TROVE™

Access & Power Integration

Altronix/Inner Range Kits

Models Include:

T2IRK78S

8 Door Kit with Fused Outputs

Fully assembled kit includes:

- Trove2 enclosure with TIR2 Altronix/Inner Range backplane
- One (1) AL1024ULXB2 - Power Supply/Charger
- One (1) ACMS8 - Dual Input Fused Access Controller
- One (1) VR6 - Voltage Regulator
- One (1) PDS8 - Dual Input Fused Power Distribution Module

T2IRK78SD

8 Door Kit with PTC Outputs

Fully assembled kit includes:

- Trove2 enclosure with TIR2 Altronix/Inner Range backplane
- One (1) AL1024ULXB2 - Power Supply/Charger
- One (1) ACMS8CB - Dual Input PTC Access Controller
- One (1) VR6 - Voltage Regulator
- One (1) PDS8CB - Dual Input PTC Power Distribution Module

T3IRK7716S

16 Door Kit with Fused Outputs

Fully assembled kit includes:

- Trove3 enclosure with TIR3 Altronix/Inner Range backplane
- Two (2) AL1024ULXB2 - Power Supply/Chargers
- Two (2) ACMS8 - Dual Input Fused Access Controllers
- Two (2) VR6 - Voltage Regulators
- Two (2) PDS8 - Dual Input Fused Power Distribution Modules

T3IRK7716SD

16 Door Kit with PTC Outputs

Fully assembled kit includes:

- Trove3 enclosure with TIR3 Altronix/Inner Range backplane
- Two (2) AL1024ULXB2 - Power Supply/Chargers
- Two (2) ACMS8CB - Dual Input PTC Access Controllers
- Two (2) VR6 - Voltage Regulators
- Two (2) PDS8CB - Dual Input PTC Power Distribution Modules

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. TIR_070622

Installing Company: _____ Service Rep. Name: _____

Address: _____ Phone #: _____

Overview:

Altronix T2IRK78S(D) and T3IRK7716S(D) Trove Inner Range kits are pre-assembled and consist of Trove enclosures/backplanes with factory installed Altronix power supply/chargers and sub-assemblies.

Configuration Chart:

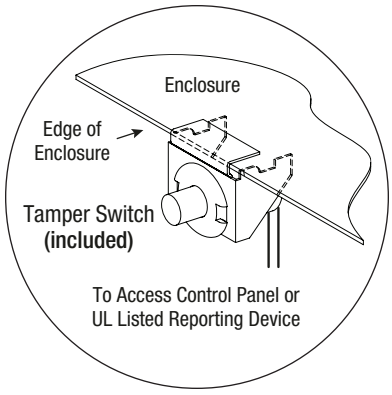
Altronix Model Number	115VAC 60Hz Input Current (A)	Power Supply Board Input Fuse Rating	Power Supply Board Battery Fuse Rating	Maximum Supply Current for Main and Aux. Outputs on Power Supply board and ACMS8(CB) Access Power Controllers' outputs	Nominal DC Output Voltage Range	Fail-Safe/Fail-Secure or Dry Form "C" Outputs	Additional Fused (PTC) Outputs	ACMS8(CB) Board Input Fuse (PTC) Rating	ACMS8(CB) Board Output Fuse (PTC) Rating	PDS8(CB) Board Input Fuse (PTC) Rating	PDS8(CB) Board Output Fuse (PTC) Rating
T2IRK78S	4.2	5A/ 250V	15A/ 32V	24VDC @ 9.4A	20.17-26.4	8	8	15A/ 32V	3A/ 32V	10A/ 32V	3A/ 32V
T2IRK78SD								9A	2.5A	9A	2.5A
T3IRK7716S	8.4					16	16	15A/ 32V	3A/ 32V	10A/ 32V	3A/ 32V
T3IRK7716SD								9A	2.5A	9A	2.5A

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 two/three keyholes in the enclosure. Install two/three upper fasteners and screws in the wall with the screw heads protruding. Place the enclosure's upper keyholes over the two/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 two/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.

Fig. 1



4. Connect unswitched AC power (115VAC 60Hz) to terminals marked [L, N]. 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 Inner Range modules to backplane, refer to *pages 3, 4*.
7. Refer to the *ULXB Power Supply/Charger Installation Guide* for AL1024ULXB2 and corresponding *Sub-Assembly Installation Guides* for ACMS8(CB), PDS8(CB) and VR6 for further installation instructions.

Hardware:

Metal Spacer | 5/16" Pan Head Screw | Lock Nut

T2IRK78S(D): Configuration of Inner Range Modules:

1. Fasten metal spacers (provided) to pems that match the hole pattern for Inner Range modules *(Fig. 2, pg. 3)*.
2. Mount Inner Range modules into the correct positions *(Fig. 2, pg. 3)*:
3. Fasten TIR2 backplane to Trove2 enclosure utilizing hardware (provided).

Access Controller Position Chart for the Following Models:

Altronix / Inner Range	Pem Mounting
Integriti Security Controller INTG-996001EUPCBK or Integriti Access Controller module INTG-996035PCBK	A
Integriti 8-32 Zone LAN I/O Expander modules INTG-996005PCBKIT or Integriti Intelligent LAN Access modules INTG-996018PCBK or Integriti Standard LAN Access modules INTG-996535PCBK or Integriti UniBus 16 Floor Lift Interface Device INTG-996540PCBK	B
Integriti Standard LAN Access Module PCB INTG-996012PCBK or Integriti UniBus 8 Zone Expansion Device INTG-996500PCBKIT or Integriti UniBus 8 Relay Expander INTG-996515PCBKIT or Integriti Unibus 8 Auxiliary Relay Expander INTG-996520PCBKIT	C

Fig. 2 - **T2IRK78S(D) Configuration**

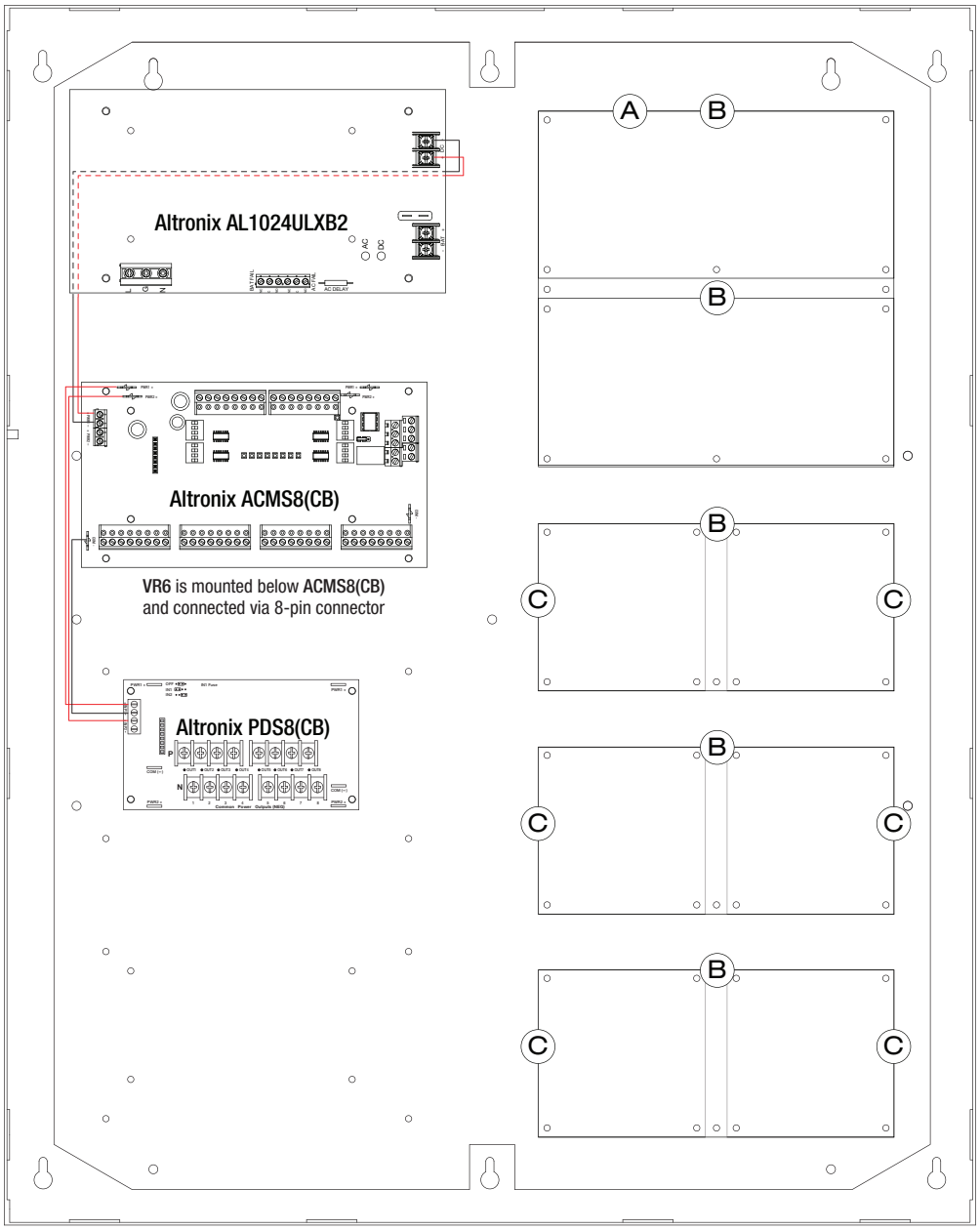
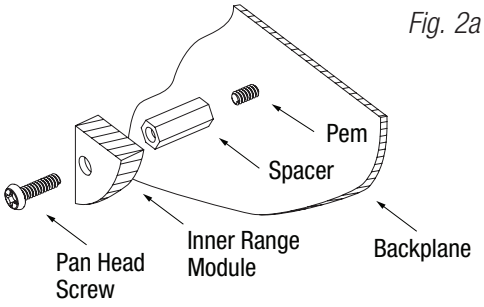


Fig. 2a



T3IRK7716S(D): Configuration of Inner Range Modules:

1. Fasten metal spacers (provided) to pems that match the hole pattern for Inner Range modules *(Fig. 3, pg. 4)*.
2. Mount Inner Range modules into the correct positions *(Fig. 3, pg. 4)*:
3. Fasten TIR2 backplane to Trove2 enclosure utilizing hardware (provided).

Access Controller Position Chart for the Following Models:

Altronix / Inner Range	Pem Mounting
Integriti Security Controller INTG-996001EUPCBK or Integriti Access Controller module INTG-996035PCBK	A
Integriti 8-32 Zone LAN I/O Expander modules INTG-996005PCBKIT or Integriti Intelligent LAN Access modules INTG-996018PCBK or Integriti Standard LAN Access modules INTG-996535PCBK or Integriti UniBus 16 Floor Lift Interface Device INTG-996540PCBK	B
Integriti Standard LAN Access Module PCB INTG-996012PCBK or Integriti UniBus 8 Zone Expansion Device INTG-996500PCBKIT or Integriti UniBus 8 Relay Expander INTG-996515PCBKIT or Integriti Unibus 8 Auxiliary Relay Expander INTG-996520PCBKIT	C

Fig. 3 - **T3IRK7716S(D) Configuration**

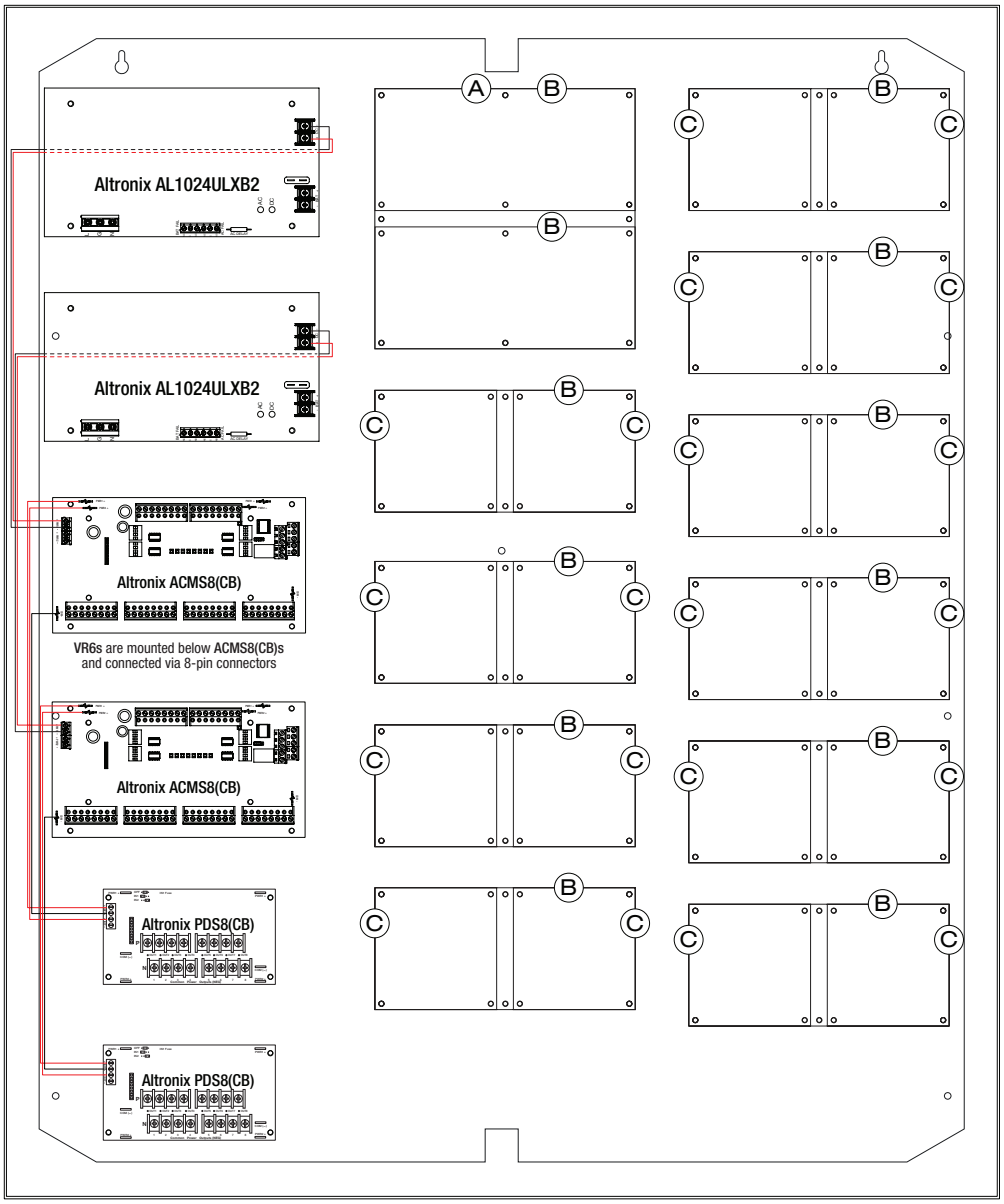
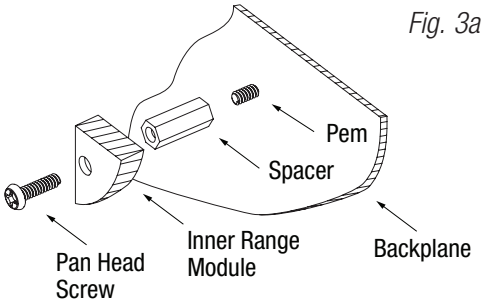


Fig. 3a

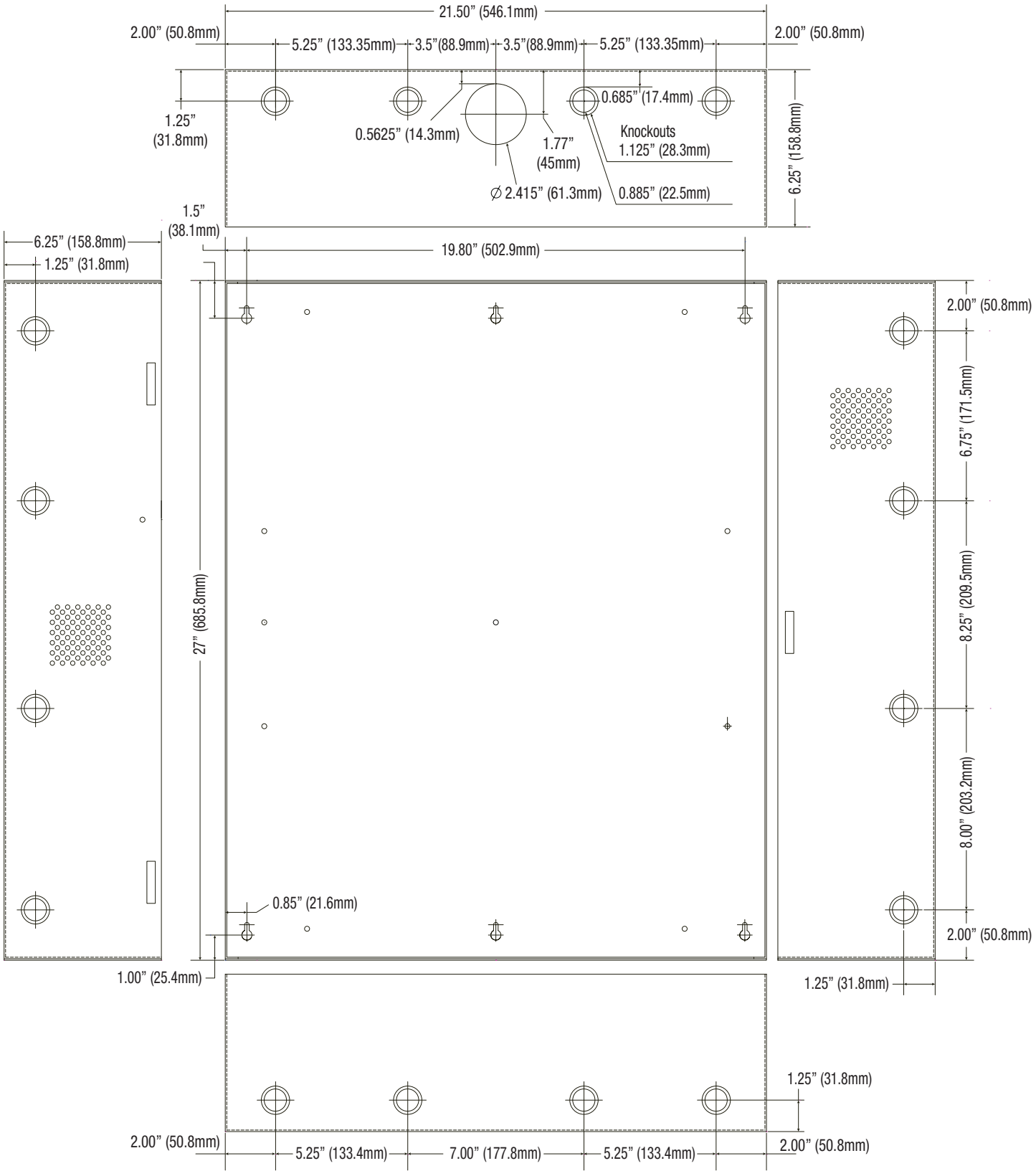


Notes:

Notes:

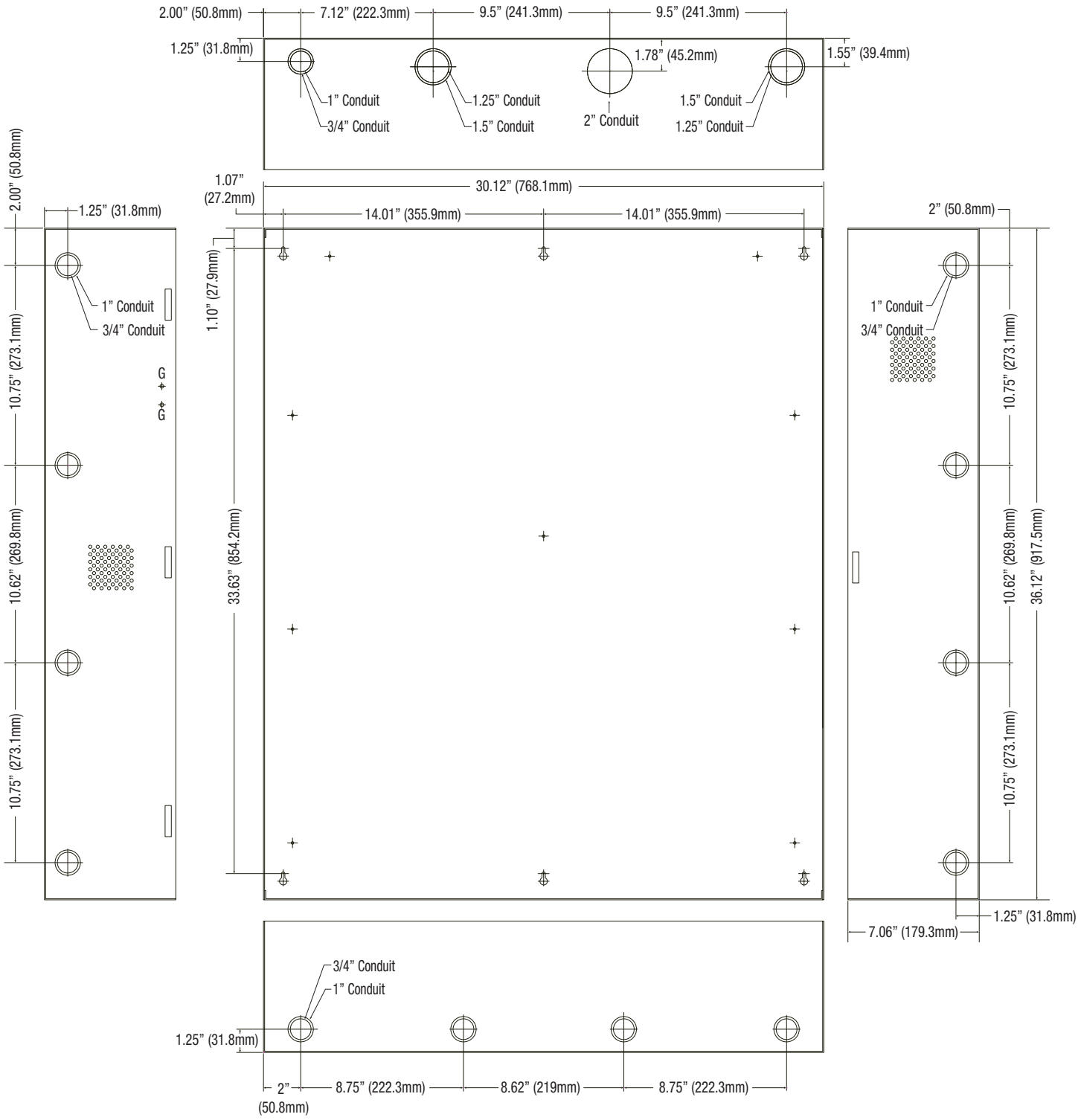
T2IRK78S(D) Enclosure Dimensions (H x W x D approximate)**:**

27.25” x 21.75” x 6.5” (692.2mm x 552.5mm x 165.1mm)



T3IRK7716S(D) Enclosure Dimensions (H x W x D approximate)**:**

36.12” x 30.125” x 7.06” (917.5mm x 768.1mm x 179.3mm)



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

140 58th Street, Brooklyn, New York 11220 USA | phone: 718-567-8181 | fax: 718-567-9056
website: www.altronix.com | e-mail: info@altronix.com | Lifetime Warranty