Models Include:

T1SFK3
4-Door Kit
Fully assembled kit includes:
- Trove1 enclosure with
  TSF1 Altronix/Swiftlane Controls backplane
- One (1) AL600ULXB - Power Supply/Charger

T1SFK34
4-Door Kit with Fused Relay Outputs
Fully assembled kit includes:
- Trove1 enclosure with
  TSF1 Altronix/Swiftlane Controls backplane
- One (1) AL600ULXB - Power Supply/Charger
- One (1) ACM4 - Fused Access Power Controller

T1SFK34D
4-Door Kit with PTC Relay Outputs
Fully assembled kit includes:
- Trove1 enclosure with
  TSF1 Altronix/Swiftlane Controls backplane
- One (1) AL600ULXB - Power Supply/Charger
- One (1) ACM4CB - PTC Access Power Controller

T1SFK38S
4-Door Kit with Fused Power Outputs
Fully assembled kit includes:
- Trove1 enclosure with
  TSF1 Altronix/Swiftlane Controls backplane
- One (1) AL600ULXB - Power Supply/Charger
- One (1) VR6 - Voltage Regulator
- One (1) PDS8 - Dual Input/Output
  Fused Power Distribution Module

T1SFK38SD
4-Door Kit with PTC Power Outputs
Fully assembled kit includes:
- Trove1 enclosure with
  TSF1 Altronix/Swiftlane Controls backplane
- One (1) AL600ULXB - Power Supply/Charger
- One (1) VR6 - Voltage Regulator
- One (1) PDS8CB - Dual Input/Output
  PTC Power Distribution Module

Installation Guide

CE

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Rev. T1SFX111621

Installing Company: _____ Service Rep. Name: _____

Address: _____ Phone #: _____

Overview:

Altronix Trove Swiftlane kits are pre-assembled and consist of Trove enclosure/bakcplane with factory installed Altronix power supply/chargers and sub-assemblies. Each kit accommodates one (1) Swiftlane Controls Door Controller 5 (SL-DCU-5) boards.

Configuration Chart:

Altronix Model Number	120VAC 60Hz Input Current (A)	Power Supply Board Input Fuse Rating	Nominal DC Output Voltage [DC]		Maximum Supply Current for Main and Aux. Outputs on Power Supply board and ACM4(CB) Access Power Controller's outputs (A)	Fail-Safe/ Fail-Secure Outputs	ACM4(CB) Board Input Fuse Rating	Current Per ACM4 Output (A)	Current Per ACM4CB Output (A)	ACM4(CB) Board Output Fuse (PTC) Rating	PDS8(CB) Board Input Fuse (PTC) Rating	PDS8(CB) Board Output Fuse (PTC) Rating
			12VDC Output Range (V)	24VDC Output Range (V)								
T1SFK3	3.5	5A/ 250V	10.0-13.2	20.19-26.4	–	–	–	–	–	–	–	–
T1SFK34	3.5	5A/ 250V	10.0-13.2	20.19-26.4	24VDC @ 5.7A	4	10A/ 250V	2.5	–	3A/ 250V	–	–
T1SFK34D	3.5	5A/ 250V	10.0-13.2	20.19-26.4	24VDC @ 5.7A	4	10A/ 250V	–	2.0	2.5A	–	–
T1SFK38S	3.5	5A/ 250V	10.0-13.2	20.19-26.4	–	–	–	–	–	–	10A/ 250V	3A/ 250V
T1SFK38SD	3.5	5A/ 250V	10.0-13.2	20.19-26.4	–	–	–	–	–	–	9A	2A

## Hardware and Accessories:

⬡➤ 6/32 5/8" Nylon or Metal Spacer | ▭ 6/32 5/16" Pan Head Screw | ⬡➤ 4/40 5/8" Metal Spacer | ▭ 4/40 5/16" Pan Head Screw | ⬡ Lock Nut

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 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 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 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 Swiftlane boards to backplane, *refer to pages 3-5.*
5. Refer to the *ULXB Power Supply/Charger Installation Guide* for AL600ULXB, and corresponding Sub-Assembly Installation Guide for ACM4(CB), PDS8(CB) and VR6 for further installation instructions.
6. Mount backplane to enclosure with hardware.

Fig. 1

Enclosure
Edge of Enclosure
Tamper Switch **(included)**
To Access Control Panel or UL Listed Reporting Device
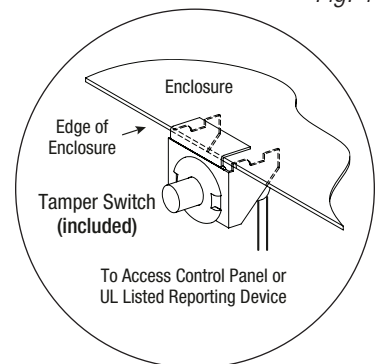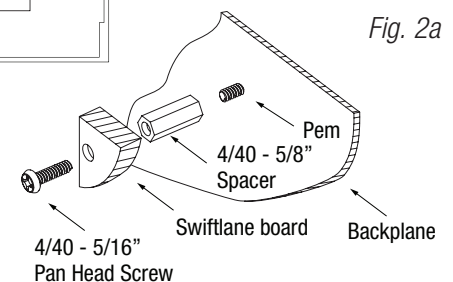
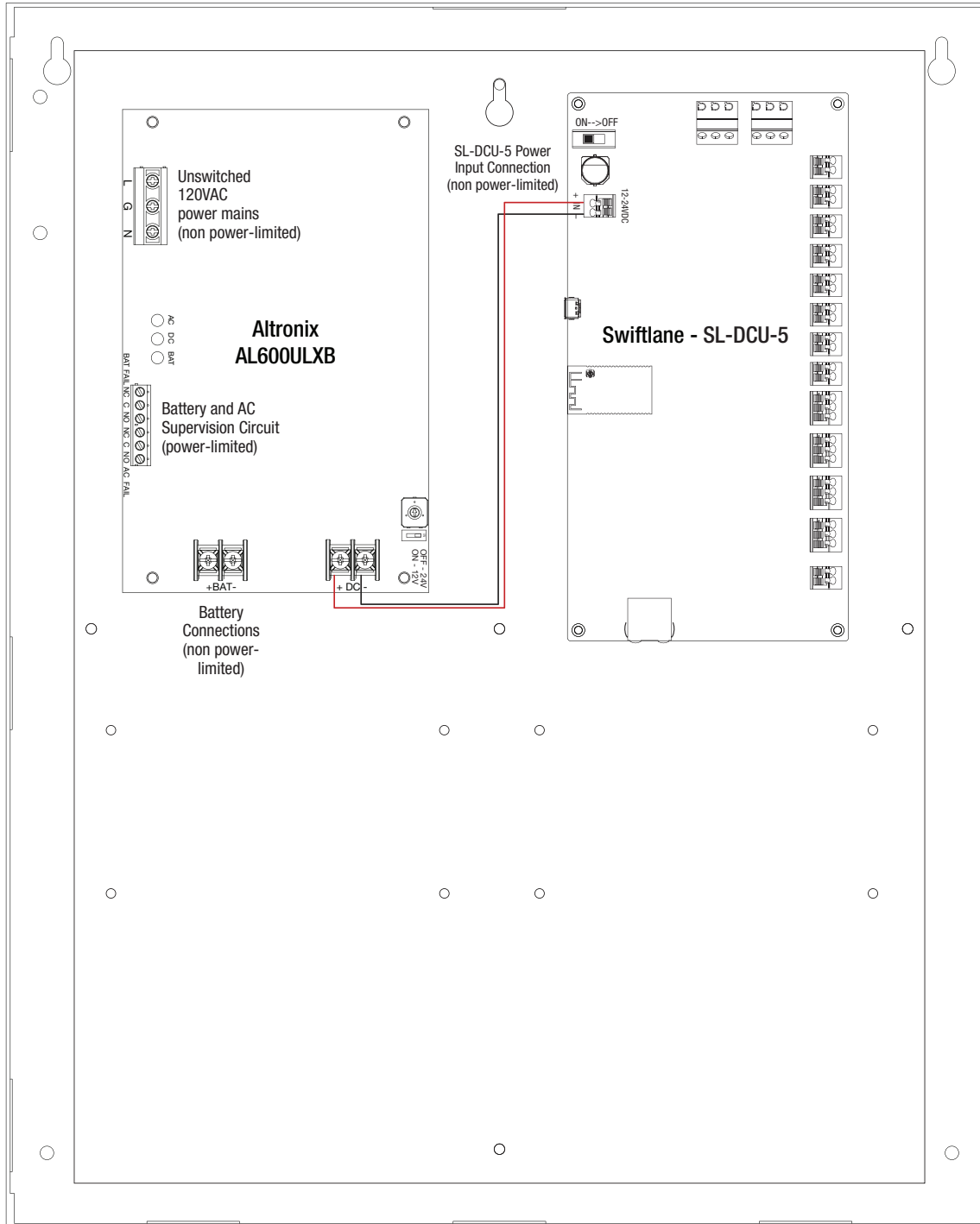# T1SFK3: Configuration of Swiftlane Controls Boards:

1. Align the Swiftlane board on the backplane to match the boards' mounting holes with corresponding pems.
2. Fasten 4/40 - 5/8" Metal Spacers (provided) to pems that match the hole pattern for Swiftlane board *(Fig. 2, 2a, pg. 3)*.
   Note: Swiftlane board must be properly grounded.
   Please use provided metal spacers for the lower right mounting holes *(Fig. 2, pg. 3)*.
3. Mount Swiftlane board to spacers utilizing provided 4/40 - 5/16" Pan Head Screws *(Fig. 2a, pg. 3)*.
4. Fasten backplane to Trove1 enclosure utilizing lock nuts (provided).

Fig. 2

Unswitched 120VAC power mains (non power-limited)

Altronix AL600ULXB

Battery and AC Supervision Circuit (power-limited)

Battery Connections (non power-limited)

SL-DCU-5 Power Input Connection (non power-limited)

ON-->OFF

Swiftlane - SL-DCU-5

Fig. 2a

Pem

4/40 - 5/8" Spacer

Swiftlane board

Backplane

4/40 - 5/16" Pan Head Screw

T1SFK34(D): Configuration of Swiftlane Controls Boards:

1. Align the Swiftlane board on the backplane to match the boards' mounting holes with corresponding pems.
2. Fasten 4/40 - 5/8" Metal Spacers (provided) to pems that match the hole pattern for Swiftlane board *(Fig. 3, 3a, pg. 4)*.
   Note: Swiftlane board must be properly grounded.
   Please use provided metal spacers for the lower right mounting holes *(Fig. 3, pg. 4)*.
3. Mount Swiftlane board to spacers utilizing provided 4/40 - 5/16" Pan Head Screws *(Fig. 3a, pg. 4)*.
4. Fasten backplane to Trove1 enclosure utilizing lock nuts (provided).
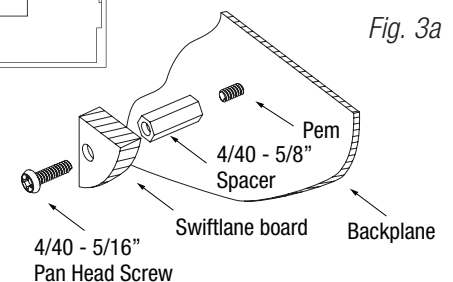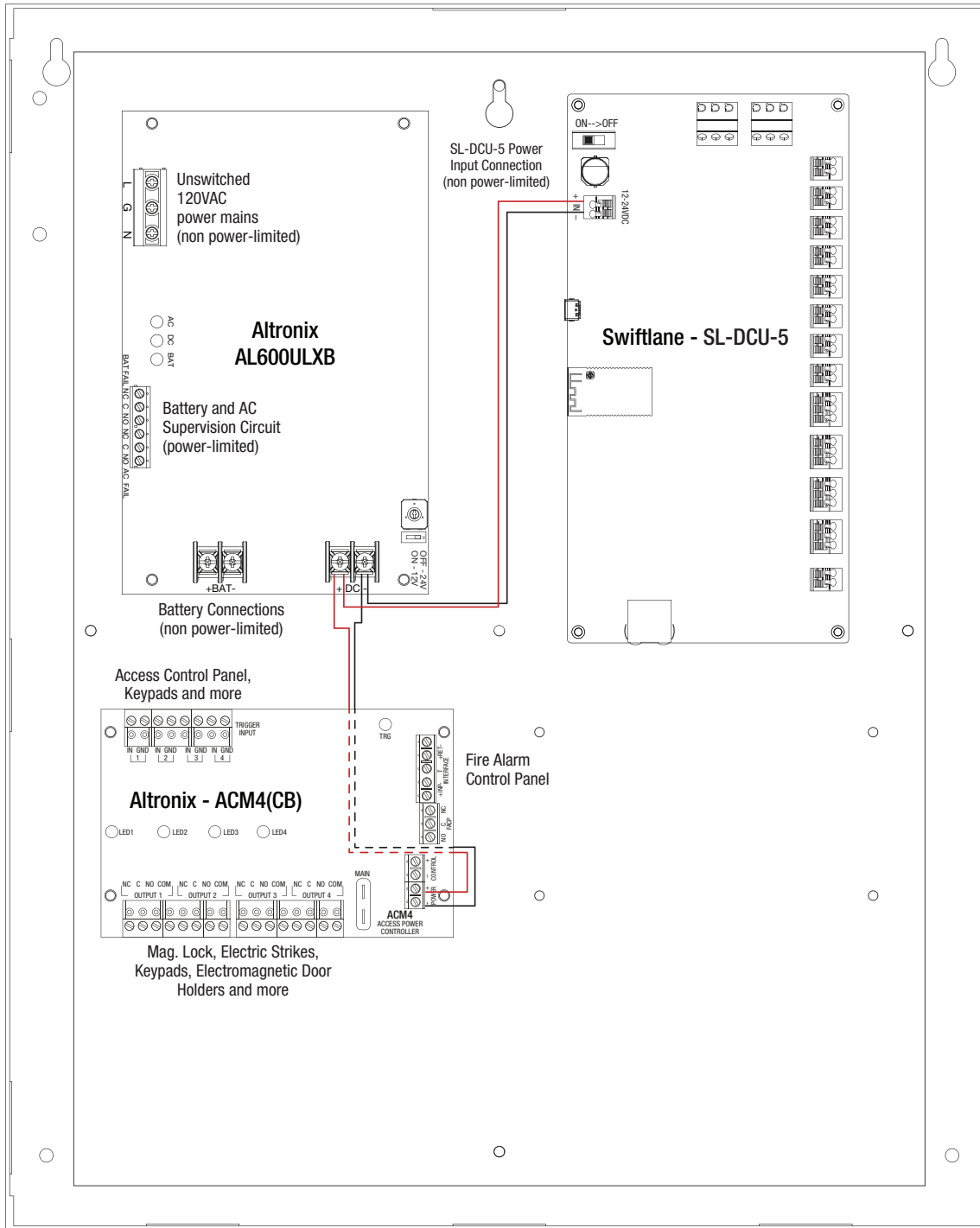
Fig. 3

Fig. 3a

T1SFK38S: Configuration of Swiftlane Controls Boards:

1. Align the Swiftlane board on the backplane to match the boards' mounting holes with corresponding pems.
2. Fasten 4/40 - 5/8" Metal Spacers (provided) to pems that match the hole pattern for Swiftlane board *(Fig. 4, 4a, pg. 5)*.
   Note: Swiftlane board must be properly grounded.
   Please use provided metal spacers for the lower right mounting holes *(Fig. 4, pg. 5)*.
3. Mount Switlane board to spacers utilizing provided 4/40 - 5/16" Pan Head Screws *(Fig. 4a, pg. 5)*.
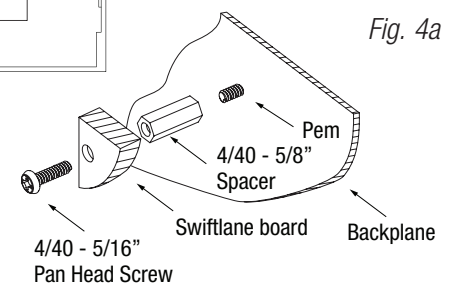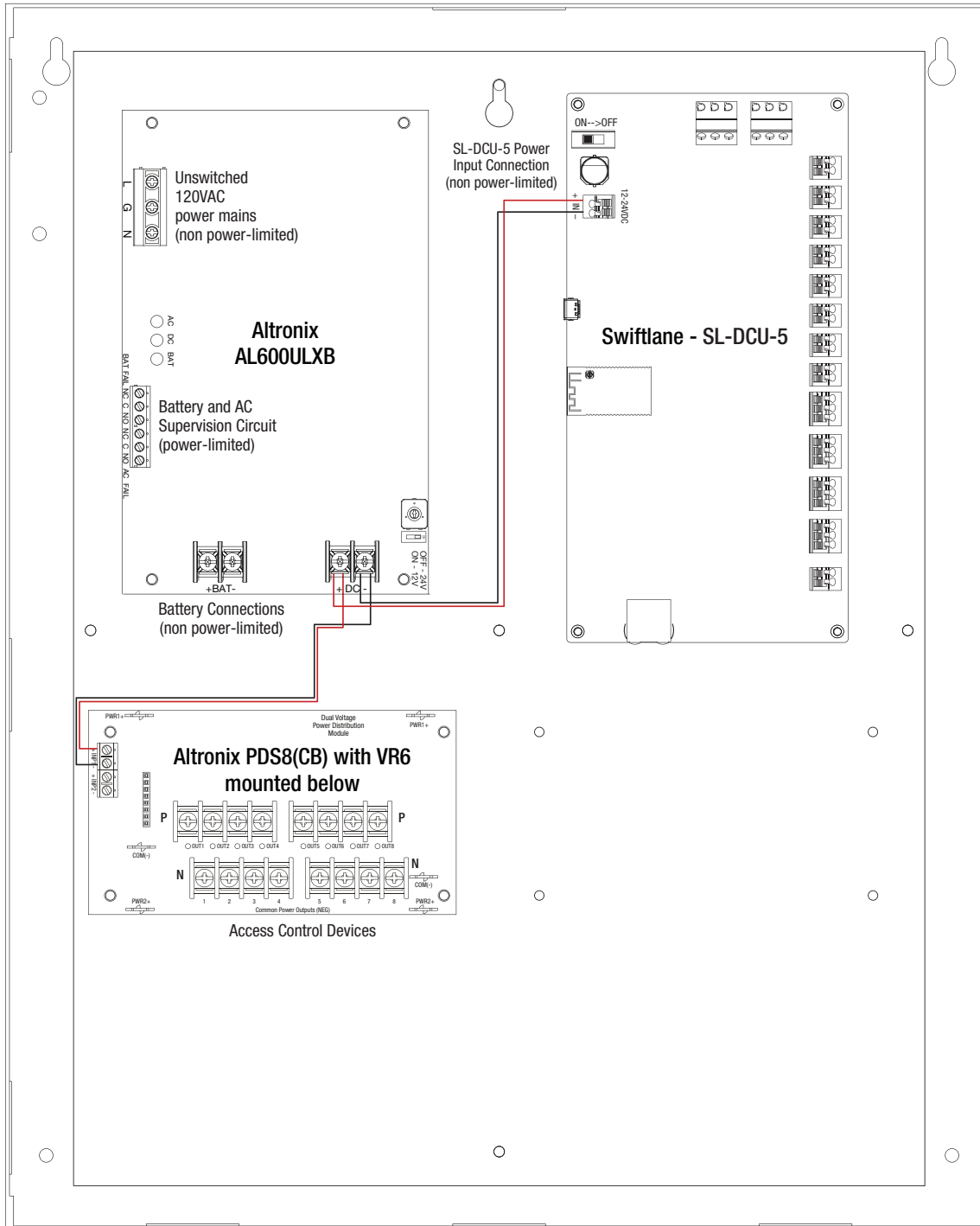4. Fasten backplane to Trove1 enclosure utilizing lock nuts (provided).

Fig. 4

Unswitched 120VAC power mains (non power-limited)

SL-DCU-5 Power Input Connection (non power-limited)

Altronix AL600ULXB

Swiftlane - SL-DCU-5

Battery and AC Supervision Circuit (power-limited)

Battery Connections (non power-limited)

Altronix PDS8(CB) with VR6 mounted below

Dual Voltage Power Distribution Module

Access Control Devices

Fig. 4a

Pem
4/40 - 5/8" Spacer
Swiftlane board
Backplane
4/40 - 5/16" Pan Head Screw

Notes:

Notes:

Enclosure Dimensions (H x W x D approximate):

18" x 14.5" x 4.625" (457mm x 368mm x 118mm)

14.5" (321.3mm)

7.25" (184.2mm)

1.45" (36.8mm)

∅1.95" (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)

∅1.115" (28.3mm)

1.36" (34.5mm)

1.25" (31.8mm)