

Access & Power Integration

T1MK1F8PWP

Outdoor Altronix/Mercury Kit with Fused Outputs

Fully assembled kit includes:

- Trove1WP outdoor enclosure with TM1X Altronix/Mercury backplane
- (1) eFlow4NB - Power Supply/Charger
- (1) PD8UL - Fused Power Distribution Module

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

Installation Guide



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Rev. 101223

Installing Company: _____ Service Rep. Name: _____

Address: _____ Phone #: _____



More than just power.™

Overview:

Altronix T1MK1F8PWP Outdoor Trove Mercury kit is pre-assembled and consists of Trove1M1WP enclosure/backplane with factory installed Altronix power supply/charger and sub-assembly. T1MK1F8PWP kit also accommodates various combinations of Mercury/LenelS2 controllers for up to four (4) doors in a single enclosure.

THN2 accommodates a combination of the following Mercury/LenelS2 controllers:

LP1501, MR51e, MR50, LP1502, MR4502, MR52, MR16IN, MR16OUT, LP2500, MUX8

Configuration Chart:

Altronix Model Number	Power Supply Board Input Fuse Rating	Power Supply Board Battery Fuse Rating	120VAC 60Hz Input Current (A)	Maximum Supply Current for Main and Aux. Outputs on Power Supply board and PD8UL Power Distribution Module's outputs	Nominal DC Output Voltage		Fused Outputs	PD8UL Board Output Fuse Rating
					[DC]	[Aux]		
					Output Range (VDC)	Output Range (VDC)		
T1MK1F8PWP	5A/ 250V	7.5A/ 32V	3.5	12VDC @ 3.7A	9.7-13.2	10.03-13.2	8	3.5A/ 250V

Battery Backup:

- Trove1M1WP enclosure accommodates up to two (2) 12VDC/7AH batteries.

Accessories

PMK2 Pole Mount Kit (order separately)

PMK2 pole mount kit is designed to simplify installation of outdoor units. It accommodates 2" - 8" (diameter) poles or 5" (127mm) square poles. Kit includes:

- Two (2) powder coated steel mount brackets.
- Four (4) stainless steel bolts and lock washers.
- Two (2) wormgear quick release straps.

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.

1. Remove backplane from enclosure prior to drilling. Do not discard hardware.
Note: Make sure that hardware will not interfere with components of the circuit board.
2. Mark and drill desired inlets on the enclosure to facilitate wiring. Maximum NEMA type 4X rated fittings to be used are 0.5".
Follow manufacturer's specifications for the appropriate size opening.
Note: Inlets for conduit fittings should only be made on the bottom of the enclosure.
UL Listed NEMA type 4X rated conduit connector/hubs shall be used for the appropriate size inlets.
3. Mounting NEMA4/4X rated enclosure (*Enclosure Dimensions, pg. 8*):
Wall mount: Mount unit in desired location. Mark and drill holes to line up with the top and bottom holes of the enclosure flange.
Secure enclosure with appropriate fasteners (e. g. screws and anchors; bolts and locking nuts, etc.) that are compatible with mounting surface and are of sufficient length/construction to ensure a secure mount (*Fig. 2, pg. 6*).
Pole Mount: Refer to Figs. 3 - 7, pg. 6.
Note: All inlets for conduit fittings should be on the bottom of the enclosure.
4. To facilitate wire entry utilize weather-tight NEMA rated connectors, bushings, and cable.
5. Mount Mercury/LenelS2 boards to TM1X backplane, refer to *page 3*.
6. Refer to the eFlow Power Supply/Charger Installation Guide for eFlow4NB and corresponding Sub-Assembly Installation Guide for PD8UL for further installation instructions.

T1MK1F8PWP: Configuration of Mercury Boards:

1. Fasten spacers (supplied) to pem locations (A), (B), (C) or (D) as shown on *Fig. 1, pg. 3* depending on the sub-assembly module.
2. Secure boards to spacers using pan head screws (supplied).
3. Fasten backplane to Trove1M1WP enclosure utilizing provided hardware.

Position Chart for the Following Mercury/LeneIS2 Models:

Mercury/LeneIS2 Access Controller	Pem Mounting
LP1502, LP4502, MR52, MR16IN, MR16OUT	(A)
LP2500, MUX8	(B)
LP2500, MUX8	(C)
LP1501, MR62e	(D)

Fig. 1

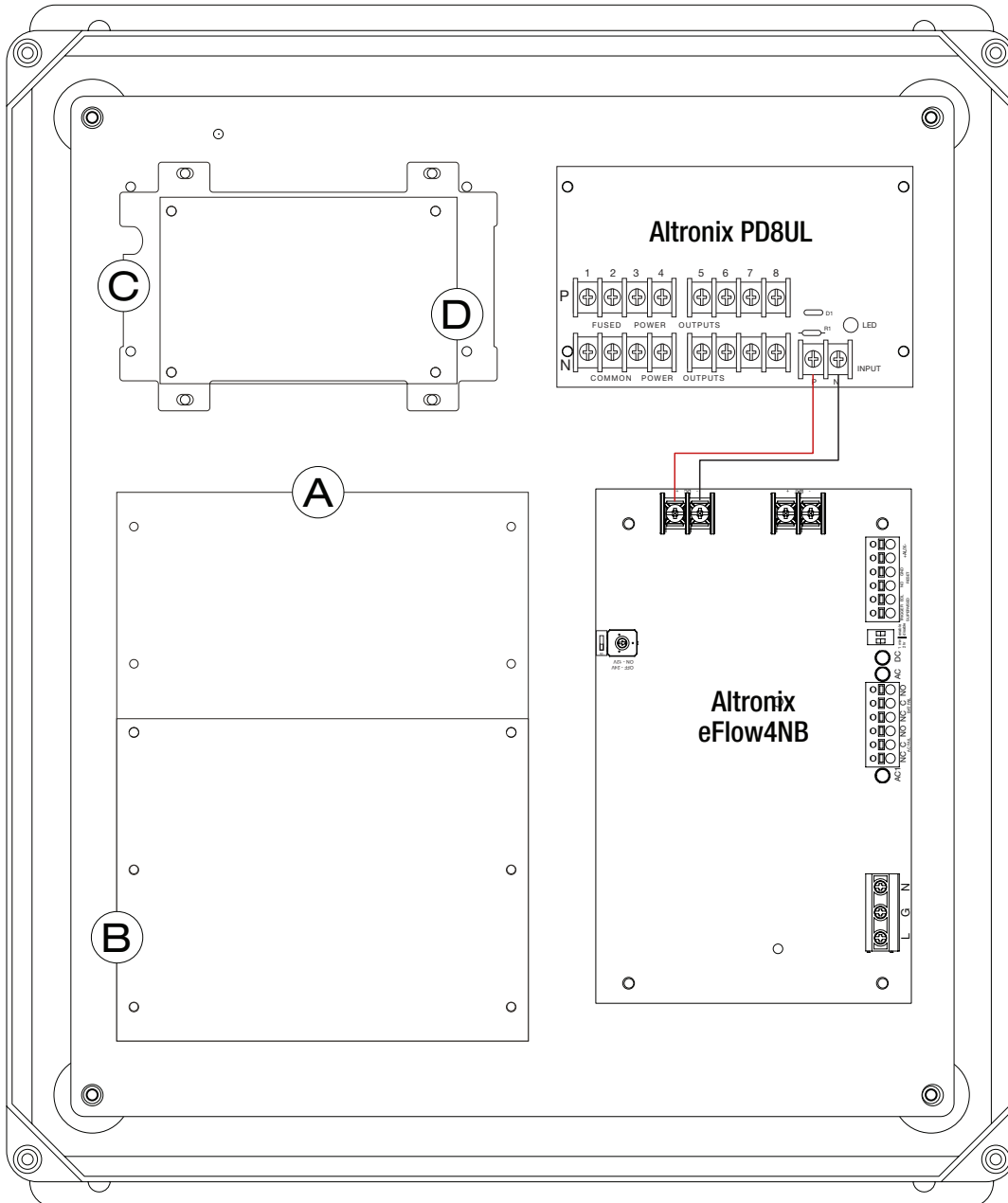
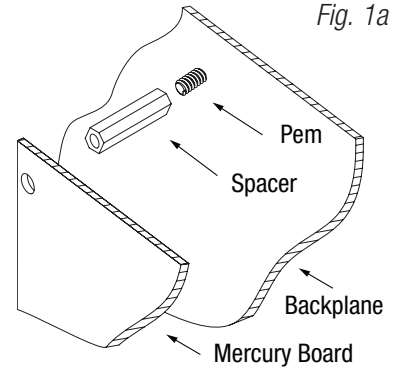


Fig. 1a



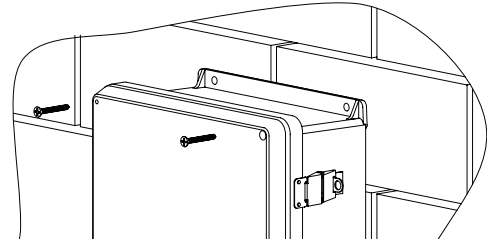
Notes:

Notes:

Wall Mount Installation

- 1- Place unit at desired location and secure with mounting screws *(not included)* (Fig. 2, pg. 6).

Fig. 2



Pole Mounting Using Optional Pole Mount Kit PMK2 (not included):

This installation should be made by qualified service personnel. This product contains no serviceable parts. PMK2 is intended for use with Altronix outdoor rated power supplies or accessories housed in WP2 enclosures. Brackets are designed for use with the Wormgear Quick Release Straps (two included).

1. Thread one (1) wormgear quick release strap through the slots on the back of a mounting bracket (Fig. 3, pg. 6).
2. Once the desired height of the top Pole Mount bracket is achieved, tighten the straps down by sliding open end of the strap through the locking mechanism on the strap, then tighten the screw with flat head screwdriver or 5/16" hex socket driver (Fig. 4, pg. 5 and Fig. 6, pg. 6).

Fig. 3

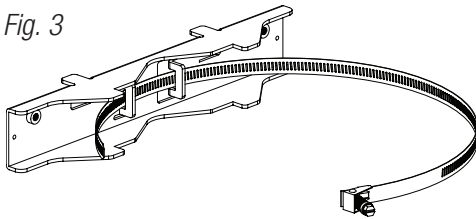


Fig. 4

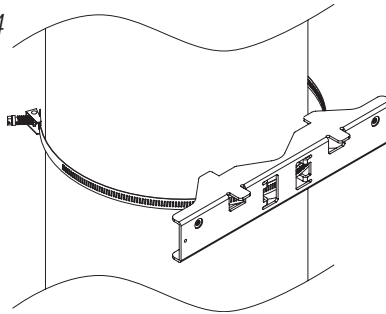
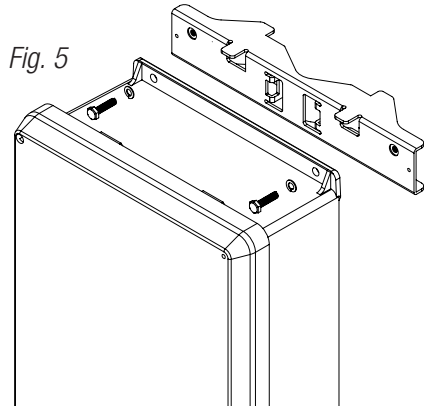


Fig. 5



3. Attach the bottom bracket to the enclosure by inserting bolts through the flange of the enclosure and into the bracket, tightening bolts with a 7/16" hex socket (Fig. 5, pg. 6).
4. Thread the second wormgear quick release strap through the slots on the back of the bottom mounting bracket (Fig. 3, pg. 6).
5. Mount enclosure onto the top bracket by inserting bolts through flange of the enclosure and into the bracket, tightening bolts with a 7/16" hex socket (Fig. 5, pg. 6).
6. Tighten the straps of the bottom bracket down by sliding the open end of the strap through the locking mechanism on the strap, then tighten screw with flat head screwdriver or 5/16" hex socket driver (Fig. 3, pg. 6).
7. Clip excess straps.

Fig. 6

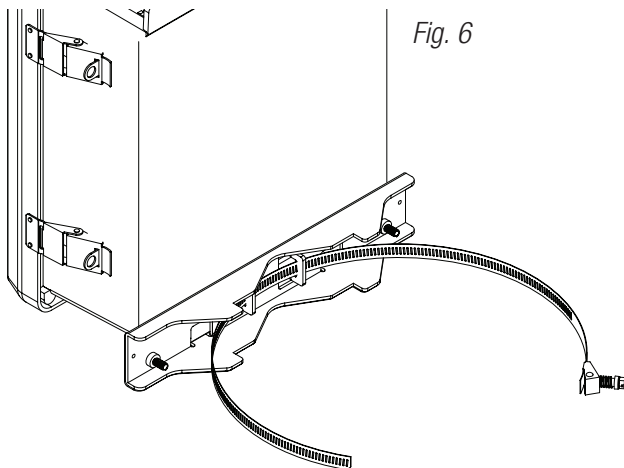


Fig. 7

2" to 8" (50.8mm to 203.2mm)
diameter round pole

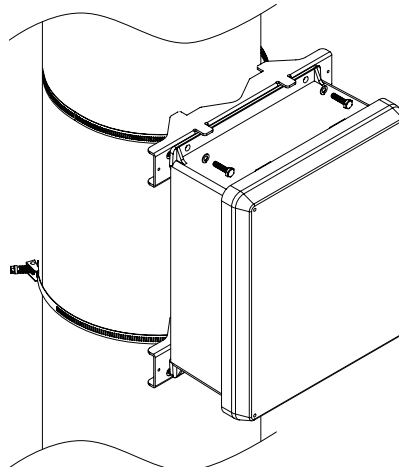
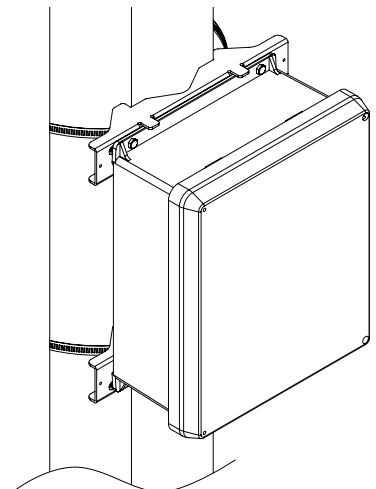


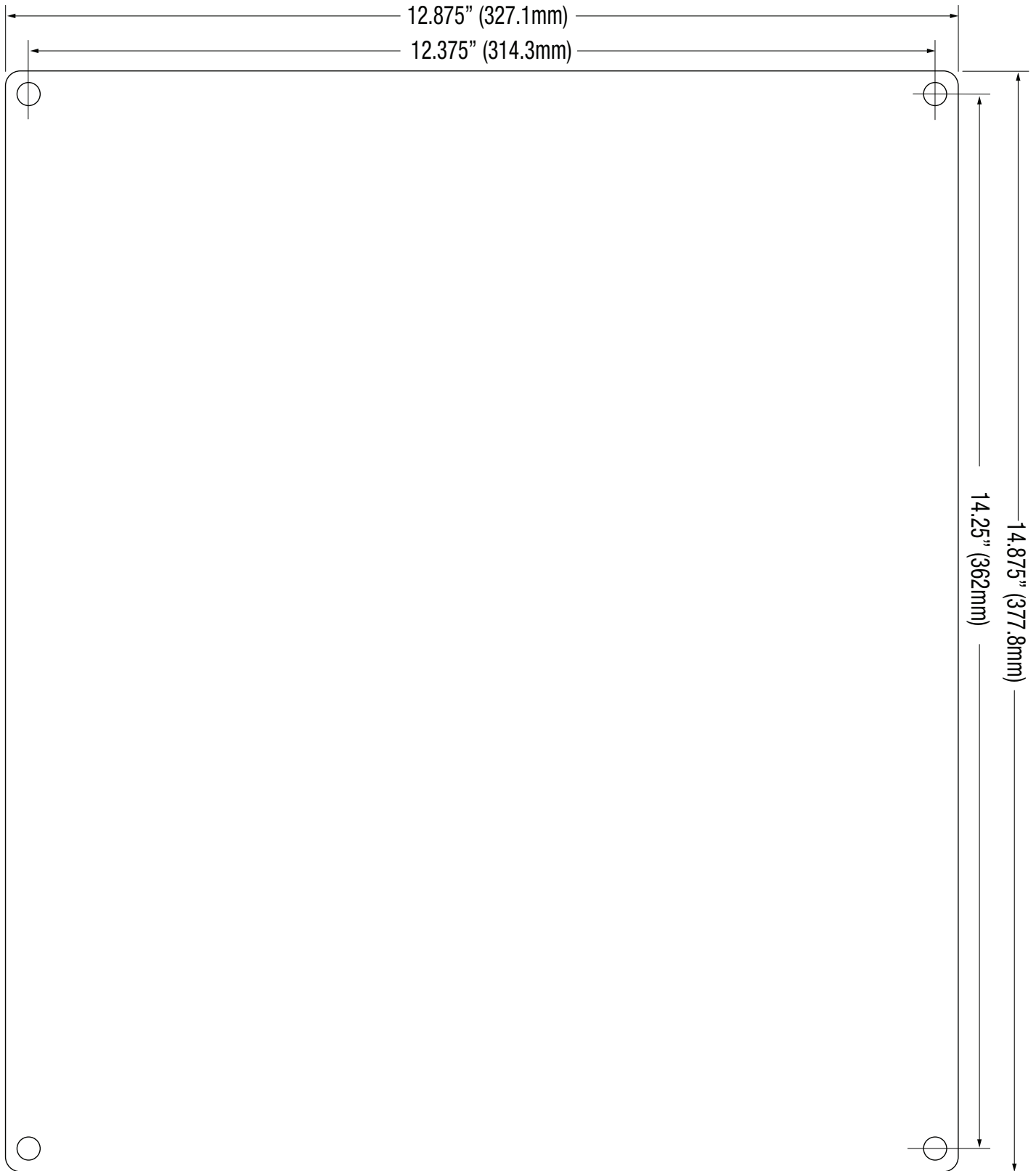
Fig. 7a

5" (127mm) square pole



TM1X Drawing and Dimensions (H x W x D approx.):

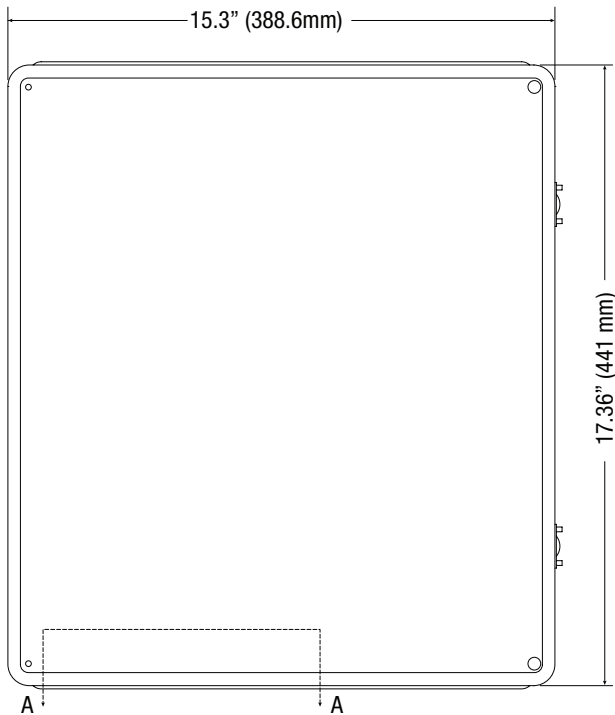
10.75" x 8.875" x 2.375" (273.1mm x 225.4mm x 60.3mm)



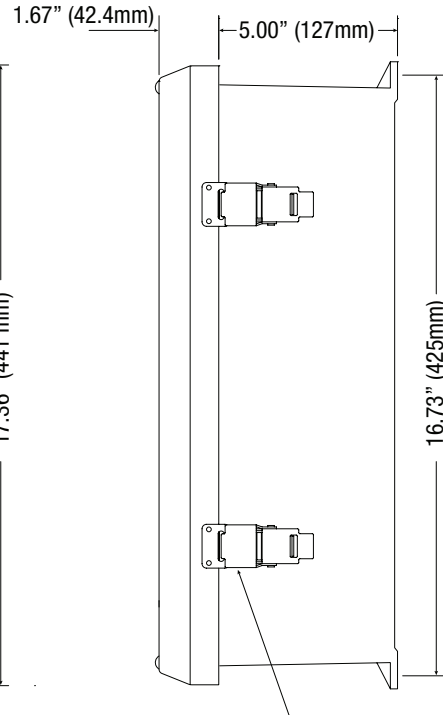
Enclosure Dimensions (H x W x D approximate):

17.53" x 15.3" x 6.67" (445.3mm x 388.6mm x 169.4mm)

FRONT VIEW

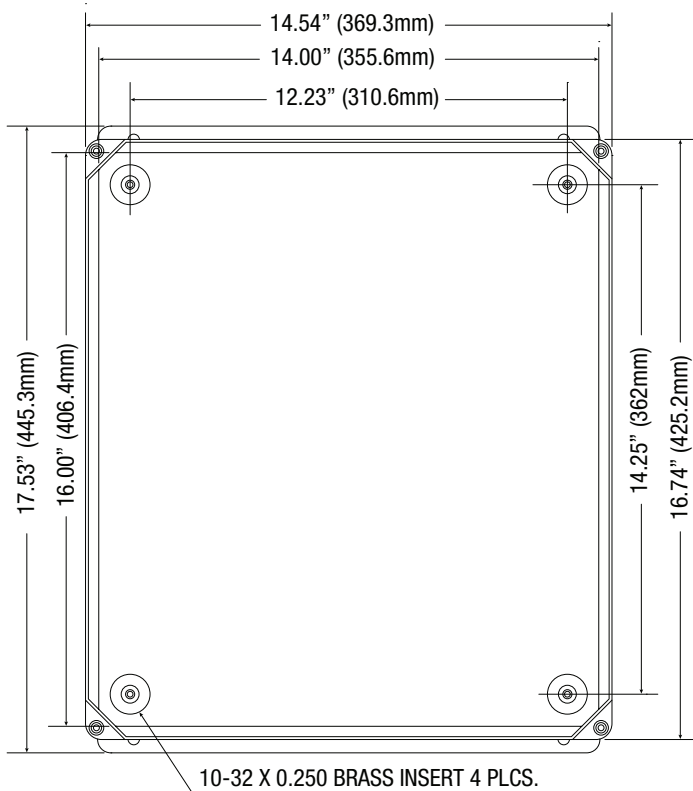


RIGHT SIDE VIEW

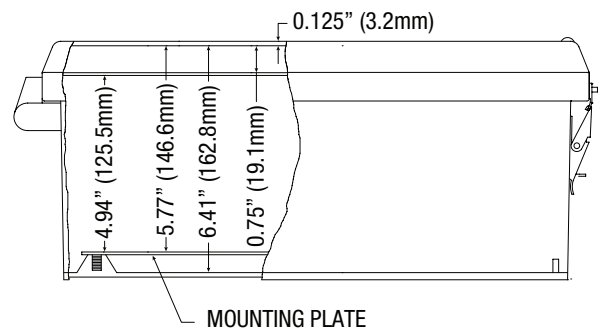


316 STAINLESS STEEL PADLOCK LATCH
ATTACHED WITH RIVETS. Ø 0.375 PADLOCK EYE

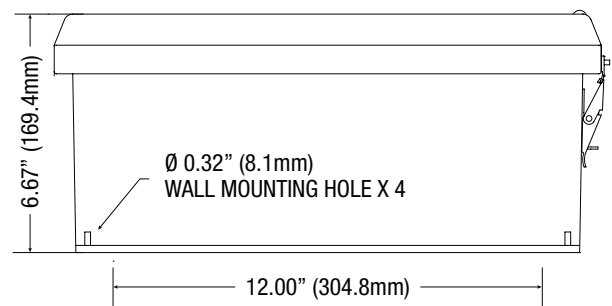
FRONT VIEW COVER REMOVED



SECTION A-A



END VIEW



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

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