

RIVO MULTITRADE OPTICAL SYSTEMS

Explosion-proof distribution box with one switch and one leakage



Overview

Explosion Proof Illumination Distribution Boxes (With Flameproof and explosion proof, these power overhaul distribution boxes are suitable for use in hazar.

Key Takeaways

An explosion-proof distribution box with one main switch and one leakage protection device is designed for safe power distribution in hazardous areas, certified to ATEX and IECEx standards. Key Features

- **Main Switch and Leakage Protection:** These boxes typically include a single main switch for power control and a residual current device (RCD) or leakage protection to prevent electric shock and ensure safety in explosive atmospheres .
- **Rated Current:** Depending on the model, main switches can handle currents up to 180A, while branch circuits or leakage devices are rated around 63A .
- **Construction Material:** Enclosures are usually made from robust materials such as stainless steel (AISI 304L or 316L) or GRP (glass-reinforced polyester) to withstand harsh environments and corrosion .
- **Certifications:** Products are certified according to ATEX, IECEx, and sometimes DNV or CSA, ensuring compliance with international explosion-proof standards .



- Applications: Suitable for chemical plants, oil refineries, offshore platforms, oil tankers, and other hazardous areas where flammable gases or dust may be present .
Installation and Customization
 - Mounting Options: Can be floor-mounted, wall-mounted, or hanging, depending on site requirements .
 - Cable Entry: Supports steel pipe or armored cable entry for secure connections in hazardous zones .
 - Customization: Many manufacturers offer configurable options, allowing integration of push buttons, indicator lights, and additional control devices while maintaining explosion-proof integrity .
- Safety Considerations
- Ensure the box is installed in accordance with IEC/EN standards for hazardous areas.
 - Verify that the leakage protection device is rated for the expected load and environmental conditions.
 - Regular inspection and maintenance are recommended to maintain safety and compliance. This type of distribution box provides a reliable and safe solution for controlling electrical power in explosive atmospheres while protecting personnel from electrical hazards.

Article Content

Distribution Boxes BXM51 Series Explosion-proof Illumination ...

1. Please specify the number and size of cable entries and sides of the enclosure to be fitted.
2. Electrical schematic diagram shall be

Contact Us

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

