TROVE™

Access & Power Integration

T1RAL13F8P8

8 Door Altronix Kit with Fused Outputs

Fully assembled kit includes:

- Trove1R rack enclosure with TAL1R Altronix backplane
- (1) eFlow4NB - Power Supply/Charger
- (1) eFlow6NB - Power Supply/Charger
- (1) ACM8 - Fused Access Power Controller
- (1) PD8UL - Fused Power Distribution Module

All components of this Trove kit are UL Listed sub-assemblies.
Please refer to the included corresponding Sub-Assembly Installation Guides for further information.

Installation Guide

All registered trademarks are property of their respective owners.

CE

Altronix®

More than just power.™

Installing Company: _____ Service Rep. Name: _____

Address: _____ Phone #: _____

Overview:

Altronix T1RAL13F8P8 Trove Rack kit is pre-assembled and consist of Trove1AL1R enclosure/backplane with factory installed Altronix power supply/chargers and sub-assemblies.

Configuration Chart:

Altronix Model Number	120VAC 60Hz Input Current (A)	Power Supply Boards' Input Fuse Rating	Power Supply Boards' Battery Fuse Rating	Nominal DC Output Voltage		Maximum Supply Current for Main and Aux. Outputs on Power Supply board and ACM8 Access Power Controller's outputs	Fail-Safe/Fail-Secure or Dry Form "C" Outputs	Additional Fuse Protected Outputs	Current Per ACM8 Output	ACM8 Board Input Fuse Rating	ACM8 Board Output Fuse Rating	PD8UL Board Input Fuse Rating	PD8UL Board Output Fuse Rating
				[DC] Output Range (VDC)	[Aux] Output Range (VDC)								
T1RAL13F8P8	7	5A/ 250V	10A/ 32V	Power Supply 1 (24VDC)			8	8	2.5A	15A/ 32V	3.5A/ 250V	–	3.5A/ 250V
				20.19-26.4	20.19-26.4	24VDC @ 5.7A							
				Power Supply 2 (12VDC)									
				10.0-13.2	10.1-13.2	12VDC @ 4A							

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): 3.375" x 19.0" x 26.5" (85.8mm 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).

Installation Instructions for T1RAL13F8P8:

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 Accesory *(refer to Z Bracket Installation pg. 4)*

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. 3)*. 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. 3)* and rack drawer to earth ground *(Fig. 2b, pg. 3)*.
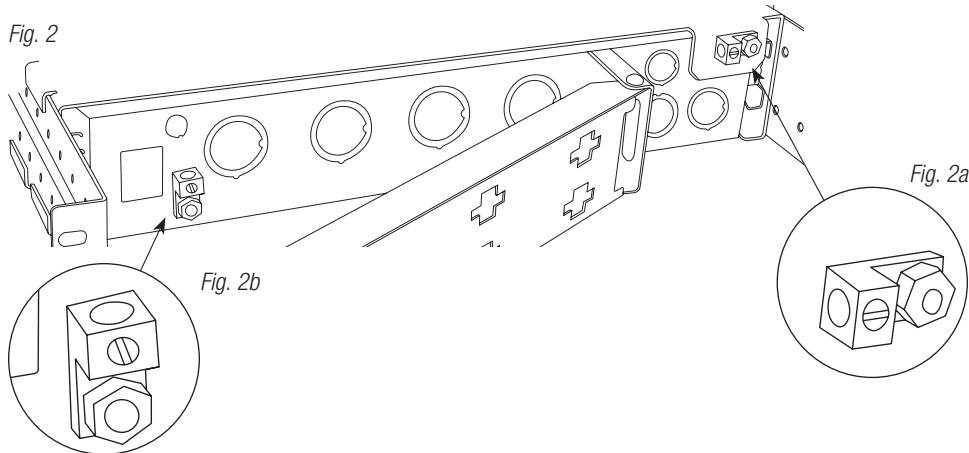
Fig. 1
Back of the drawer, viewed from outside.
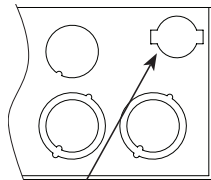
Tamper Switch mounting location

Fig. 2

Fig. 2a

Fig. 2b

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 eFlow4NB and eFlow6NB and corresponding sub-assembly Installation Guides for the following models: ACM8, PD8UL 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. 4)*.
2. Attach arms to each other using bolts and lock nuts *(Fig. 3a, pg. 4)*.
3. Attach the hinge brackets to the ends of arms using bolts and nuts positioning them as shown on *(Fig. 3b, pg. 4)*.
4. Make sure that all nuts are tightened.
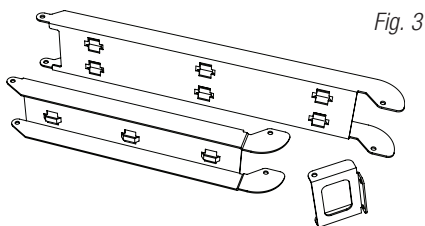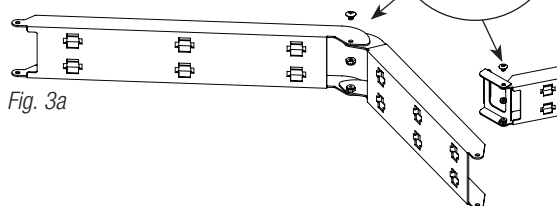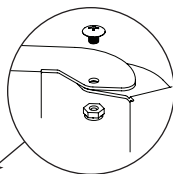
Fig. 3

Two (2)

Fig. 3a

Fig. 3b

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. 4)*.
6. Attach the hinge bracket on the shorter side of Z Bracket to the rear of the rack enclosure using bolts (included).
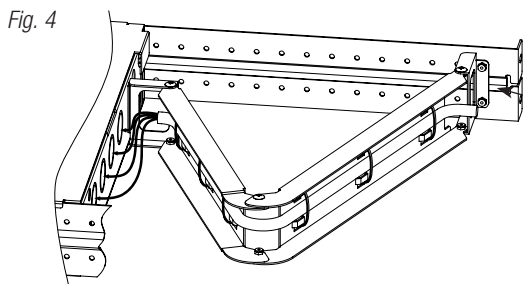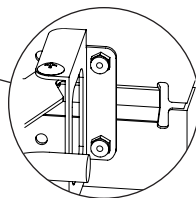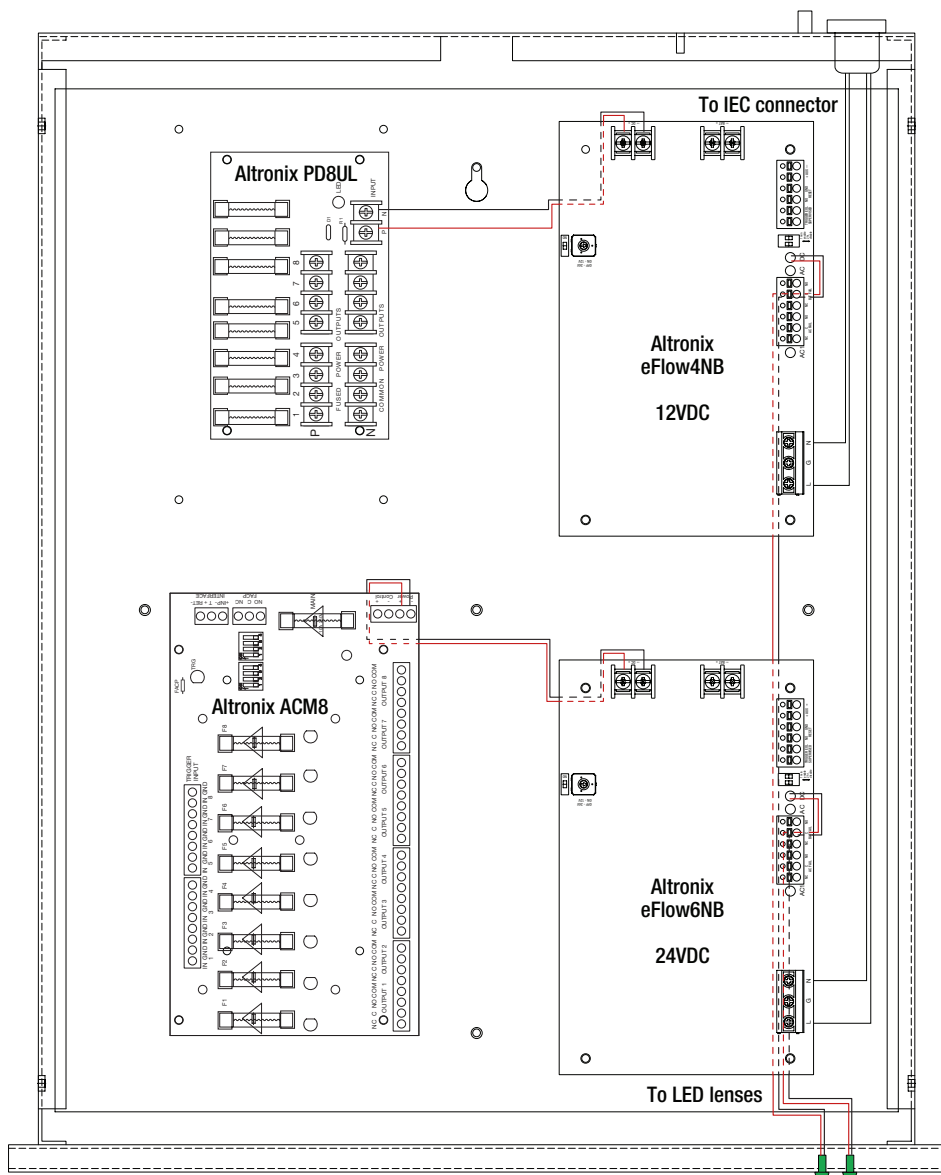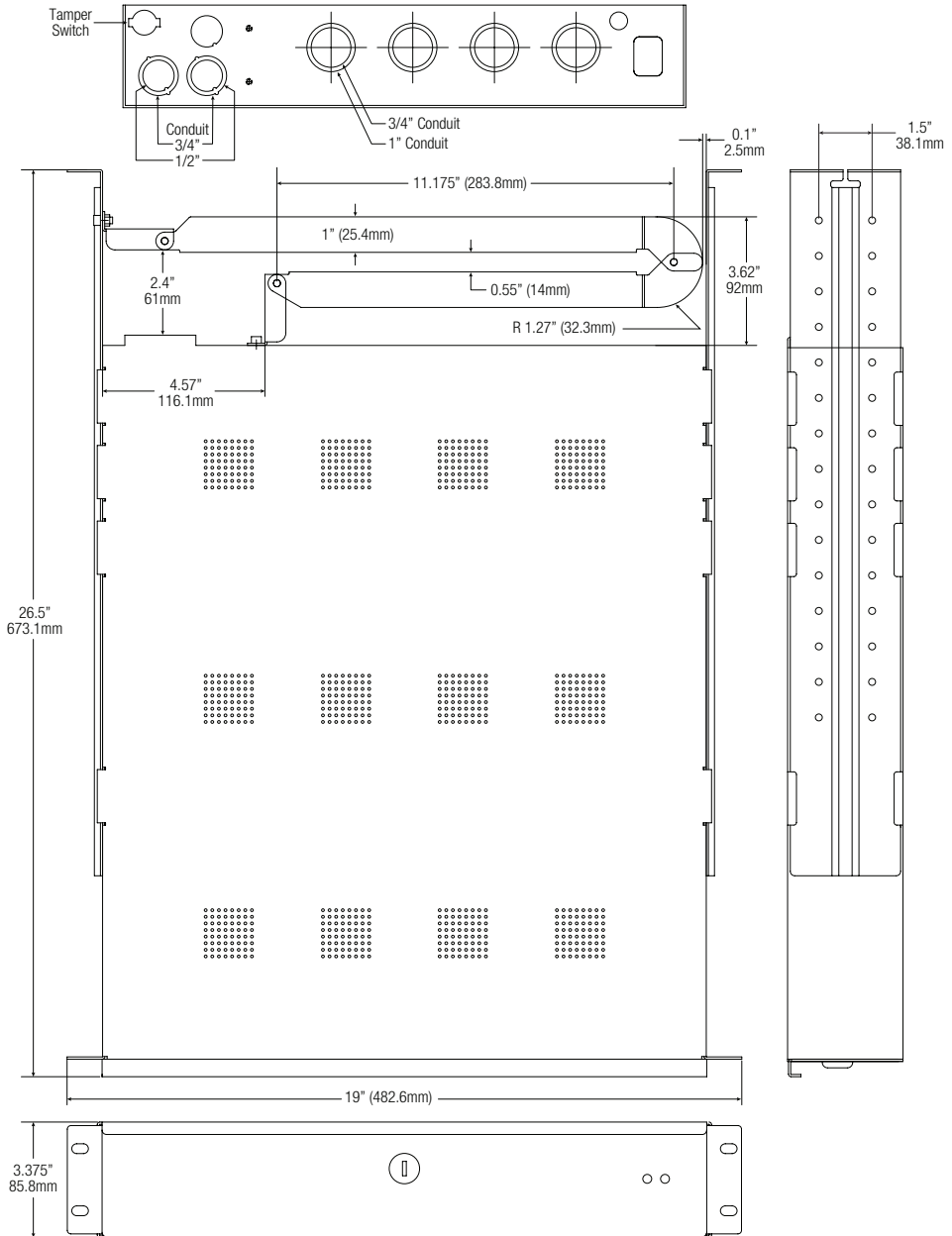
Fig. 4

Fig. 4a

T1RAL13F8P8 Configuration:

Fig. 5

To IEC connector

Altronix PD8UL

Altronix
eFlow4NB

12VDC

Altronix ACM8

Altronix
eFlow6NB

24VDC

To LED lenses

Notes:

Notes:

Trove1R Enclosure Dimensions:

3.375" x 19.0" x 26.5" (85.8mm x 482.6mm x 673.1mm). Shown with Z Bracket attached.

Tamper
Switch

Conduit
3/4"
1/2"

3/4" Conduit
1" Conduit

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)

3.375"
85.8mm

MEMBER

T1RAL13F8P8 Installation Guide