

Custom Explosion-proof Cast Aluminum Distribution Boxes for the UAE

Article Overview

Explosion-proof cast aluminum distribution boxes are available in the UAE with ATEX and IECEx certifications, suitable for hazardous industrial environments.

Overview

Explosion-proof distribution boxes, also known as Exd junction boxes, are designed to contain potential explosions caused by electrical faults and are essential in areas with flammable gases or combustible dust. Cast aluminum enclosures are favored for their lightweight, corrosion resistance, and ease of installation, making them suitable for chemical, petrochemical, oil and gas, pharmaceutical, and offshore industries in the UAE .

Key Features

- o Certifications: ATEX, IECEx, UL standards ensure compliance with international safety regulations .
- o Hazardous Area Ratings: Suitable for Zone 1/2 (gases) and Zone 21/22 (dusts), Group II, Category 2G/2D .
- o Material: Marine-grade, copper-free cast aluminum alloy for body and cover; stainless steel screws; internal mounting plates in galvanized steel or aluminum .
- o Ingress Protection: Standard IP65/IP66, with optional IP68 for water-resistant applications .
- o Mechanical Design: Hinges cast on the enclosure body, fixing lugs, and optional anti-condensation coatings or breather valves for active components .
- o Accessories: Cable glands, terminals, earth links, and internal component integration available for customized solutions .

Applications

- o Industrial Plants: Chemical, petrochemical, and pharmaceutical facilities .
- o Oil & Gas: Onshore and offshore platforms, refineries, and extraction sites .
- o Shipbuilding: Marine and offshore ship industries .
- o Hazardous Areas: Zones with explosive gases (IIC) or combustible dusts (IIIC), .

Suppliers in the UAE

- o Sensor Control LLC - Offers ATEX-certified Exd junction boxes in die-cast aluminum, stainless steel, and carbon steel, compliant with IECEx 60079-1 .
- o Team Switchgear / BARTEC EJB Series - Provides Zone 1 rated aluminum alloy enclosures with in-house design, assembly, and remote testing .
- o Prolux International - Local assembler and stockist of ExD die-cast aluminum enclosures, offering

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customization, IP68 options, and rapid delivery across the UAE and Middle East .

o Supermec - Supplies EJB A, S, and CSD series Exd enclosures for chemical and petrochemical plants, offshore platforms, and refineries .

Considerations for Selection

o Hazard Classification: Ensure the enclosure matches the zone and gas/dust group of the installation site.

o Material Choice: Aluminum for lightweight and cost-effective solutions; stainless steel for high corrosion resistance.

o Ingress Protection: Choose IP rating based on environmental exposure (water, dust, or marine conditions).

o Customization: Evaluate the need for internal mounting, cable glands, and anti-condensation features.

o Certification Compliance: Verify ATEX, IECEx, and UL certifications for safety and regulatory compliance. These explosion-proof cast aluminum distribution boxes provide reliable, certified, and durable solutions for power distribution and control in hazardous environments across the UAE.

Are you looking for ATEX / IECEx certified explosion proof junction box to install in the potential Hazardous environment in your

ATEX & IECEx certified explosion proof junction boxes in GRP, aluminium & stainless steel for Zone 1 & Zone 2 UAE. Custom

Finally, during the installation process, an electrical junction box is prepared in which conduits are terminated at the sides, while

Ex-Proof DB Zone 1 & Zone 21 certified Distribution Board (DB) ATEX and IECEx certified We have

We have effectively designed, integrated, and delivered an Ex d certified Distribution Board (DB)

At BASF's Ludwigshafen facility, strict adherence to this protocol helped identify a developing problem with cast

We can provide boxes customized to your needs including drilling, milling, threading, printing and adding

Ex-Proof & Flameproof Junction Boxes & Enclosures Supermec ATEX Junction Box & Enclosures are designed to satisfy most of our

Sensor Control LLC is the premier supplier of explosion proof electrical box in the UAE, Saudi Arabia,

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Supermec ATEX-approved Junction Box & Explosion Proof, Flameproof Enclosures are designed to satisfy your requirements.

We can design and provide the complete solutions for control panels, distribution boxes to use in hazardous and explosive

Distribution Boxes and Empty Enclosures Showing 1-12 of 13 results

For electrical junction boxes in the UAE, check with junction box suppliers for high-quality options. Ensure compliance with local

We offer customized certified solutions and Products inline with ATEX/IECEX/UL/FM/CE standards. To

This Weimiao project features a fully integrated explosion-proof enclosure designed for deployment in Zone

The explosion-proof distribution box safely delivers power in hazardous zones (oil, gas, chemical plants)

Web: <https://www.morwarreconst.co.za>

