



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

Crestron product development software is licensed to Crestron dealers and Crestron Service Providers (CSPs) under a limited nonexclusive, nontransferable Software Development Tools License Agreement. Crestron product operating system software is licensed to Crestron dealers, CSPs, and end-users under a separate End-User License Agreement. Both of these Agreements can be found on the Crestron website at www.crestron.com/legal/software_license_agreement.

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

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

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

Crestron, the Crestron logo, 4-Series, and Cresnet are either trademarks or registered trademarks of Crestron Electronics, Inc. in the United States and/or other countries. Other trademarks, registered trademarks, and trade names may be used in this document to refer to either the entities claiming the marks and names or their products. Crestron disclaims any proprietary interest in the marks and names of others. Crestron is not responsible for errors in typography or photography.

©2022 Crestron Electronics, Inc.

Contents

Overview	5
Physical Description	5
Specifications	6
Product Specifications	6
Dimension Drawings	7
Installation	8
In the Box	8
Install the DIN-HUB	9
Install the DIN-AP4	10
Wire the DIN Rail Products	11
Mount the Plate to an Enclosure	13
Wire the CLX and DIN Rail Products	16
Resources	19
Crestron Support and Training	19
Programmer and Developer Resources	19
Product Certificates	19
Related Documentation	19

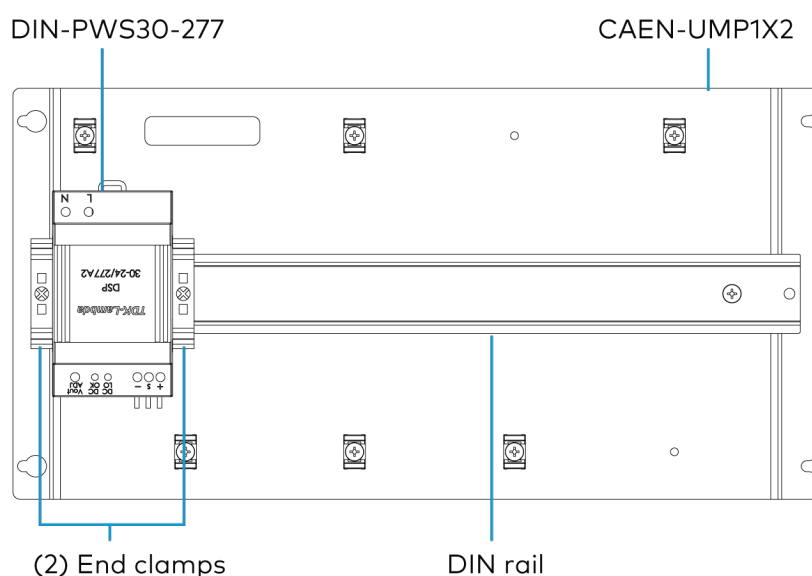
Overview

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

Main Power	100-277VAC, 50/60 Hz
Available Power	30 W maximum from the DIN-PWS30-277

Environmental

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

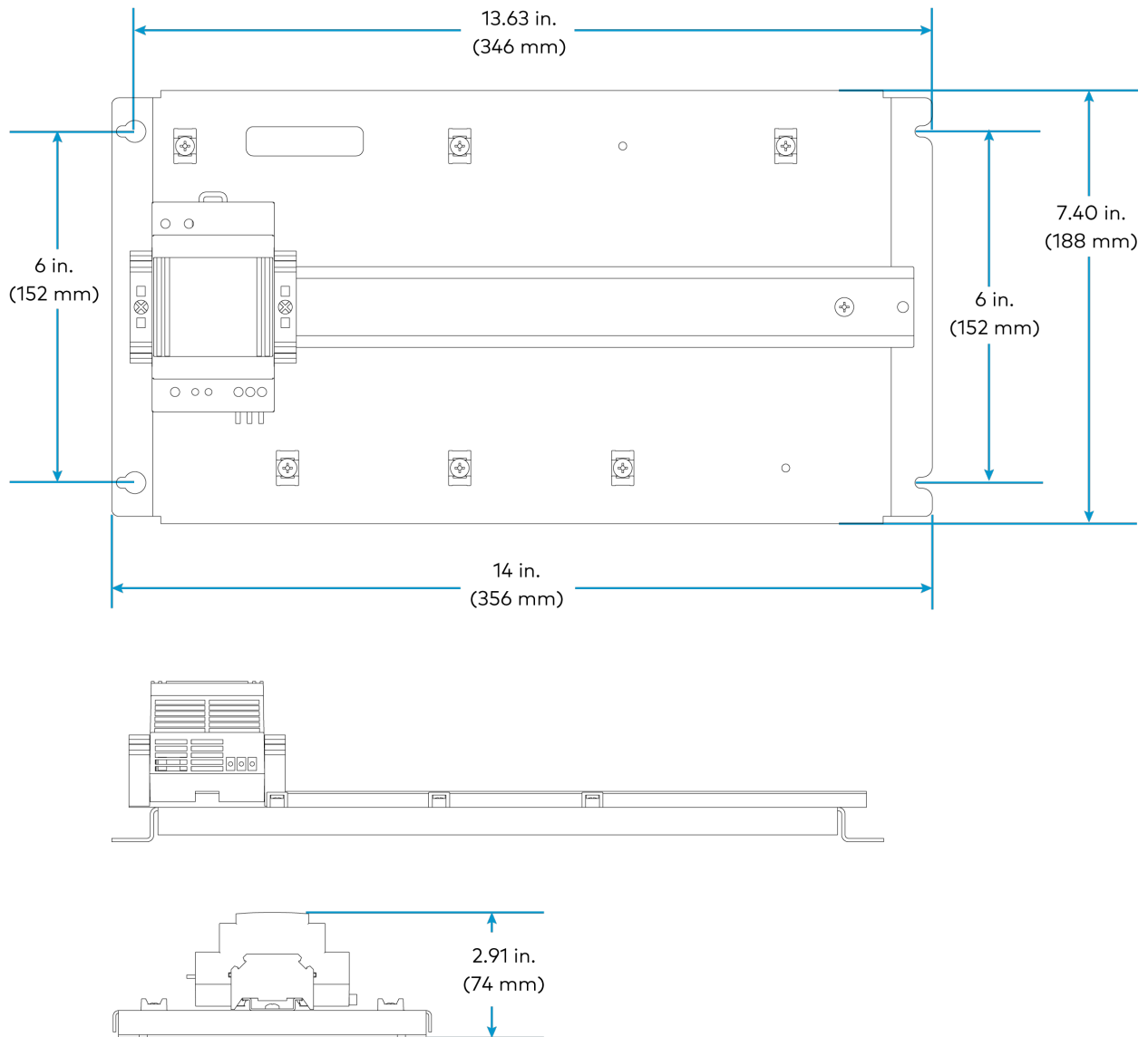
Enclosure

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

Dimensions

Height	7.40 in. (188 mm)
Width	14 in. (356 mm)
Depth	2.91 in. (74 mm)

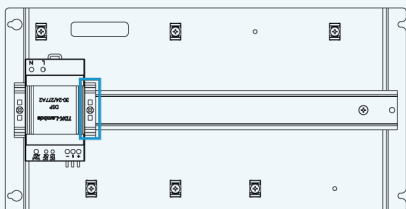
Dimension Drawings



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
Additional Items	
1	Cable, 4-Wires, 6 in. (153 mm), Round (4519362)
1	Cable, 5-Wires, PCB Connectors, 18 in. (457 mm), Flat (4531268)
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

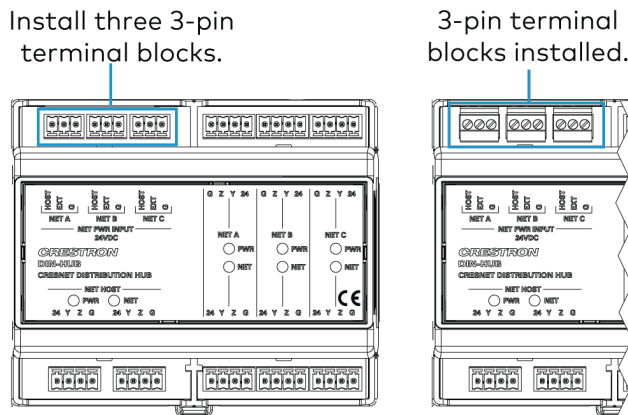
The DIN-HUB is not included with the CAEN-UMP1X2-DIN-PWS.

Included equipment to prepare the DIN-HUB:

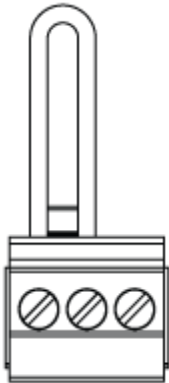
- Three 3-pin terminal blocks (included with the DIN-HUB)
- Eight 4-pin terminal blocks (included with the DIN-HUB)
- Three jumper wires (included with the CAEN-UMP1X2-DIN-PWS)

To install the DIN-HUB:

1. Connect the three 3-pin terminal blocks.

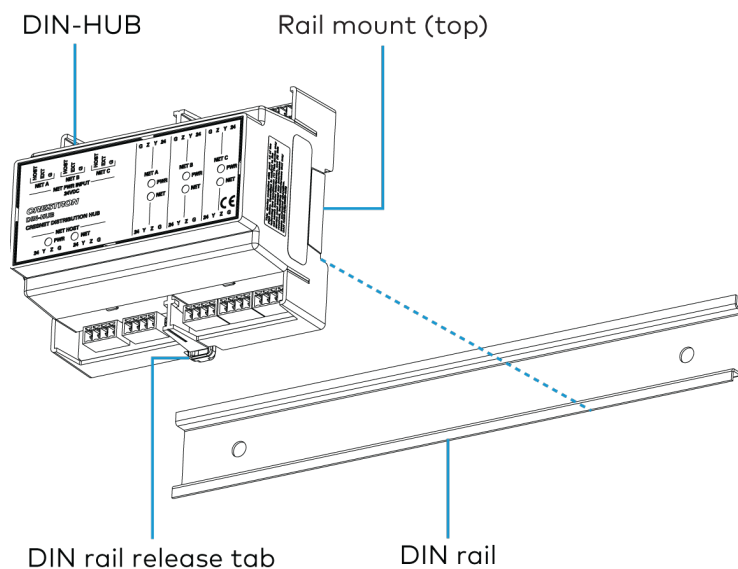


2. Insert the jumper wires into the 3-pin terminal blocks. Ensure the wires are fully inserted in the terminals.

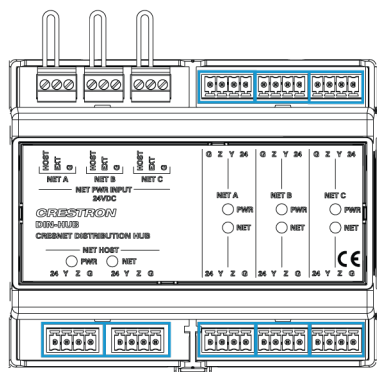


3. Use a small flat-head screwdriver to secure the wires by tightening the screws on the terminal block. Tighten to 2 in.-lbs (0.25 nm).
4. Use a small flat-head screwdriver to remove the end clamp from the CAEN-UMP1X2-DIN-PWS.

- Attach the DIN-HUB to the DIN rail next to the DIN-PWS30-277. Refer to the [DIN-HUB Installation guide](#) for details.



- Connect the remaining terminal blocks or save them for future use.



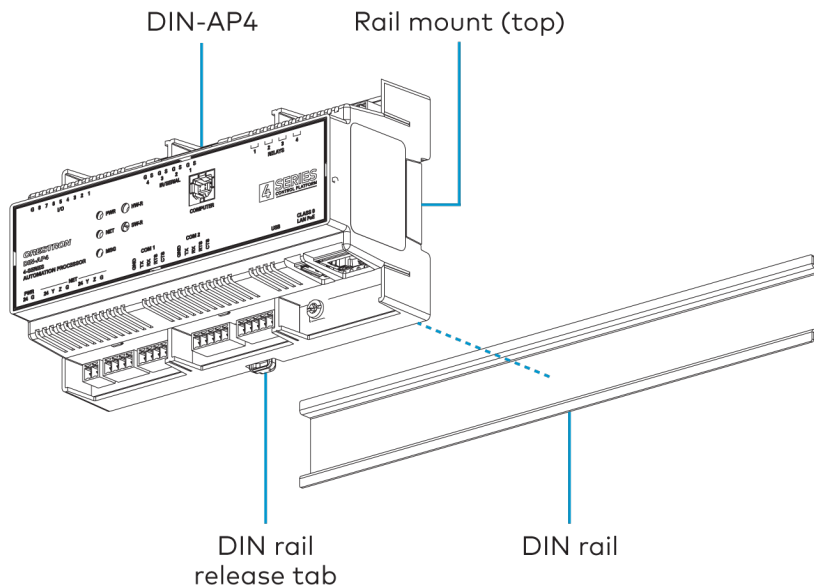
Install the DIN-AP4

The DIN-AP4 is not included with the CAEN-UMP1X2-DIN-PWS. Included equipment with the DIN-AP4:

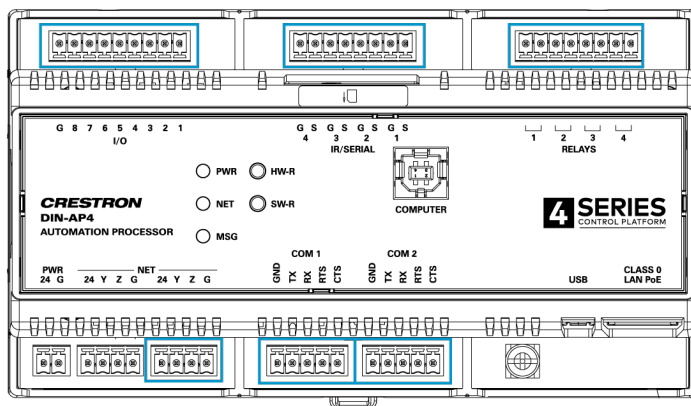
- One 2-Pin terminal block
- Two 4-Pin terminal blocks
- Two 5-Pin terminal blocks
- Two 8-Pin terminal blocks
- One 9-Pin terminal block

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.

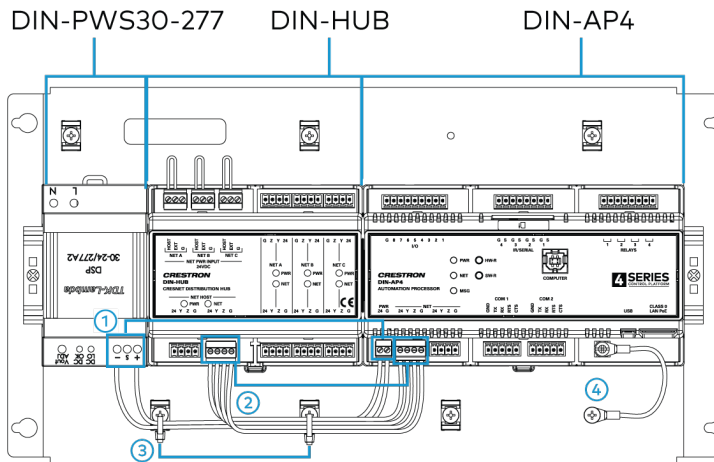


Wire the DIN Rail Products

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:

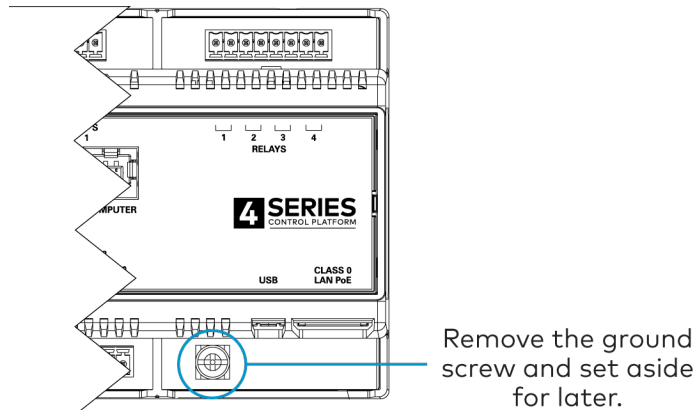
WARNING: To avoid fire, shock, or death, turn off power at circuit breaker or fuse and test that power is off before wiring!

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.

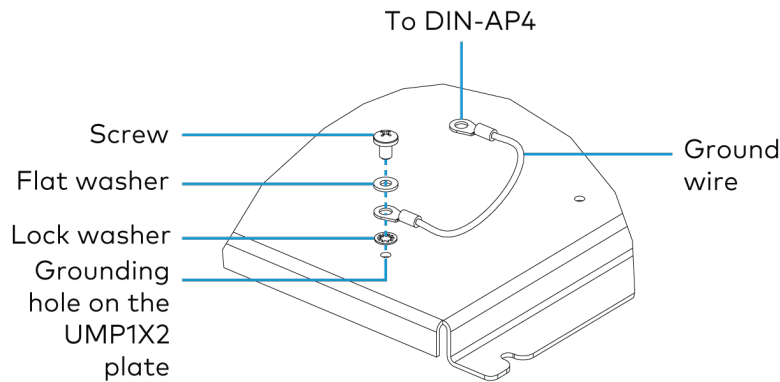
Match the terminals for both devices:

- 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.

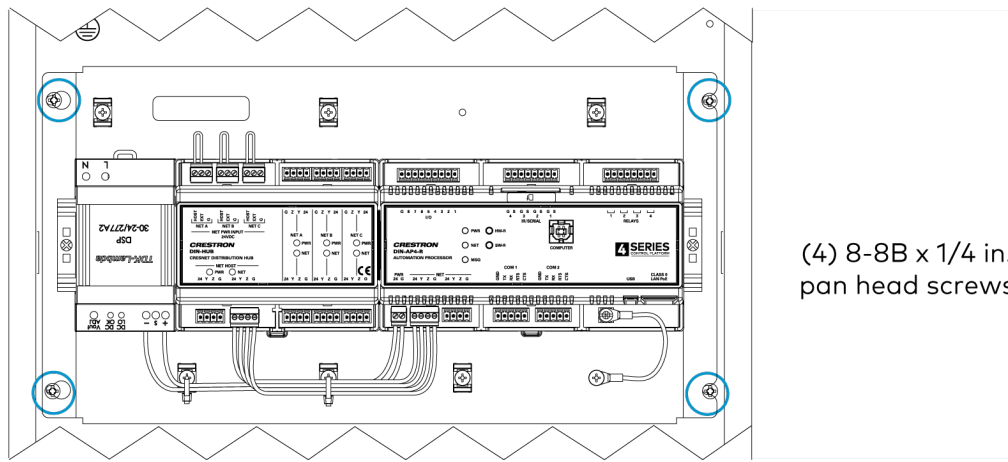


- d. Use a Phillips screwdriver to secure the screw to the UMP1X2 plate. Tighten to 9 in.-lbs (1.02 nm).

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.

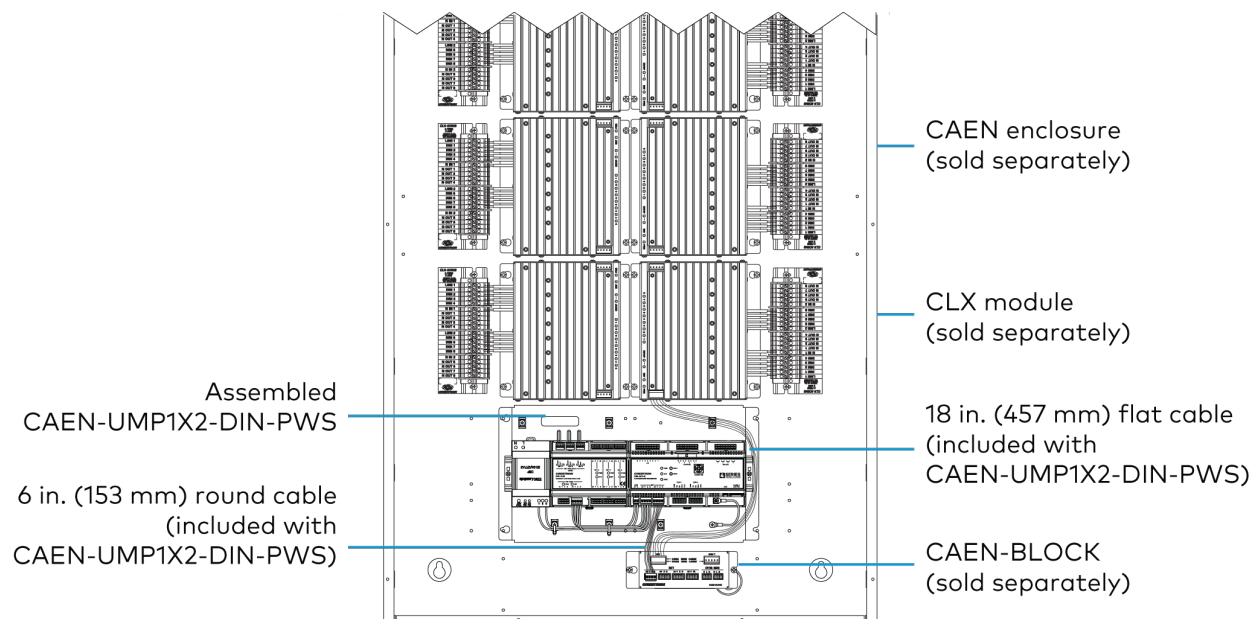


NOTE: In a single-wide enclosure, install the CAEN-UMP1X2-DIN-PWS in the bottom module position. In a double-wide enclosure, install the CAEN-UMP1X2-DIN-PWS in the bottom two module positions.

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.

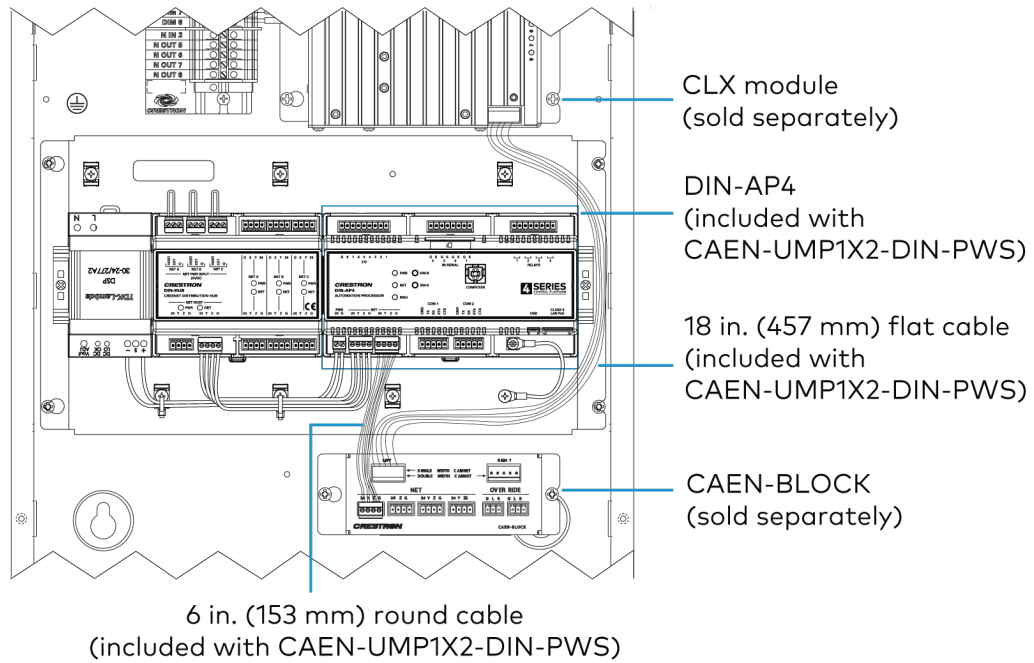
WARNING: To avoid fire, shock, or death, turn off power at circuit breaker or fuse and test that power is off before wiring!

NOTES:

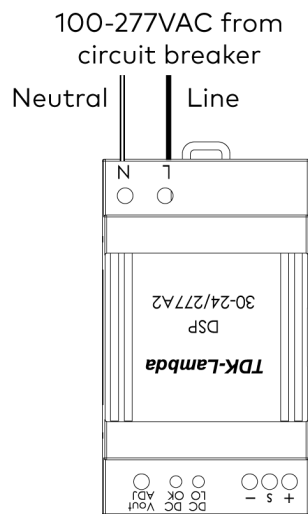
- Install and use the assembly in accordance with appropriate electrical codes and regulations.
- A licensed electrician must install the assembly.
- When installing in an enclosure, group high-voltage devices separately from low-voltage devices.
- Use copper wire only. For high-voltage connections, 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: Provides help files for Crestron programming tools such as SIMPL, SIMPL#, and Crestron Toolbox™ software
- 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.

Related Documentation

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

