

Article Overview

An IIB standard explosion-proof distribution box is a flameproof enclosure designed for safe power and signal distribution in hazardous areas with explosive gases, certified for Ex d IIB+H2 environments.

Key Features

Certification and Standards: IIB explosion-proof distribution boxes are certified for Ex d IIB+H2, meaning they are suitable for environments with flammable gases of group IIB and hydrogen, providing flameproof protection to prevent ignition of surrounding atmospheres. They comply with international standards such as ATEX, IECEx, and UL, ensuring safe operation in Zone 1 and Zone 2 hazardous areas.

Materials and Construction: These boxes are typically made from 316 stainless steel or copper-free aluminum alloy with powder-coated surfaces, offering high corrosion resistance, mechanical strength, and durability in harsh industrial environments. Specialized hinge structures protect flameproof joints during opening and closing, extending service life.

Design and Installation: IIB distribution boxes can be modularly combined to save space and meet various system requirements. They support multiple mounting options and can be customized according to user specifications, including the number and size of cable entries, side openings, and internal components. Rainproof canopies and other environmental protections are available on request.

Electrical Components: These boxes can house a wide range of components such as MCBs, MCCBs, AC contactors, thermal relays, PLCs, surge protectors, soft starters, frequency converters, meters, and control switches. They are suitable for controlling motor start/stop, corotation, inversion, and providing comprehensive motor protection.

Applications: IIB explosion-proof distribution boxes are widely used in oil and gas installations, chemical plants, offshore and marine environments, and other hazardous industrial areas. They ensure safe distribution of power and signals while preventing ignition of explosive atmospheres.

Customization: Users can request special configurations, including multi-site control, integrated monitoring devices, and specific enclosure dimensions, to meet operational and safety requirements. In summary, an IIB standard explosion-proof distribution box is a robust, certified solution for safe electrical distribution in hazardous areas, offering flexibility, durability, and compatibility with a wide range of industrial control and protection devices.

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

Crouse-Hinds series EJBA enclosures provide IEC Ex d flameproof protection in Zones 1, 2, 21 and 22 hazardous areas.

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Equipped with a specialised hinge structure which can prevent damage to the flameproof joints when

ISpacing dimensions for Group B boxes are based on use of EYS11-EYS101 sealing fitting in conduit.
Conduit seals are required in

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Where indicated in the catalog listings, EDS units suitable for Class I, Division 1, Group B usage can be
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