WAYPOINT

WayPoint10A Series

AC Outdoor Power Supplies

Models Include:

WayPoint10AU
- 24VAC @ 4A and/or 28VAC @ 3.5A.
- Two (2) fuse protected outputs.

WayPoint10A4U
- 24VAC @ 4A or 28VAC @ 3.5A.
- Four (4) fuse protected outputs.

WayPoint10A8U
- 24VAC @ 4A or 28VAC @ 3.5A.
- Eight (8) fuse protected outputs.

WayPoint10ADU
- 24VAC @ 4A and/or 28VAC @ 3.5A.
- Two (2) Class 2 Rated PTC protected power-limited outputs.

WayPoint10A4DU
- 24VAC @ 4A or 28VAC @ 3.5A.
- Four (4) Class 2 Rated PTC protected power-limited outputs.

WayPoint10A8DU
- 24VAC @ 4A or 28VAC @ 3.5A.
- Eight (8) Class 2 Rated PTC protected power-limited outputs.

Installation Guide

c UL us CE

Altronix®

Rev. 091514-10A

More than just power.™

Installing Company: _____ Service Rep. Name: _____

Address: _____ Phone #: _____

Overview:

Altronix WayPoint Outdoor Power Supplies provide 24VAC and/or 28VAC distributed via two (2), four (4) or eight (8) outputs for powering CCTV cameras, heaters, and other video accessories.

WayPoint10A Series AC Reference Chart:

Altronix Model Number	Output Voltage	Total Output Current (Power)	Number and Type of Outputs	Fuse Output Ratings	PTC Output Ratings	Class 2 Rated power-limited outputs	Input Current Draw		Product Weight
							115VAC 60Hz	230VAC 50Hz	
WayPoint10AU	24VAC	4A	1	5A/ 32V*	–	–	1.0A	0.5A	4.68kg
	28VAC	3.5A							
	24VAC and 28VAC	3.5A	1 of each						
WayPoint10ADU	24VAC	4A	1	–	9A	✓			4.68kg
	28VAC	3.5A							
	24VAC and 28VAC	3.5A	1 of each						
WayPoint10A4U	24VAC	4A	4 Fused	5A/ 32V*	–	–			4.8kg
	28VAC	3.5A							
WayPoint10A4DU	24VAC	4A	4 PTCs	–	2.5A	✓			4.8kg
	28VAC	3.5A							
WayPoint10A8U	24VAC	4A	8 Fused	5A/ 32V*	–	–			4.95kg
	28VAC	3.5A							
WayPoint10A8DU	24VAC	4A	8 PTCs	–	2.5A	✓			4.95kg
	28VAC	3.5A							

*Lower rated fuses can be used.

Specifications:

Agency Listings:

- UL/cUL Listed:
  UL 60950-1 Information Technology Equipment.
  UL 60950-22 Equipment to be Installed Outdoors.
- CE European Conformity.

Input:

- Input: 115VAC, 60Hz,1A or 230VAC, 50Hz, 0.5A.

Output:

- Output options:
  a. 24VAC or 28VAC.
  b. Both 24VAC and 28VAC (WayPoint10AU/ADU only).
- Fuse ratings:
  WayPoint10A Series incorporate 5A/32V fuses.

Visual Indicators:

- Individual power output LED indicators.
- Illuminated master power switch.

Features:

- Surge suppression.
- Spare fuses included.

Accessories:

- Optional PMK1 Pole Mount Kit simplifies installation of outdoor units.

Enclosure:

- NEMA 4/4X, IP66-11 Rated enclosure for outdoor use.
- Enclosure Dimensions (H x W x D approx.): 13.31" x 11.31" x 5.59" (338.1 mm x 287.3 mm x 142 mm).

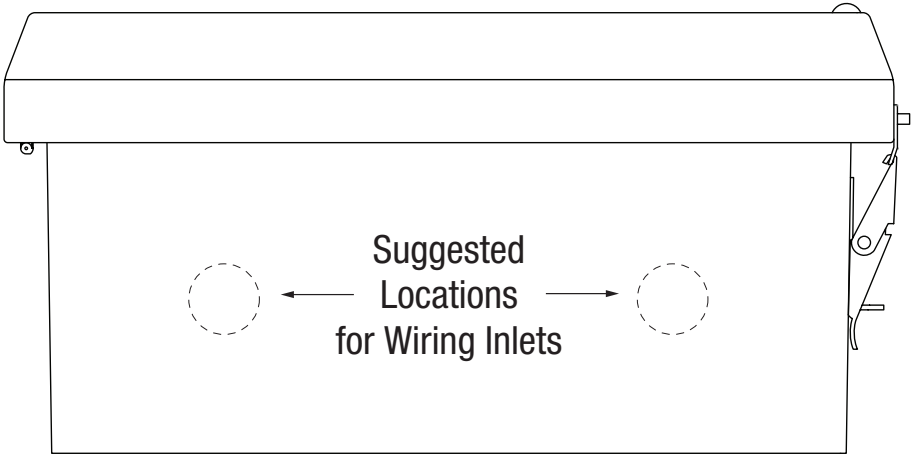
Installation Instructions:

Unit shall be installed in accordance with The National Electrical Code and all applicable Local Regulations.

1. Remove backplane from enclosure prior to mounting (do not discard hardware).
2. Mark and drill desired inlets on the enclosure to facilitate wiring *(Fig. 1, pg. 4).*
   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. 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 *(Fig. 5, pg. 8 and Fig. 11, pg. 12)*.
4. Mount back plane to enclosure with hardware.
5. Set the input voltage selector switch for 115VAC or 230VAC operation *(Figs. 2-4, pgs. 5-7)*
6. To facilitate wire entry utilize weather-tight NEMA 4 rated connectors, bushings, and cable.
7. Set illuminated master power disconnect circuit breaker to the [OFF] position *(Figs. 2-4, pgs. 5-7)*.
8. Connect unswitched AC power (115VAC/230VAC, 50/60Hz) to terminals marked [L, N] *(Figs. 2-4, pgs. 5-7)*.
   Green branch wire connects to earth (safety) ground lug ⏚.
   Wire gauge range of connectors is 14 AWG to 11 AWG (1.6 mm to 2.5 mm diameter).
9. Set illuminated master power disconnect circuit breaker to the [RESET/ON] position *(Figs. 2-4, pgs. 5-7)*.
10. WayPoint10A4U/A4DU, WayPoint10A8U/A8DU are factory set for 24VAC operation.
    For 28VAC operation adjust unit prior to mounting and applying power as follows:
    Change the wire position so that the black wire [28V] is connected to the terminal marked [P] and the yellow wire [24V] is connected to the terminal marked [S].
11. Measure output voltage on terminals marked [COM, 24V, 28V] on WayPoint10AU or WayPoint10ADU *(Fig. 2, pg. 5)* or [1-4] or [1-8 COM] on WayPoint10A4U, WayPoint10A4DU, WayPoint10A8U and WayPoint10A8DU before connecting devices *(Fig. 3, pg. 6, Fig. 4, pg. 7)*.
    This helps avoiding potential damage.
12. Set illuminated master power disconnect circuit breaker to the [OFF] position *(Figs. 2-4, pgs. 5-7)*.
13. **Connecting devices to WayPoint10AU or WayPoint10ADU:**
    For 24VAC output connect devices to terminals marked [COM, 24V] *(Fig. 2, pg. 5)*.
    For 28VAC output connect devices to terminals marked [COM, 28V] *(Fig. 2, pg. 5)*.
    Connecting devices to WayPoint10A4U or WayPoint10A4DU:
    Connect device to terminals marked [1-4] and [COM] *(Fig. 3, pg. 6).*
    Connecting devices to WayPoint10A8U or WayPoint10A8DU:
    Connect device to terminals marked [1-8] and [COM] *(Fig. 4, pg. 7).*
14. Set illuminated master power disconnect circuit breaker to the [RESET/ON] position *(Figs. 2-4, pgs. 5-7)*.
15. LEDs will illuminate indicating each output is powered *(Figs. 2-4, pgs. 5-7)*.
16. Upon completion of wiring secure enclosure door with latches and and optional Altronix Lock1WP.
    Caution: Equipment to be installed / serviced by authorized / trained personnel only.
    Shut branch circuit power before installing / servicing equipment.

WARNING: When installing in a non-restricted service area use lock or other fastened means on door latches. This installation should be made by qualified service personnel and should conform to the National Electrical Code and all local codes.

Fig. 1



Bottom of Enclosure

LED Identification Chart:

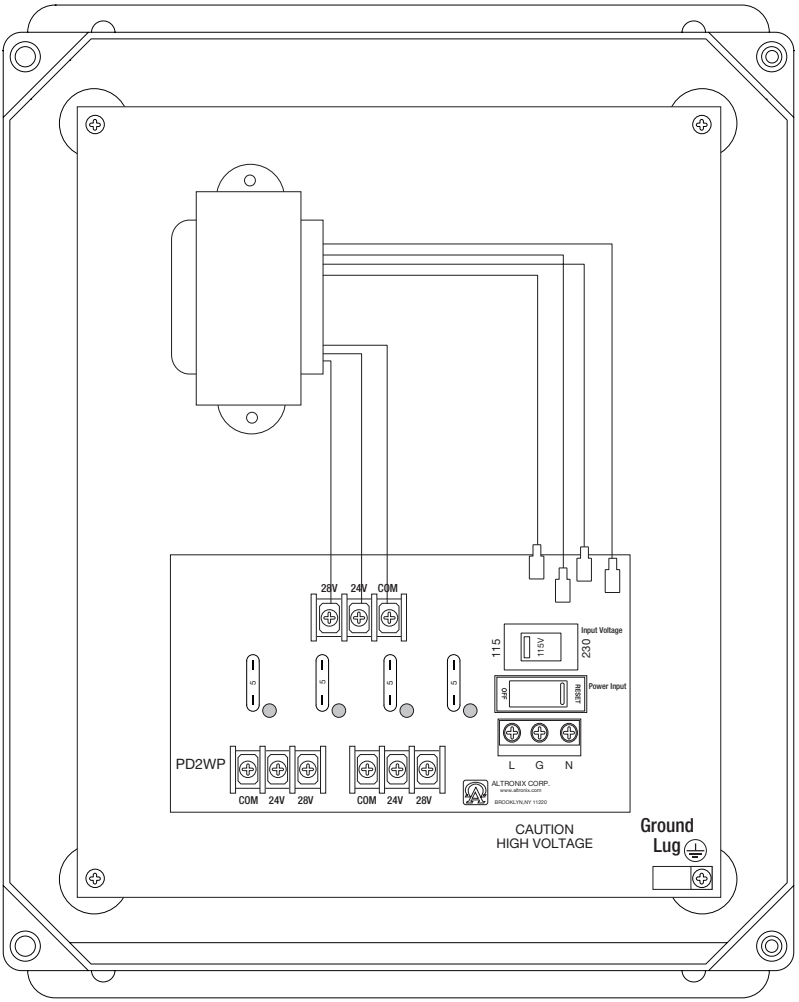
ON	OFF
Normal operating condition.	No AC output. Blown fuse or tripped PTC, illuminated master power disconnect circuit breaker is tripped or OFF, AC failure.

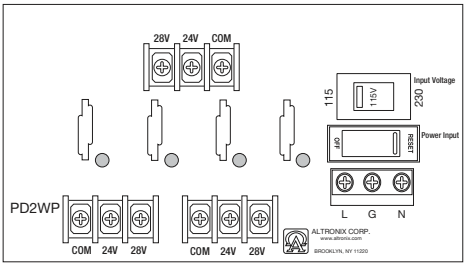
To reset a tripped PTC turn the power off for 1 minute and then turn it back on.

Technical Specifications:

Parameter	Description
Input power requirements	115VAC, 60Hz, 1A or 230VAC, 50Hz, 0.5A.
Indicators	Individual power output LED indicators. Illuminated master power switch.
Environmental Conditions	**Operating Ambient Temperature:** For 24VAC @ 4A output: – 40°C to 60°C (– 40°F to 140ºF). For 28VAC @ 3.5A output: – 40°C to 70°C (– 40°F to 158ºF). **Relative Humidity:** 85%, +/– 5% **Storage Temperature:** – 40ºC to 75ºC (– 40ºF to 167ºF). **Operating Altitude:** – 304.8 to 2,000m.
Regulatory Compliance	**UL/cUL Listed for** Information Technology Equipment (UL 60950-1) Equipment to be Installed Outdoors (UL 60950-22). **CE** European Conformity.

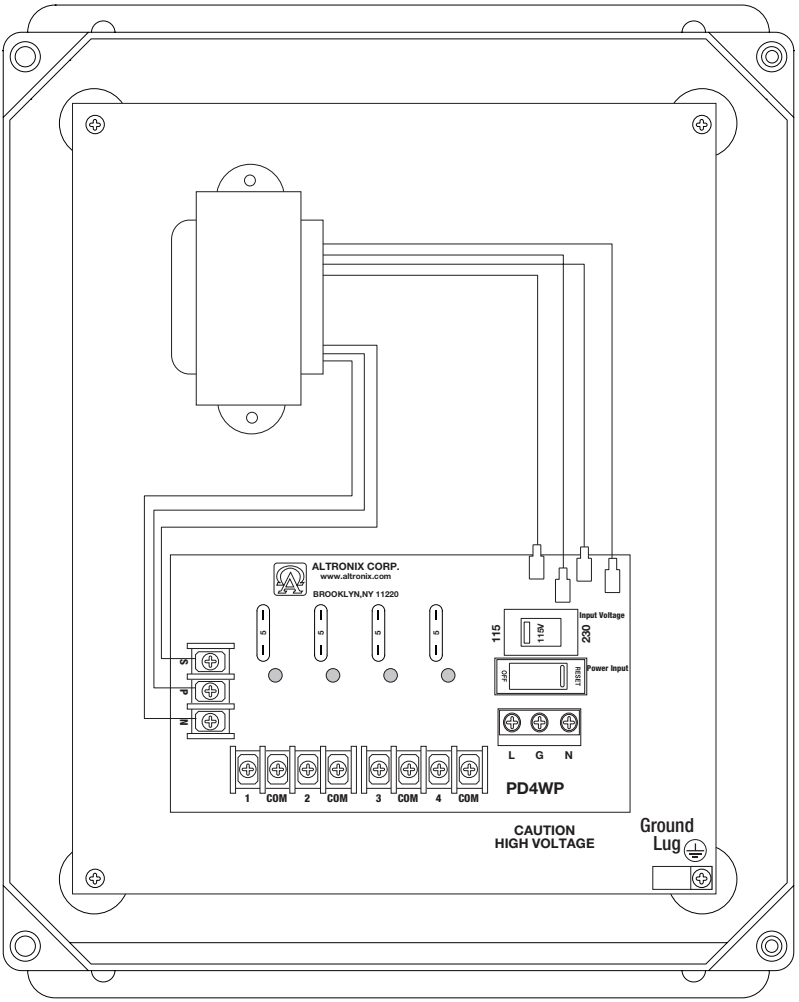
Fig. 2 - **WayPoint10AU (Fuses)**

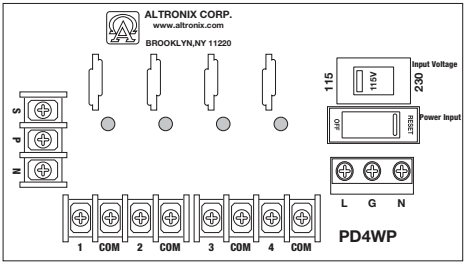




Used on WayPoint10ADU

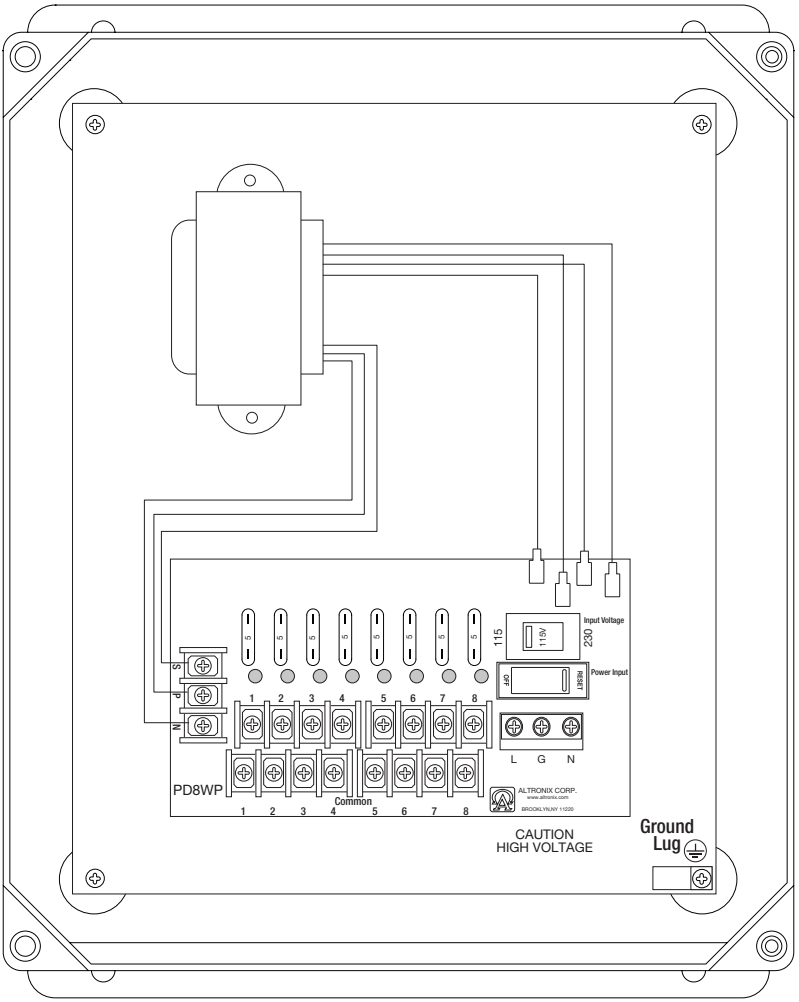
Fig. 3 - **WayPoint10A4U (Fuses)**

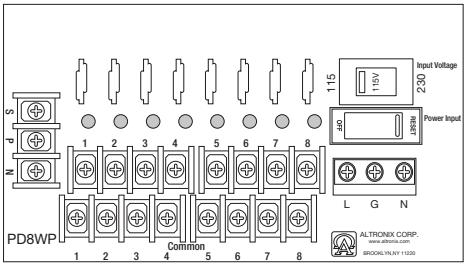




Used on WayPoint10A4D

Fig. 4 - **WayPoint10A8U (Fuses)**



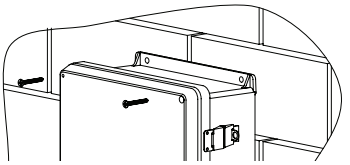


Used on WayPoint10A8DU

Wall Mount Installation:

1- Place unit at desired location and secure with mounting screws *(not included) (Fig. 5, pg. 8).*

Fig. 5



Pole Mounting Using Optional Pole Mount Kit PMK1:

This installation should be made by qualified service personnel. This product contains no serviceable parts. PMK1 outdoor pole mount kit is designed to simplify the installation of Altronix outdoor rated power supplies and accessories housed in models WP3 and WP4 NEMA rated enclosures. PMK1 can be mounted on 2" to 8" (50.8mm to 203.2mm) diameter round or 5" (127mm) square poles. 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. 6, pg. 8).*
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. 7, pg. 8 and Fig. 9, pg. 8).*

Fig. 6

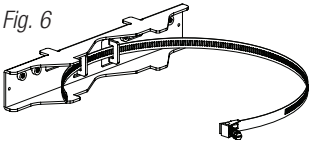


Fig. 7

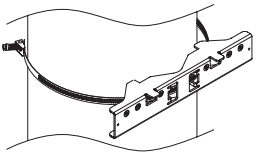
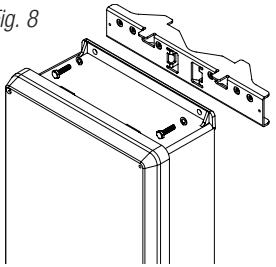


Fig. 8



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. 8, pg. 8).*
4. Thread the second wormgear quick release strap through the slots on the back of the bottom mounting bracket *(Fig. 9, pg. 8).*
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. 7, pg. 8).*
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. 7, pg. 8).*
7. Clip excess straps.

Fig. 9

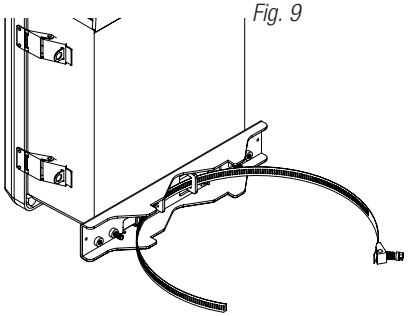


Fig. 10
2" to 8"(50.8mm to 203.2mm) diameter round pole

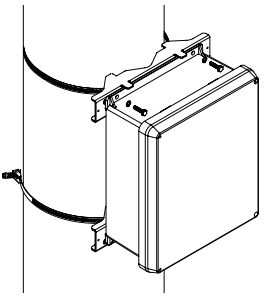
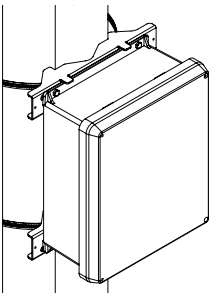


Fig. 10a
5" (127mm) square pole



For fuse protected models:
Replace fuses with the same type and rating 5A/32V.

The lightning flash with arrowhead symbol within an equilateral triangle is intended to alert the user to the presence of an insulated DANGEROUS VOLTAGE within the product's enclosure that may be of sufficient magnitude to constitute an electric shock.

The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

CAUTION: To reduce the risk of electric shock do not open enclosure.
There are no user serviceable parts inside.
Refer servicing to qualified service personnel.

Notes:

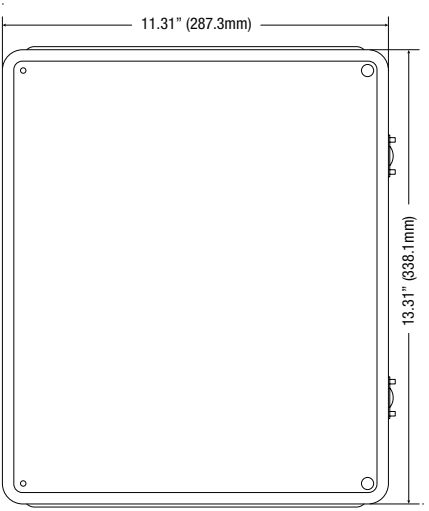
Notes:

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

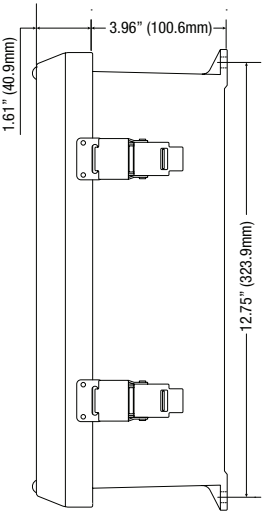
13.31" x 11.31" x 5.59" (338.1mm x 287.3mm x 142mm)

Fig. 11

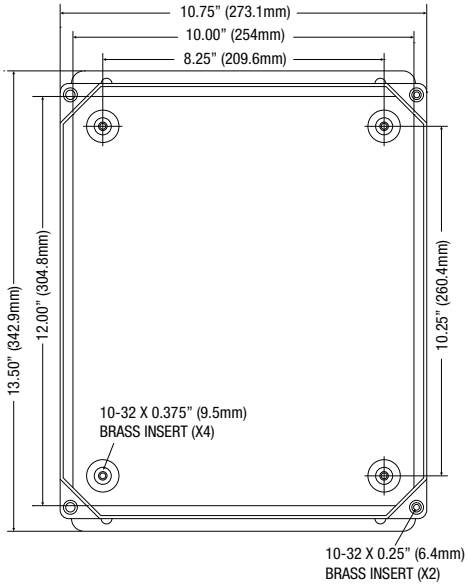
FRONT VIEW



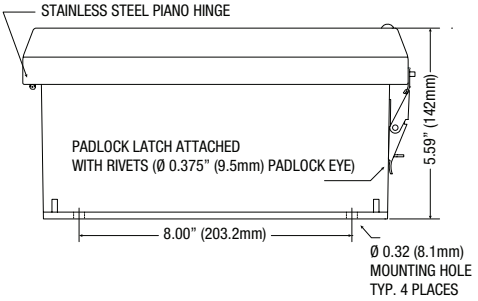
RIGHT SIDE VIEW



FRONT VIEW COVER REMOVED



END VIEW



Altronix is not responsible for any typographical errors.

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