

IIC-level explosion-proof distribution box



Article Overview

Class IIC explosion-proof distribution boxes are designed for the most hazardous gas environments, providing flameproof protection (Ex d) and compliance with IECEx and ATEX standards.

Overview

Class IIC distribution boxes are intended for environments containing highly explosive gases such as hydrogen, acetylene, and other Group IIC gases. The IIC classification exceeds IIB, indicating suitability for the most volatile atmospheres, and typically features a T4 temperature rating, limiting the maximum surface temperature to 135°C to prevent ignition. These boxes are commonly used in petroleum, chemical, pharmaceutical, and defense industries to safely distribute and control electrical power.

Construction and Materials

- **Enclosure Materials:** Options include copper-free aluminum, 304/316 stainless steel, 316L stainless steel, and Q235 steel, providing corrosion resistance and mechanical strength.
- **Flameproof Design (Ex d):** The enclosures are engineered to contain any internal sparks or arcs, preventing them from igniting the external explosive atmosphere.
- **Additional Safety Features:** Some models combine flameproof (Ex d) and increased safety (Ex e) chambers, anti-static coatings, anti-loosening fasteners, and color-coded operating panels for safe operation.
- **Hinged Access:** Specialized hinge structures prevent damage to flameproof joints during opening and closing, extending service life.

Article Content

Exd Panel or DB | Industrial Electrical Solutions | IEP Malaysia

Switch-racks or explosion proof distribution board are mechanically assembled on robust frame with various fixing solutions (ground,

Ex Enclosure Systems

For electrical distribution in potentially explosive atmospheres, ROSE Ex enclosures made of aluminum, polyester and stainless

Explosion proof Power Distribution Panel Box

Power Distribution panel box - Hazardous locations for explosive gas mixtures: Zone 1 and Zone 2. Explosive gas mixtures: Class

Distribution Boxes HRMD96 Series Explosion-proof Distribution Panels

·Equipped with specialized hinge structure, which can prevent the flameproof joints from damage when opening and closing the box,

Hazardous Area Enclosures, Ex-rated | Abtech

Hazardous Area Enclosures We have a wide range of enclosures to suit all types of hazardous locations on the planet. Available in

Explosion Proof Box & Cabinet

Explosion Proof Control Box Applicable Environment: Hazardous locations for explosive gas mixtures: Zone 1 and Zone 2. Explosive

ATEX IIC T6 Explosion Proof Stations

About this Document Document Scope This document describes the operation, installation and maintenance procedures for the

BXM (D)81 Explosion proof Distribution Boxes Lighting or Power

BXM (D)81 Explosion proof Distribution Boxes Lighting or Power Explosion protection to -CENELEC -IEC -NEC Can be used in Zone

Explosion Protected Control Boxes |Innovations | R. STAHL

The 8150 series sits perfectly alongside R. STAHL's portfolio of other explosion proof and hazardous areas equipment, including

ATEX & IECEx Certified Enclosures

These explosion-proof enclosures are key to increasing safety in high-risk environments. IECEx and ATEX describe general

Explosion Proof Power Distribution Boxes CE92

Flameproof and explosion proof, these power overhaul distribution boxes are suitable for use in hazardous areas. Specs: Ex mark:

Hazardous Location Enclosures | nVent HOFFMAN

Rely on nVent HOFFMAN to protect your electrical controls in Division 1 or Zone 1 areas with flameproof and explosion proof

HRMD92 Explosion proof Distribution Box (Ex d IIB+H2)

Warom Explosion proof Distribution Box (Ex d IIB+H2) in 316 stainless steel. Available with a wide range of built in components.

Control and Distribution Panels | Ex d | EJB Series

The enclosure series EJB forms the optimal basis for the application-specific configuration of terminal boxes, control stations as well

Overview of Explosion Protection Techniques

IIB+H2 : T5 : Gb : DEK : 13 : 0075 : Explosion protected. Flameproof "d" with level of protection "b". Increased safe "e" with level of

Hazardous Location Electrical Boxes | McMaster-Carr

Choose from our selection of hazardous location electrical boxes, including outlet boxes and covers, weatherproof outlet boxes and

BXM (D)53 Explosion proof Distribution Boxes Lighting/Power (Ex d e IIC ...

Warom BXM(D)53 Explosion proof Distribution Boxes for Lighting or Power Distribution. Modular construction with optional components.

Contact Us

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