TROVE™ PLUS

Access & Power Integration

Altronix/Mercury Wired Kits

Models Include:

T1M1LCK1
4 Door Kit with Fused Outputs

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

T1M1LCK2
2 Door Kit with Fused Outputs

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

T1M1LCK3
4 Door Kit with Fused Outputs

Accommodates up to two (2) Dual Reader Interface Modules.

Each fully assembled kit includes:

- Trove1 enclosure with TM1 Altronix/Mercury backplane
- One (1) AL400ULXB2 - Power Supply/Charger
- One (1) ACM4 - Fused Access Power Controller
- One (1) PDS8 - Dual Input Fused Power Distribution Module
- One (1) VR6 - Voltage Regulator
- One (1) RSB1 - Rocker Switch Bracket with One (1) Rocker Switch (Not evaluated by UL)
- Wire harnesses and management

T1M1LCK1D
4 Door Kit with PTC Outputs

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

T1M1LCK2D
2 Door Kit with PTC Outputs

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

T1M1LCK3D
4 Door Kit with PTC Outputs

Accommodates up to two (2) Dual Reader Interface Modules.

Each fully assembled kit includes:

- Trove1 enclosure with TM1 Altronix/Mercury backplane
- One (1) AL400ULXB2 - Power Supply/Charger
- One (1) ACM4CB - PTC Access Power Controller
- One (1) PDS8CB - Dual Input PTC Power Distribution Module
- One (1) VR6 - Voltage Regulator
- One (1) RSB1 - Rocker Switch Bracket with One (1) Rocker Switch (Not evaluated by UL)
- Wire harnesses and management

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

Installation Guide

CE

Altronix®

More than just power.™

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Rev. 020922

Installing Company: _____ Service Rep. Name: _____

Address: _____ Phone #: _____

Overview:

Altronix Trove Plus kits are pre-wired, pre-assembled and consist of Trove1M1 enclosure/backplane with factory installed Altronix power supply/charger and sub-assemblies, wire harnesses and finger duct.

Configuration Chart:

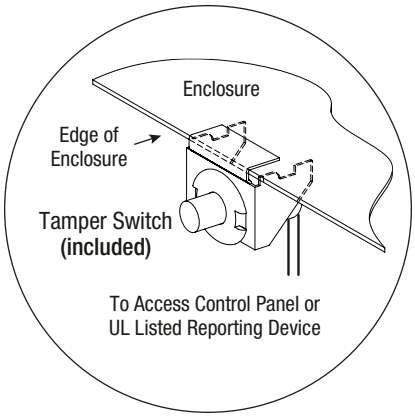
Altronix Model Number	115VAC 60Hz Input Current (A)	Power Supply Board Input Fuse Rating	Power Supply Board Battery Fuse Rating	Nominal DC Output Voltage Range (VDC)	Maximum Supply Current for Main Outputs on Power Supply board and ACM4(CB) Access Power Controller's outputs	Fail-Safe/ Fail-Secure Outputs	ACM4(CB) Board Input Fuse (PTC) Rating	ACM4(CB) Board Output Fuse (PTC) Rating	PDS8(CB) Board Input Fuse (PTC) Rating	PDS8(CB) Board Output Fuse (PTC) Rating
T1M1LCK1	3.0	5A/ 250V	15A/ 32V	20.17-26.4	24VDC @ 3.8A	4	10A/ 32V	3A/ 32V	10A/ 32V	3A/ 32V
T1M1LCK2										
T1M1LCK3										
T1M1LCK1D							9A	2.5A	9A	2.5A
T1M1LCK2D										
T1M1LCK3D										

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. Connect unswitched AC power (115VAC 60Hz) to RSB1. Use 14 AWG or larger for all power connections. Secure green wire lead to earth ground.
   Green "AC" LED on power supply board will turn on.
   This light can be seen through the LED lens on the door of the enclosure.
   Keep power-limited wiring separate from non power-limited wiring (115VAC 60Hz Input, Battery Wires). Minimum 0.25" spacing must be provided. CAUTION: Do not touch exposed metal parts. Shut branch circuit power before installing or servicing equipment. There are no user serviceable parts inside. Refer installation and servicing to qualified service personnel.
5. Measure voltage before connecting devices. This helps avoiding potential damage.
6. Mount Mercury modules to backplane(s), refer to *page 3*.
7. Refer to the *ULXB Power Supply/Charger Installation Guide* for AL400ULXB2 and corresponding *Installation Guides* for PDS8(CB), VR6, and ACM4(CB) for further installation instructions.

Fig. 1



Hardware:

Snap On Spacer | 5/16" Pan Head Screw | Lock Nut

T1M1LCK1(D): Configuration of Mercury Boards:

1. Position access controller module over corresponding spacers and depress onto snap on spacers *(Fig. 3, pg. 4)*.
2. Mount backplane to enclosure with hardware.

Access Controller Position Chart for the Following Models:

Mercury Access Controller	Pem Mounting
LNL-2220 / LP1502 / LP4502	(A)
LNL-1320 / MR52	(B)

Fig. 2

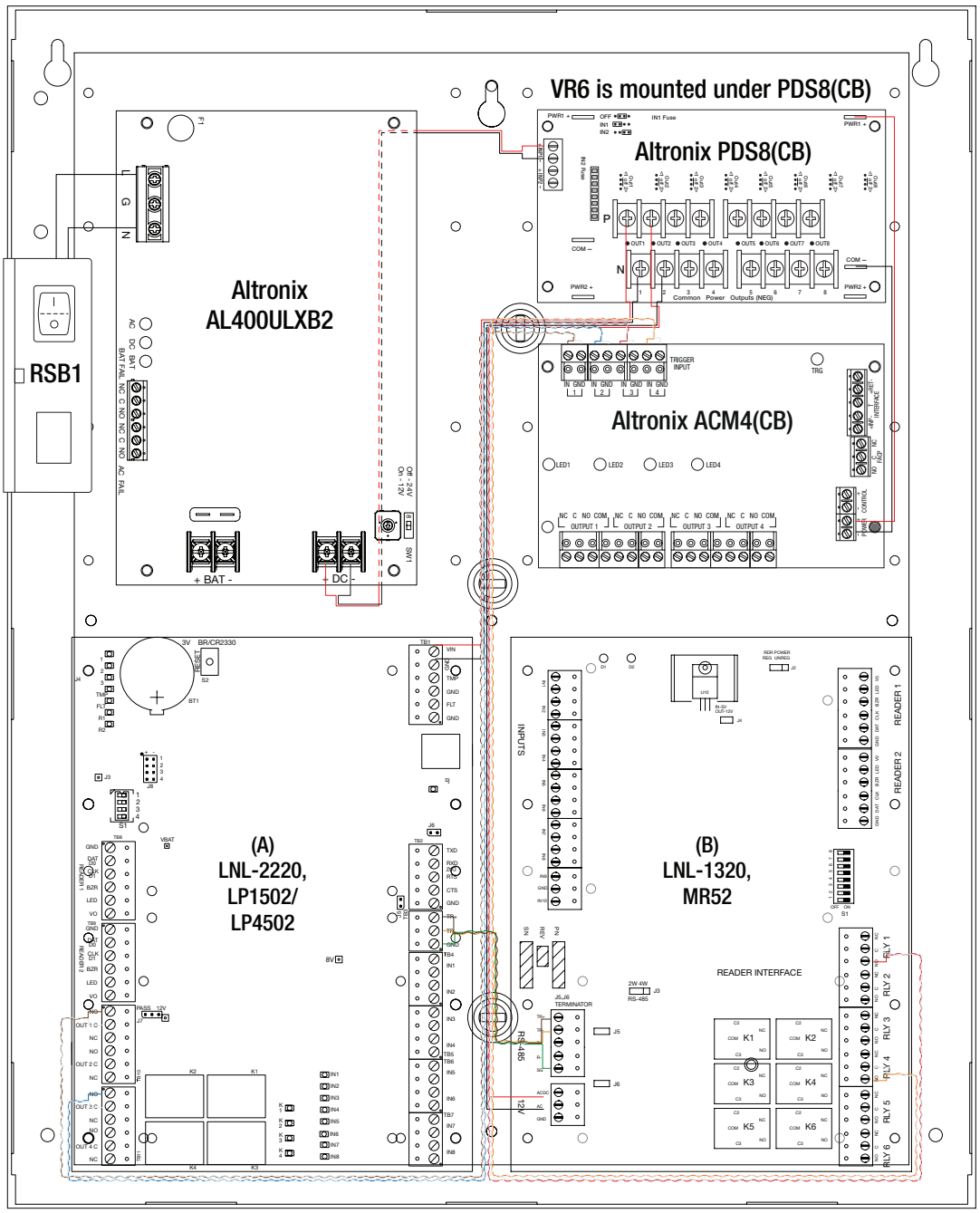
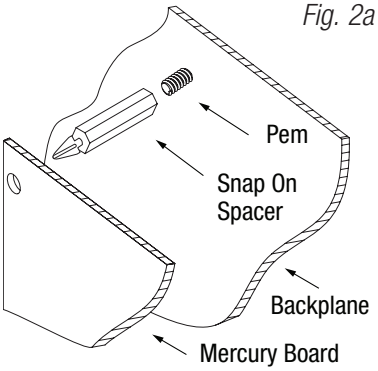


Fig. 2a



T1M1LCK2(D): Configuration of Mercury Boards:

1. Position access controller module over corresponding spacers and depress onto snap on spacers *(Fig. 3, pg. 4)*.
2. Mount backplane to enclosure with hardware.

Access Controller Position Chart for the Following Models:

Mercury Access Controller	Pem Mounting
LNL-3300 / LP2500	Ⓐ
LNL-1320 / MR52	Ⓑ

Fig. 3

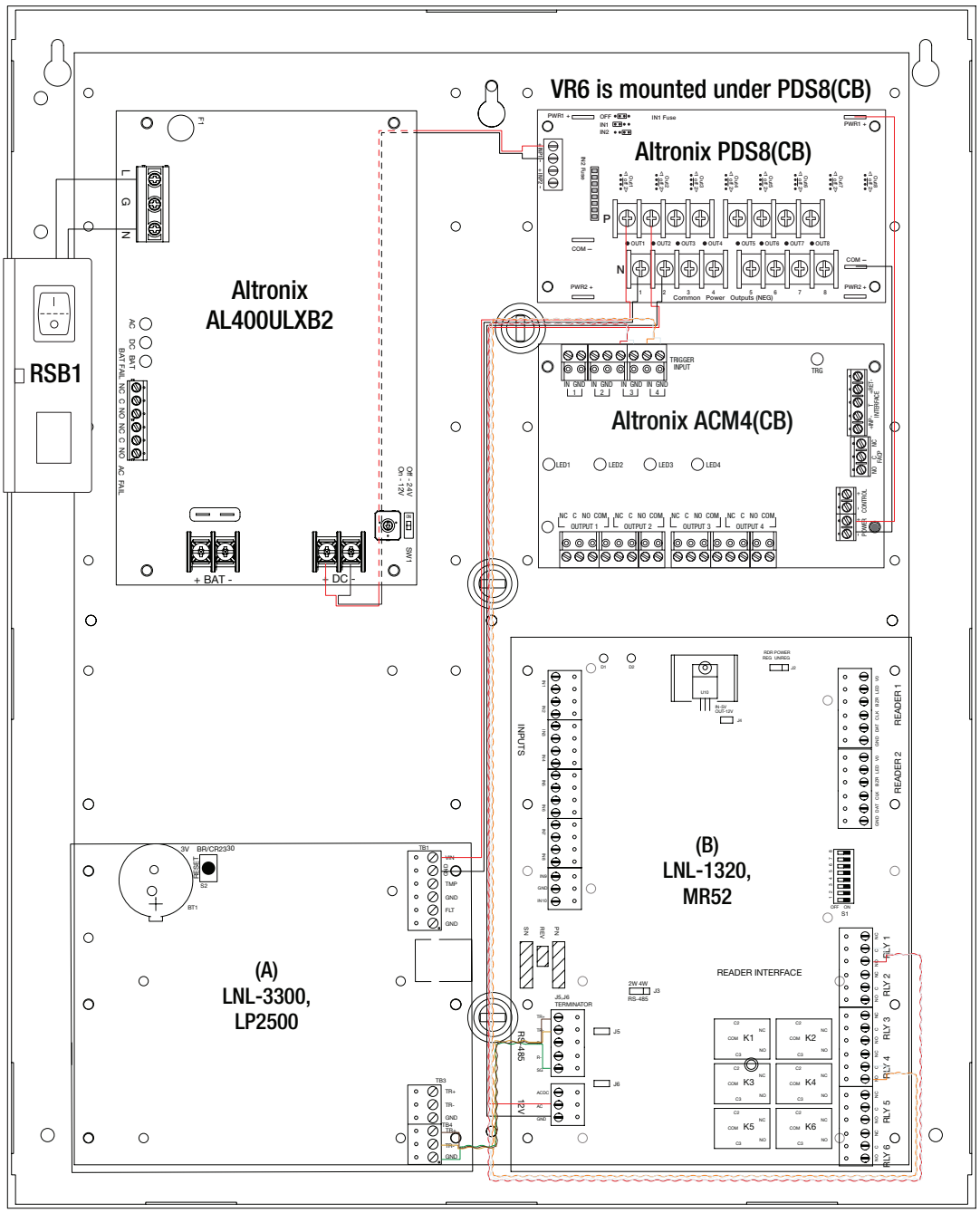
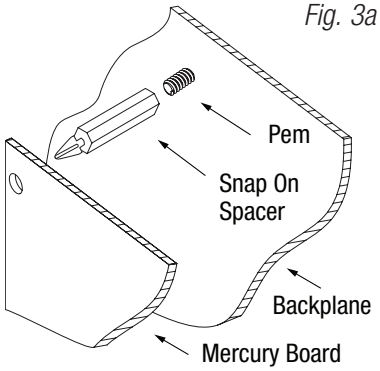


Fig. 3a



T1M1LCK3(D): Configuration of Mercury Boards:

1. Position access controller module over corresponding spacers and depress onto snap on spacers *(Fig. 3, pg. 4)*.
2. Mount backplane to enclosure with hardware.

Access Controller Position Chart for the Following Models:

Mercury Access Controller	Pem Mounting
LNL-1320 / MR52	(A)
LNL-1320 / MR52	(B)

Fig. 4

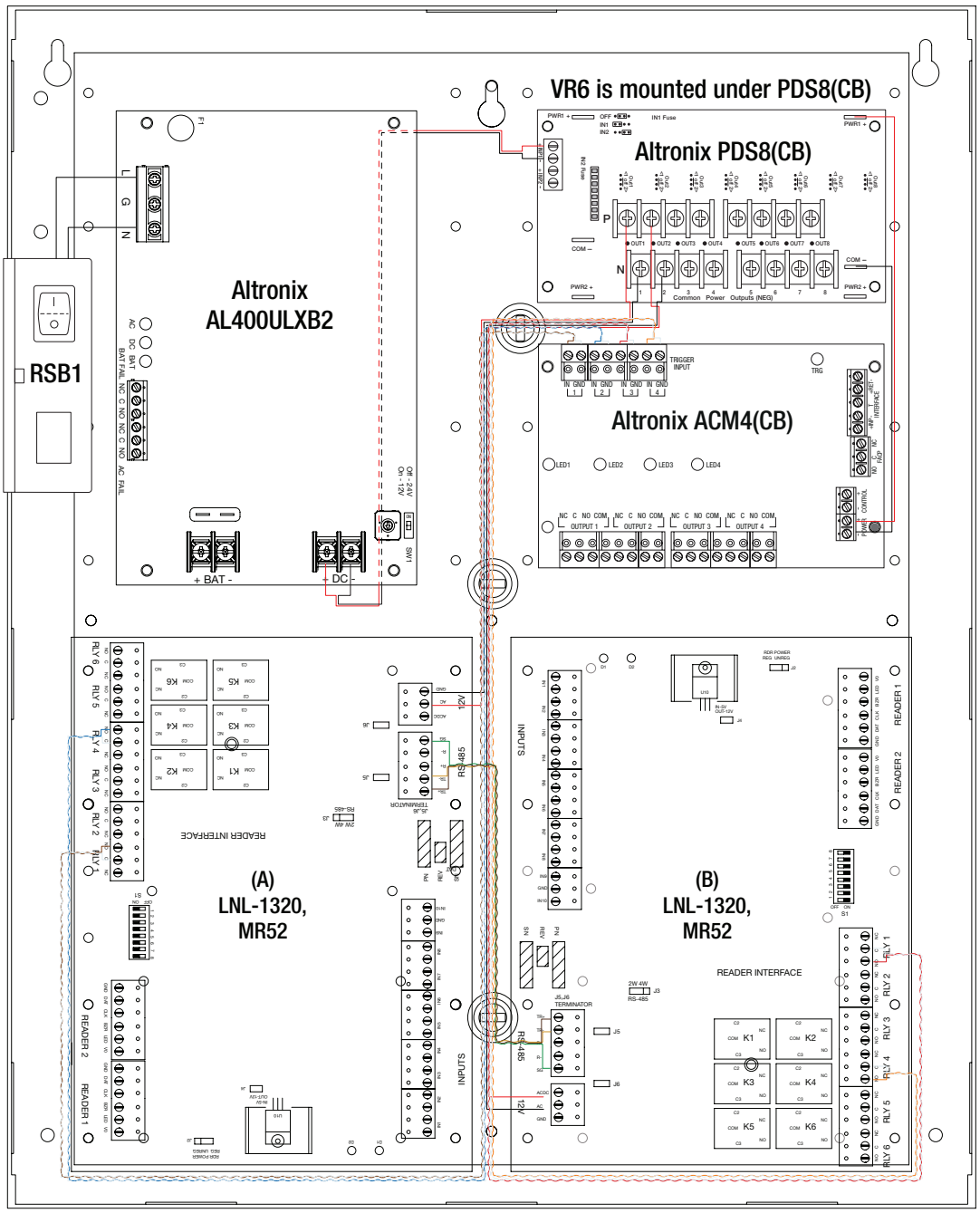
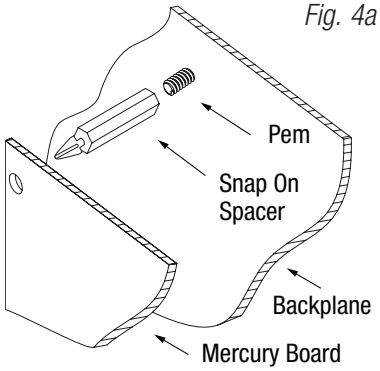


Fig. 4a



Notes:

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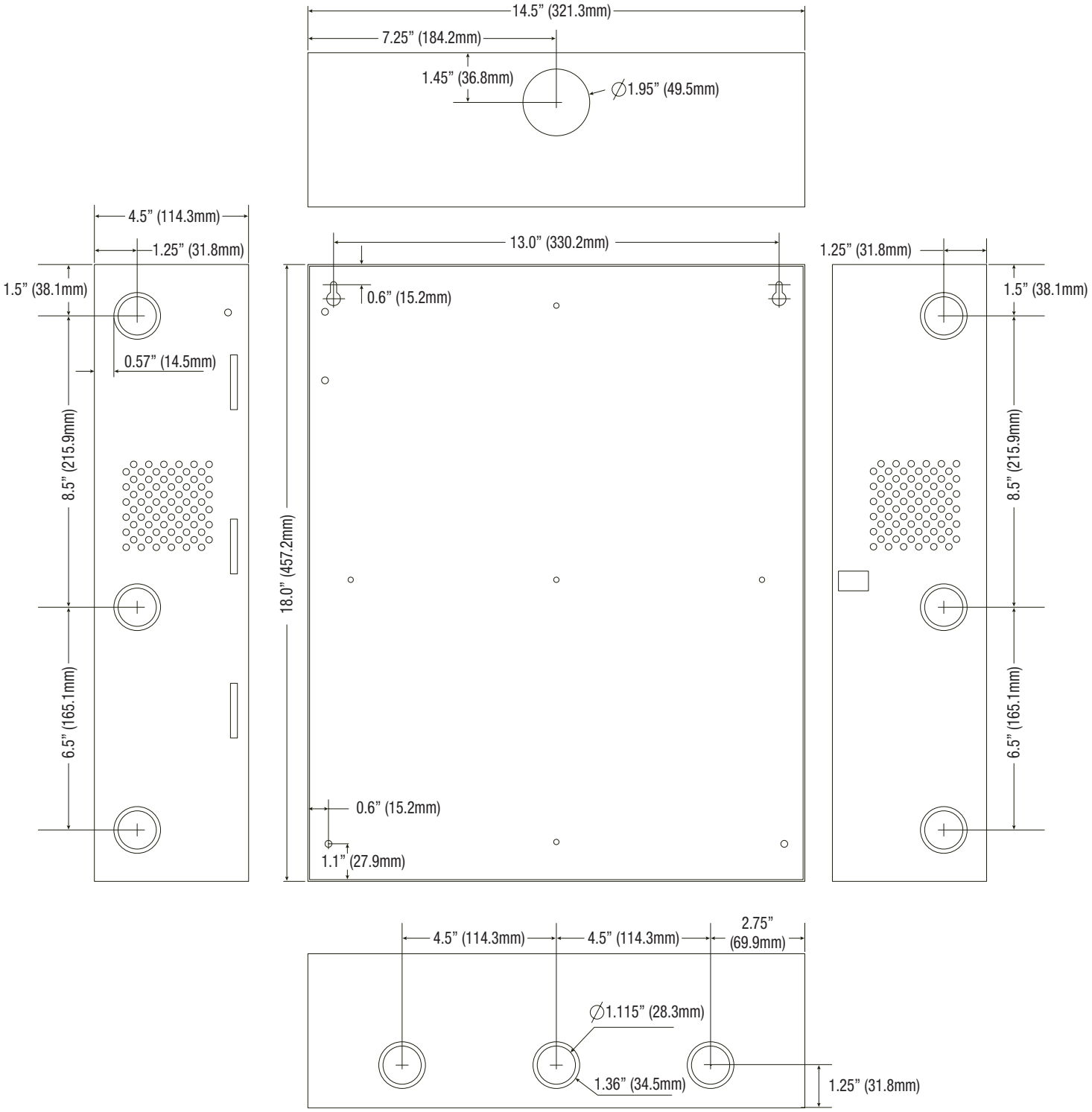
Trove1 Enclosure Dimensions (H x W x D approximate)**:**

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



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

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lIT1M1LCK Series L16V