



CAEN-UMP1X2-DIN-PWS  
CAEN Automation Enclosure Mounting Kit  
for 4-Series™ Automation Processor and Hub

Product Manual  
Crestron Electronics, Inc.

**Original Instructions**

The U.S. English version of this document is the original instructions.  
All other languages are a translation of the original instructions.

**Regulatory Model: DIN-AP4**

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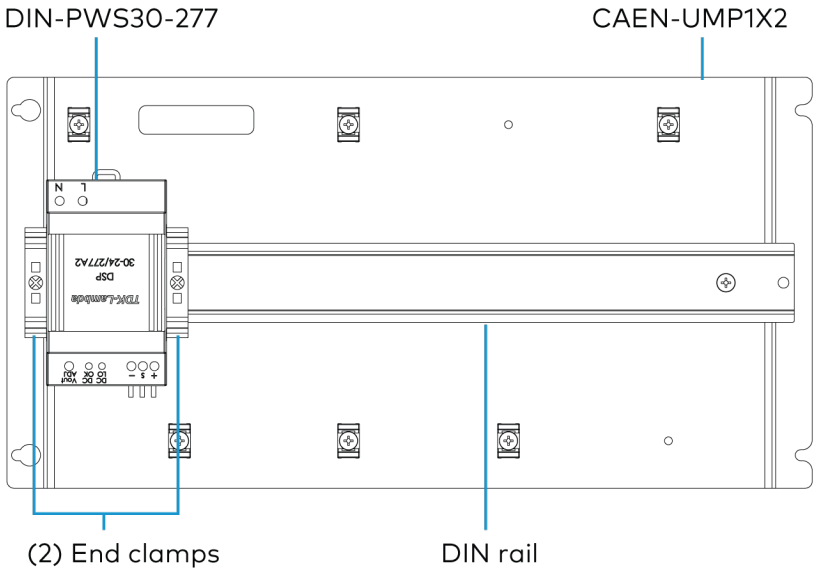
# Overview

The CAEN-UMP1X2-DIN-PWS mounting kit provides a simple solution for installing a [DIN-AP4](#) 4-Series™ control system (sold separately) and [DIN-HUB](#) Cresnet Distribution Hub (sold separately) to a [CAEN](#), [CAEN-MLO](#), or [CAENIB](#) automation enclosure (sold separately). The CAEN-UMP1X2 mounting plate is equipped with a DIN rail and a DIN-PWS30-277 30 W Cresnet® power supply. The CAEN-UMP1X2-DIN-PWS also includes DIN rail end clamps, screws, and cables for connecting the DIN products.

For additional details, refer to the [DIN-PWS30-277](#) and [CAEN-UMP1X2](#) product pages.

# Physical Description

The diagram identifies the parts of the CAEN-UMP1X2-DIN-PWS.



# Specifications

Product specifications for the CAEN-UMP1X2-DIN-PWS.

## Product Specifications

### Power

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<b>Main Power</b>	100-277VAC, 50/60 Hz
<b>Available Power</b>	30 W maximum from the <a href="#">DIN-PWS30-277</a>

### Environmental

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<b>Temperature</b>	41° to 113 °F (5° to 45 °C)
<b>Humidity</b>	10% to 90% RH (noncondensing)

### Enclosure

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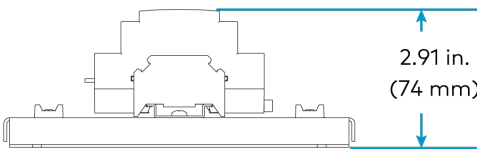
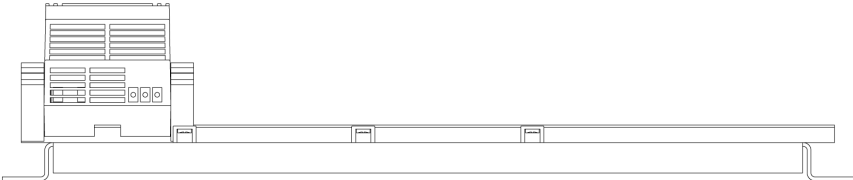
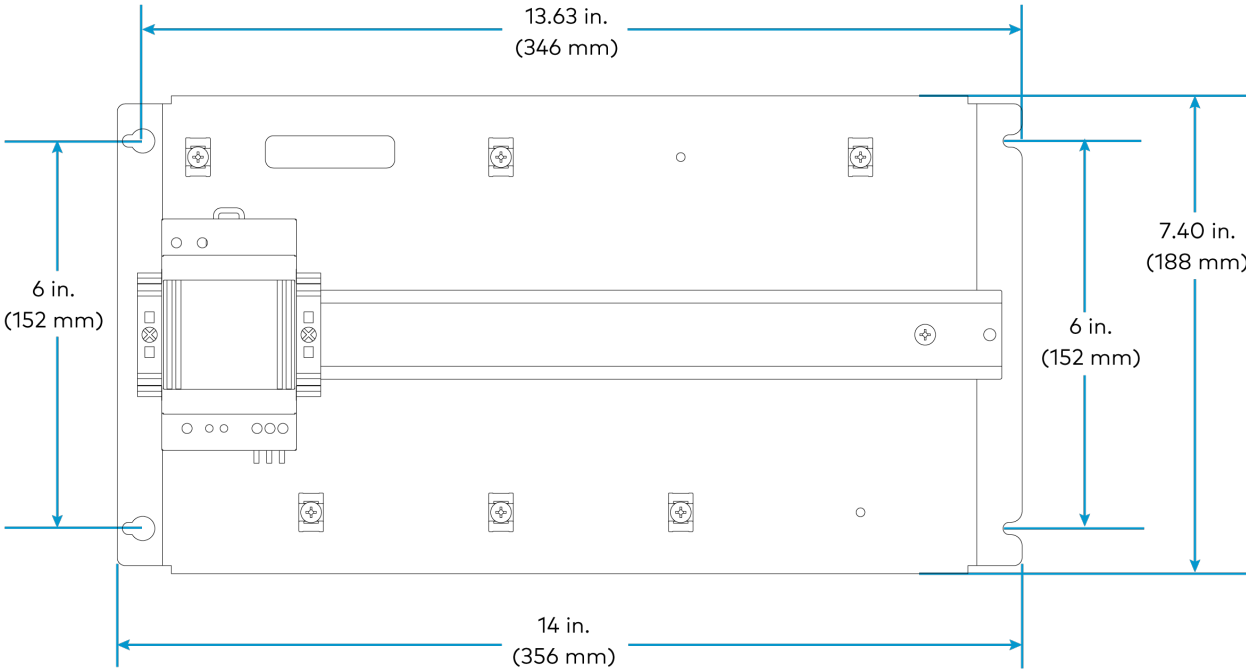
Mounting Plate: Metal with attached DIN rail and tie-down anchors

### Dimensions

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<b>Height</b>	7.40 in. (188 mm)
<b>Width</b>	14 in. (356 mm)
<b>Depth</b>	2.91 in. (74 mm)

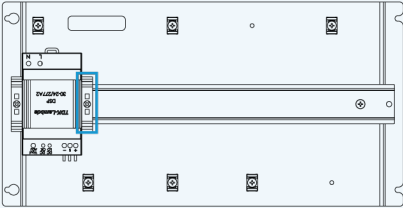
# Dimension Drawings



# Installation

The CAEN-UMP1X2-DIN-PWS mounting kit is comprised of a CAEN-UMP1X2 mounting plate with a preinstalled DIN rail and DIN-PWS30-277 power supply. The following sections discuss how to connect a [DIN-HUB](#) and [DIN-AP4](#) (both sold separately).

**NOTE:** Before installing DIN products, use a small flat-head screwdriver to loosen the end clamp screw, then remove the end clamp. Once all connections have been made, reattach the end clamp and retighten the screw. Refer to step 2 of [Install the DIN-AP4 on page 10](#).



## In the Box

Qty.	Description
1	CAEN-UMP1X2-DIN-PWS, CAEN Automation Enclosure Mounting Kit for 4-Series™ Automation Processor and Hub
<b>Additional Items</b>	
1	Cable, 4-Wires, 6 in. (153 mm), Round (4519362)
2	Cable, 5-Wires, 18 AWG, Interconnect, 18 in. (457 mm), Flat (4536062)
1	Cable, 2 -Wires, 2-Pin Terminal Block Connector, 8 in.(203 mm), Round (4534582)
1	Cable, 4-Wires, 4-Pin Terminal Block Connectors, 6 in.(152 mm), Round (4534585)
1	Wire, Ground, 16 AWG, Ring Connectors, 4 in. (4534586)
3	Wire, Jumper, 22 AWG, Red (2007810)
1	Washer, Lock (2007667)
1	Washer, Flat (2007663)
5	Screws, 8-8B x 1/4 in., Pan Head, Phillips (2007277)
6	Tie Wraps (2005429)



# Install the DIN-HUB

The DIN-HUB is not included with the CAEN-UMP1X2-DIN-PWS.

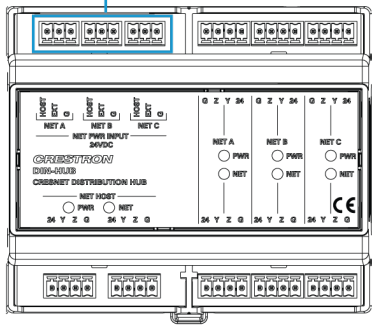
Included equipment to prepare the DIN-HUB:

- Three 3-pin terminal blocks (included with the DIN-HUB)
- Eight 4-pin terminal blocks (included with the DIN-HUB)
- Three jumper wires (included with the CAEN-UMP1X2-DIN-PWS)

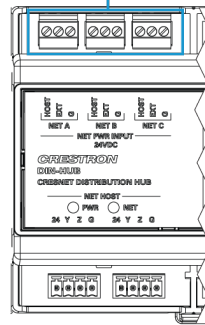
To install the DIN-HUB:

1. Connect the three 3-pin terminal blocks.

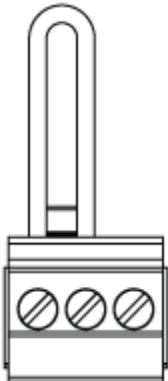
Install three 3-pin terminal blocks.



3-pin terminal blocks installed.



2. Insert the jumper wires into the 3-pin terminal blocks. Ensure the wires are fully inserted in the terminals.

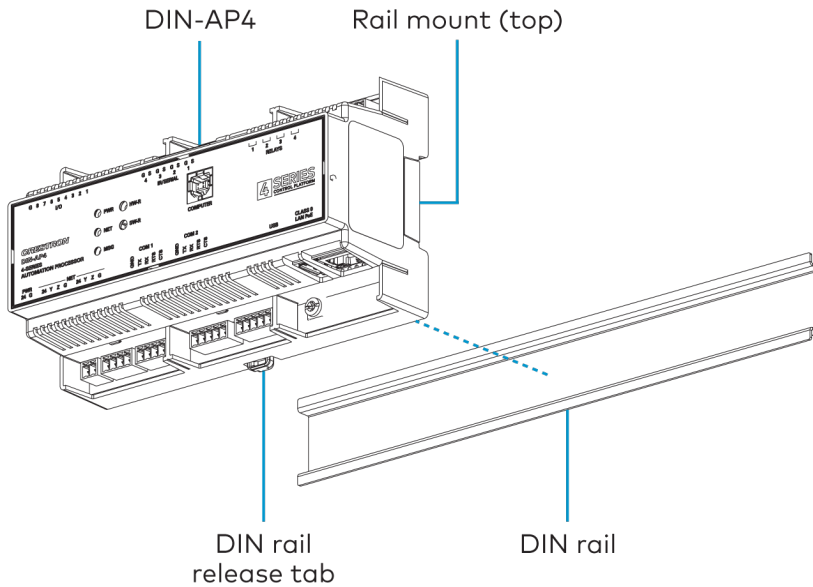


3. Use a small flat-head screwdriver to secure the wires by tightening the screws on the terminal block. Tighten to 2 in.-lbs (0.25 nm).
4. Use a small flat-head screwdriver to remove the end clamp from the CAEN-UMP1X2-DIN-PWS.

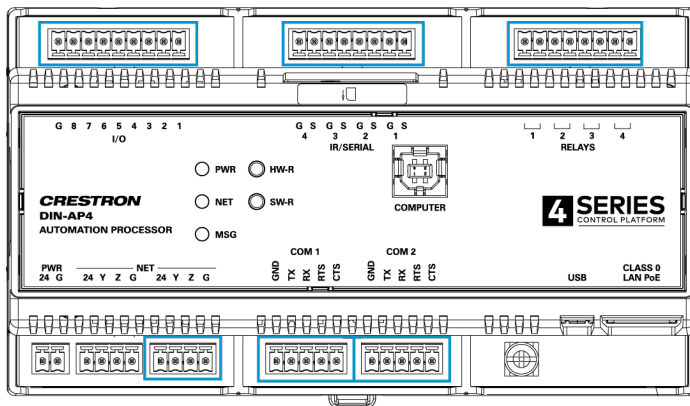


To install the DIN-AP4:

1. Attach the DIN-AP4 to the DIN rail next to the DIN-HUB. Refer to the [DIN-AP4 Quick Start guide](#) for details.



2. Use a small flat-head screwdriver to secure the end clamp next to the DIN-AP4. Tighten to 9 in.-lbs (1.02 nm).
3. Connect six of the terminal blocks included with the DIN-AP4 or save them for future use. Refer to the diagram for placement.

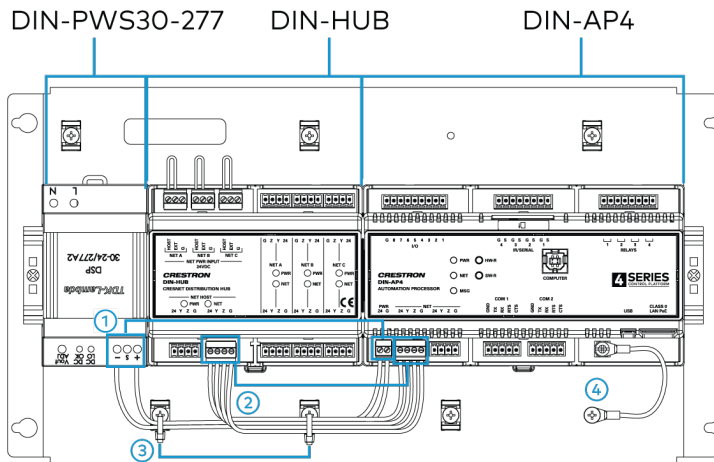


## Wire the DIN Rail Products

To connect the DIN products, use the following equipment included with the CAEN-UMP1X2-DIN-PWS:

- 2-wire cable with flying leads on one end and a 2-pin terminal block on the other
- 4-wire cable with 4-pin connectors
- Two tie wraps

- Ground wire with ring connectors
- One screw



To wire the DIN rail products:

**WARNING:** To avoid fire, shock, or death, turn off power at circuit breaker or fuse and test that power is off before wiring!

1. Connect the 2-wire cable from the DIN-AP4 PWR input (2-pin terminal block) to the DIN-PWS30-277 power output (flying leads).

Ensure the wires to the DIN-PWS30-277 terminals are fully inserted:

- Connect the black wire to the - (negative) terminal using a small, flat-head screwdriver. Tighten to 3 in.-lbs (0.34 nm).
- Connect the red wire to the + (positive) terminal using a small, flat-head screwdriver. Tighten to 3 in.-lbs (0.34 nm).

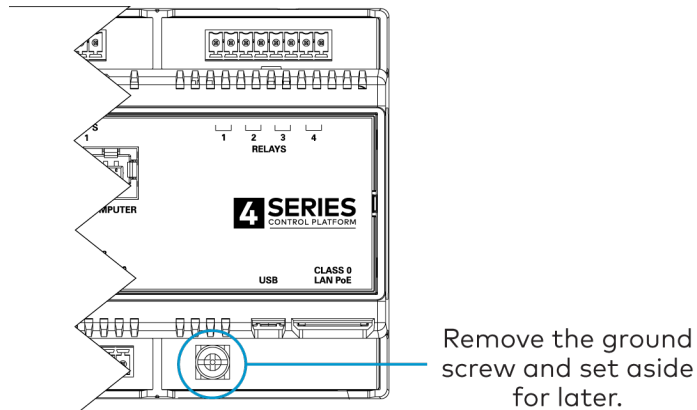
2. Connect the NET output on the DIN-AP4 to the NET HOST input on the DIN-HUB using the 4-wire cable.

Match the terminals for both devices:

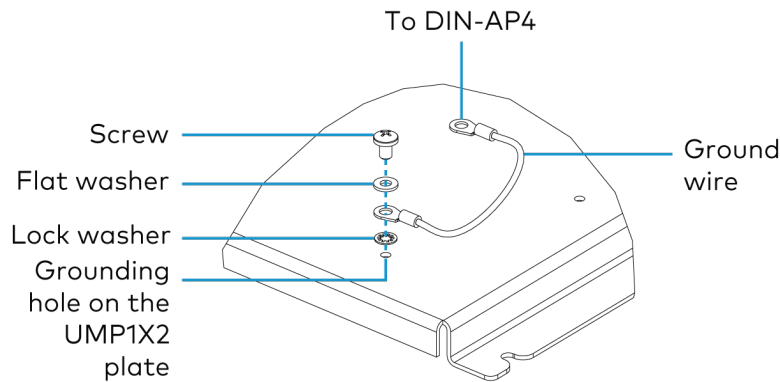
- 24
- Y
- Z
- G

3. Use the tie wraps to secure loose wires from steps 1 and 2. Cut off any excess of the wrap.

4. Connect the ground wire from the DIN-AP4 to the metal mounting bracket.
  - a. Remove and retain the ground screw from the DIN-AP4.



- b. Use a Phillips screwdriver to secure the ground wire with the retained ground screw from step 5. Tighten to 9 in.-lbs (1.02 nm).
  - c. Layer a screw, flat washer, and lock washer (all included with the CAEN-UMP1X2-DIN-PWS) over the UMP1X2 plate grounding hole as shown below.

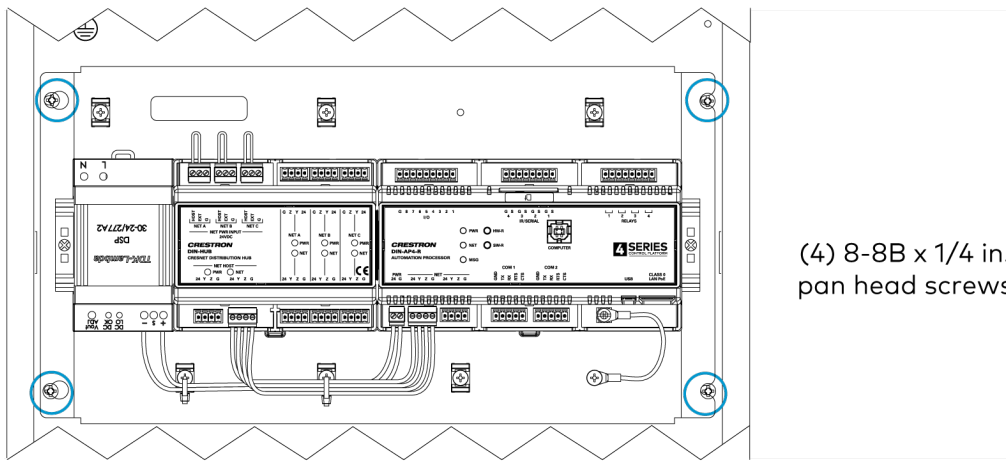


- d. Use a Phillips screwdriver to secure the screw to the UMP1X2 plate. Tighten to 9 in.-lbs (1.02 nm).

## Mount the Plate to an Enclosure

To mount the CAEN-UMP1X2-DIN-PWS to a CAEN, CAEN-MLO, or CAENIB automation enclosure (sold separately):

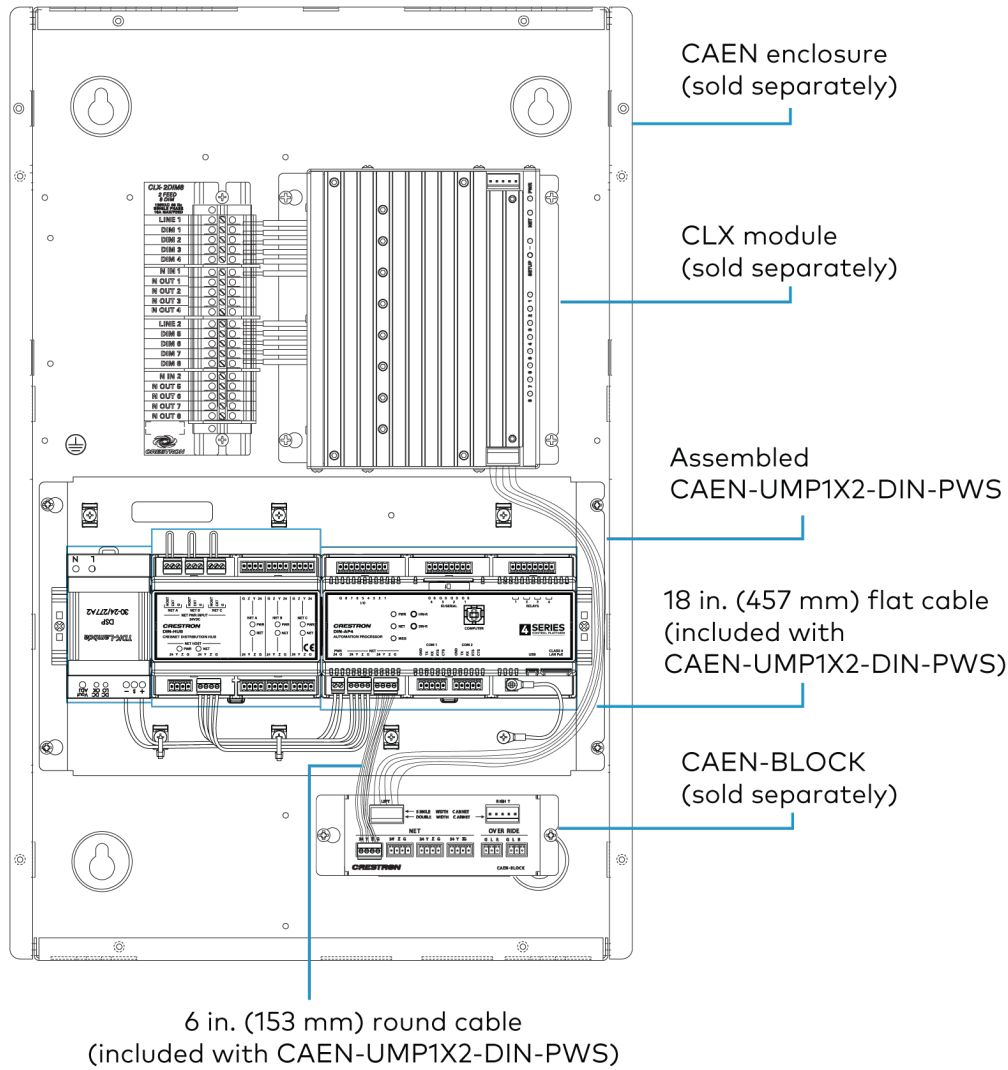
Using the remaining four screws, attach the CAEN-UMP1X2-DIN-PWS to the enclosure. Ensure the flanges of the plates do not overlap other plates or lighting modules that are mounted in the enclosure.



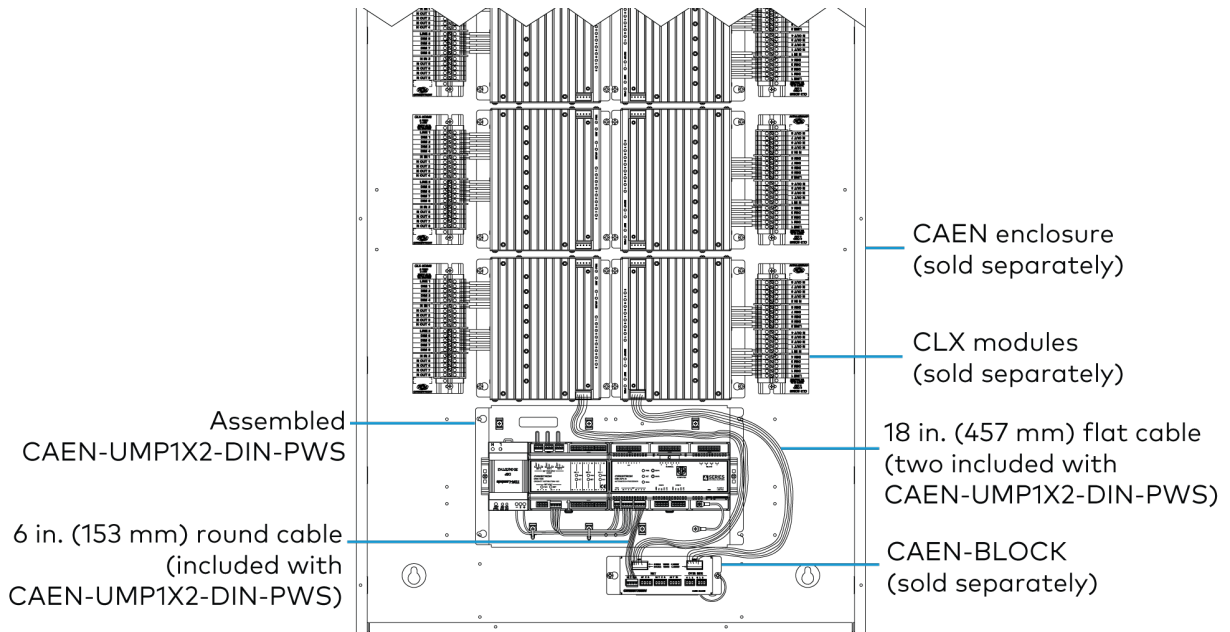
**NOTE:** In a single-wide enclosure, install the CAEN-UMP1X2-DIN-PWS in the bottom module position. In a double-wide enclosure, install the CAEN-UMP1X2-DIN-PWS in the bottom two module positions.

Refer to the following diagrams for example CAEN-UMP1X2-DIN-PWS placement in an enclosure.

### CAEN-UMP1X2-DIN-PWS in a 2x1 Enclosure



## CAEN-UMP1X2-DIN-PWS in a 7x2 Enclosure



# Wire the CLX and DIN Rail Products

Make connections to the CAEN-BLOCK (sold separately), CLX module (sold separately), DIN-PWS30-277, DIN-AP4, and DIN-HUB.

**WARNING:** To avoid fire, shock, or death, turn off power at circuit breaker or fuse and test that power is off before wiring!

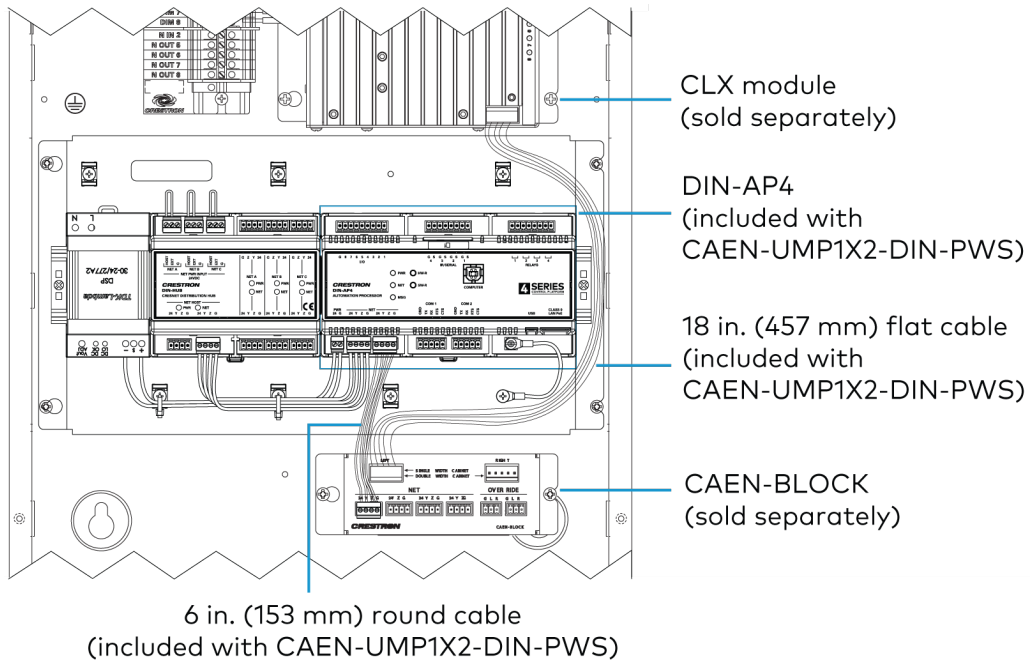
### NOTES:

- Install and use the assembly in accordance with appropriate electrical codes and regulations.
- A licensed electrician must install the assembly.
- When installing in an enclosure, group high-voltage devices separately from low-voltage devices.
- Use copper wire only. For high-voltage connections, use wires rated for at least 75 °C.
- Ensure the devices are properly grounded.
- Restore power after all connections have been made.

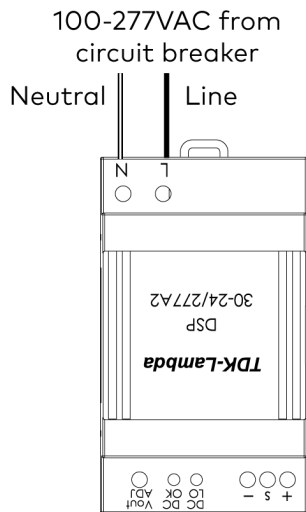


1. Connect the following cables included with the CAEN-UMP1X2-DIN-PWS.

- The 6 in. (153 mm) cable connects a CAEN-BLOCK Cresnet port to the DIN-AP4 Cresnet port.
- The 18 in. (457 mm) flat cable connects the CAEN-BLOCK to the CLX module connector.



2. Wire the L and N connections of the DIN-PWS30-277. Ensure the power supply is properly grounded.



**NOTE:** The DIN-HUB and CAEN-BLOCK only receive power when powered via the DIN-PWS30-277. If the DIN-AP4 is powered via PoE (not recommended), it will not pass power to the DIN-HUB or CAEN-BLOCK.

3. Wire the CAEN-UMP1X2-DIN-PWS. Refer to the [DIN-AP4](#) and [DIN-HUB](#) manuals.

# Resources

The following resources are provided for the CAEN-UMP1X2-DIN-PWS.

**NOTE:** You may need to provide your Crestron.com web account credentials when prompted to access some of the following resources.

## Crestron Support and Training

- [Crestron True Blue Support](#)
- [Crestron Resource Library](#)
- [Crestron Online Help \(OLH\)](#)
- [Crestron Training Institute \(CTI\) Portal](#)

## Programmer and Developer Resources

- [help.crestron.com](http://help.crestron.com): Provides help files for Crestron programming tools such as SIMPL, SIMPL#, and Crestron Toolbox™ software
- [developer.crestron.com](http://developer.crestron.com): Provides developer documentation for Crestron APIs, SDKs, and other development tools

## Product Certificates

To search for product certificates, refer to [support.crestron.com/app/certificates](http://support.crestron.com/app/certificates).

## Related Documentation

- [DIN-AP4](#)
- [DIN-HUB](#)

