

## 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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