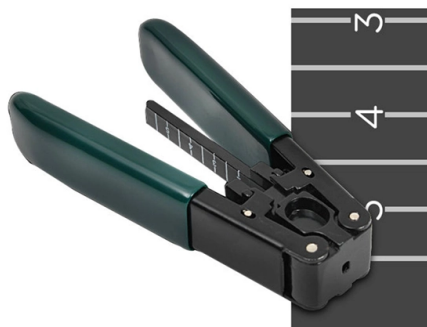


Specifications of Explosion-proof Lighting Distribution Boxes in Cameroon



Overview

Distribution Boxes BXM8050 Series Explosion-proof Illumination. Distribution Boxes BXM8050 Series Explosion-proof Illumination Distribution Boxes (Ex d e).

Key Takeaways

Explosion-proof lighting distribution boxes in Cameroon are designed for hazardous environments, featuring flameproof and increased safety protection, robust construction, modular configurations, and compliance with IECEx and ATEX standards.

- Protection Type: Combines flameproof (Ex d) and increased safety (Ex e) chambers for flexible protection against explosive gases and dust .
- Voltage Ratings: AC up to 690V, 50/60Hz; DC up to 500V .
- Zones of Use: Suitable for Zone 1 and Zone 2 (gas) and Zone 21 and Zone 22 (dust) environments .
- Materials: Typically constructed from high-strength die-cast metal or stainless steel (Baosteel 304 or above) with anti-static coatings; thickness not less than 4.0mm .
- Ingress Protection: Often IP65 or higher, ensuring dust and water resistance .
- Modularity: Supports multi-circuit configurations and customizable layouts for lighting, power, and control circuits .

- Indicators and Switches: Color-coded operating panels for easy identification and prevention of misoperation .

- Electrical Components: Must maintain proper clearance and creepage distances, with fasteners galvanized and wiring neatly arranged with protective casing .

Installation and Usage

- Mounting Options: Surface-mounted, concealed, hanging, or exposed installations depending on site requirements .

- Applications: Commonly used in oil and gas facilities, chemical plants, mining operations, refineries, and grain storage facilities .

- Safety Considerations: Proper wiring, matching switch terminals to wire cross-sections, and bundling with nylon tape are recommended to ensure safe operation .

Certification and Compliance

- International Standards: IECEx, ATEX, CENELEC, and NEC standards for explosion protection .

- Local Certification: SGS Cameroon provides third-party conformity assessments to ensure compliance with ATEX, IECEx, and other international schemes, facilitating legal installation and trade .

- Documentation: Equipment certified under ATEX or IECEx may require limited additional testing for local approvals, ensuring compatibility with zoned hazardous areas .

Model Variants

- Low-voltage switchgear cabinets: GCK, GCS, MNS (withdrawable) and GGD, GDH, PGL (fixed)

- Distribution boxes: XZW (comprehensive), ZBW (substation), XL/GXL (construction site), XF (control), PZ20/PZ30 (terminal lighting), PZ40/XDD (metering)

- Surface-mounted and concealed options: PXT(R)K-X/X-X/X-X-X-IPX series, with customizable rated current, inlet style, outlet circuits, and protection levels . These specifications ensure that explosion-proof lighting distribution boxes in Cameroon provide reliable, safe, and compliant solutions for industrial environments with flammable gases or dust.

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

