

Panama Explosion-proof Distribution Box Specifications and Dimensions



Overview

XD (M)58 Explosion-Proof Distribution Box for Lighting & Power With robust explosion-proof structure and flexible internal configuration, the BXM (D)58 series.

Key Takeaways

Panama Explosion-proof Distribution Boxes are available in HRMD91, HRMD92, and HRMD96 series, featuring flameproof enclosures, stainless steel or aluminum construction, and customizable configurations for hazardous zones. General Specifications

- Flameproof Rating: Ex d IIB+H2 or Ex db IIC T6...T4, suitable for Zone 1, Zone 2, Zone 21, and Zone 22 hazardous areas .
- Enclosure Materials: Options include 316L stainless steel, 304 stainless steel, and copper-free aluminum alloy with powder-coated surfaces .
- Temperature Class: T6 to T4 for gas groups, T80°C to T130°C for dust groups .
- Ingress Protection: Designed to prevent flame propagation and protect internal components from hazardous atmospheres .

Components and Compatibility

- Can house MCCBs, MCBs, AC contactors, thermal relays, PLCs, soft starters, frequency converters, surge protectors, transformers, fuses, meters, and control switches .

- Supports ammeters, voltmeters, light-operated switches, time controllers, optical fiber control boxes, magnet valves, heaters, and LED/HID lighting controllers .

- Customizable internal layout to accommodate client-specific requirements, including remote or local motor control, overload protection, and intelligent monitoring via Modbus or SCS platforms .

Structural Features

- Specialized hinge structure prevents damage to flameproof joints during opening and closing, extending service life .

- Modular design allows combination and free installation to save space and meet various distribution system requirements .

- Cable Entry: Standard Mx1.5 plug; NPT plugs available on request. Cable glands DQM-II (Ex d) or DQM-III (Ex d) recommended .

Dimensions and Installation

- Dimensions vary by series and configuration; HRMD91, HRMD92, and HRMD96 panels can be customized based on the number of components, cover holes, and dissipated power requirements .

- Designed for Zone 1/2 and Zone 21/22 installations, supporting both Class I Division 1 and Division 2 environments .

- Can be equipped for two-site or multi-site control, with options for intelligent monitoring and remote management via PC, cloud, or mobile applications .

Series Highlights

- HRMD91: Copper-free aluminum, powder-coated, supports intelligent monitoring and Modbus connectivity .

- HRMD92: 316 stainless steel, suitable for motor start/stop, corotation, inversion, and remote control .

- HRMD96: 304/316 stainless steel or Q235, supports a wide range of meters, relays, and industrial controllers, with high flameproof ratings (Ex db IIC T6...T4) and dust protection . These distribution boxes are highly versatile, suitable for industrial applications in hazardous environments, and can be tailored to meet specific operational and spatial requirements.

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

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

