

**Explosion Proof Enclosure - 12"x12"x8" - Internal Dimensions - C1D1 - Surface Mount - (10) 1" Hubs**

Part #: [EPL-AEB-12.12.8-10X1WE](#)



The EPL-AEB-12.12.8-10X1WE from Larson Electronics is an Explosion Proof Enclosure that provides operators with a Class I and II, Divisions 1 and 2 cast aluminum enclosure designed to hold electrical equipment up to 12" by 12" by 8" in size. Equipped with ten, 1" NPT hubs, this explosion proof enclosure is ideal for indoor or outdoor applications where flammable vapors, gases, or dusts exist or stand the potential to exist.

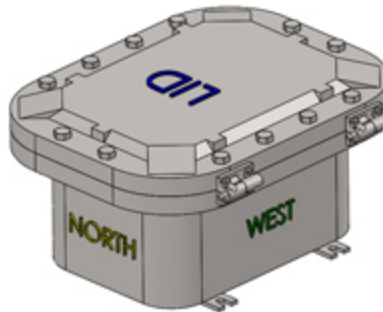
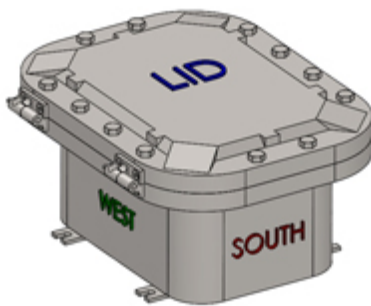
**\*PLEASE NOTE: ANY FREE SHIPPING OFFERS DO NOT APPLY TO EXPLOSION PROOF ENCLOSURES\***

The EPL-AEB-12.12.8-10X1WE explosion proof enclosure is made of cast aluminum, equipped with steel bolts and includes a weatherproof gasket for a NEMA 3R / NEMA 4 protection rating. This hazardous location device enclosure box is NEMA 7 (Groups B, C, and D) and NEMA 9 (Groups E, F, and G) rated. The internal cavity of this flameproof enclosure measures 12" in length by 12" in width by 8" in height. Operators are provided access to a total of ten, 1" NPT hubs on the unit. Five, 1" NPT hubs are located on the west side and five, 1" NPT hubs can be found on the east side of the explosion proof enclosure.

A backplate is available for this unit at an extra cost. Message sales@larsonelectronics.com for more information or call us today at 800-369-6671.

This explosion proof enclosure is designed to house a wide range of compact electronics, control stations, meters, relays, starters, circuit breakers, terminal blocks and industrial equipment, for safe use in combustible work sites. Other applications include systems requiring junction, pull and/or splice boxes.

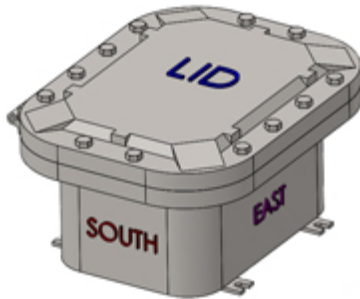
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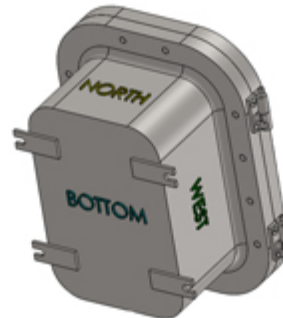
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*Larson Electronics can customize each unit with drilled and tapped operator hubs and/or conduit hubs per customer request. Please view the above and below images for orientation. When looking at the top cover (labeled Lid), all four sides are labeled for the orientation when looking at the Lid. All hubs are CNC machined for precision. Please see below specifications table for included taps and dimensional drawing for exact locations.*



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**Construction:** Each unit in the EPL-AED series is certified to NEC standards for United States and CEC Canada. We offer an ATEX/IEC Ex model for global applications (ATEX-EPL-AED series). These explosion proof enclosures are NEMA 3R rated, for indoor and outdoor use and provide a degree of protection against dirt, water, and ice. NEMA 4X equipment can be equipped upon request. NEMA 4X models include all stainless steel external hardware. Operator lid hinges can be fitted on the enclosure for regular opening and closing. Breather plugs, drain plugs, and grounding lugs can be added at customer request.

**Customization:** Larson Electronics can customize this explosion proof enclosure for compatibility with existing systems, assemblies, work flows and processes or assist in designing units for new installation. We can add indicator lights, windows, hinges, operator handles, push button switches, momentary push button switches, emergency stop push buttons, selector switches, on/off switches, terminal blocks, relays, PLCs, mounting pans and more. Customized labels are also available for each operator in order to meet various requirements.

Unless otherwise specified in the specification tables and drawing, each unit comes without factory conduit hub taps. Conduit openings can be tapped on all sides and back of the explosion proof enclosure. Tapping of conduit hubs is facilitated at Larson Electronics using a CNC machine for precise cutting. Larson Electronics offers customization on conduit opening size and locations. Taps include female NPT (National Pipe Thread), female BSPT (British Standard Pipe Thread), and Metric ISO thread. Please contact us for specific requirements. Additional equipment can be provided from factory, including nipples, unions, seal-offs, and operator devices.

**Suggested Applications:** The EPL-AED series of explosion proof enclosures are approved for use within indoor and outdoor environments where flammable or combustible gases, vapors, dusts, fibers, and flying exist or stand the potential to exist, and is ideal for a wide variety of applications.

Applications include but not limited to aircraft maintenance, alcohol processing, aerospace, chemical manufacturing, coke processing, cold storage, compressed natural gas (CNG) facilities, cranes, cryogenics, distilleries, food processing, fuel storage, gas processing plants, grain processing, laboratories, liquefied natural gas (LNG) facilities, liquid propane gas (LPG), machine operations, manufacturing, marine vessels, methane production, mining, offshore, oil drilling rigs, oil refineries, paint spray booths, paper processing, petrochemical, petroleum refineries, pharmaceuticals, power plants, production refineries, sand blast cabinets, sewage and septic tanks, shipyards, solvent and cleaning areas, storage facilities, tank farms, tankers, textile, washdown areas, waste treatment plants, and woodworking. Click here to read the NEC description for explosion proof and hazardous locations.

At Larson Electronics, we do more than meet your lighting needs. We also provide replacement, retrofit, and upgrade parts as well as industrial grade power accessories. Our craftsmen can custom build any lighting system and/or accessories to fit the unique demands of your operation. A commitment to honesty, quality, and dependability has made Larson Electronics a leader in the lighting and electronics business since 1973. Contact us today at 800-369-6671 or message sales@larsonelectronics.com for more information about our custom options tailored to meet your specific industry needs.

#### **Specifications / Additional Information**

##### **EPL-AEB-12.12.8-10X1WE Explosion Proof Enclosure**

**Listing:** United States - Canada

**Internal Dimensions:** 12"L x 12"W x 8"H

##### **Features/Ratings**

Listed for NEC and CEC

Class I, Divisions 1 & 2, Groups B, C, D

**External Dimensions:** 16.38"L x 16.38"W x 10.69"H

Class I, Zones 1 & 2, Groups IIB+H2, IIA

**Pan Dimensions:** 10.5"L x 10.5"W

Class II, Divisions 1 & 2, Groups E, F, G

**Available Dimensions for Devices:** 11.37"L x 11.37"W x 8.00"H

Class III, Divisions 1 & 2

**Weight:** 83 lbs

NEMA 3R, 4, 7, 9

**Maximum Conduit Size:** 5" NPT

UL 886 Certified

**Maximum Operators on Lid:** 16 (4 rows of 4)

UL 698 Certified

**Total Hub Quantity:** (10) 1" NPT

UL 1203 Certified

**Lid (Top) Hubs:** 0

CSA C22.2 No 30 Certified

**North Side Hubs:** 0

**South Side Hubs:** 0

**East Side Hubs:** (5) 1" NPT

**West Side Hubs:** (5) 1" NPT

**Bottom (Back/Base) Hubs:** 0

**Conduit:** Operator Provided

**Operating Window:** N/A

**Hinges Included:** No

**Hinges Material:** N/A

**Internal Mounting Pan Included:** N/A

**Internal Mounting Pan Taps:** N/A

**Internal Mounting Pan Material:** N/A

**Internal Mounting Pan Dimensions:** N/A

**Internal Grounding Lug:** N/A

**Breather Plug:** N/A

**Drain Plug:** N/A

**Ambient Operating Temp Range:** -30°C to +85°C

**Operating Temp Rating:** T5/T6 Rated

**Enclosure Material:** Copper Free Cast Aluminum (less than 4/10 of 1%)

**Hardware Material:** Zinc Plated Steel

**Enclosure Finish:** Aluminum Lacquer Paint; Custom Available

**Mounting:** Surface Mount Legs

**Mounting Leg Height:** 0.25"

**Mounting Dimensions (Horizontal) Height:** 10.69"

**Special Orders- Requirements**

**Mounting Dimensions (Horizontal) Width:** 14.94"

Contact us for special requirements

**Mounting Dimensions (Vertical) Height:** 6.94" Center to Center

**Phone:** 1-214-616-6180

**Mounting Dimensions (Vertical) Width:** 14.94" Center to Center

**Toll Free:** 1-800-369-6671

**Shipping Weight:** 138 lb

**Fax:** 1-903-498-3364

**Shipping Dimensions:** 48"L x 48"W x 20"H

**E-mail:** [sales@larsonelectronics.com](mailto:sales@larsonelectronics.com)

\*All grounding shall comply with state and local codes and meet the minimum requirements of the National Electronic Code section 250\*

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[Part #: EPL-AEB-12.12.8-10X1WE \(224501\)](#)









Links (Click on the below items to view):

- [Manual](#)
- [Hi-Res Image 1- Explosion Proof Enclosure](#)
- [Hi-Res Image 2- Explosion Proof Enclosure](#)
- [Hi-Res Image 3- Explosion Proof Enclosure](#)
- [Hi-Res Image 4- Explosion Proof Enclosure](#)
- [Hi-Res Image 5- Explosion Proof Enclosure](#)
- [Hi-Res Image 6- Explosion Proof Enclosure](#)
- [Hi-Res Image 7- Explosion Proof Enclosure](#)
- [Hi-Res Image 8- Explosion Proof Enclosure](#)