TROVE™

Access & Power Integration

Altronix Trove1/Axis Communications Kits

Models Include:

T1AXK1F4PQ
4 Door Kit with Fused Outputs

Fully assembled kit includes:
- Trove1 enclosure with TDR1 Altronix/DIN Rail backplane
- One (1) eFlow4NB - Power Supply/Charger
- One (1) VR6 - Voltage Regulator
- One (1) LINQ8PD - Networked Fused Power Distribution Module

T1AXK1F8AQ
4 Door Kit with Fused Outputs

Fully assembled kit includes:
- Trove1 enclosure with TDR1 Altronix/DIN Rail backplane
- One (1) eFlow4NB - Power Supply/Charger
- One (1) VR6 - Voltage Regulator
- One (1) LINQ8ACM - Networked Fused Access Power Controller

T1AXK3F2S
2 Door Kit with Fused Outputs

Fully assembled kit includes:
- Trove1 enclosure with TDR1 Altronix/DIN Rail backplane
- One (1) eFlow6NB - Power Supply/Charger
- One (1) VR6 - Voltage Regulator
- One (1) ACM4 - Fused Access Power Controller
- One (1) PDS8 - Dual Input Fused Power Distribution Module
- One (1) D10 - 10" DIN Rail

T1AXK3F4
4 Door Kit with Fused Outputs

Fully assembled kit includes:
- Trove1 enclosure with TDR1 Altronix/DIN Rail backplane
- One (1) eFlow6NB - Power Supply/Charger
- One (1) VR6 - Voltage Regulator
- One (1) ACM4 - Fused Access Power Controller
- One (1) PDS8 - Dual Input Fused Power Distribution Module

T1AXK3F4P
4 Door Kit with Fused Outputs

Fully assembled kit includes:
- Trove1 enclosure with TDR1 Altronix/DIN Rail backplane
- One (1) eFlow6NB - Power Supply/Charger
- One (1) PD8UL - Fused Power Distribution Module

T1AXK1F4PDQ
4 Door Kit with PTC Outputs

Fully assembled kit includes:
- Trove1 enclosure with TDR1 Altronix/DIN Rail backplane
- One (1) eFlow4NB - Power Supply/Charger
- One (1) VR6 - Voltage Regulator
- One (1) LINQ8PDCB - Networked PTC Power Distribution Module

T1AXK1F8ADQ
4 Door Kit with PTC Outputs

Fully assembled kit includes:
- Trove1 enclosure with TDR1 Altronix/DIN Rail backplane
- One (1) eFlow4NB - Power Supply/Charger
- One (1) VR6 - Voltage Regulator
- One (1) LINQ8ACMCB - Networked PTC Access Power Controller

T1AXK3F2SD
2 Door Kit with PTC Outputs

Fully assembled kit includes:
- Trove1 enclosure with TDR1 Altronix/DIN Rail backplane
- One (1) eFlow6NB - Power Supply/Charger
- One (1) VR6 - Voltage Regulator
- One (1) ACM4CB - PTC Access Power Controller
- One (1) PDS8CB - Dual Input PTC Power Distribution Module
- One (1) D10 - 10" DIN Rail

T1AXK3F4D
4 Door Kit with PTC Outputs

Fully assembled kit includes:
- Trove1 enclosure with TDR1 Altronix/DIN Rail backplane
- One (1) eFlow6NB - Power Supply/Charger
- One (1) VR6 - Voltage Regulator
- One (1) ACM4CB - PTC Access Power Controller
- One (1) PDS8CB - Dual Input PTC Power Distribution Module

T1AXK3F4PD
4 Door Kit with PTC Outputs

Fully assembled kit includes:
- Trove1 enclosure with TDR1 Altronix/DIN Rail backplane
- One (1) eFlow6NB - Power Supply/Charger
- One (1) PD8ULCB - PTC Power Distribution Module

Please refer to the included corresponding Sub-Assembly Installation Guides for further information.

Installation Guide

Altronix®

More than just power.™

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Rev. T1AXK052325

Installing Company: _____ Service Rep. Name: _____

Address: _____ Phone #: _____

Overview:

Altronix Trove Axis Communications kits are pre-assembled and consists of Trove1DR1 enclosure/backplane with factory installed Altronix sub-assemblies. These kits also accommodate a variety of Axis Communications modules for up to four (4) doors in a single enclosure.

Configuration Chart:

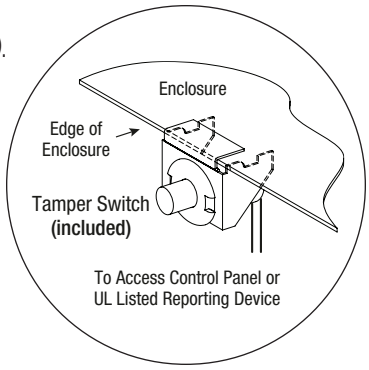
Altronix Model Number	120VAC 60Hz Input Current (A)	Power Supply Board Input Fuse Rating	Power Supply Board Battery Fuse Rating	Nominal DC Output Voltage [DC] Output Range (VDC)	Nominal DC Output Voltage [Aux] Output Range (VDC)	Maximum Supply Current for Main Outputs on Power Supply board and Sub-Assemblies' Power outputs	ACM4(CB), PDS8(CB), LINQ8PD(CB) LINQ8ACM(CB) Board Input Fuse (PTC) Rating	ACM4(CB), PDS8(CB), LINQ8PD(CB) LINQ8ACM(CB) Board Output Fuse (PTC) Rating	PD8UL(CB) Board Output Fuse (PTC) Rating
T1AXK1F4PQ	3.5	5A/ 250V	7.5A/ 32V	20.17-26.4	20.28-26.4	24VDC @ 3.8A	15A/32V	3A/32V	–
T1AXK1F4PDQ				20.17-26.4	20.28-26.4		15A/32V	2.5A	–
T1AXK1F8AQ	3.5	5A/ 250V	7.5A/ 32V	20.17-26.4	20.28-26.4	24VDC @ 3.8A	15A/32V	3A/32V	–
T1AXK1F8ADQ				20.17-26.4	20.28-26.4		9A	2.5A	–
T1AXK3F2S	3.5	5A/ 250V	10A/ 32V	20.17-26.4	20.28-26.4	24VDC @ 5.8A	10A/32V	3A/32V	–
T1AXK3F2SD				20.17-26.4	20.28-26.4		9A	2.5A	–
T1AXK3F4	3.5	5A/ 250V	10A/ 32V	20.17-26.4	20.28-26.4	24VDC @ 5.8A	10A/32V	3A/32V	–
T1AXK3F4D				20.17-26.4	20.28-26.4		9A	2.5A	–
T1AXK3F4P	3.5	5A/ 250V	10A/ 32V	20.17-26.4	20.28-26.4	24VDC @ 6A	–	–	3.5A/250V
T1AXK3F4PD				20.17-26.4	20.28-26.4		–	–	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 (2) keyholes in the enclosure. Install two upper fasteners and screws in the wall with the screw heads protruding. Place the enclosure's upper keyholes over the two upper screws; level and secure. Mark the position of the lower two holes. Remove the enclosure. Drill the lower holes and install the two fasteners. Place the enclosure's upper keyholes over the three upper screws. Install the two lower screws and make sure to tighten all screws.
3. Mount included UL Listed tamper switch (Altronix Model T112 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 (120VAC 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 (120VAC 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 Axis Communications modules onto DIN Rail or backplane, refer to *Fig. 2-6, pg. 3-7.*
7. Refer to the *eFlow Power Supply/Charger Installation Guide* for eFlow4NB and eFlow6NB and corresponding *Installation Guide* for ACM4(CB), PDS8(CB), LINQ8PD(CB), LINQ8ACM(CB), VR6 and PD8UL(CB) for further installation instructions.
8. Mount backplane to enclosure with hardware.

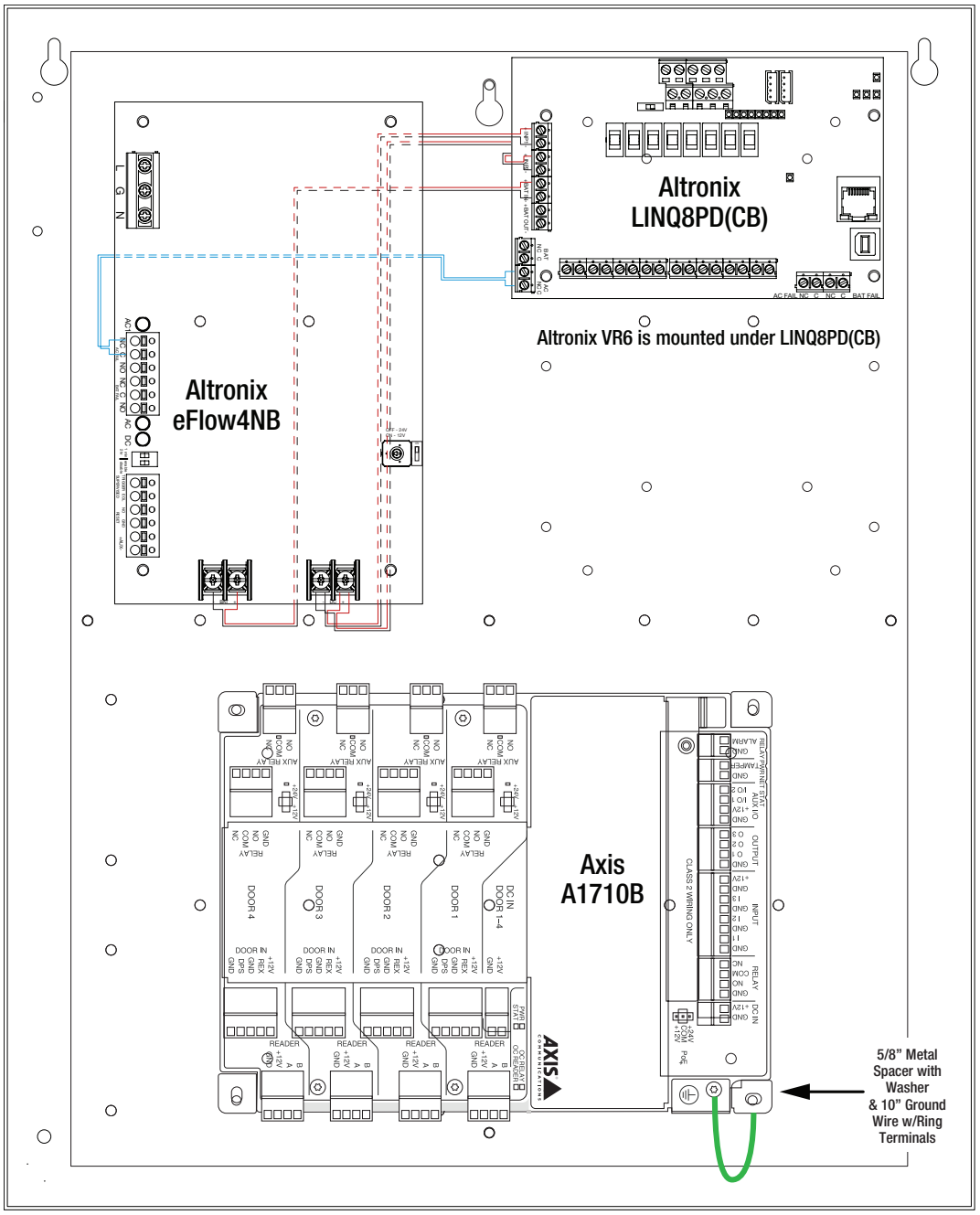
Fig. 1



T1AXK1F4P(D)Q: Installation Instructions for Axis Communications Access Controllers on TDR1:

1. Insert screw (provided) into hole configuration for A1710B from the backside of backplane *(Fig. 2a, pg. 3)*.
   Screw 5/8" metal spacer onto screws, repeat for additional three (3) board mounting holes.
   Use 5/8" metal spacer with washer and 10" ground wire where indicated on *Fig. 2a, pg. 3.*
2. Mount boards to spacers utilizing 5/16" pan head screws (provided) *(Fig. 2, pg. 3)*.
3. Fasten TDR1 backplane to Trove1 enclosure utilizing lock nuts (provided by Altronix).

Fig. 2



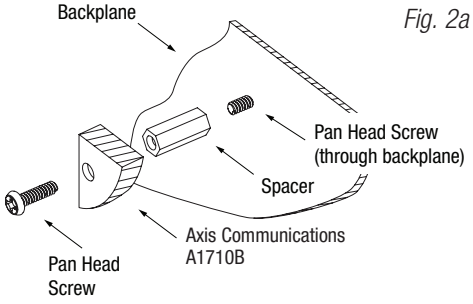


Fig. 2a

T1AXK1F8A(D)Q: Installation Instructions for Axis Communications Access Controllers on TDR1:

1. Insert screw (provided) into hole configuration for A1710B from the backside of backplane *(Fig. 3a, pg. 4)*.
   Screw 5/8" metal spacer onto screws, repeat for additional three (3) board mounting holes.
   Use 5/8" metal spacer with washer and 10" ground wire where indicated on *Fig. 3a, pg. 4.*
2. Mount boards to spacers utilizing 5/16" pan head screws (provided) *(Fig. 3, pg. 4)*.
3. Fasten TDR1 backplane to Trove1 enclosure utilizing lock nuts (provided by Altronix).

Fig. 3

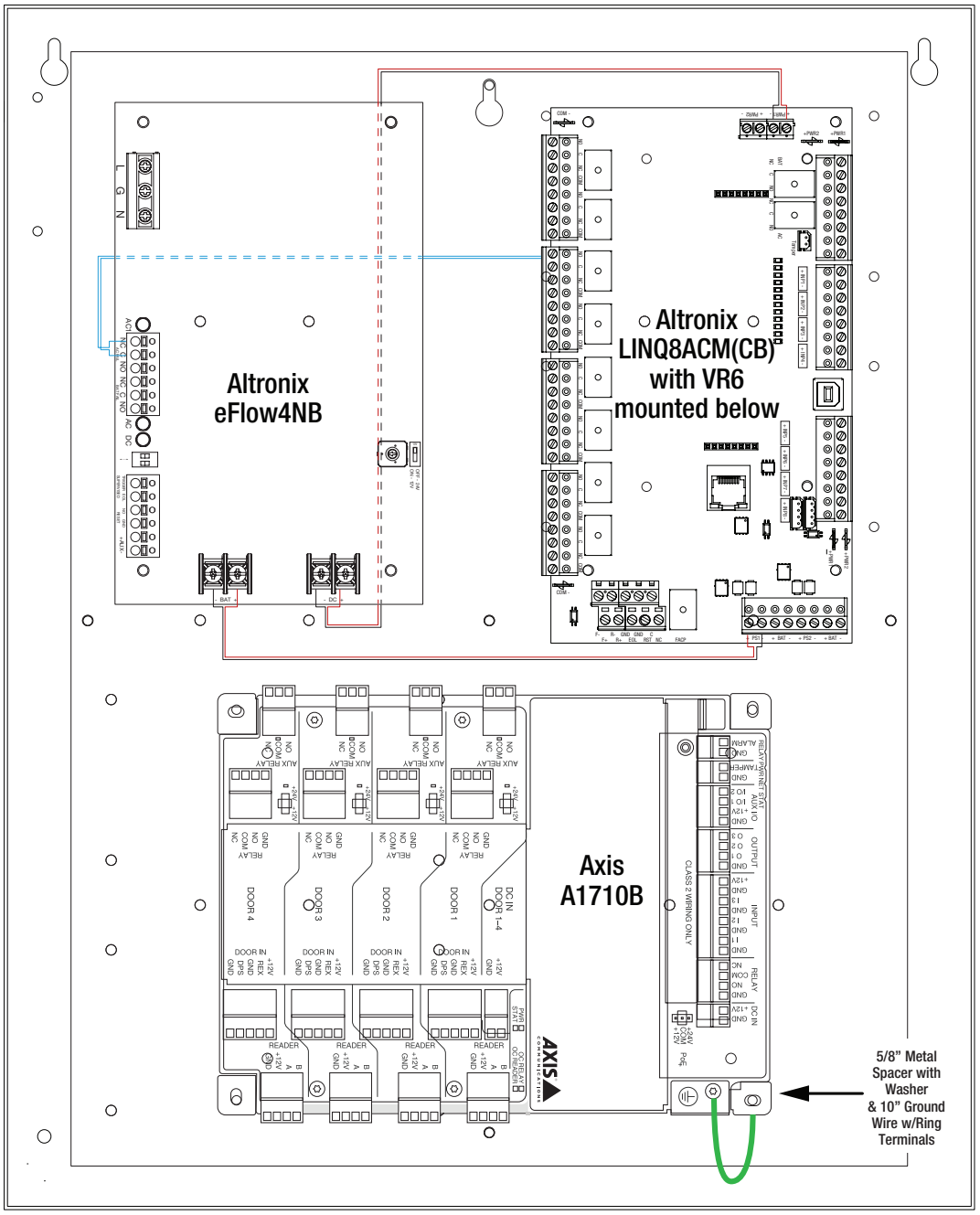
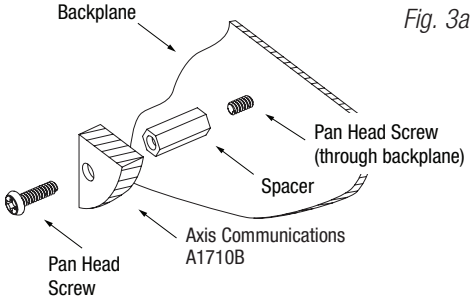


Fig. 3a



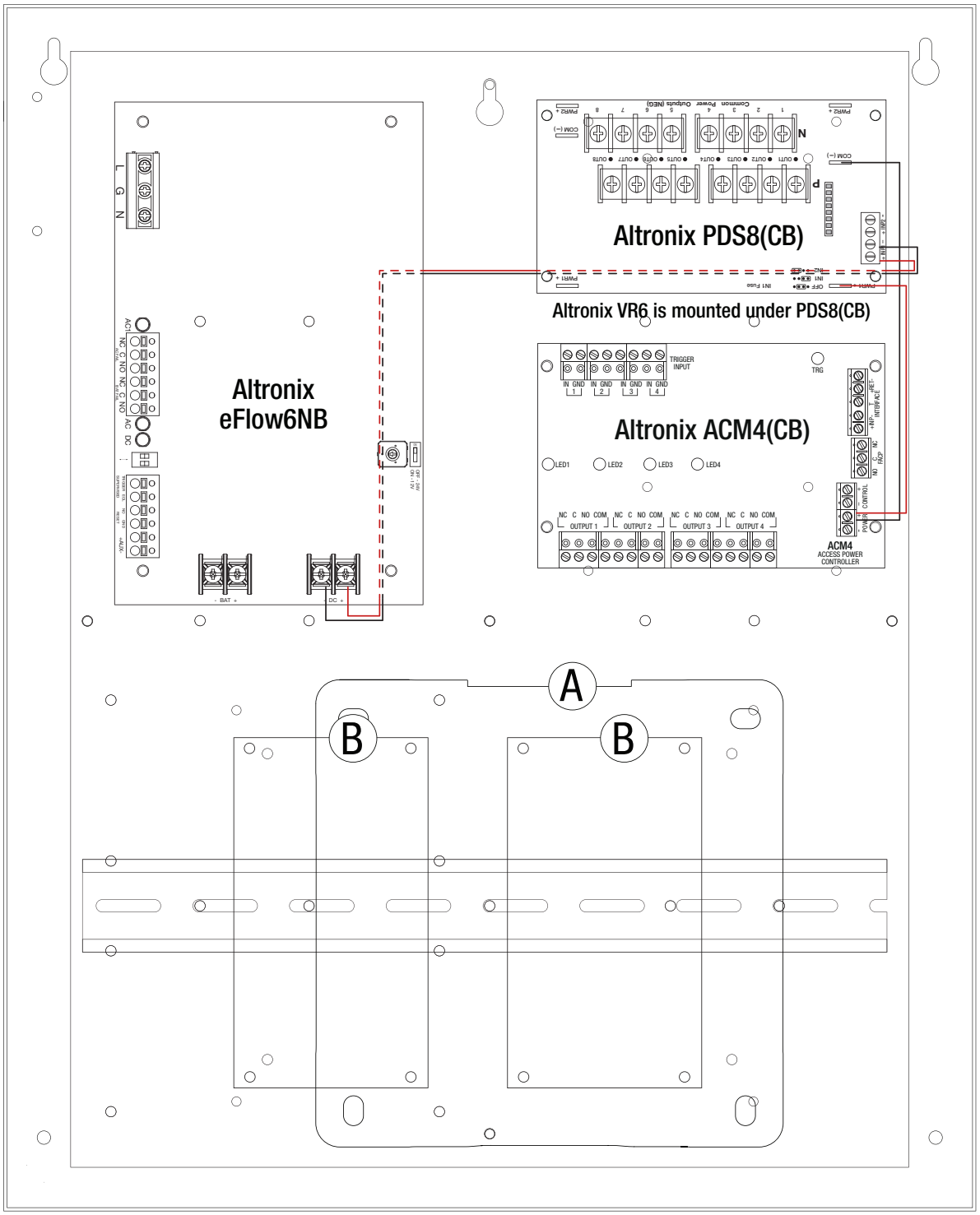
T1AXK3F2S(D): Installation Instructions for Axis Communications Access Controllers on TDR1:

1. Fasten DIN Rail (provided) to pem spacers, utilizing 5/16" pan head screws (included) *(Fig. 4, pg. 5)*.
2. Mount Axis modules to DIN Rail *(refer to below chart for model number, Fig. 4, pg. 5)*.
3. Fasten TDR1 backplane to Trove1 enclosure utilizing lock nuts (provided by Altronix).

Axis Communications Access Controller Position Chart for the Following Models:

Altronix/Axis Communications	Pem Mounting
Axis 1601, Axis 1610 (mounted onto DIN Rail)	(A)
Axis 1210 (mounted onto DIN Rail)	(B)

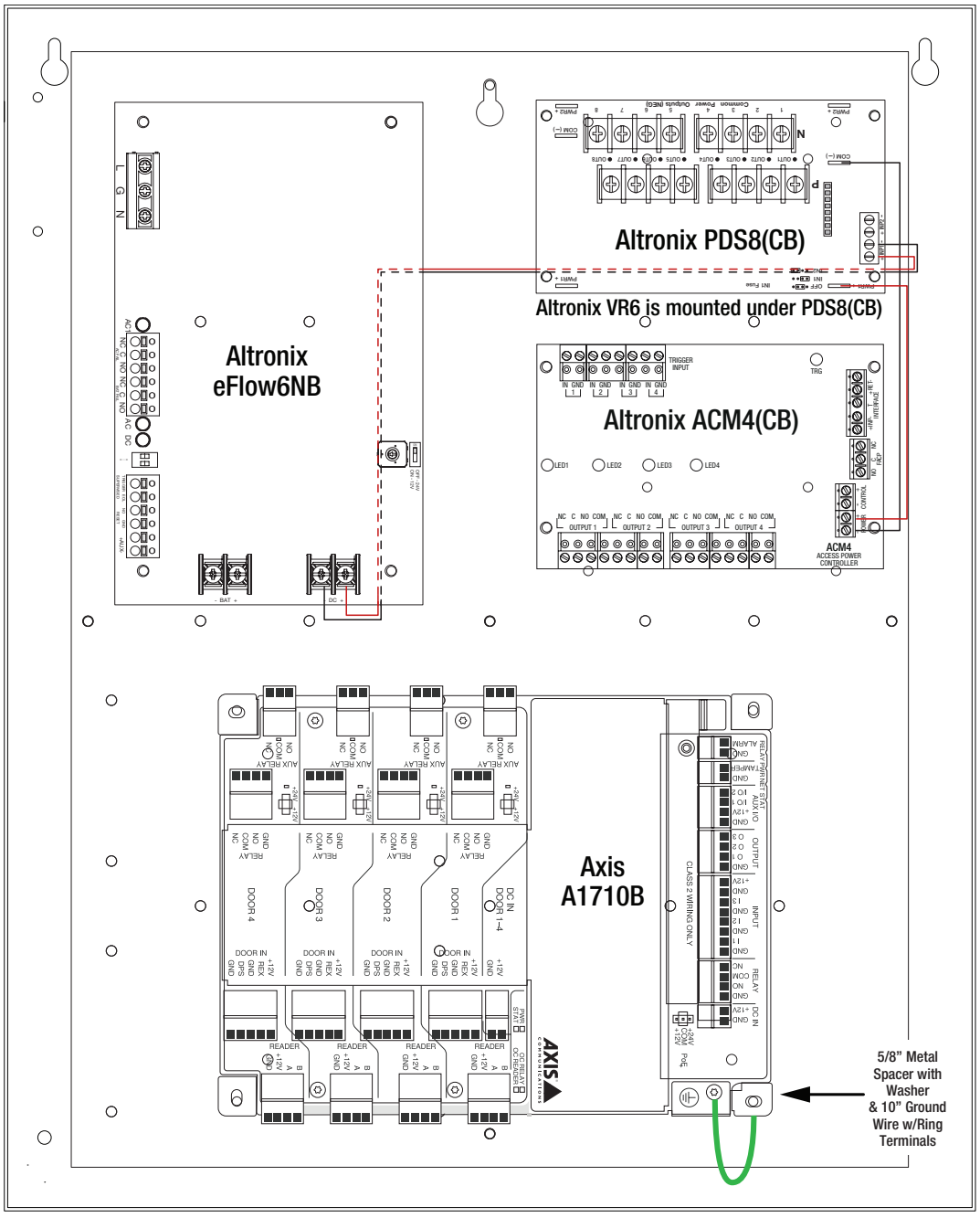
Fig. 4



T1AXK3F4(D): Installation Instructions for Axis Communications Access Controllers on TDR1:

1. Insert screw (provided) into hole configuration for A1710B from the backside of backplane *(Fig. 5a, pg. 6)*.
   Screw 5/8" metal spacer onto screws, repeat for additional three (3) board mounting holes.
   Use 5/8" metal spacer with washer and 10" ground wire where indicated on *Fig. 5a, pg. 6.*
2. Mount A1710B to spacers utilizing 5/16" pan head screws (provided) *(Fig. 5, pg. 6)*.
3. Fasten TDR1 backplane to Trove1 enclosure utilizing lock nuts (provided by Altronix).

Fig. 5



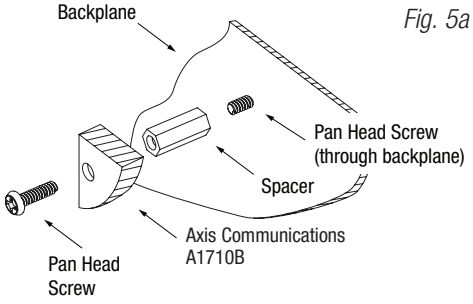
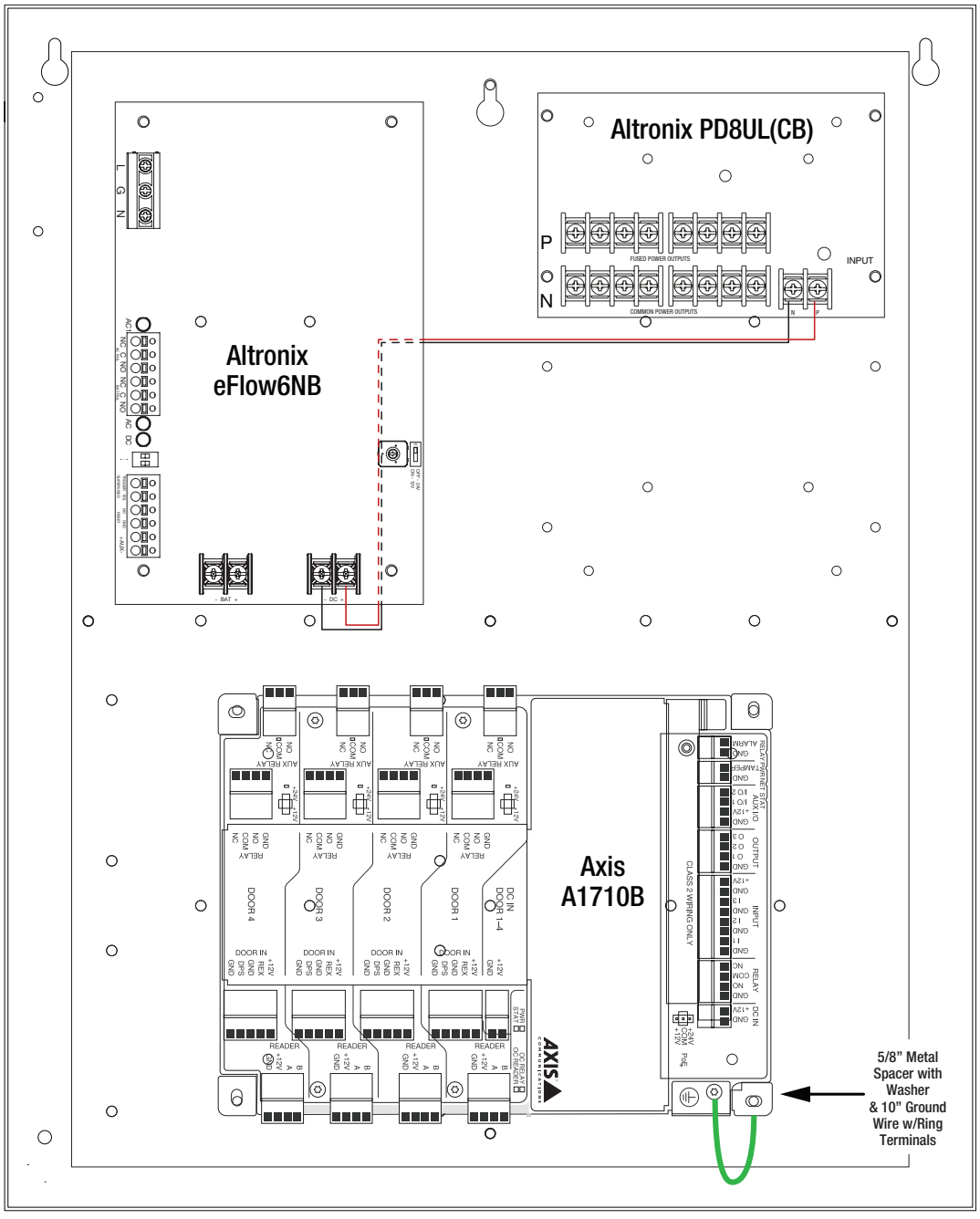


Fig. 5a

T1AXK3F4P(D): Installation Instructions for Axis Communications Access Controllers on TDR1:

1. Insert screw (provided) into hole configuration for A1710B from the backside of backplane *(Fig. 6a, pg. 7)*.
   Screw 5/8" metal spacer onto screws, repeat for additional three (3) board mounting holes.
   Use 5/8" metal spacer with washer and 10" ground wire where indicated on *Fig. 6a, pg. 7.*
2. Mount A1710B to spacers utilizing 5/16" pan head screws (provided) *(Fig. 6, pg. 7)*.
3. Fasten TDR1 backplane to Trove1 enclosure utilizing lock nuts (provided by Altronix).

Fig. 6



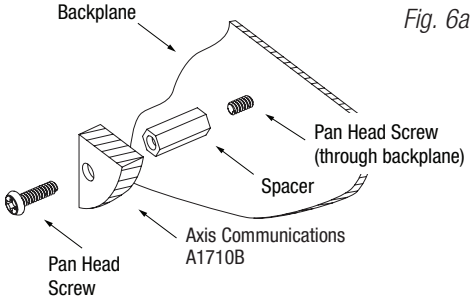
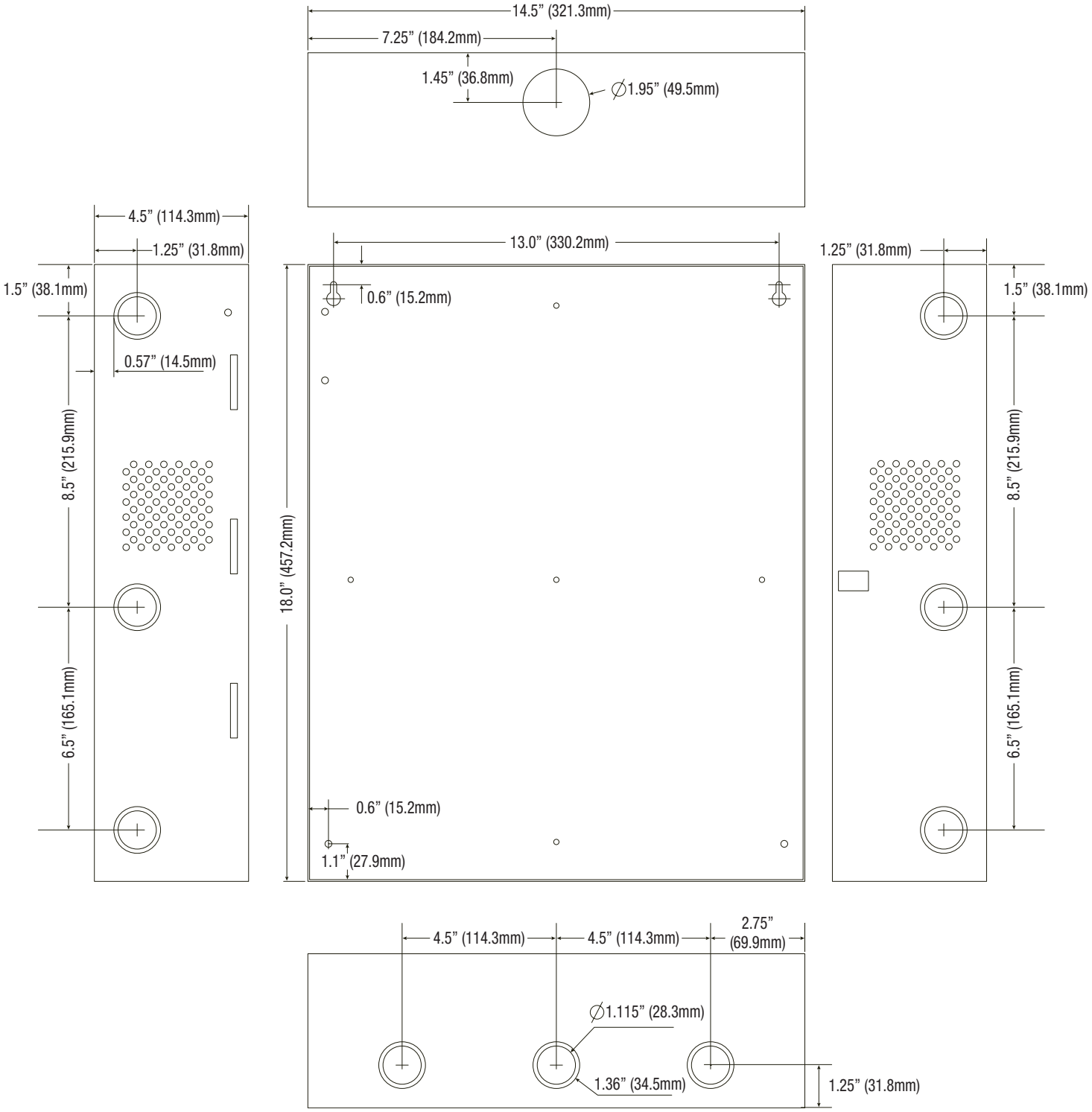


Fig. 6a

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

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



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