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Altronix T1SAK34 4 Door Kit with Fused Outputs Installation Guide

Contents

Altronix T1SAK34 4 Door Kit with Fused Outputs

Product Information

Altronix/SALTO Kits

The Altronix Trove SALTO Kits are pre-assembled kits that include an enclosure/backplane, power supply/charger, fused access power controller, voltage regulator, and dual input power distribution module. These kits come in three models: T1SAK34, T2SAK78, and T2SAK7512. The kits can accommodate various combinations of SALTO modules for up to twelve doors in a single enclosure. All components of these Trove kits are UL Listed as sub-assemblies. The Trove1SA1 and Trove2SA2 enclosures are indoor use-only products. The installation of these kits should be done in accordance with the National Electrical Code/NFPA 70/ANSI and with all local codes and authorities having jurisdiction.

Below is a configuration chart for each Altronix model:

Altronix Model Number	T1SAK34	T2SAK78	T2SAK7512
Nominal DC Output Voltage	3.5	4.2	6.8
Power Supply 1	5A/250V	5A/250V	5A/250V
Output Range (VDC)	N/A	20.19-26.4	20.17-26.4
Power Supply 2	N/A	N/A	10.0-13.2/24VDC @ 9.2A
Output Range (VDC)	N/A	N/A	10.0-13.2/24VDC @ 9.2A
Maximum Supply Current for Main and Aux. Outputs on Power Supply board and ACM4/ACM8 Access Power Controller's outputs	4A	8A	12A

Product Usage Instructions

1. Remove the backplane(s) from the enclosure. Do not discard hardware.
2. Mark and predrill holes in the wall to line up with the top three keyholes in the enclosure. Install three upper fasteners and screws in the wall with the screw heads protruding.
3. Place the enclosure's upper keyholes over the three upper screws, level, and secure.
4. Refer to the included corresponding Sub-Assembly Installation Guides for further information on how to install each component of the kit.

It is important to note that wiring methods should be in accordance with the National Electrical Code/NFPA 70/ANSI, and with all local codes and authorities having jurisdiction. If you have any questions or concerns about the installation or usage of the Altronix/SALTO Kits, please refer to the product manual or contact the manufacturer for assistance.

Models Include

T1SAK34
4 Door Kit with Fused Outputs Fully assembled kit includes:

- Trove1 enclosure with TSA1 Altronix/SALTO backplane
- (1) AL600ULXB – Power Supply/Charger
- (1) ACM4 – Fused Access Power Controller
- (1) VR6 – Voltage Regulator
- (1) PDS8 – Dual Input Power Distribution Module

T2SAK78
8 Door Kit with Fused Outputs Fully assembled kit includes:

- Trove2 enclosure with TSA2 Altronix/SALTO backplane
- (1) AL1024ULXB2 – Power Supply/Charger
- (1) ACM8 – Fused Access Power Controller
- (1) VR6 – Voltage Regulator
- (1) PDS8 – Dual Input Power Distribution Module

T2SAK7512
12 Door Kit with Fused Outputs Fully assembled kit includes:

- Trove2 enclosure with TSA2 Altronix/SALTO backplane
- (1) AL1024ULXB2 – Power Supply/Charger
- (1) AL1012ULXB – Power Supply/Charger
- (1) ACM8 – Fused Access Power Controller
- (1) ACM4 – Fused Access Power Controller
- (1) PDS8 – Dual Input Power Distribution Module

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

Installation Guide

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Rev. TSAKL122121

- Installing Company:
- Service Rep. Name:
- Address:
- Phone #:

Overview

Altronix Trove SALTO kits are pre-assembled and consist of Trove1SA1 or Trove2SA2 enclosure/backplane with factory installed Altronix power supply/charger(s) and sub-assemblies. These kits also accommodate various combinations of SALTO modules for up to twelve (12) doors in a single enclosure.

Configuration Chart

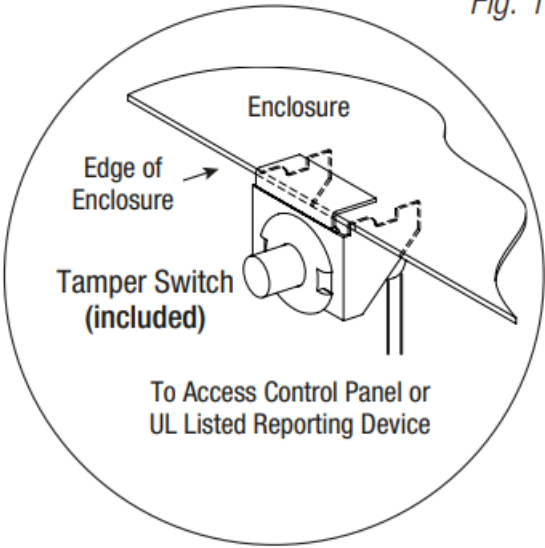| Altronix Model Number	115V AC 60 Hz Input Current (A)	Power Supply Board Input Fuse Rating	Power Supply Board Battery Fuse Rating	Nominal DC Output Voltage		Maximum Supply Current for Main and Aux. Outputs on Power Supply board and ACM4/ ACM8 Access Power Controller's outputs	Fail-Safe/Fail-Secure or Dry Form "C" Outputs	Current Per ACM4/ACM8 Output (A)	ACM4/ACM8 Board Input Fuse Rating	ACM4/ACM8 Board Output Fuse Rating	PDS8 Board Input Fuse Rating	PDS8 Board Output Fuse Rating
				Power Supply 1 Output Range (VDC)	Power Supply 2 Output Range (VDC)							
T1SAK34	3.5	5A/250V	N/A	20.19-26.4	–	24VDC @ 5.6A	4	2.5	10A/32V	3A/32V	10A/32V	3A/32V
T2SAK78	4.2	5A/250V	15A/32V	20.17-26.4	–	24VDC @ 9.2A	8	2.5	10A/250V	2.5A/250V	10A/32V	3A/32V
T2SAK7512	6.8	5A/250V	15A/32V	20.17-26.4	10.03-13.2	12VDC @ 9.3A 24VDC @ 9.2A	12	2.5	10A/250V	2.5A/250V	10A/32V	3A/32V

Installation Instructions

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(s) from enclosure. Do not discard hardware.
2. Mark and predrill holes in the wall to line up with the top three keyholes in the enclosure. Install three upper fasteners and screws in the wall with the screw heads protruding. Place the enclosure's upper keyholes over the three upper screws, level and secure. Mark the position of the lower three holes. Remove the enclosure. Drill the lower holes and install the three fasteners. Place the enclosure's upper keyholes over the three upper screws. Install the three lower screws and make sure to tighten all screws.
3. Mount included UL Listed tamper switch (Altronix Model TS112 or equivalent) in the desired location, opposite hinge. Slide the tamper switch bracket onto the edge of the enclosure approximately 2" from the right side (Fig. 1, pg. 2). Connect the tamper switch wiring to the Access Control Panel input or the appropriate UL Listed reporting device. To activate alarm signal open the door of the enclosure.
4. Mount SALTO modules to TSA2 backplane, refer to pg. 3, 4, 5.
5. Refer to the ULXB Power Supply/Charger Installation Guide for AL600ULXB, AL1012ULXB, AL1024ULXB2

and corresponding Sub-Assembly Installation Guides for ACM4, ACM8, PDS8, VR6 for further installation instructions.

Fig. 1

Hardware

⬭⊐ Nylon Spacer | ⫸ 5/16" Pan Head Screw | ⬡ Lock Nut

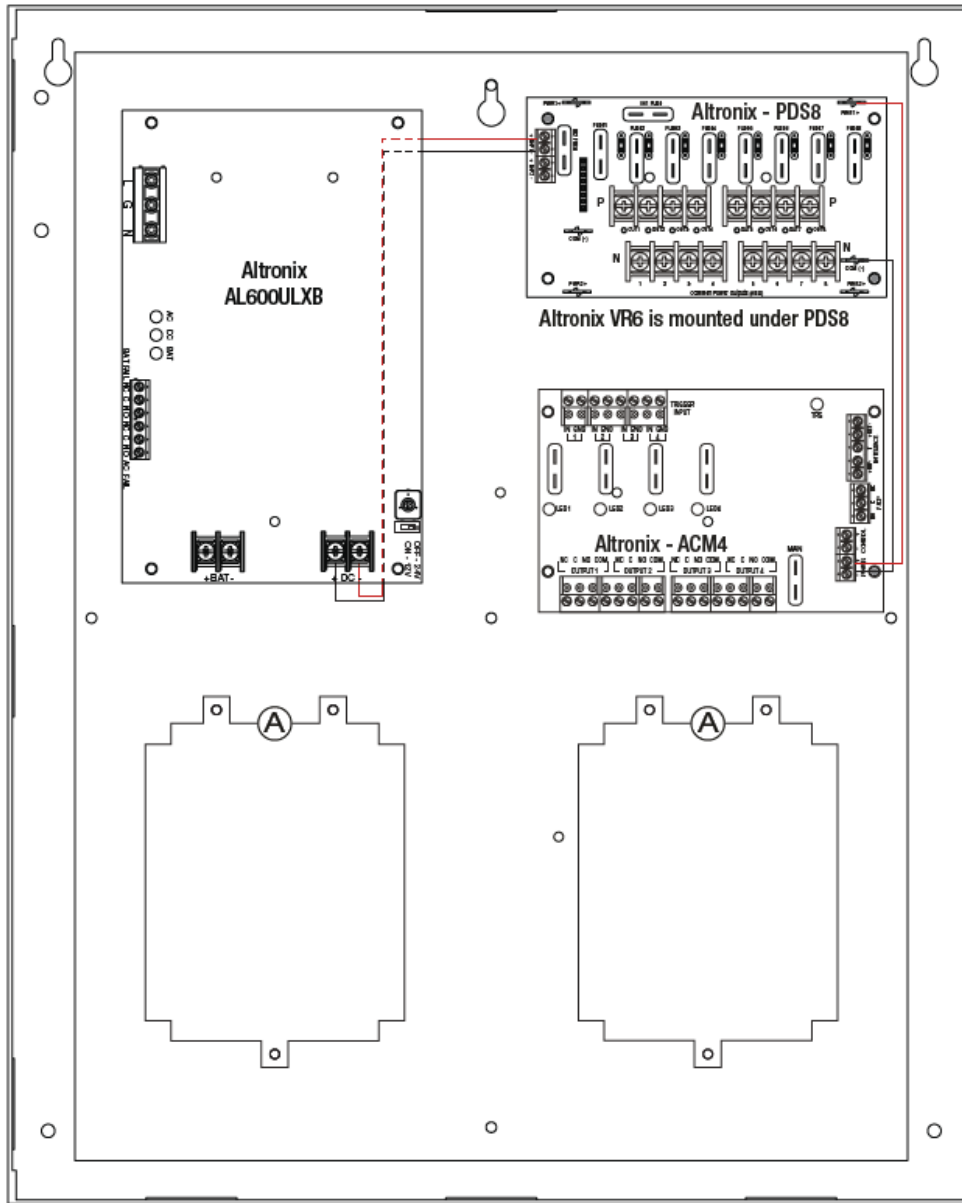**T1SAK34: Configuration of SALTO Modules**

1. Fasten spacers onto metal pems configuration (A) of backplane (Fig. 2, pg. 3).
2. Position SALTO modules over corresponding spacers and mount them utilizing pan head screws (provided) (Fig. 2a, pg. 3).
3. Mount backplane to enclosure with hardware.

Access Controller Position Chart

for the Following Models

SALTO Access Controller	Pem Mounting
CU42E0, CU4200 or CU4EB8	A

Fig. 2

Fig. 2a

Altronix - PDS8

Altronix VR6 is mounted under PDS8

Altronix
AL600ULXB

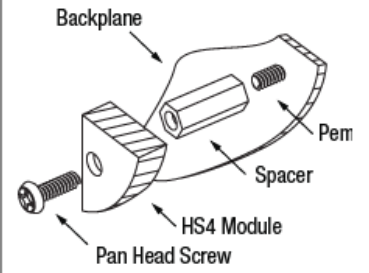Altronix - ACM4

Backplane

Pem

Spacer

HS4 Module

Pan Head Screw

T2SAK78: Configuration of SALTO Modules:

1. Fasten spacers onto metal pems configuration (A) of backplane (Fig. 3, pg. 4).
2. Position SALTO modules over corresponding spacers and mount them utilizing pan head screws (provided) (Fig. 3a, pg. 4).
3. Mount backplane to enclosure with hardware.

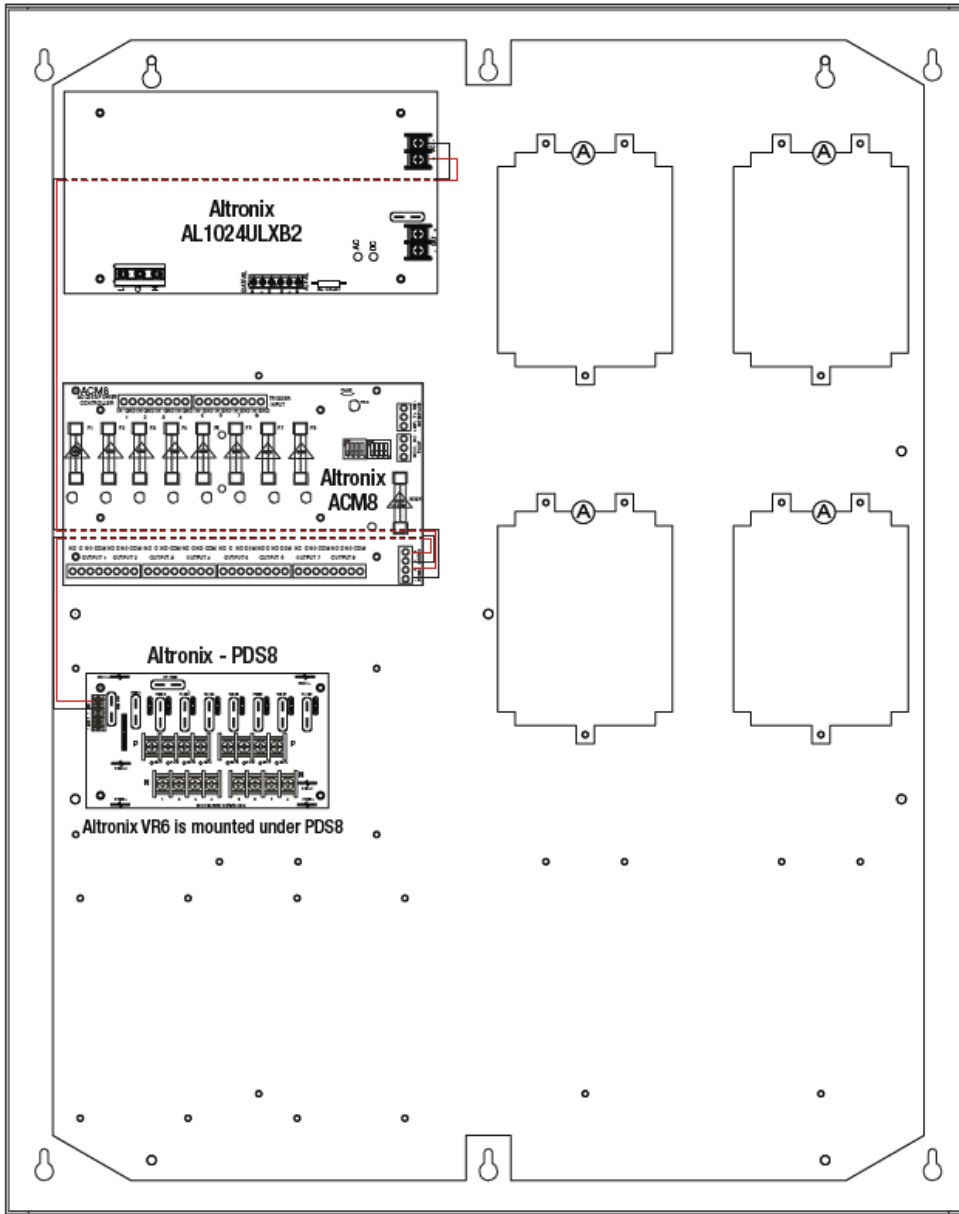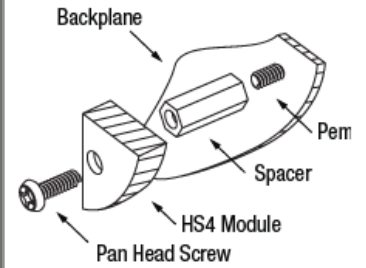**Access Controller Position Chart for the Following Models:**

Fig. 3

Fig. 3a

Altronix
AL1024ULXB2

Altronix
ACM8

Altronix - PDS8

Altronix VR6 is mounted under PDS8

Backplane

Pem

Spacer

HS4 Module

Pan Head Screw

T2SAK7512: Configuration of SALTO Modules:

1. Fasten spacers onto metal pems configuration (A) of backplane (Fig. 4, pg. 5).
2. Position SALTO modules over corresponding spacers and mount them utilizing pan head screws (provided) (Fig. 4a, pg. 5).
3. Mount backplane to enclosure with hardware.

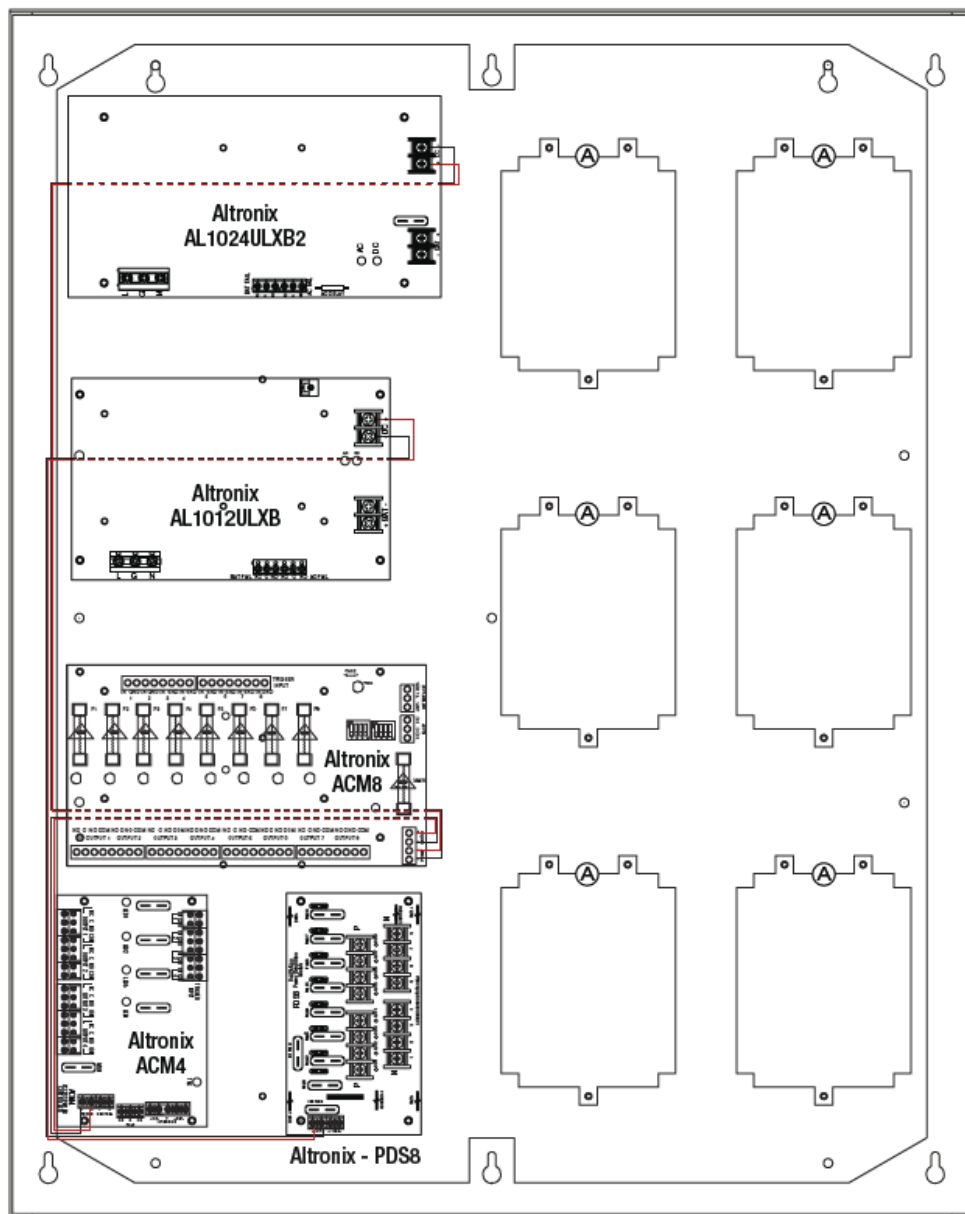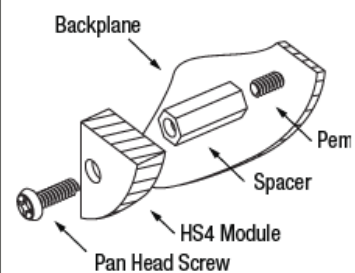**Access Controller Position Chart for the Following Models:**
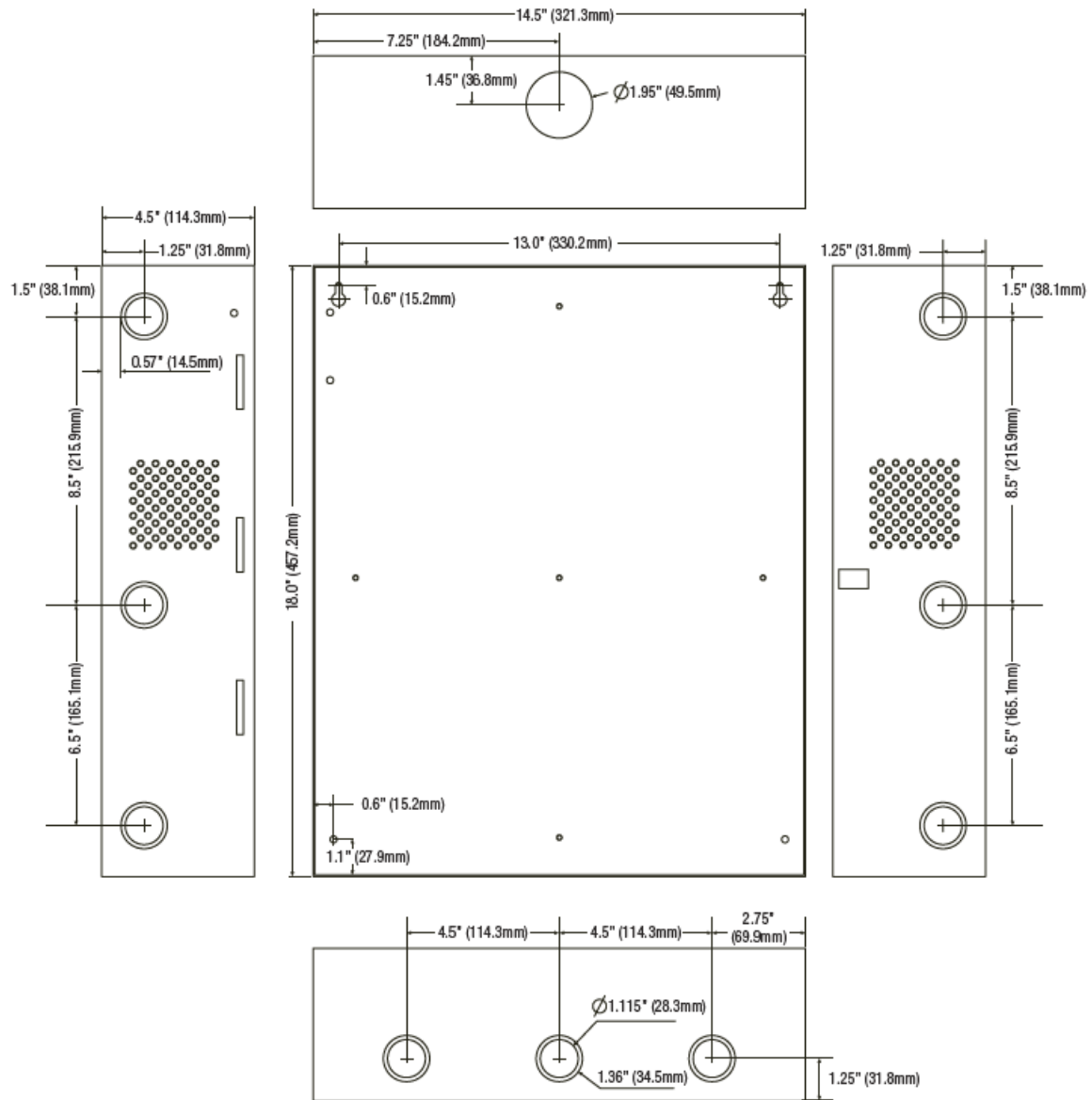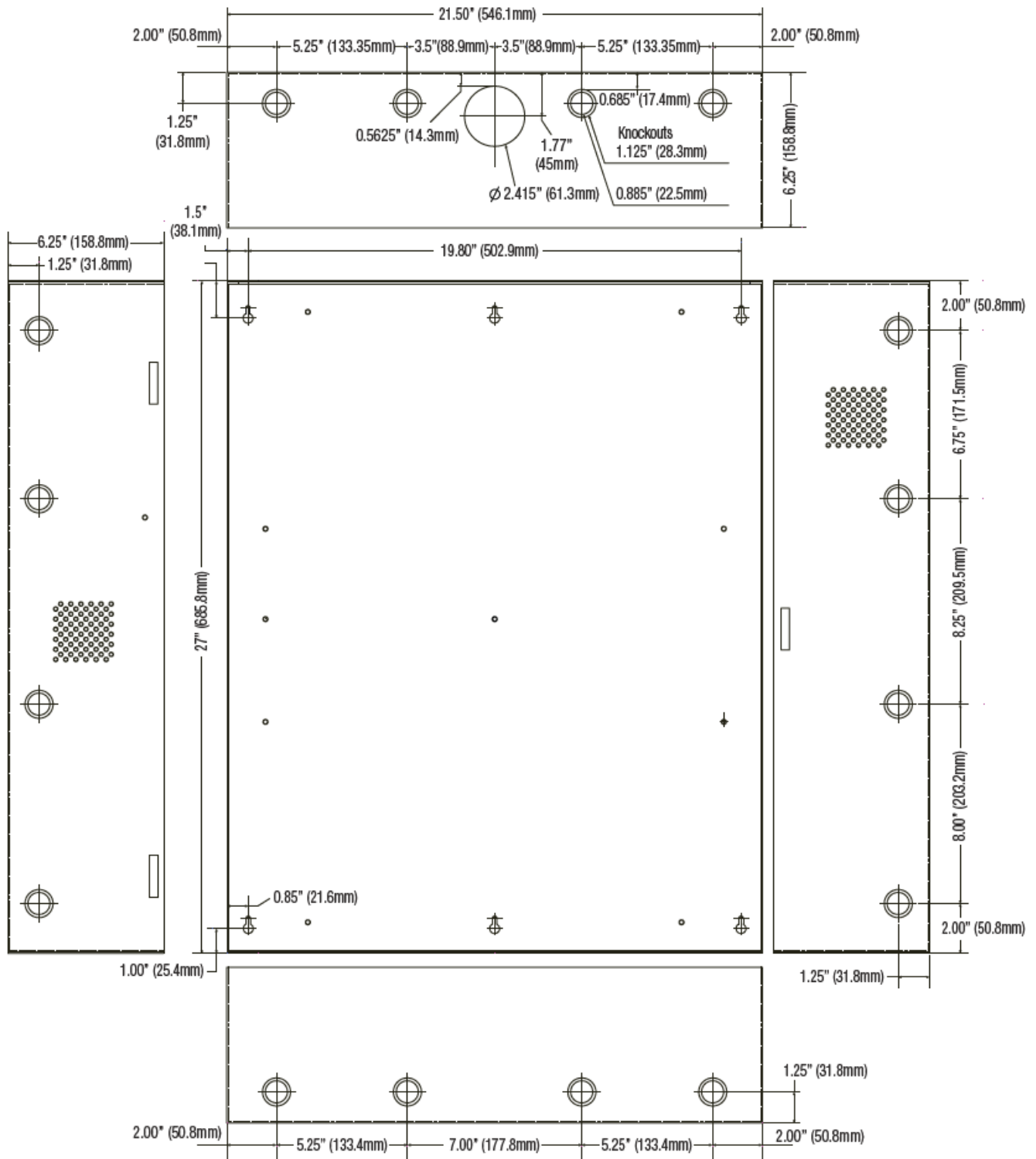
Fig. 4

T1SAK34 Enclosure Dimensions (H x W x D): 18" x 14.5" x 4.625" (457mm x 368mm x 118mm)

14.5" (321.3mm)

7.25" (184.2mm)

1.45" (36.8mm)

Ø1.95" (49.5mm)

4.5" (114.3mm)

1.25" (31.8mm)

1.5" (38.1mm)

0.57" (14.5mm)

8.5" (215.9mm)

6.5" (165.1mm)

13.0" (330.2mm)

0.6" (15.2mm)

18.0" (457.2mm)

0.6" (15.2mm)

1.1" (27.9mm)

1.25" (31.8mm)

1.5" (38.1mm)

8.5" (215.9mm)

6.5" (165.1mm)

4.5" (114.3mm)

4.5" (114.3mm)

2.75" (69.9mm)

Ø1.115" (28.3mm)

1.36" (34.5mm)

1.25" (31.8mm)

Altronix is not responsible for any typographical errors.

Documents / Resources

Altronix T1SAK34 4 Door Kit with Fused Outputs [pdf] Installation Guide
T1SAK34 4 Door Kit with Fused Outputs, T1SAK34, 4 Door Kit with Fused Outputs, Fused Outputs

References

- **Altronix Home**