

Access & Power Integration

## Altronix/Mercury Wired Rack Kits

### Models Include:

#### **T1RM3CK1V**

##### **4 Door Kit with Fused Outputs**

Accommodates one (1) Intelligent Dual Reader Controller and one (1) Dual Reader Interface Module.

##### **Fully assembled kit includes:**

- Trove1R rack enclosure with TM1R Altronix/Mercury backplane
- One (1) eFlow6NBV - Power Supply/Charger
- One (1) ACM4 - Fused Access Power Controller
- One (1) PDS8 - Dual Input Fused Power Distribution Module
- One (1) VR6 - Voltage Regulator
- Wire harnesses and management

#### **T1RM3CK1DV**

##### **4 Door Kit with PTC Outputs**

Accommodates one (1) Intelligent Dual Reader Controller and one (1) Dual Reader Interface Module.

##### **Fully assembled kit includes:**

- Trove1R rack enclosure with TM1R Altronix/Mercury backplane
- One (1) eFlow6NBV - Power Supply/Charger
- One (1) ACM4CB - PTC Access Power Controller
- One (1) PDS8CB - Dual Input PTC Power Distribution Module
- One (1) VR6 - Voltage Regulator
- Wire harnesses and management

Please refer to the included corresponding Sub-Assembly Installation Guides for further information.

## Installation Guide



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Rev. 112123

Installing Company: \_\_\_\_\_ Service Rep. Name: \_\_\_\_\_

Address: \_\_\_\_\_ Phone #: \_\_\_\_\_



## Overview:

Altronix Trove Mercury wired rack kits are pre-assembled and consist of Trove rack enclosure/backplane with factory installed Altronix power supply/charger and sub-assemblies. They also accommodate a variety of Mercury modules for up to four doors in a single enclosure.

## Configuration Chart:

| Altronix Model Number | 220VAC 60Hz P/S Input Current (A) | Power Supply Board Input Fuse Rating | Power Supply Board Battery Fuse Rating | Nominal DC Output Voltage |                        | Maximum Supply Current for Main and Aux. Outputs on Power Supply board, PDS8(CB) Power Distribution Module and ACM4(CB) Access Power Controller's outputs (A) | Current Per ACM4(CB) Output (A) | ACM4(CB) Board Input Fuse (PTC) Rating | ACM4(CB) Board Output Fuse (PTC) Rating | Fail-Safe/Fail-Secure or Dry Form "C" Outputs | PDS8(CB) Board Input Fuse (PTC) Rating | PDS8(CB) Board Output Fuse (PTC) Rating |
|-----------------------|-----------------------------------|--------------------------------------|----------------------------------------|---------------------------|------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|----------------------------------------|-----------------------------------------|-----------------------------------------------|----------------------------------------|-----------------------------------------|
|                       |                                   |                                      |                                        | [DC]                      | [Aux]                  |                                                                                                                                                               |                                 |                                        |                                         |                                               |                                        |                                         |
|                       |                                   |                                      |                                        | 24VDC Output Range (V)    | 24VDC Output Range (V) |                                                                                                                                                               |                                 |                                        |                                         |                                               |                                        |                                         |
| T1RM3CK1V             | 2.5                               | 5A/ 250V                             | 10A/ 32V                               | 20.28- 26.4               | 20.28- 26.4            | 24VDC @ 5.6A                                                                                                                                                  | 2.5                             | 10A/ 250V                              | 10A/ 32V                                | 4                                             | 10A/ 32V                               | 3A/ 32V                                 |
| T1RM3CK1DV            |                                   |                                      |                                        |                           |                        |                                                                                                                                                               | 2.0                             | 10A/ 250V                              | 9A                                      | 4                                             | 9A                                     | 2.5A                                    |

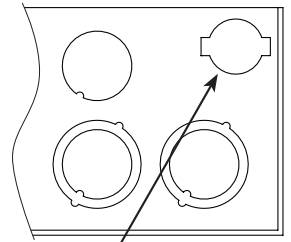
## Installation Instructions for T1RM3CK1(D)V:

Wiring methods shall be in accordance with the National Electrical Code/NFPA 70/ANSI, and with all local codes and authorities having jurisdiction. These products are for indoor use only and must be installed within the protected premises.

**Note:** First assemble and install Z Bracket Wire Management Accessory (refer to Z Bracket Installation pg. 3)

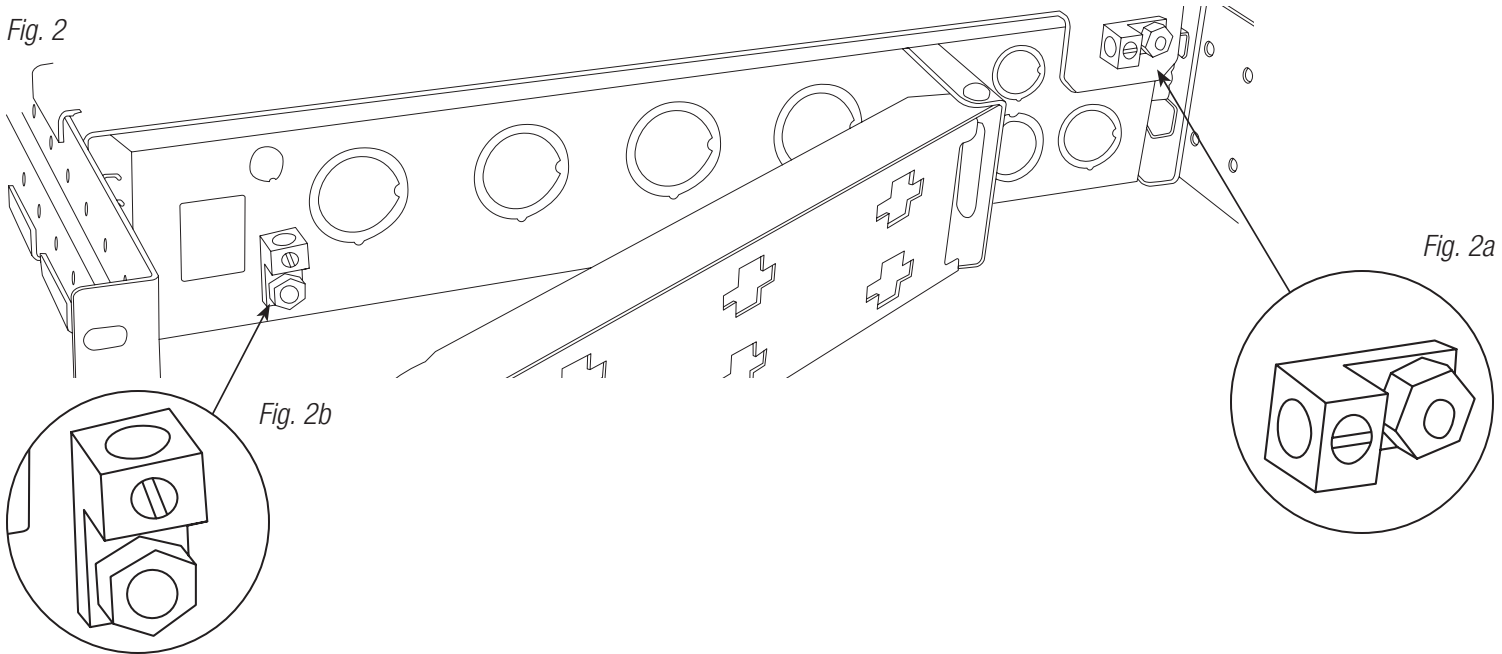
1. Remove backplane from enclosure prior to installing into rack cabinet (do not discard hardware).
2. In order to mount included UL Listed tamper switch (Altronix Model TS112 or equivalent) turn the enclosure upside down. Punch out the knockout in designated location, on the back of the unit, from outside of the drawer (Fig. 1, pg. 2). Insert the tamper switch into the knockout from outside of the drawer with the button facing outwards and spaded connectors inside the drawer. Connect tamper switch wiring to the Access Control Panel input or the appropriate UL Listed reporting device. To activate alarm signal open the rack drawer.
3. Slide the rack enclosure into an open 2U location in the four post rack cabinet.
4. Utilizing proper fasteners attach front ears to the rack rails.
5. Attach the rear of the adjustable slides to the rear rails of the rack cabinet with the proper fasteners.
6. Secure the rack cover (Fig. 2a, pg. 2) and rack drawer to earth ground (Fig. 2b, pg. 2).

Fig. 1  
Back of the drawer, viewed from outside.



Tamper Switch mounting location

Fig. 2



7. Make sure that all internal configurations (wiring, voltage selection, switch settings, etc.) are complete before mounting backplane back into enclosure.
8. Refer to the eFlow Power Supply/Charger Installation Guide for eFlow6NBV and corresponding sub-assembly Installation Guides for the following models: ACM4(CB), PDS8(CB), VR6 for further instructions.

## Assembling and Attaching Z Bracket Wire Management Accessory (included):

Altronix Trove Rack enclosures include Z Bracket, a convenient and reliable wire management accessory.

### Hardware (included):



Ten (10) bolts and



eight (8) lock nuts.

1. Carefully unpack Z Bracket. Do not discard hardware (included) (Fig. 3, pg. 3).
2. Attach arms to each other using bolts and lock nuts (Fig. 3a, pg. 3).
3. Attach the hinge brackets to the ends of arms using bolts and nuts positioning them as shown on (Fig. 3b, pg. 3).
4. Make sure that all nuts are tightened.

Fig. 3a

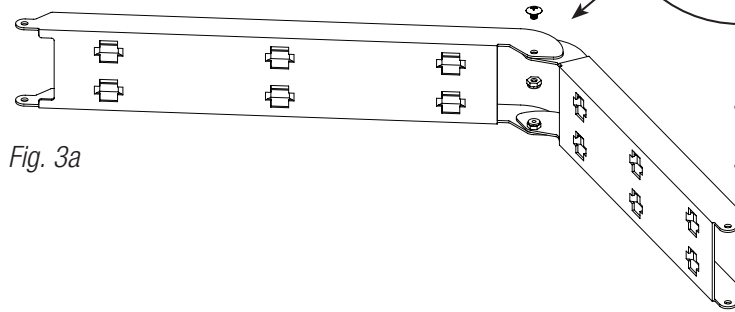


Fig. 3b

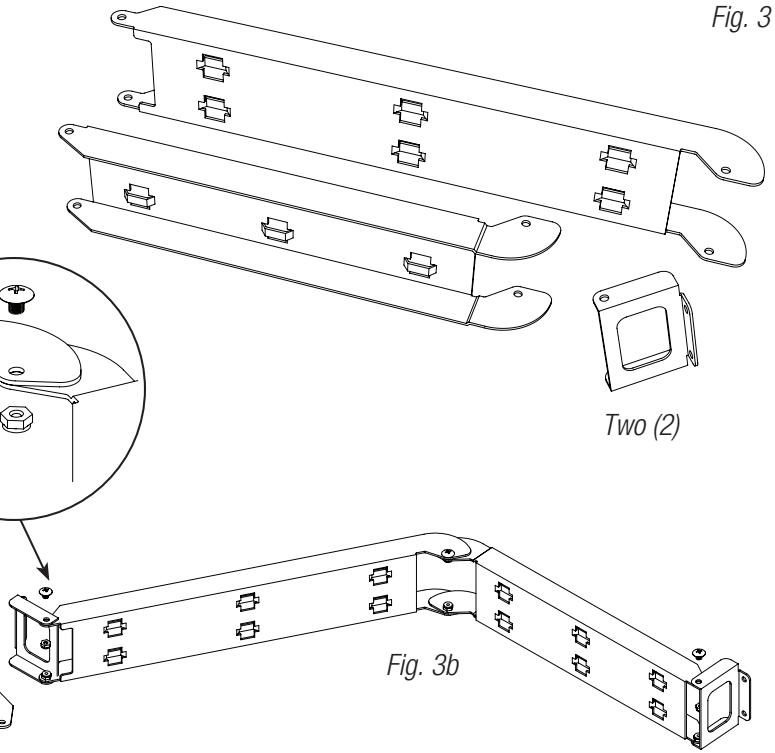


Fig. 3

Two (2)

5. Attach the hinge bracket on the longer side of Z Bracket to the adjustable slide using bolts and lock nuts (included) (Fig. 4, 4a, pg. 3).
6. Attach the hinge bracket on the shorter side of Z Bracket to the rear of the rack enclosure using bolts (included).

Fig. 4

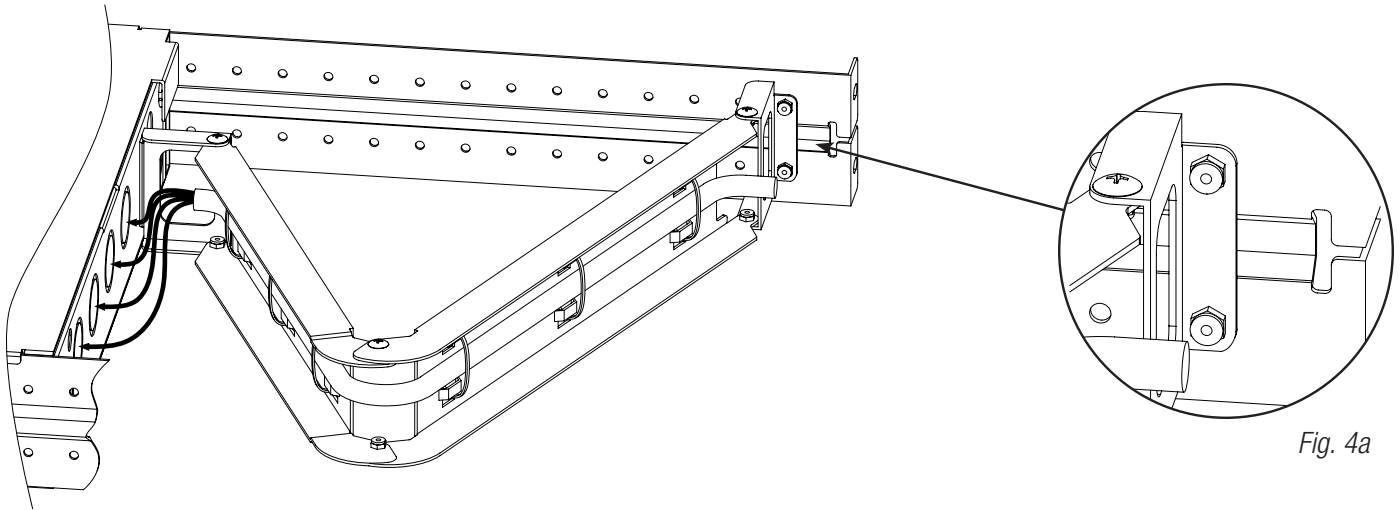


Fig. 4a

## T1RM3CK1(D)V: Configuration of Mercury Boards:

1. Position access controller module over corresponding spacers and depress onto snap on spacers (Fig. 5, pg. 4).
2. Mount backplane to enclosure with hardware.

### Access Controller Position Chart for the Following Models:

| LenelS2 / Mercury Access Controller | Pem Mounting |
|-------------------------------------|--------------|
| LNL-2220 / LP1502                   | (A)          |
| LNL-1320 / MR52                     | (B)          |

Fig. 5

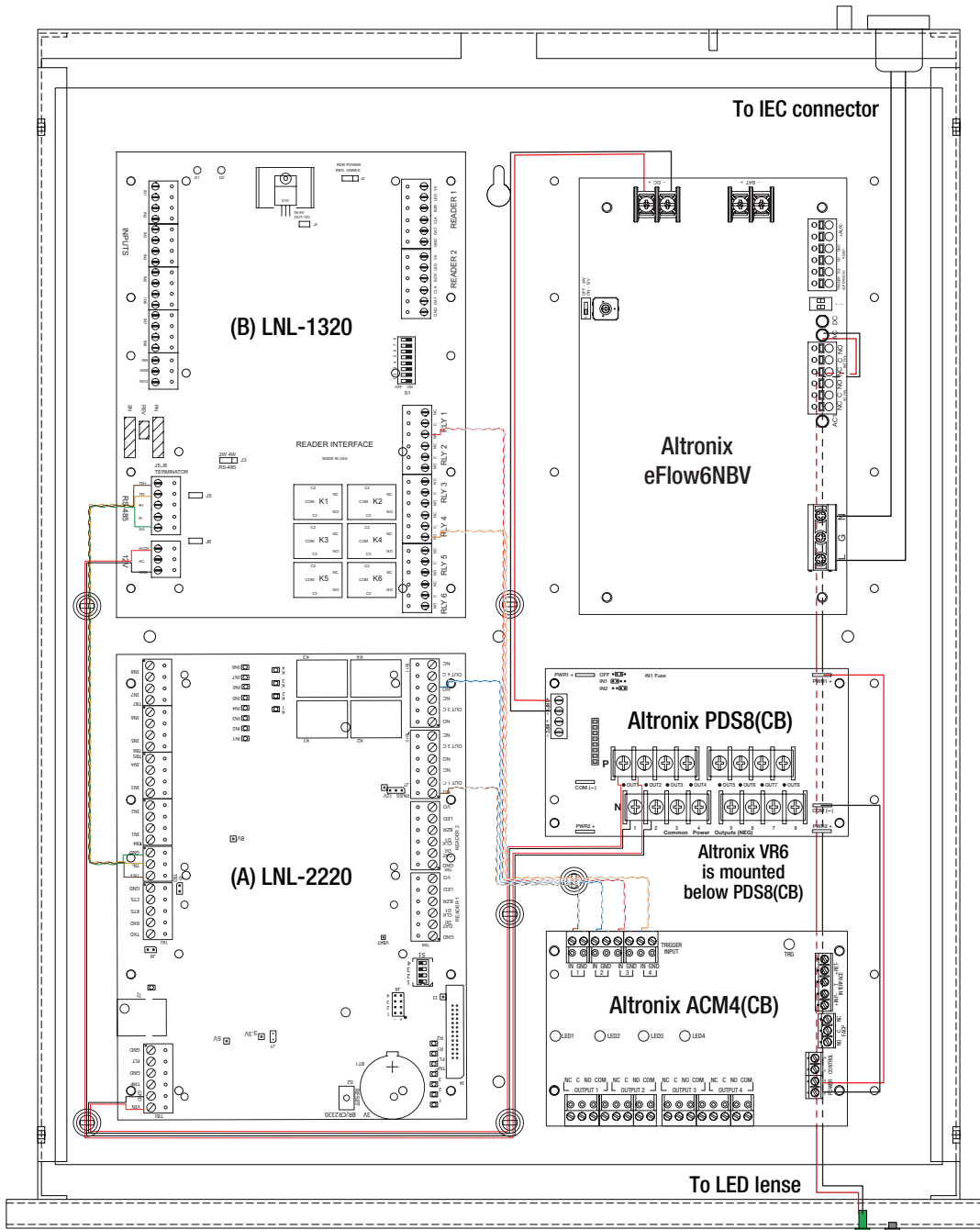
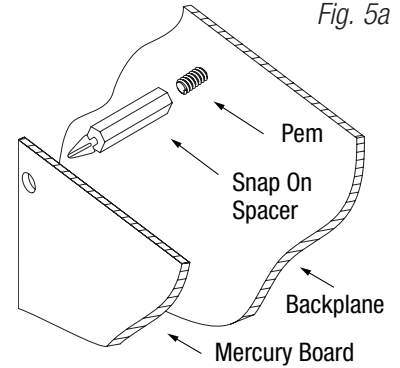


Fig. 5a

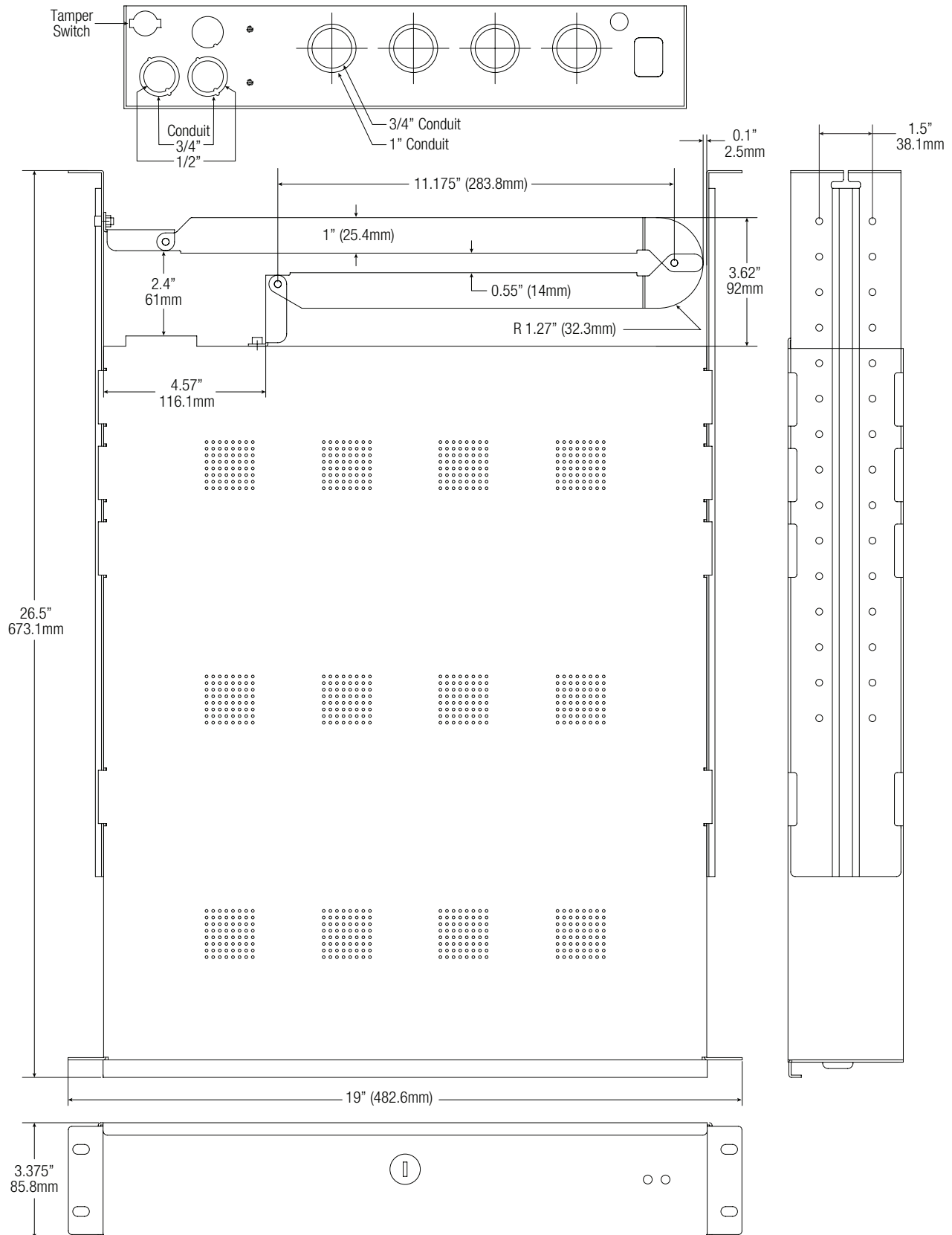


## Notes:

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**Trove1R Enclosure Dimensions (H x W x D approximate):**  
 3.375" x 19.0" x 26.5" (85.8mm x 482.6mm x 673.1mm). Shown with Z Bracket attached



Altronix is not responsible for any typographical errors. Product specifications are subject to change without notice.

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 IIT1RM3CK1(D)V

K21W



T1RM3CK1(D)V Series Installation Guide