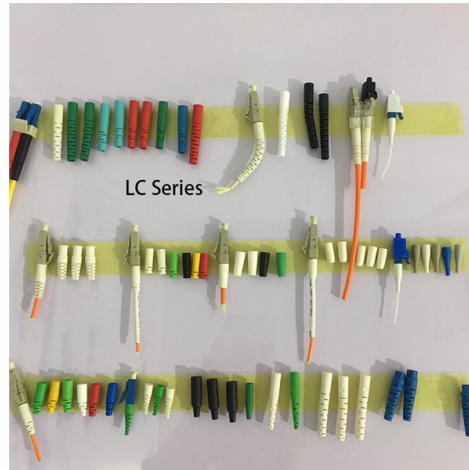


Small Class III Explosion-Proof Socket Distribution Box



Overview

Boxes Conduit Outlet Box with Multiple Hubs, Explosion-Proof, Dust-Ignitionproof, Malleable Iron, Unilet, GRSS Box with Cover. Includes: HRMD92 Explosion p.

Key Takeaways

A Small Class III Explosion-Proof Socket Distribution Box is a compact, certified enclosure designed to safely distribute electrical power in hazardous environments, protecting against sparks and explosions. Key Features



Explosion-Proof Certification: These boxes are designed for use in hazardous areas and comply with international standards such as ATEX, IECEx, and UL, ensuring safe operation in zones with flammable gases, vapors, or dust . Class III typically refers to areas with combustible fibers or flyings, making the box suitable for such environments. **Materials and Construction:** Commonly made from stainless steel (AISI 304L or 316L), aluminum alloy, or glass-reinforced polyester (GRP), these enclosures are robust, corrosion-resistant, and capable of withstanding extreme temperatures and harsh outdoor conditions . Specialized hinge structures and flameproof joints enhance durability and service life . **Components and Functionality:** The distribution box can include sockets, terminal blocks, switches, circuit breakers, indicators, and plug-in contacts. Some models allow customizable internal layouts to accommodate multiple control elements, voltmeters, ammeters, and LED indicators . Integrated load disconnect switches provide additional safety during maintenance . **Installation Flexibility:** Small explosion-proof boxes are often modular and can be combined or mounted freely to save space and meet specific distribution requirements. Front installation designs allow components to be mounted directly on the cover panel, optimizing internal space . **Applications:** Ideal for industrial plants, chemical facilities, grain handling, and other hazardous locations, these boxes safely distribute power to equipment while preventing ignition of flammable atmospheres . They are suitable for Zone 1, Zone 2, Zone 21, and Zone 22 hazardous areas, depending on the model and certification . **Customization:** Many manufacturers offer custom-made solutions to meet client-specific requirements, including the number of sockets, type of control devices, and enclosure size .

Summary

A Small Class III Explosion-Proof Socket Distribution Box provides safe, reliable, and flexible power distribution in hazardous environments. Its certified explosion-proof design, durable materials, and customizable internal layout make it suitable for industrial applications where safety and compliance with international standards are critical .

Article Content

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This document is for preliminary research. Verify specifications against current standards, product documentation and project requirements.

