Larson Electronics LLC
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EPL-AEB-24.24.12

Explosion Proof Enclosure - 24" x 24" x 10" Internal Dimensions - Class 1 Division 1 - Surface Mount

Product ID: 152725

Please see last page for supporting documentation for this product (certificates, CAD files & drawings, IES files, wiring diagrams, etc).



Image: EPL-AEB-24.24.12

Larson Electronics LLC manufactures a wide variety of products, including custom built to spec designs. The pictures displayed for this unit are a general representation of form factor for the product line and may not accurately represent this exact configuration in every detail due to custom builds and changes between similar products in our standard catalog. The specifics for this configuration are listed in the specification table and supporting documentation (CAD files, Dimensional Drawing, Name Plate Diagram, Wiring Diagram, etc.). This means that specific details (receptacles, plugs, wires, connections, mounting brackets, external finishes, etc.) may not be accurately represented in images vs specifications. Please review specifications and do not order based solely on images.

EPL-AEB-24.24.10 Explosion Proof Enclosure

Listing: United States, Canada
Internal Dimensions: 24" (610mm) L x 24" (610mm) H x 10" (254mm) D
External Dimensions: 28.38" (720.85mm) L x 28.38" (720.85mm) H x 14.19" (360.43mm) D
Pan Dimensions:22.25" (565.2mm)L x 22.25" (565.2mm)W
Available Dimensions for Devices: 23.23" (590.0mm) L x 23.23" (590.0mm) H x 10.06" (255.52mm) D
Weight: 350 lb (158.9 kg)
Maximum Conduit Size: 6" NPT
Maximum Operators on Lid: 81 (9 rows of 9)
Total Hub Quantity: 0
Lid (Top) Hubs: 0
North Side Hubs: 0
South Side Hubs: 0
East Side Hubs: 0
West Side Hubs: 0
Bottom (Back/Base) Hubs: 0
Conduit: Operator Provided
Operating Window: N/A
Hinges Included: No

Features/Ratings

Listed for NEC and CEC
Class I, Divisions 1 & 2, Groups B**, C, D
Class I, Zones 1 & 2, Groups IIB+H2, IIA
Class II, Divisions 1 & 2, Groups E, F, G
Class III, Divisions 1 & 2
NEMA 3R, 4, 7, 9
UL 886 Certified
UL 698 Certified
UL 1203 Certified
CSA C22.2 No 30 Certified

**Conduit seals required within 18" for Group B applications

Replacement Internal Mounting Pan: %PAN%

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
Suggested Operator Series: Extended Length
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 Height: 19.50" (495.30mm) Center to Center
Mounting Dimensions Width: 27.50" (698.50mm) Center to Center
Shipping Weight: 410 lb
Shipping Dimensions: 48"L x 48"W x 21"H
All grounding shall comply with state and local codes and meet the minimum requirements of the National Electronic Code section 250

Special Orders - Special Requirements
Contact us for special requirements
Toll Free: 1-800-369-6671
Intl: 1-903-270-1187
Fax: 1-903-765-7664
E-mail: sales@larsonelectronics.com

The EPL-AEB-24.24.10 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 24" by 24" by 10" in size. This explosion proof enclosure is ideal for indoor or outdoor applications where flammable vapors, gases, or dusts exist or stand the potential to exist.

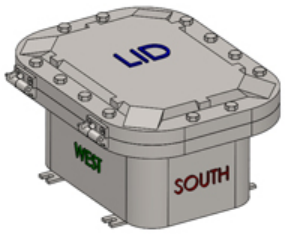
PLEASE NOTE: ANY FREE SHIPPING OFFERS DO NOT APPLY TO EXPLOSION PROOF ENCLOSURES*

The EPL-AEB-24.24.10 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 24" in length by 24" in width by 10" in height. A backplate is available for this unit at an extra cost.

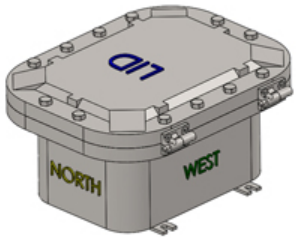
The EPL-AEB-24.24.10 explosion proof enclosure has a maximum input/output conduit size of 6” NPT. The enclosure does not come with conduit hubs. Customized conduit taps can be factory drilled using Larson Electronics CNC machines at an additional cost. The lid of the enclosure allows for a maximum of 81 Extended operator devices (switches, push buttons, indicator lights, etc) in a configuration of 9 rows of 9. Customized boxes with selected operators can be factory installed at customer's request.

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.

Click Photos to Enlarge

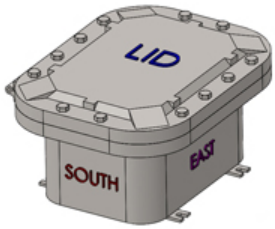


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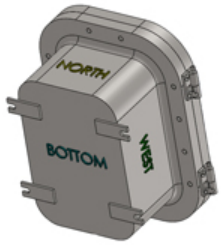


Click To Enlarge

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.



Click To Enlarge



Click To Enlarge

Construction: Each unit in the EPL-AEB series is certified to NEC standards for United States and CEC Canada. We offer an ATEX/IEC Ex model for global applications (ATEX-EPL-AEB 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 (Bristish 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-AEB 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.

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Frequently Asked Questions (FAQ)

There are no Faqs

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Export Control Classification Number (ECCN): EAR99

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- **ATEX Certificate (European Explosion Proof)**(https://www.larsonelectronics.com/images/product/ATEXCert/152725.PDF)
- **Canadian CEC Certificate (Commonly referred to as CSA Certificate)**(https://www.larsonelectronics.com/images/product/CECCert/152725.PDF)
- **Catalog Page - Product Series**(https://www.larsonelectronics.com/images/product/CatalogPage/152725.PDF)
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- **Certificate 3, Misc**(https://www.larsonelectronics.com/images/product/Cert3/152725.PDF)
- **Dimensional Drawing 2D**(https://www.larsonelectronics.com/images/product/DimensionalDrawing/152725.PDF)
- **IEC Ex Certificate (International Explosion Proof)**(https://www.larsonelectronics.com/images/product/IECExCert/152725.PDF)
- **MSDS (Material Safety Data Sheet**(https://www.larsonelectronics.com/images/product/Msds/152725.PDF)
- **Operations Manual**(https://www.larsonelectronics.com/images/product/Manual/152725.PDF)
- **RoHS Certificate (Restriction of Hazardous Substances)**(https://www.larsonelectronics.com/images/product/RoHSCert/152725.PDF)
- **USA NEC Certificate (Commonly referred to as UL Certificate)**(https://www.larsonelectronics.com/images/product/NECCert/152725.PDF)
- **HigResPic1**(https://www.larsonelectronics.com/images/product/HigResPic1/152725.JPG)
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