Altronix T3M7724LXK1V Mercury Wired Kits Installation Guide

Contents

Altronix T3M7724LXK1V Mercury Wired Kits

Specifications

- **Model:** T3M7724LXK1V
- **Configuration:** 24 Door Kit with Fused Outputs
- **Accommodates:** 1 Intelligent Dual Reader Controller and 11 Dual Reader Interface Modules
- **Output Voltage**: 24VDC
- **Maximum Supply Power:** 26.4W
- **Input Voltage Range:** 20.17-32V
- **Installation**: Indoor Use Only

Product Usage Instructions

Installation

1. Remove the backplane from the enclosure. Do not discard any hardware.
2. Mark and predrill holes in the wall to align with the top three keyholes in the enclosure.
3. Install three upper fasteners and screws into the wall with the screw heads protruding.
4. Place the enclosure’s upper keyholes over the three upper screws, level, and secure the enclosure.

Wiring Guidelines

Ensure wiring methods comply with the National Electrical Code/NFPA 70/ANSI and all local codes and authorities having jurisdiction.

Product Components

The kit includes Trove3 enclosure, Altronix/Mercury backplane, power supply/chargers, access power controllers, power distribution modules, voltage regulators, rocker switch bracket with switches, wire harnesses, and finger duct.

Power Integration

The kit integrates access control power components efficiently for a seamless operation of the intelligent dual reader controller and dual reader interface modules.

FAQ

- **Q:** Can the product be used outdoors?
- **A:** No, the product is intended for indoor use only as per the installation instructions.
- **Q**: What is the maximum supply power of the kit?
- **A:** The maximum supply power is 26.4W for the T3M7724LXK1V model.

T3M7724LXK1V
24 Door Kit with Fused Outputs Accommodates one (1) Intelligent Dual Reader Controller and eleven (11) Dual Reader Interface Modules. Each fully assembled kit includes:

- Trove3 enclosure with TM3 Altronix/Mercury backplane and TMV2 Mercury door backplane
- Two (2) AL1024XB2V – Power Supply/Chargers
- Two (2) ACMS12 – Dual Input/Output Fuse Protected Access Power Controllers
- Two (2) PDS16 – Dual Input/Output Fuse Protected Power Distribution Modules
- Two (2) VR6 – Voltage Regulators
- One (1) Rocker Switch Bracket with Two (2) Rocker Switches (Not evaluated by UL)
- Wire harnesses and finger duct

T3M7724LXK1DV
24 Door Kit with PTC Outputs Accommodates one (1) Intelligent Dual Reader Controller and eleven (11) Dual Reader Interface Modules. Each fully assembled kit includes:

- Trove3 enclosure with TM3 Altronix/Mercury backplane and TMV2 Mercury door backplane
- Two (2) AL1024XB2V – Power Supply/Chargers
- Two (2) ACMS12CB – Dual Input/Output PTC Protected Access Power Controllers
- Two (2) PDS16CB – Dual Input/Output PTC Protected Power Distribution Modules
- Two (2) VR6 – Voltage Regulators
- One (1) Rocker Switch Bracket with Two (2) Rocker Switches (Not evaluated by UL)
- Wire harnesses and finger duct

Overview

Altronix Trove Plus kits are pre-wired, and pre-assembled and consist of Trove3M3 enclosure/backplane with factory-installed Altronix power supply/ chargers and sub-assemblies, wire harnesses and finger duct.

Altronix Model Number	220VAC 60Hz Input Current (A)	Power Supply Board Input Fuse Rating	Power Supply Board Battery Fuse Rating	Nominal DC Output Voltage Range		Maximum Supply Current for Main Outputs on Power Supply Board and ACMS12(CB) Access the Power Controller's outputs	Fail-Safe/Fail-Secure or Dry Form "C" Outputs	Current Per ACMS12(CB) and PDS16(CB) Output (A)	ACMS12(CB) Board Input Fuse (PTC) Rating	ACMS12(CB) Board Output Fuse (PTC) Rating	PDS16(CB) Board Input Fuse (PTC) Rating	PDS16(CB) Board Output Fuse (PTC) Rating
				Power Supply 1	Power Supply 2							
				Output Range (VDC)	Output Range (VDC)							
T3M7724LXK1V	5.0	5A/ 250V	15A/ 32V	20.17- 26.4	20.17- 26.4	24VDC @ 9.4A	24	2.5	15A/ 32V	3A/ 32V	15A/ 32V	3A/ 32V
T3M7724LXK1DV								2.0	9A	2.5A	9A	2.5A

Hardware and Accessories:

- Two (2) tamper switches (Altronix Model TS112 or equivalent
- Cam lock.
- Battery leads.

Mechanical

- 16 Gauge enclosure with ample knockouts for convenient access.
- Enclosure Dimensions (H x W x D): 36.12" x 30.125" x 7.06" (917.5mm x 768.1mm x 179.3mm

Installation Instructions

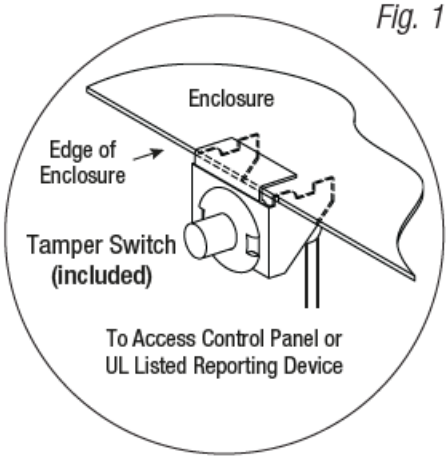
Wiring methods shall be in accordance with the National Electrical Code/NFPA 70/ANSI, and with all local codes and authorities having jurisdiction. The product is intended for indoor use only.

1. Remove the backplane 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. 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 switches (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 tamper switch wiring to the Access Control Panel input or the appropriate UL Listed reporting device. To activate the alarm signal open the door of the enclosure.

4. Refer to the XBV Power Supply/Charger Installation Guide for AL1024XB2V and corresponding Sub-Assembly Installation Guides for PDS16(CB) and ACMS12(CB) for further installation instructions.
5. Position Lenel/Mercury access controller modules over corresponding spacers and depress onto snap-on spacers (Fig. 2-4, pg. 3-5).
6. Connect wire harnesses to Lenel/Mercury access controller modules (Fig. 2-3, pg. 3-4).
7. Mount backplane to enclosure with hardware.

Fig. 1

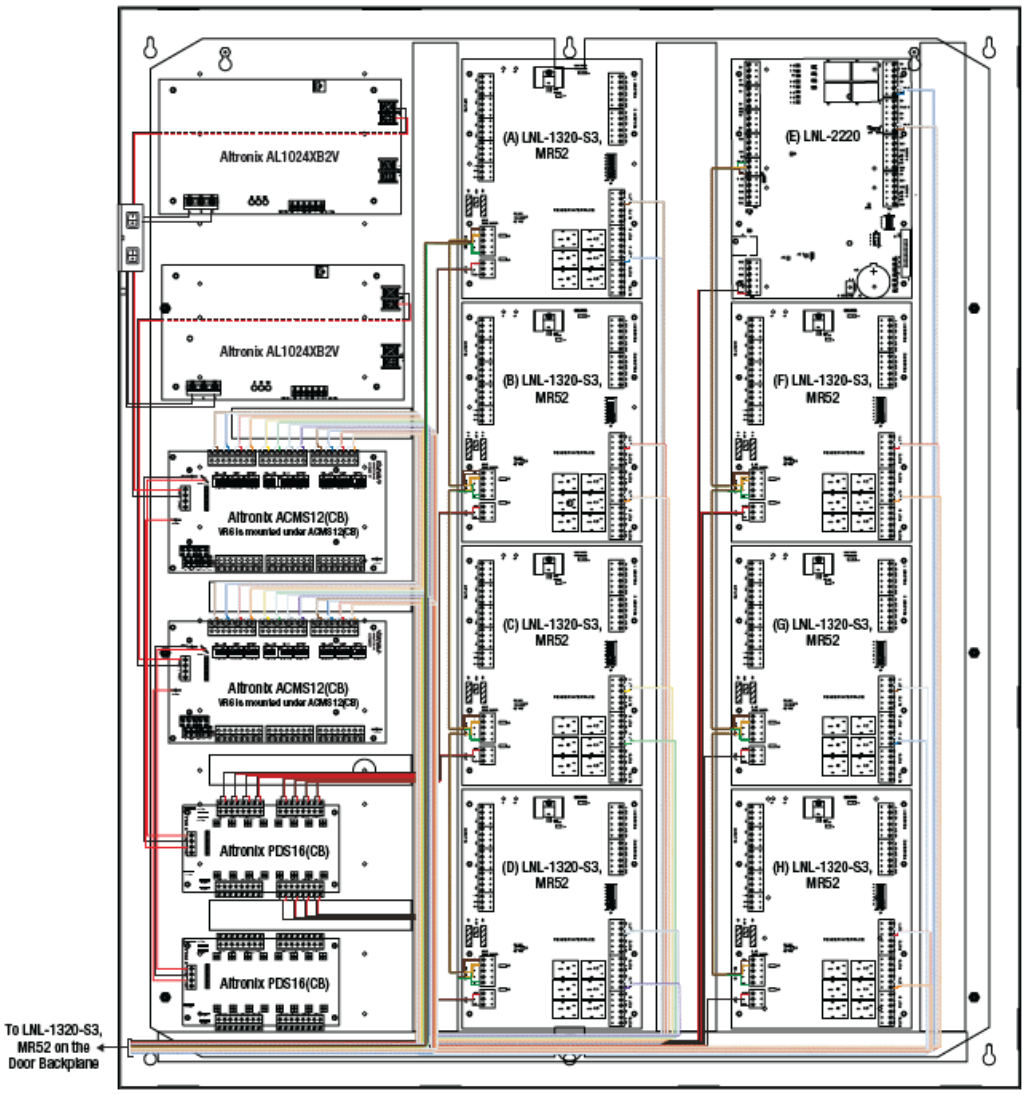


T3M7724LXK1(D)V Configuration:

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

Access Controller Position Chart for the Following Models:

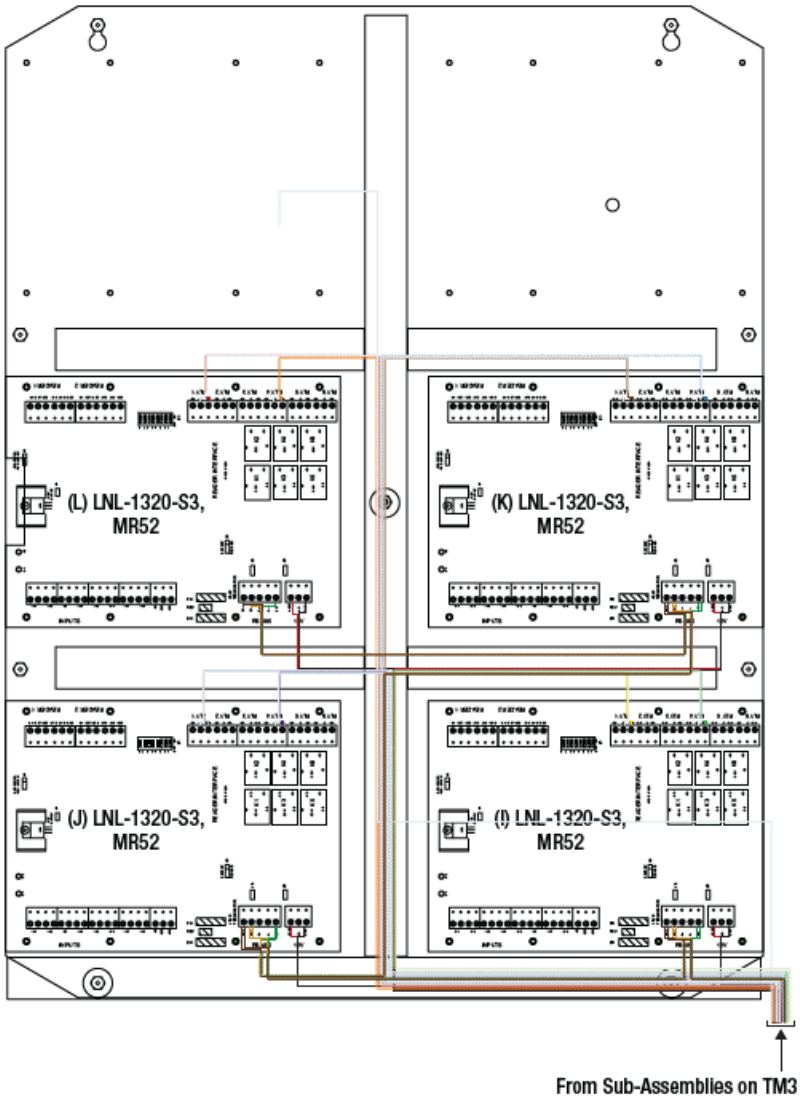
LenelS2 / Mercury Access Controller	Pem Mounting						
LNL-2220 / LP1502	E						
LNL-1320-S3 / MR52	A	B	C	D	F	G	H



T3M7724LXK1(D)V Door Backplane Configuration:

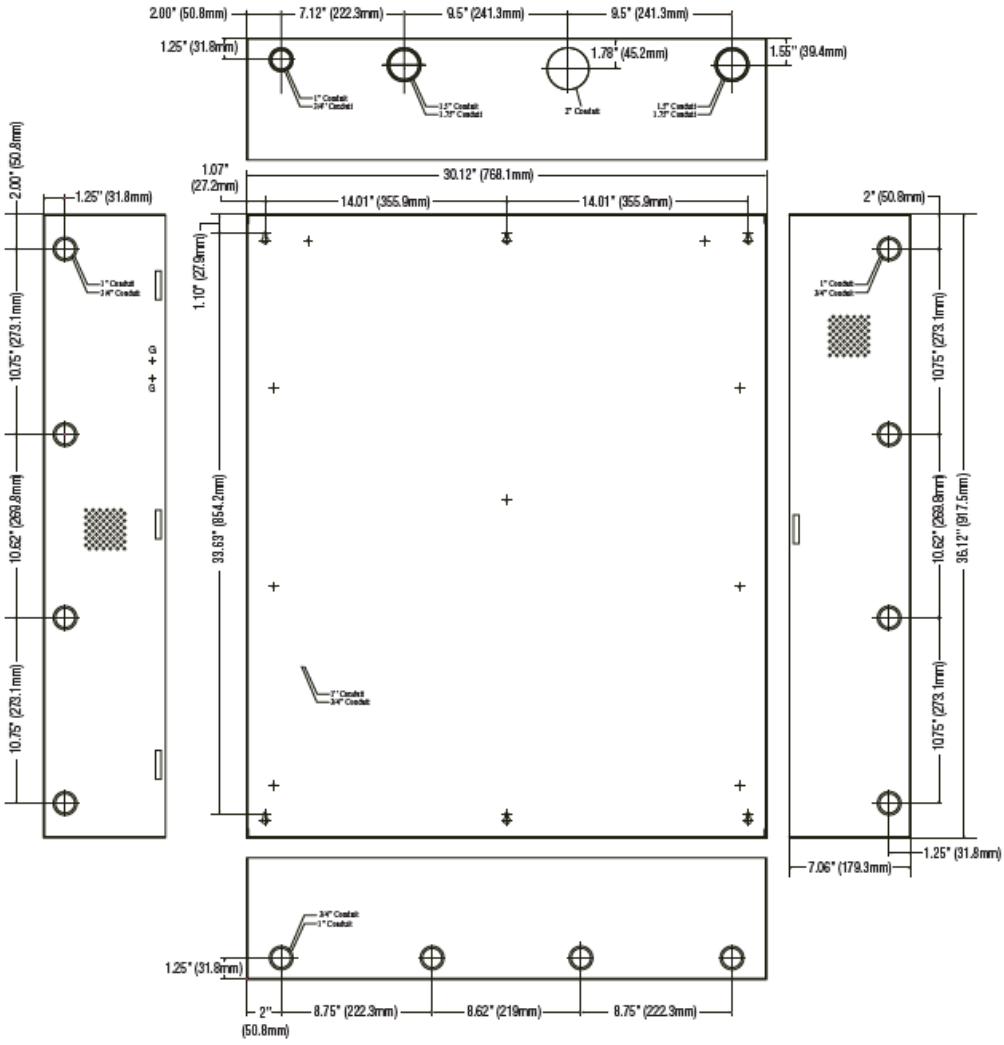
1. Position the access controller module over corresponding spacers and depress onto snap-on spacers (Fig. 3 pg. 4).
2. Mount backplane to enclosure with hardware.

LenelS2 / Mercury Access Controller	Pem Mounting
LNL-1320-S3 / MR52	(I) (J) (K) (L)



Access Controller Position Chart for the Following Models

Trove3 Enclosure Dimensions (H x W x D approximate): 36.12” x 30.125” x 7.06” (917.5mm x 768.1mm x 179.3mm)



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- **e-mail**: **info@altronix.com**
- Lifetime Warranty
- IIT3M7724LXKV Kit Series

CE

- Rev. T3M7724LKV_122722
- Installing Company:…..
- Address:…….
- Service Rep. Name:…….

- More than just power……..
- Phone #:…….

Documents / Resources

	Altronix T3M7724LXK1V Mercury Wired Kits [pdf] Installation Guide T3M7724LXK1V Mercury Wired Kits, T3M7724LXK1V, Mercury Wired Kits, Wired Kits

References

- Altronix Home
- User Manual