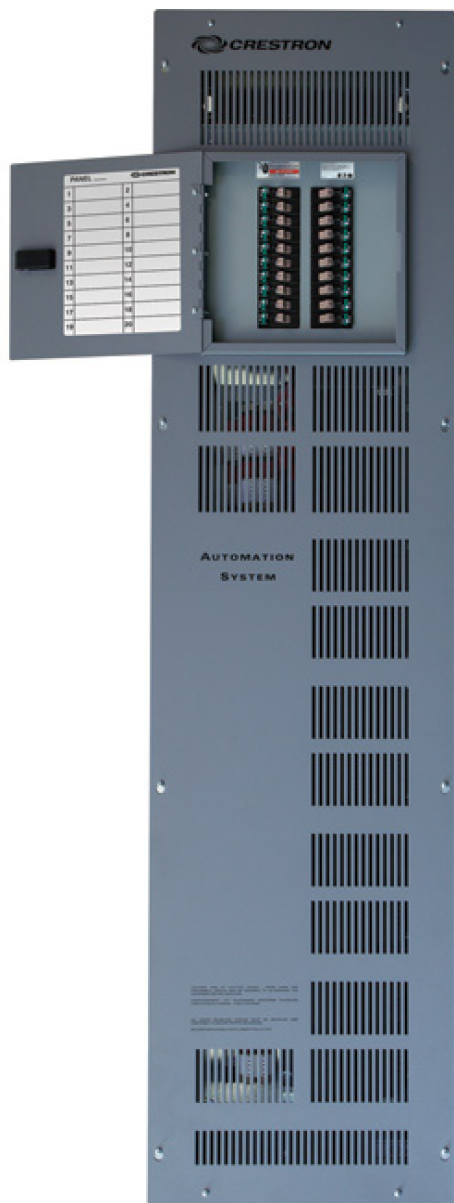


Automation Enclosures with Integrated Breaker Panel



CAEN-5X1-MLO shown with cover installed; circuit breakers sold separately

- Centralized lighting and automation for residential and commercial applications
- Configurable using CLX Series lighting control modules (sold separately)
- Provides up to 20 breaker slots per enclosure or 6 slots in the smallest model (sold separately)
- Thermal magnetic, ground fault, and combination arc fault breakers available
- Enables up to 80 controlled circuits in a single enclosure
- Available with split phase or three phase main lugs
- Designed for use as a sub panel
- Supports centralized and distributed system topologies
- Accommodates a Crestron® automation control system (sold separately)
- Available in three convenient sizes
- Allows surface or flush wall mounting
- Allows inverted mounting for use in flood prone areas
- All metal composition with a generous assortment of knockout openings
- Includes vented front cover with hinged breaker access door and dead front
- Includes grounding blocks and low voltage partitions
- Additional mounting and termination accessories available (sold separately)
- Features quiet, reliable, and efficient convection cooling
- Panel shop fabrication service available
- Intertek® Listed for US & Canada

Crestron® CAEN-MLO automation enclosures are designed to provide a professional centralized dimming solution for residential and commercial applications. CAEN-MLO enclosures are available in three physical sizes, providing options for both surface and 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.

Space-Efficient and Configurable

CAEN-MLO automation enclosures are designed to use space efficiently, supporting up to 80 controlled circuits in the largest model. Configured using Crestron CLX Series lighting control modules (sold separately), CAEN-MLO enables versatile combinations of dimming, switching, fan, and motor control in a single enclosure. Five enclosure models are offered, each designed for use as a subpanel with either split phase or three phase main lugs. As an option, Crestron offers complete factory assembly and testing in our panel shop.

Automation Enclosures with Integrated Breaker Panel

Integrated Circuit Breakers

Up to 20 circuit breakers may be installed (sold separately), providing a choice of thermal magnetic, ground fault, and combination arc fault breaker types. To ensure premium electrical circuit protection, Crestron has chosen Eaton® CH circuit breakers for use in our CAEN-MLO automation enclosures. These breakers have been rigorously tested and proven to work reliably with Crestron dimmers, exhibiting excellent immunity to nuisance tripping under dimmed loads up to 2000 W. An innovative plug-on neutral design eliminates the need for individual pigtails wired to a separate bus bar, affording a cleaner, more efficient assembly.

Control System Options

Any CAEN-MLO automation enclosure can be equipped with a Crestron automation control system (sold separately), affording fully integrated control for a complete residence or commercial facility. A Crestron control system provides a fully programmable control solution, with the ability to augment the centralized lighting controls with in-wall dimmers and switches, shading controls, climate controls, remote sensors, keypads and touch screen controllers throughout the building. Crestron control systems also allow for integration with security, AV, HVAC, irrigation, pool and spa, and a variety of other systems.

Specifications

Load Ratings

Per Channel	Refer to each CLX Series module spec sheet (sold separately)
Load Types	Refer to each CLX Series module spec sheet (sold separately)

Main Lug

Line Power, 3-Phase	120/208 VAC, 225 Amps maximum, 50/60 Hz phase to-neutral
Line Power, Split-Phase	120/240 VAC, 225 Amps maximum, 50/60 Hz phase to-neutral
Maximum Wire Gauge	4/0 AWG (CAEN-5X1/5X2-MLO), 2/0 AWG (CAEN-3X1-MLO)

Circuit Breakers

Types	Eaton® CHF120, CHFCAF120PN, and CHFGF120PN; single-pole, 20A, 10kAIC rated; see Available Accessories for Crestron model numbers (sold separately)
Maximum Wire Gauge	4 AWG

Environmental

Temperature	32° to 104°F (0° to 40°C)
Humidity	10% to 90% RH (noncondensing)

Enclosure

16-gauge galvanized steel backbox with perforated gray steel cover, surface or flush wall-mount installation, invertible

Backbox Dimensions

CAEN-5X2-MLO	Height: 62.75 in (1594 mm); Width: 27.25 in (693 mm); Depth: 4.98 in (127 mm)
CAEN-5X1-MLO	Height: 62.75 in (1594 mm); Width: 16.10 in (409 mm); Depth: 4.98 in (127 mm)
CAEN-3X1-MLO	Height: 39.65 in (1008 mm); Width: 16.10 in (409 mm); Depth: 4.98 in (127 mm)

Weight

CAEN-5x2-MLO	73.0 lb (33.11 kg)
CAEN-5x1-MLO	50.0 lb (22.68 kg)
CAEN-3x1-MLO	33.0 lb (14.97 kg)

Compliance

Intertek® Listed for US & Canada; Empty enclosure is designed to meet UL50 & CSA C22.2 No 94.1

Models

CAEN-5X2-MLO-120/2P

Automation Enclosure, 5 Modules High x 2 Modules Wide, 20 Breaker Slots, Split Phase

CAEN-5X1-MLO-120/3P

Automation Enclosure, 5 Modules High x 1 Module Wide, 20 Breaker Slots, Three Phase

CAEN-5X1-MLO-120/2P

Automation Enclosure, 5 Modules High x 1 Module Wide, 20 Breaker Slots, Split Phase

CAEN-3X1-MLO-120/2P

Automation Enclosure, 3 Modules High x 1 Module Wide, 6 Breaker Slots, Split Phase

Automation Enclosures with Integrated Breaker Panel

This product may be purchased from select authorized Crestron dealers and distributors. To find a dealer or distributor, please contact the Crestron sales representative for your area. A list of sales representatives is available online at www.crestron.com/How-To-Buy/Find-a-Representative or contact us for additional information by visiting www.crestron.com/contact/our-locations for your local contact.

The product warranty can be found at www.crestron.com/warranty.

The specific patents that cover Crestron products are listed online at www.crestron.com/legal/patents.

Certain Crestron products contain open source software. For specific information, please visit www.crestron.com/opensource.

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Specifications are subject to change without notice.

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Rev 07/21/25

Automation Enclosures with Integrated Breaker Panel

Technical drawings of the Crestron Automation System, showing front, side, and rear views with dimensions in inches and millimeters.

Front View Dimensions:

- Overall Height: 39.66 in (1008 mm)
- Overall Width: 16.1 in (409 mm)
- Top Section Height: 1.75 in (45 mm)
- Top Section Width: 10.85 in (276 mm)
- Top Section Label: (MTG HOLES)
- Top Section Label: MTG HOLES FOR 1/4" SCREWS
- Top Section Label: 2.1 in (54 mm)
- Top Section Label: CIRCUIT BREAKERS SOLD SEPARATELY
- Top Section Label: 34 in (864 mm)
- Top Section Label: COVER REMOVED
- Top Section Label: 9.88 in (251 mm)
- Top Section Label: (MTG HOLES)
- Top Section Label: 0.38 in (10 mm)
- Top Section Label: 2.5 in (64 mm)
- Top Section Label: 5.66 in (144 mm)
- Top Section Label: 11.32 in (288 mm)
- Top Section Label: 14.44 in (367 mm)
- Top Section Label: 4.75 in (121 mm)
- Top Section Label: 2.25 in (58 mm)
- Top Section Label: KNOCKOUTS TYP BOTH ENDS
- Top Section Label: 2.88 in (73 mm)
- Top Section Label: 0.63 in (16 mm)
- Top Section Label: 1.25 in (32 mm)
- Top Section Label: 0.94 in (24 mm)
- Top Section Label: 1.25 in (32 mm)
- Top Section Label: 3.82 in (97 mm)
- Top Section Label: 2.38 in (61 mm)
- Top Section Label: 4.32 in (110 mm)
- Top Section Label: 4.97 in (127 mm)
- Top Section Label: 14.35 in (24 mm)
- Top Section Label: 1.25 in (32 mm)
- Top Section Label: 2.5 in (64 mm)
- Top Section Label: TECHNICAL KNOCKOUT FOR 1-1/4" CONDUIT, TYP BOTH ENDS
- Top Section Label: TECHNICAL KNOCKOUT FOR 1/2" CONDUIT, TYP PATTERN BOTH ENDS
- Top Section Label: 6 BREAKER 225A, 120V SPLIT PHASE PANEL SHOWN (DEAD FRONT COVER REMOVED)

Side View Dimensions:

- Overall Height: 38.91 in (989 mm)
- Overall Width: 1.75 in (45 mm)
- Top Section Width: 1.75 in (45 mm)
- Top Section Label: (MTG HOLES)
- Top Section Label: MTG HOLES FOR 1/4" SCREWS
- Top Section Label: 2.1 in (54 mm)
- Top Section Label: CIRCUIT BREAKERS SOLD SEPARATELY
- Top Section Label: 34 in (864 mm)
- Top Section Label: COVER REMOVED
- Top Section Label: 9.88 in (251 mm)
- Top Section Label: (MTG HOLES)
- Top Section Label: 0.38 in (10 mm)
- Top Section Label: 2.5 in (64 mm)
- Top Section Label: 5.66 in (144 mm)
- Top Section Label: 11.32 in (288 mm)
- Top Section Label: 14.44 in (367 mm)
- Top Section Label: 4.75 in (121 mm)
- Top Section Label: 2.25 in (58 mm)
- Top Section Label: KNOCKOUTS TYP BOTH ENDS
- Top Section Label: 2.88 in (73 mm)
- Top Section Label: 0.63 in (16 mm)
- Top Section Label: 1.25 in (32 mm)
- Top Section Label: 0.94 in (24 mm)
- Top Section Label: 1.25 in (32 mm)
- Top Section Label: 3.82 in (97 mm)
- Top Section Label: 2.38 in (61 mm)
- Top Section Label: 4.32 in (110 mm)
- Top Section Label: 4.97 in (127 mm)
- Top Section Label: 14.35 in (24 mm)
- Top Section Label: 1.25 in (32 mm)
- Top Section Label: 2.5 in (64 mm)
- Top Section Label: TECHNICAL KNOCKOUT FOR 1-1/4" CONDUIT, TYP BOTH ENDS
- Top Section Label: TECHNICAL KNOCKOUT FOR 1/2" CONDUIT, TYP PATTERN BOTH ENDS
- Top Section Label: 6 BREAKER 225A, 120V SPLIT PHASE PANEL SHOWN (DEAD FRONT COVER REMOVED)

Rear View Dimensions:

- Overall Height: 39.66 in (1008 mm)
- Overall Width: 16.1 in (409 mm)
- Top Section Height: 1.75 in (45 mm)
- Top Section Width: 10.85 in (276 mm)
- Top Section Label: (MTG HOLES)
- Top Section Label: MTG HOLES FOR 1/4" SCREWS
- Top Section Label: 2.1 in (54 mm)
- Top Section Label: CIRCUIT BREAKERS SOLD SEPARATELY
- Top Section Label: 34 in (864 mm)
- Top Section Label: COVER REMOVED
- Top Section Label: 9.88 in (251 mm)
- Top Section Label: (MTG HOLES)
- Top Section Label: 0.38 in (10 mm)
- Top Section Label: 2.5 in (64 mm)
- Top Section Label: 5.66 in (144 mm)
- Top Section Label: 11.32 in (288 mm)
- Top Section Label: 14.44 in (367 mm)
- Top Section Label: 4.75 in (121 mm)
- Top Section Label: 2.25 in (58 mm)
- Top Section Label: KNOCKOUTS TYP BOTH ENDS
- Top Section Label: 2.88 in (73 mm)
- Top Section Label: 0.63 in (16 mm)
- Top Section Label: 1.25 in (32 mm)
- Top Section Label: 0.94 in (24 mm)
- Top Section Label: 1.25 in (32 mm)
- Top Section Label: 3.82 in (97 mm)
- Top Section Label: 2.38 in (61 mm)
- Top Section Label: 4.32 in (110 mm)
- Top Section Label: 4.97 in (127 mm)
- Top Section Label: 14.35 in (24 mm)
- Top Section Label: 1.25 in (32 mm)
- Top Section Label: 2.5 in (64 mm)
- Top Section Label: TECHNICAL KNOCKOUT FOR 1-1/4" CONDUIT, TYP BOTH ENDS
- Top Section Label: TECHNICAL KNOCKOUT FOR 1/2" CONDUIT, TYP PATTERN BOTH ENDS
- Top Section Label: 6 BREAKER 225A, 120V SPLIT PHASE PANEL SHOWN (DEAD FRONT COVER REMOVED)

Automation Enclosures with Integrated Breaker Panel

CR2000

62.75 in (1594 mm)

16 in (409 mm)

1 in (26 mm)

1.75 in (45 mm)

Ø180 MTG HOLES, TYP

17.1 in (435 mm)

5.35 in (136 mm)

5.69 in (145 mm)

EQUALLY SPACED

2.5 in (64 mm)

0.38 in (10 mm)

2.25 in (58 mm)

KNOCKOUTS TYP BOTH ENDS

TECHNICAL KNOCKOUT FOR 1-1/4" CONDUIT, TYP BOTH ENDS

TECHNICAL KNOCKOUT FOR 1/2" CONDUIT, TYP PATTERN BOTH ENDS

1.25 in (32 mm)

0.63 in (16 mm)

2.88 in (73 mm)

2.5 in (64 mm)

0.94 in (24 mm)

1.25 in (32 mm)

14.35 in (24 mm)

2.38 in (61 mm)

4.32 in (110 mm)

3.82 in (97 mm)

4.97 in (127 mm)

20 BREAKER 250A 120V 3 PHASE PANEL SHOWN (DEAD FRONT COVER REMOVED)

1.75 in (45 mm)

10.85 in (276 mm) (MTG HOLES)

2.66 in (68 mm)

CIRCUIT BREAKERS SOLD SEPARATELY

62 in (1575 mm)

56 in (1423 mm)

9.88 in (251 mm) (MTG HOLES)

COVER REMOVED

CAEN-MLO

Automation Enclosures with Integrated Breaker Panel

CAEN-5X2-MLO

