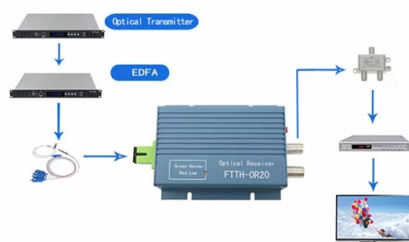


RIVO MULTITRADE OPTICAL SYSTEMS

Three-circuit explosion-proof distribution box



Overview

GR Type Conduit Outlet Box, Explosion-Proof, Dust-Ignitionproof, Malleable Iron, Unilet, GRT Hub Type.

Key Takeaways

A three-circuit explosion-proof distribution box is available in certified models with aluminum or stainless steel enclosures, suitable for hazardous areas and customizable for specific load and control requirements. Key Features



Certifications and Safety Standards: Ensure the distribution box is certified for hazardous environments, such as ATEX, IECEx, or GB3836, which guarantee compliance with explosion-proof standards for gas and dust zones .

Enclosure Material: Common materials include aluminum alloy (lightweight, corrosion-resistant) and stainless steel 304/316L (high durability and chemical resistance). Some models also use glass-reinforced polyester (GRP) for moisture-prone areas .

Circuit Configuration: For a three-circuit setup, the box can include multi-pole MCBs (miniature circuit breakers), ground leakage protection, and optional alarm devices. The circuits can be configured for single-phase or three-phase input, depending on the power supply and load requirements .

Protection Rating: Look for IP54 or higher, which ensures protection against dust and water splashes, suitable for wall-mounted or floor-standing installations .

Customization Options: Many explosion-proof boxes allow custom dimensions, internal component layout, and output specifications. Users can provide electrical schematics to match specific operational needs, including integration with thermostats or control systems for heating or process equipment .

Applications: These boxes are widely used in oil and gas, chemical, pharmaceutical, and food processing industries, particularly in Zone 1, 2, 21, and 22 hazardous areas. They are suitable for lighting circuits, heating circuits, socket distribution, and control circuits .

Maintenance and Serviceability: Modular designs allow easy access for inspection, maintenance, and quick replacement of components, minimizing downtime in critical operations .

Example Product

The BR-3 explosion-proof distribution box is a practical example. It supports 1 to 12 circuits, including three-circuit configurations, with overload, short-circuit, and ground leakage protection. It can be equipped with thermostat-based automatic control for heating systems and is certified for Class I, Zone 1 and 2 hazardous areas .

Selection Tips

- Verify certifications (ATEX, IECEx, GB3836) for your specific hazardous zone.
- Match the number of circuits and load capacity to your equipment.
- Choose durable materials suitable for environmental conditions (corrosion, moisture, temperature).
- Consider customization for internal layout, alarms, and control integration.
- Ensure IP rating meets protection requirements for dust and water exposure. By following these guidelines, a three-circuit explosion-proof distribution box can provide safe, reliable, and compliant power distribution in hazardous industrial environments .

Article Content

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Explosion-Proof Distribution Box Buying Guide 2026: Specs, Variants, and explains key specifications, selection

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

