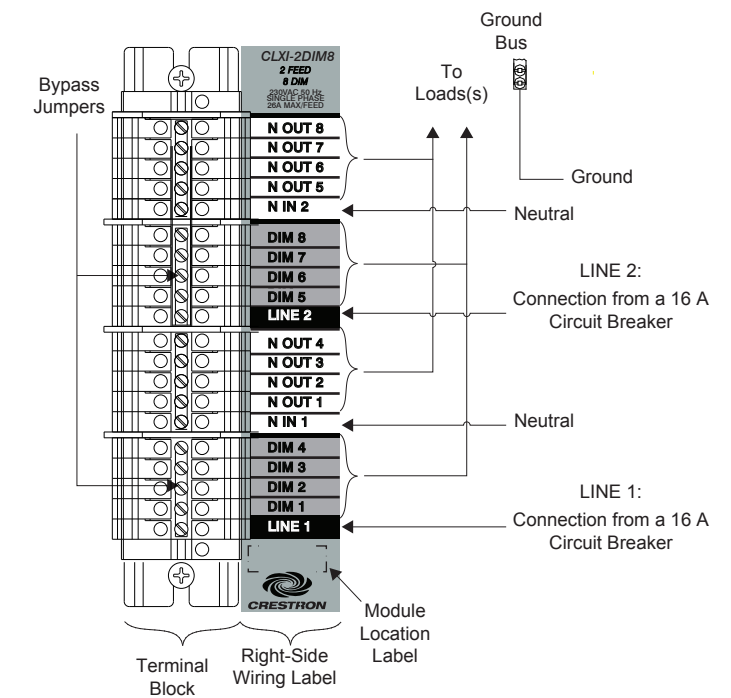
4. Turn off the circuit breakers.
5. Connect the circuit feed (line and neutral) and controlled circuit (load) wires to the terminal block per the markings provided on the wiring label (as shown in the following diagrams). Terminal blocks accept one 2.5–6 mm² wire. Strip the wires to 12 mm (1/2 in). Tighten terminal blocks to 1 Nm.
6. Terminate the ground wires at the grounding terminal blocks that are available in the cabinet. Tighten the grounding terminal blocks to 4 Nm (2.5–6 mm²), 4.5 Nm (10 mm²), or 5.1 Nm (16–25 mm²).
7. Test each circuit for electrical faults by turning on each of the circuit breakers and checking that the breakers do not trip and that power is delivered to the proper loads.

NOTE: If installing in a CAENIB, complete the installation with a CAENIB-BP Blank Plate. Refer to the CAENIB (Doc. 6563) for details.

Wiring the Terminal Block to the Feed and Load(s)
(Single-Wide and Left-Side Double-Wide Enclosures)



Wiring the Terminal Block to the Feed and Load(s) (Right-Side Double-Wide Enclosures)



Module Installation

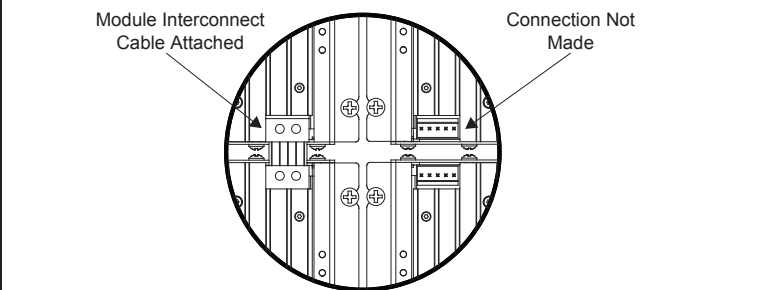
CAUTION: The module contains electrostatic sensitive devices (ESDs). The unit must be handled from the metal chassis. Do not touch the PC board or components.

Install the modules after the terminal blocks are installed and the enclosure has been completely wired.

1. Use the four supplied 8B x 6 mm (1/4 in) length self-tapping Phillips pan head screws to secure the module to the enclosure.
2. As shown in the wiring diagrams on the next page, connect the wires from the module to the terminal block. Each wire exits the module directly in line with, and is the same color as, the terminal to which it should be connected. Wires are prestripped to 13 mm (1/2 in). Tighten to 1 Nm.
3. If the module is being installed above another module within the enclosure, attach the supplied module interconnect cable to the two modules. The illustration that follows shows the area within a double-wide enclosure where the corners of four modules meet.

NOTE: One wire on the module interconnect cable may be a different color from the rest. The color has no bearing on its orientation during installation.

Use Module Interconnect Cable to Wire One Module to Another

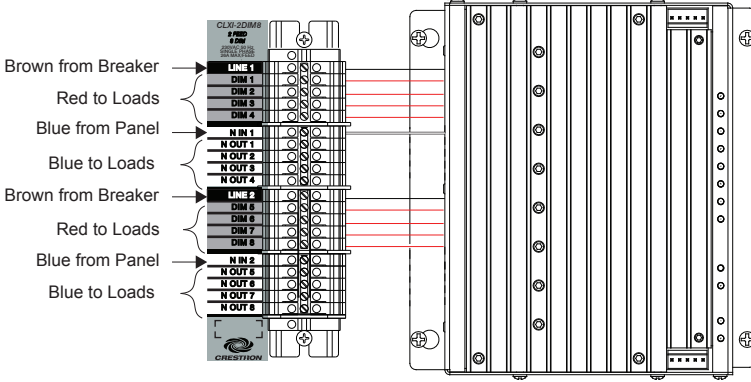


4. Turn on the circuit breakers and verify that the green PWR LED on the module lights, the breakers do not trip, and power is delivered to the loads.
5. Turn off the circuit breakers.

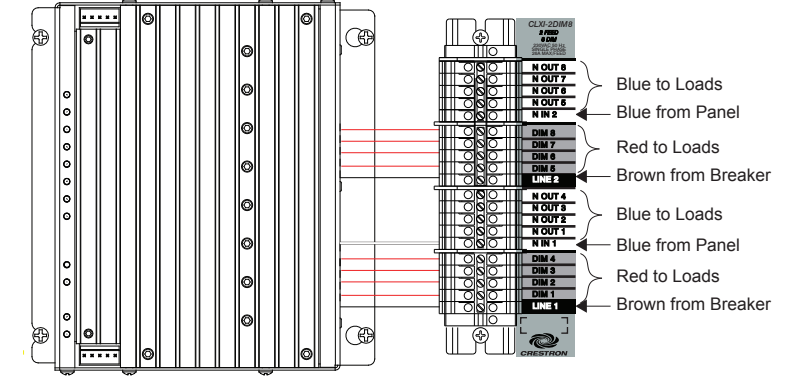
NOTE: Before the bypass jumpers are removed, the control system that provides functionality to the system should be properly connected and programmed.

6. Remove the bypass jumpers on the brown and red sections of the terminal block. The jumpers on the blue sections of the terminal block must remain installed. Refer to the figures that follow for reference.

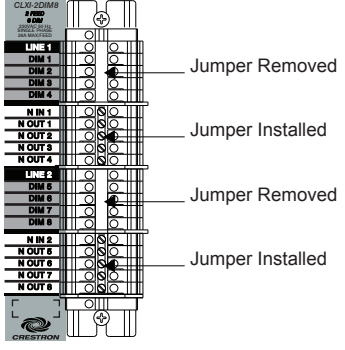
Wiring the Terminal Block to the Module (Single-Wide and Left-Side Double-Wide Enclosures)



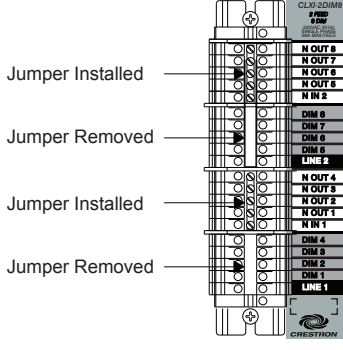
Wiring the Terminal Block to the Module (Right-Side Double-Wide Enclosures)



Remove the Line Jumpers after Testing (Left-Side Mounted CLTI-2DIM8 Shown)



Remove the Line Jumpers after Testing (Right-Side Mounted CLTI-2DIM8 Shown)



7. Turn on the circuit breakers.

NOTE: Power must be supplied to LINE 1 for the module to communicate with the control system or for any of the circuits to operate.

8. If the program is not running yet, loads can be tested by using Local mode.

Test the Loads

If the control system program is not running yet, use Local mode to test that each load is operating and connected to the proper output on the module.

1. Press the **SETUP** button momentarily (less than three seconds) to enter Local mode. The SETUP LED and output LED 1 illuminate. Power is applied to the devices connected to output 1.
2. Press the **SETUP** button again to turn off output 1 and turn on output 2.
3. Press the **SETUP** button again to test each of the remaining outputs.
4. After testing the last output, press the **SETUP** button again to turn on all outputs.
5. Press the **SETUP** button once more to turn off all outputs and LEDs and exit Local mode.

As of the date of manufacture, the device has been tested and found to comply with specifications for CE marking.



The product warranty can be found at www.crestron.com/warranty.
 The specific patents that cover Crestron products are listed at patents.crestron.com.
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Crestron Electronics, Inc.
 15 Volvo Drive Rockleigh, NJ 07647
 Tel: 888.CRESTRON
 Fax: 201.767.7576
www.crestron.com

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