



Description

The Crestron® CAEN Series of automation enclosures are designed to house Crestron lighting shade control devices. CAEN enclosures are available in an assortment of sizes, suitable for surface or flush wall-mount installation. Each model has been engineered to provide a clean and manageable installation with abundant provisions for wire termination and electrical knockouts.

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.



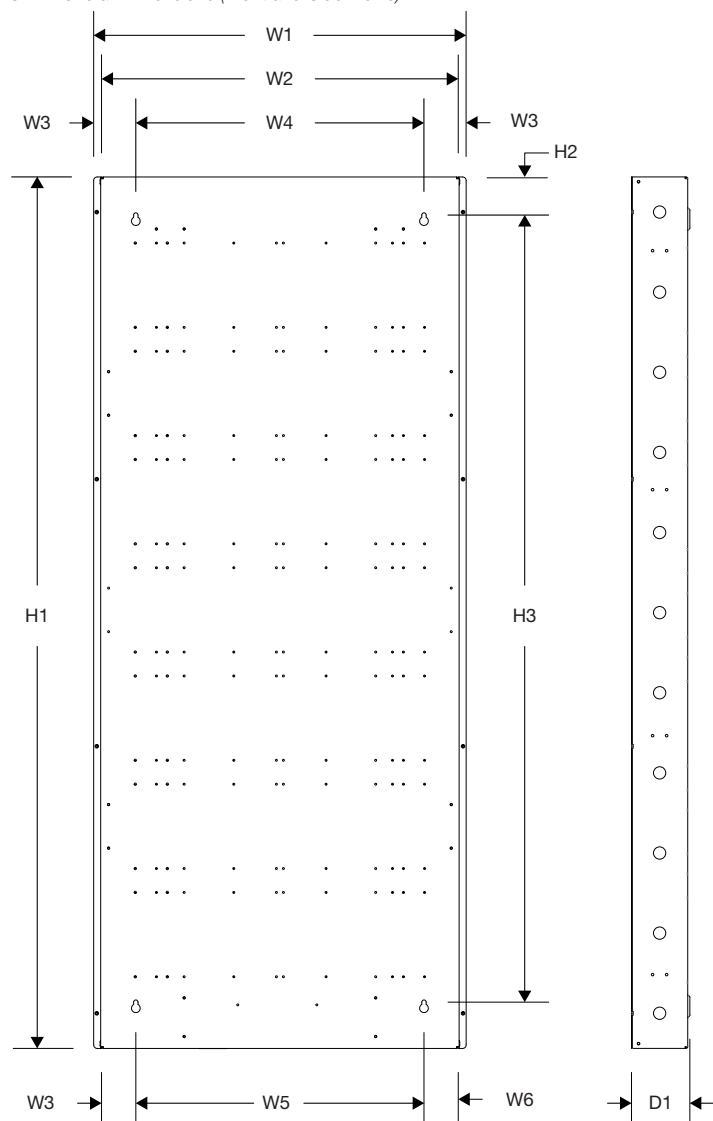
Dimensions

The overall dimensions for the CAEN enclosures are shown in the following illustration and table.

NOTE: The PAC2 occupies two module spaces in a double-wide enclosure and one module space in a single-wide.

NOTE: Four keyholes are located within the enclosure and should be used for surface mounting.

CAEN Overall Dimensions (Front and Side Views)



Dimensions

DIMENSIONS	CAEN-7X2	CAEN-7X1	CAEN-4X2	CAEN-4X1	CAEN-2x1	CAEN-1x1
H1	62 in (1575 mm)	62 in (1575 mm)	38-7/8 in (987 mm)	38-7/8 in (987 mm)	23-1/2 in (596 mm)	16-9/16 in (421 mm)
H2	2-11/16 in (69 mm)	2-11/16 in (69 mm)	2-11/16 in (69 mm)	2-1/8 in (53 mm)	2-1/8 in (53 mm)	2-1/8 in (53 mm)
H3	56 in (1422 mm)	56 in (1422 mm)	32-7/8 in (835 mm)	34 in (863 mm)	18-5/8 in (473 mm)	10-7/8 in (277 mm)
W1	26-1/2 in (673 mm)	15-3/8 in (390 mm)	26-1/2 in (673 mm)	15-3/8 in (390 mm)	15-3/8 in (390 mm)	15-3/8 in (390 mm)
W2	25-1/2 in (648 mm)	14-3/8 in (365 mm)	25-1/2 in (648 mm)	14-3/8 in (365 mm)	14-3/8 in (365 mm)	14-1/4 in (362 mm)
W3	2-1/2 in (64 mm)	1-3/4 in (45 mm)	2-1/2 in (64 mm)	1-3/4 in (45 mm)	1-3/4 in (45 mm)	1-11/16 in (43 mm)
W4	20-1/2 in (520 mm)	10-7/8 in (276 mm)	20-1/2 in (521 mm)	10-7/8 in (276 mm)	10-7/8 in (276 mm)	10-7/8 in (276 mm)
W5'	20-1/2 in (521 mm)	9-7/8 in (250 mm)	20-1/2 in (521 mm)	9-7/8 in (250 mm)	9-7/8 in (250 mm)	9-7/8 in (250 mm)
W6	2-1/2 in (64 mm)	2-3/4 in (69 mm)	2-1/2 in (64 mm)	2-3/4 in (69 mm)	2-3/4 in (69 mm)	2-3/4 in (69 mm)
D1	4-3/16 in (107 mm)	4-3/16 in (107 mm)	4-3/16 in (107 mm)	4-1/16 in (103 mm)	4-3/16 in (107 mm)	4-3/16 in (107 mm)
Cover Thickness	1/16 in (1 mm)	1/16 in (1 mm)	1/16 in (1 mm)	1/16 in (1 mm)	1/16 in (1 mm)	1/16 in (1 mm)
Cover Height	62-3/4 in (1593 mm)	62-3/4 in (1593 mm)	39-5/8 in (1006 mm)	39-5/8 in (1006 mm)	24-1/4 in (615 mm)	16-9/16 in (421 mm)
Cover Width	27-1/4 in (692 mm)	16-1/8 in (409 mm)	27-1/4 in (692 mm)	16-1/8 in (409 mm)	16-1/8 in (409 mm)	16-1/8 in (409 mm)
Weight (empty) ²	65 lb (29.5 kg)	42 lb (19.1 kg)	43 lb (19.5 kg)	28 lb (12.7 kg)	19 lb (8.6 kg)	14 lb (6 kg)
Maximum Weight (filled)	200 lb (90.8 kg)	100 lb (45.4 kg)	100 lb (45.4 kg)	55 lb (24.9 kg)	31 lb (14.1 kg)	26 lb (11.8 kg)

1. The lower keyholes are not symmetrically spaced within single-wide enclosures.
2. Weight (empty) is the weight of an empty enclosure with cover.

Installation

A licensed electrician must mount the enclosure in accordance with all national and local codes. Refer to the table for the weight of a fully loaded enclosure.

When choosing components to place in the enclosure, refer to the table to ensure that the maximum weight capacity is not exceeded. Each component's product page on the Crestron website lists the component's weight.

Use the screw holes shown in the "Mounting Details" diagrams to mount the CLT-series terminal blocks. Install shade control devices and accessories according to their installation guides.

CAUTION: These enclosures house equipment that needs to be air-cooled. Therefore, mount in a well-ventilated area. The ambient temperature range should be 32°F to 104°F (0°C to 40°C). The relative humidity should range from 10% to 90% (non-condensing). Furthermore, allow adequate clearance in front of the vented cover for servicing and ventilation.

NOTE: Unless otherwise indicated, the system specified in this guide is modular, requiring assembly in the field by a licensed electrician, in accordance with all national and local codes.

If a UL Listed panel is required, Crestron offers this service through its UL Listed panel shop. This includes complete in-factory system configuration and assembly by Crestron for an additional fee.

NOTE: Install components into the lowest available spaces and continue toward the top of the enclosure.

NOTE: Enclosures are intended for indoor use only.

NOTE: When flush mounting, 5/8 in (16 mm) drywall is preferred.

Wiring

Class 1 and Class 2 field wires must be kept separate. Refer to the following illustrations showing single-wide and double-wide wiring details. Areas for high-voltage (Class 1) wiring are shown along the top and side(s) of the unit. The lower area is reserved for low-voltage (Class 2) wiring.

CAUTION: All power feeds must be protected by 15- or 20-amp circuit breakers (not included).

NOTE: Use copper conductors only – rated 60°C.

NOTE: Install all wiring in accordance with all local and national electrical codes.

NOTE: Two snap bushings are supplied. If required, insert the bushings into the knockouts at the bottom of the enclosure to prevent damage to low-voltage wiring.

Tighten all CLT-series terminal block screws and grounding terminal block screws to the torque specified in the "Torque Data" table.

CAUTION: Failure to properly tighten the screws may result in poor electrical connection and overheating of the terminals.

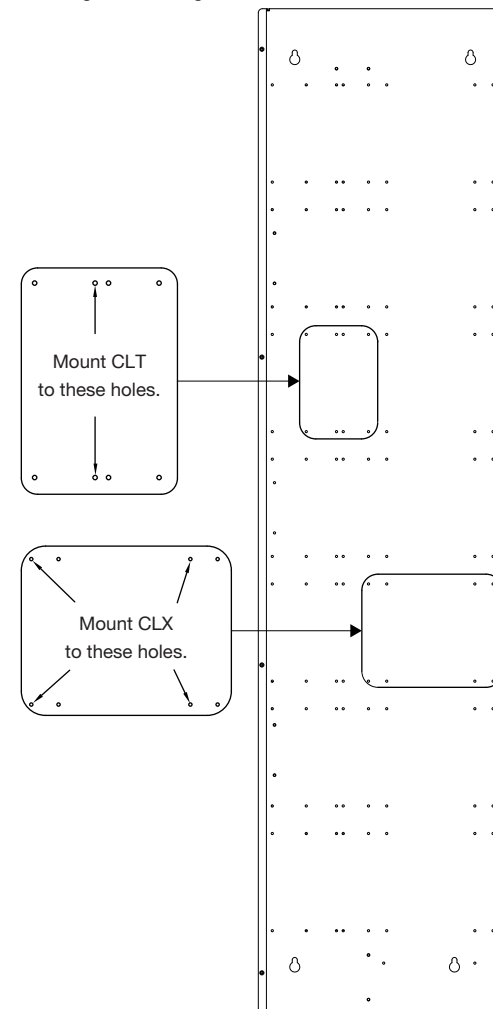
Torque Data

Wire Range	CLT TERMINAL BLOCKS	GROUNDING TERMINAL BLOCKS		
	22-10	14-10	8	6-4
Torque (in-lb)	9	35	40	45

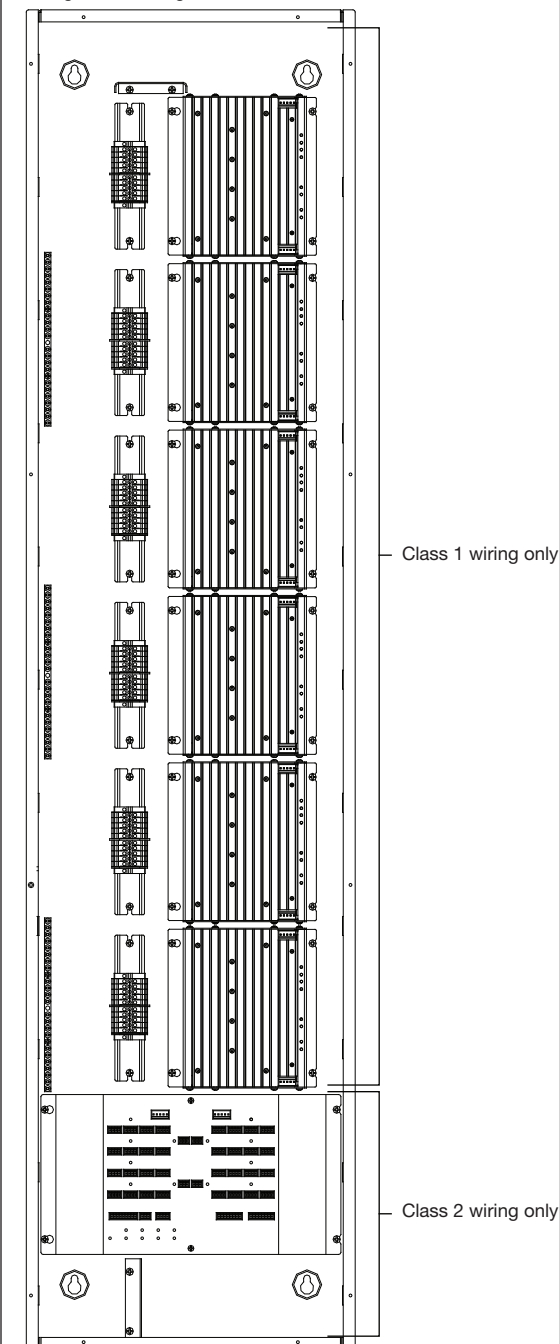
Below are typical products in a CAEN enclosure:

- CLX-series modules
- CLT-series terminal blocks
- CSA-PWS-TBLOCK-2 and CSA-PWS-TBLOCK-3 terminal block for shades
- CSA-PWS10S-HUB-ENET power supply for shades
- CAEN-BLOCK terminal block
- PAC2M processor
- Grounding terminal block

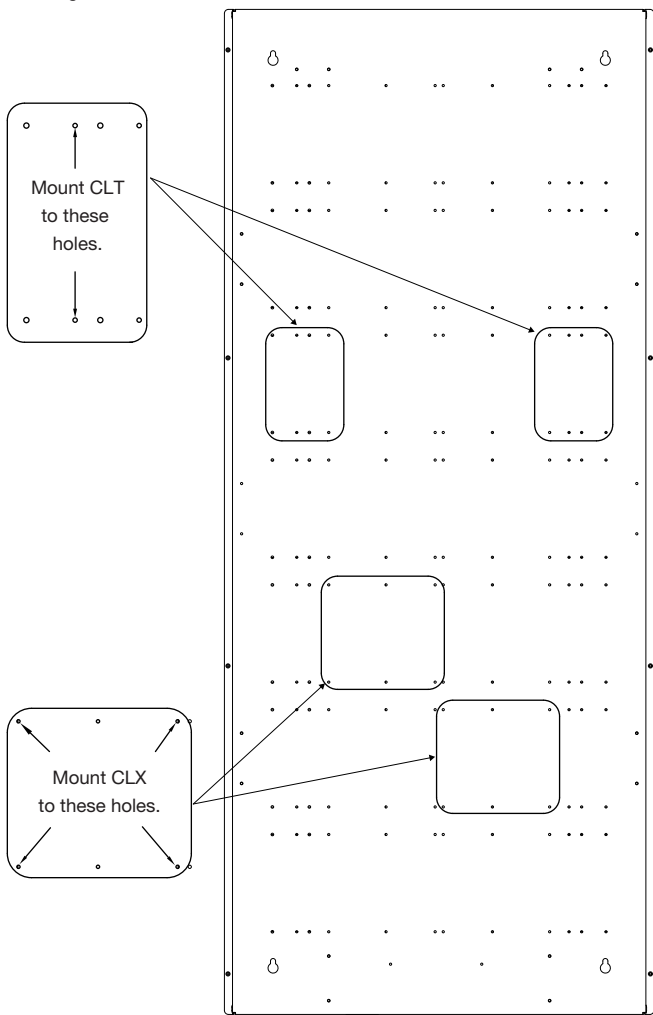
Mounting Details - Single-Wide CAEN



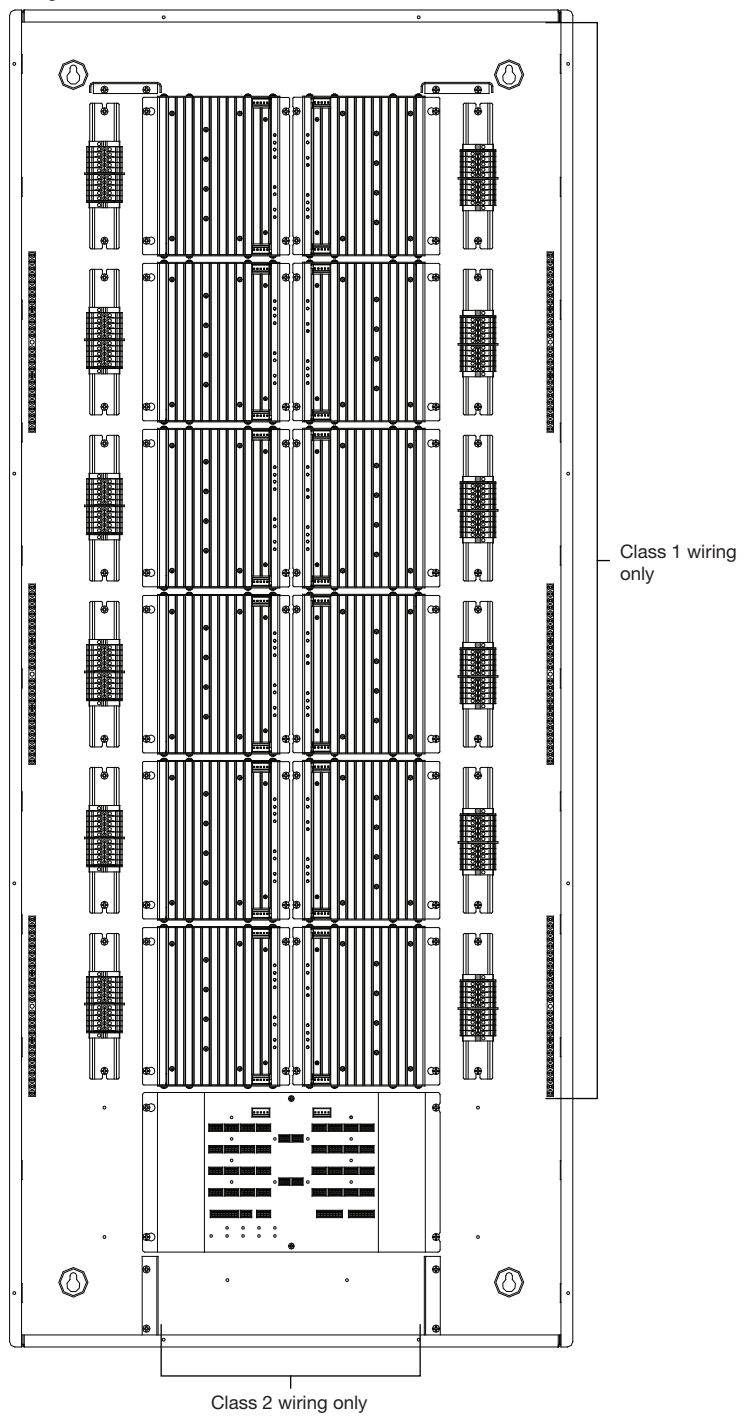
Wiring Details - Single-Wide CAEN




Mounting Details - Double-Wide CAEN



Wiring Details - Double-Wide CAEN



This product is Listed to applicable UL® Standards and requirements tested by Underwriters Laboratories Inc.
 Ce produit est homologué selon les normes et les exigences UL applicables par Underwriters Laboratories Inc.

 **Federal Communications Commission (FCC) Compliance Statement**
 This device complies with part 15 of the FCC Rules. Operation is subject to the following 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.

CAUTION: Changes or modifications not expressly approved by the manufacturer responsible for compliance could void the user's authority to operate the equipment.

NOTE: 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.

Industry Canada (IC) Compliance Statement
 CAN ICES-3 (B)/NMB-3(B)

The product warranty can be found at www.crestron.com/warranty.
 The specific patents that cover Crestron products are listed at patents.crestron.com.
 Certain Crestron products contain open source software. For specific information, please visit www.crestron.com/opensource.

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