TROVE™

Access & Power Integration

T1RAL3F8

8 Door Kit with Fused Outputs

Fully assembled kit includes:
- *Trove1R rack enclosure with Altronix backplane (TAL1R)*
- *(1) eFlow6NB - Power Supply/Charger*
- *(1) VR6 - Voltage Regulator*
- *(1) PDS8 - Fused Dual Output Power Distribution Module*
- *(1) ACMS8 - Fused Dual Output Access Power Controller*

T1RAL33F16

16 Door Kit with Fused Outputs

Fully assembled kit includes:
- *Trove1R rack enclosure with Altronix backplane (TAL1R)*
- *(2) eFlow6NB - Power Supply/Chargers*
- *(2) ACMS8 - Fused Dual Output Access Power Controllers*

Installation Guide

Altronix®

More than just power.™

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Installing Company: _____ Service Rep. Name: _____

Address: _____ Phone #: _____

Overview:

Altronix Trove Rack kits are pre-assembled and consist of Trove1AL1R enclosure/backplane with factory installed Altronix power supply/charger(s) and sub-assemblies.

Configuration Chart:

Altronix Model Number	120VAC 60Hz Input Current (A)	Power Supply Board Input Fuse Rating	Power Supply Board Battery Fuse Rating	Nominal DC Output Voltage [DC] Output Range (VDC)	[Aux] Output Range (VDC)	Maximum Supply Current for Main and Aux. Outputs on Power Supply board and ACMS8 Access Power Controllers' outputs	Fail-Safe/ Fail-Secure or Dry Form "C" Outputs	Current Per ACMS8 Output (A)	ACMS8 Board Input Fuse Rating	ACMS8 Board Output Fuse Rating	PDS8 Board Input Fuse Rating	PDS8 Board Output Fuse Rating
T1RAL3F8	3.5	5A/250V	10A/32V	20.19-26.4	20.19-26.4	24VDC @ 5.6A	8	2.5	15A/32V	3A/32V	10A/32V	3A/32V
T1RAL33F16	7	5A/250V	10A/32V	**Power Supply 1 (24VDC)**			16	2.5	15A/32V	3A/32V	–	–
				20.19-26.4	20.19-26.4	24VDC @ 5.6A						
				Power Supply 2 (12VDC)								
				10.0-13.2	10.1-13.2	12VDC @ 5.3A						

Specifications:

Agency Listings:
- CE European Conformity.

Mechanical:
- Black enclosure with ample knockouts for convenient access.
- Includes: tamper switch, cam lock and mounting hardware.
- Modular 2U standard EIA 19" drawer with extendable slides up to 48".
- Dimensions (H x W x D): 3.25" x 19.0" x 26.5" (82.6mm x 482.6mm x 673.1mm).

Included Accessories:
- One (1) tamper switch (Altronix Model TS112 or equivalent).
- Cam lock.

Available Accessories (not included):
- *RE2:* Rack Mount Battery Enclosure accommodates up to four (4) 12VDC/7AH batteries.
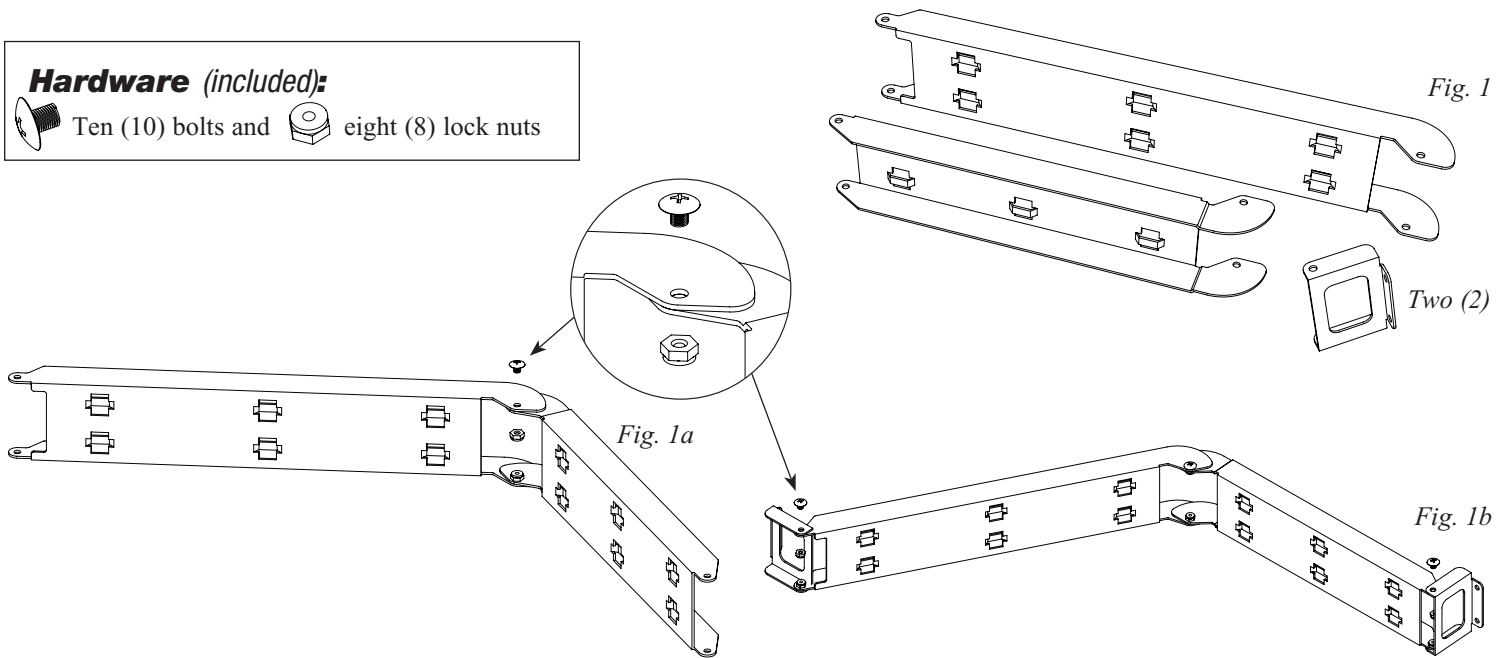- *WM5, WM25, WM100:* Magnetic Cable Tie Mounts (5, 25, 100 counts).

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

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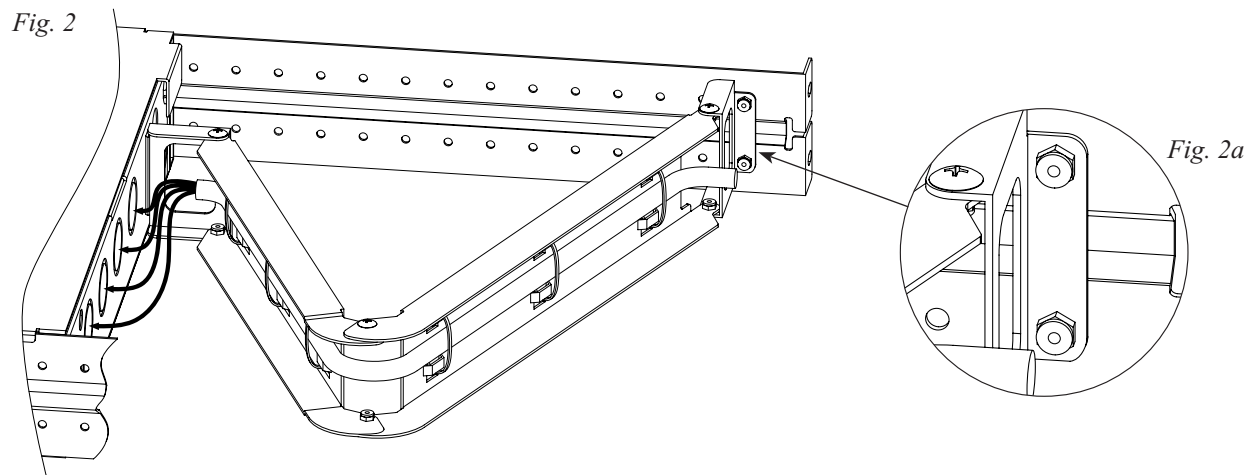1. Carefully unpack Z Bracket. Do not discard hardware (included) *(Fig. 1, pg. 3)*.
2. Attach arms to each other using bolts and lock nuts *(Fig. 1a, pg. 3)*.
3. Attach the hinge brackets to the ends of arms using bolts and nuts positioning them as shown on *Fig. 1b, pg. 3*.
4. Make sure that all nuts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

Fig. 1

Hardware *(included)***:**

Ten (10) bolts and ⬡ eight (8) lock nuts

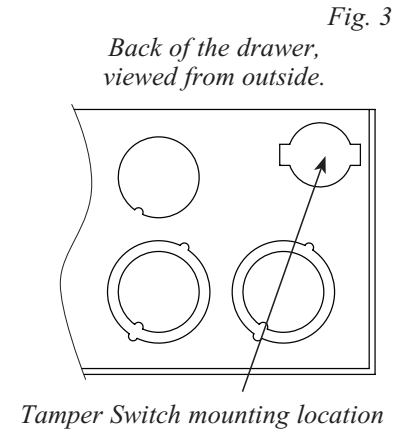*Two (2)*

Fig. 1a

Fig. 1b

5. Attach the hinge bracket on the longer side of Z Bracket to the adjustable rail using bolts and lock nuts (included) *(Fig. 2, 2a, 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. 2

Fig. 2a

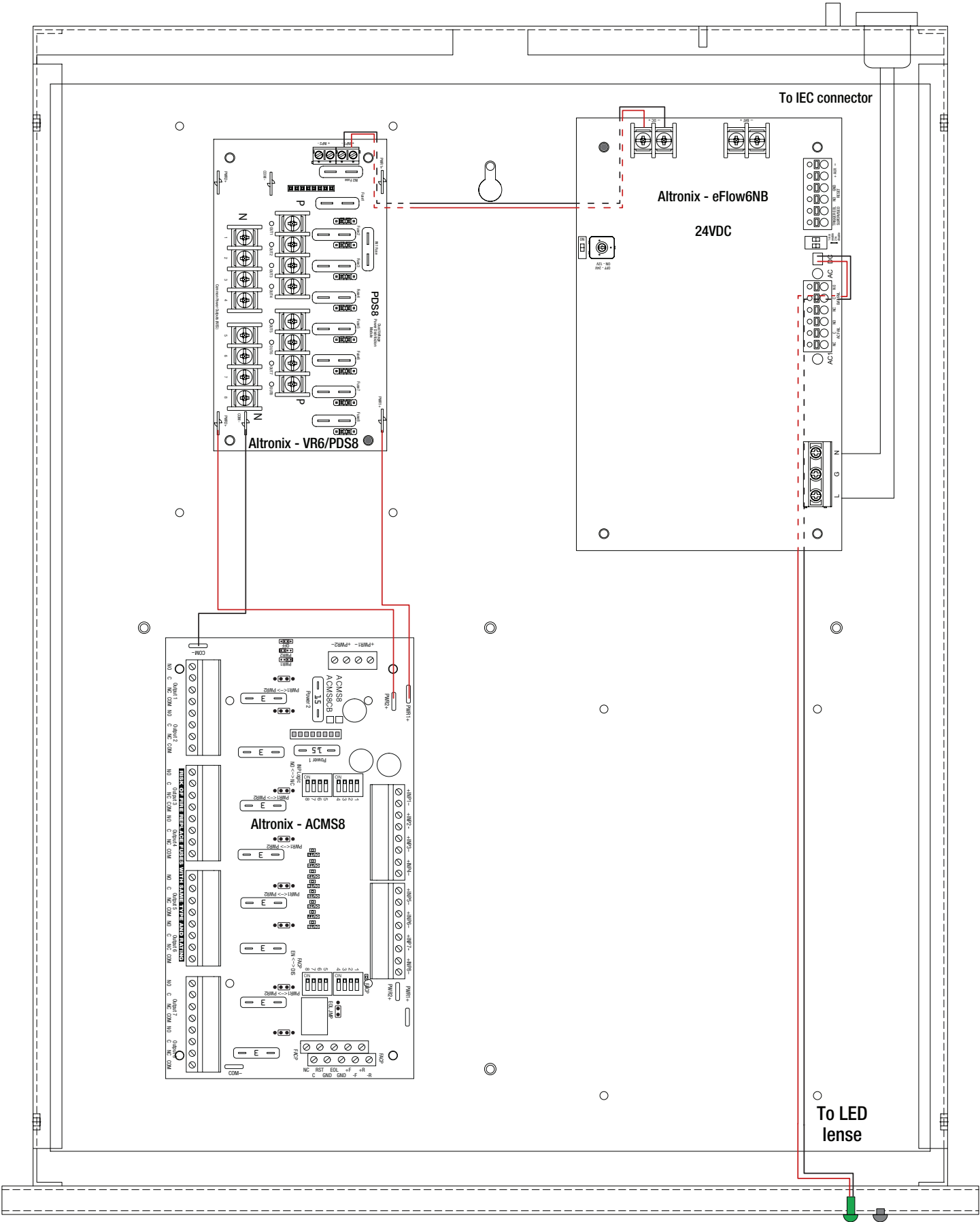# Installation Instructions for Altronix Trove Rack Kits:

Wiring methods shall be in accordance with the National Electrical Code/NFPA 70/ANSI, and with all local codes and authorities having jurisdiction. Product is intended for indoor use only.

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. 3, pg. 4)*.
   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. Ensure that all internal cofigurations (voltage selection, switch settings, etc.) are completed before mounting backplane back into Trove rack enclosure.
7. Refer to the *eFlow Power Supply/Charger Installation Guide* for eFlow6NB and corresponding sub-assembly *Installation Guides* for the following models: ACMS8, PDS8, VR6 for further instructions.
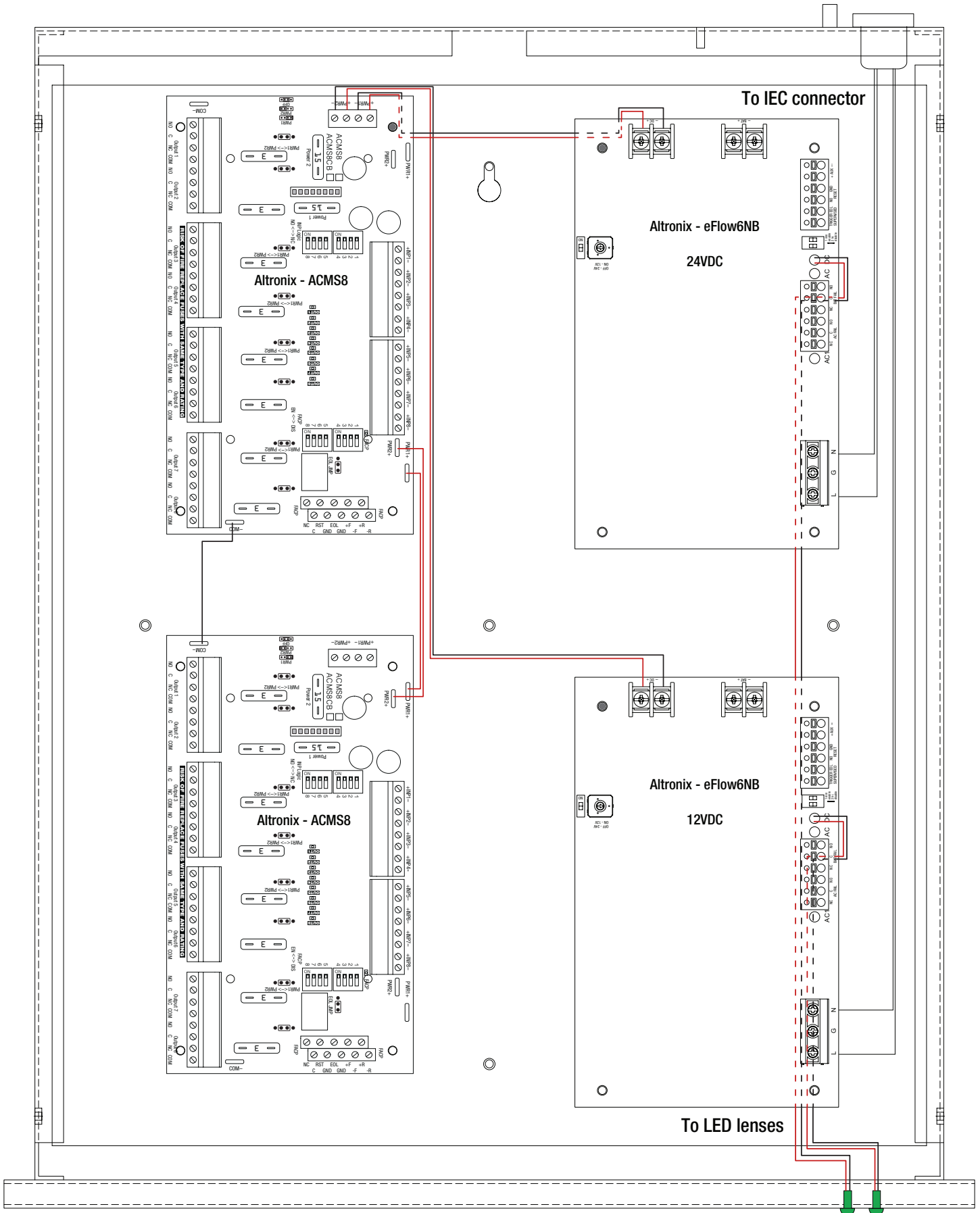
Fig. 3

*Back of the drawer,
viewed from outside.*

Tamper Switch mounting location

T1RAL3F8 Configuration

Fig. 4

To IEC connector

Altronix - eFlow6NB

24VDC

PDS8

Altronix - VR6/PDS8

Altronix - ACMS8

**To LED
lense**

T1RAL33F16 Configuration

Fig. 5

To IEC connector

Altronix - ACMS8

Altronix - eFlow6NB

24VDC

Altronix - ACMS8

Altronix - eFlow6NB

12VDC

To LED lenses

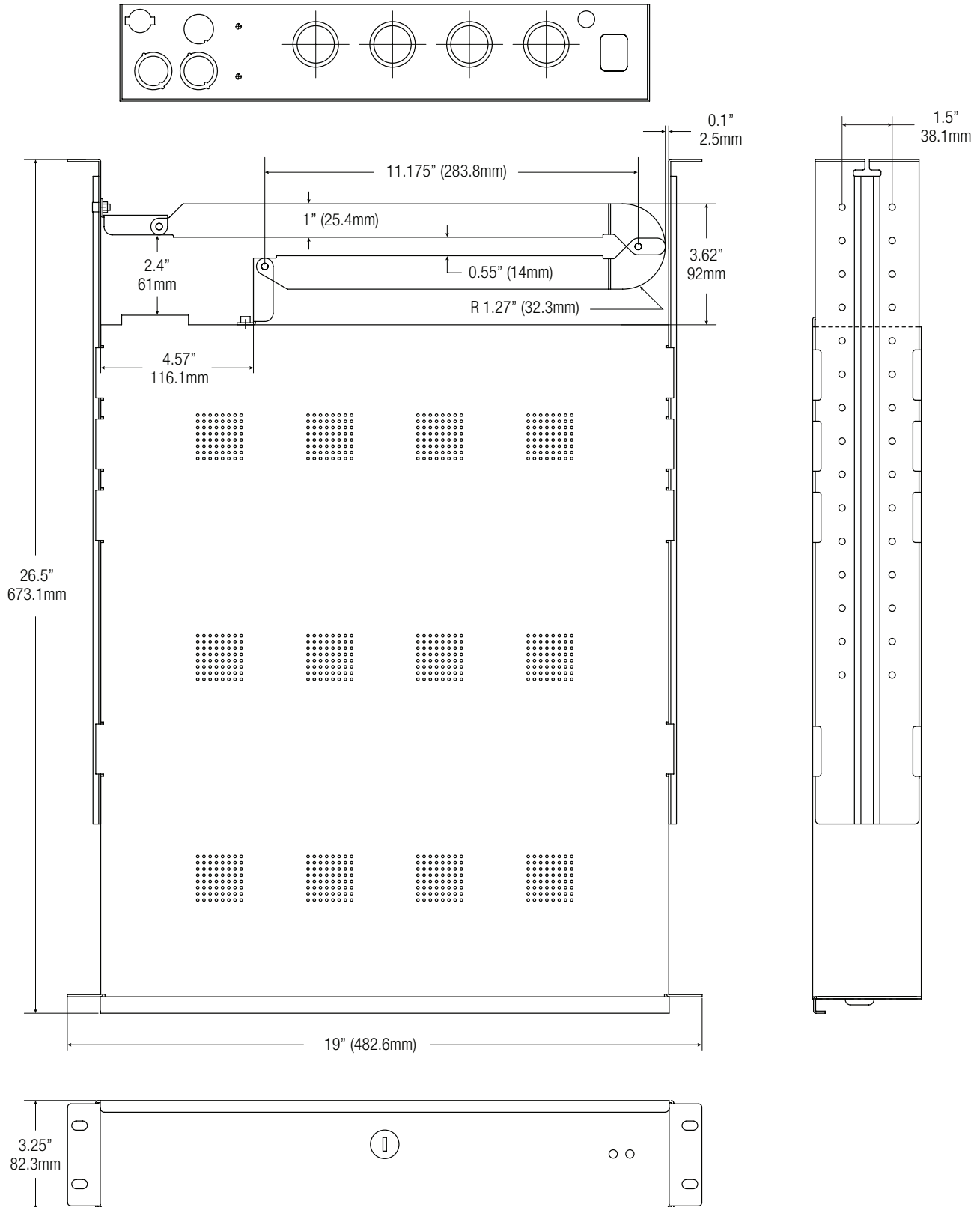**Notes:**

Trove1R Enclosure Dimensions *(H x W x D)*:

3.25" x 19.0" x 26.5" (82.6mm x 482.6mm x 673.1mm). Shown with Z Bracket attached.

0.1"
2.5mm

1.5"
38.1mm

11.175" (283.8mm)

1" (25.4mm)

2.4"
61mm

0.55" (14mm)

3.62"
92mm

R 1.27" (32.3mm)

4.57"
116.1mm

26.5"
673.1mm

19" (482.6mm)

3.25"
82.3mm

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