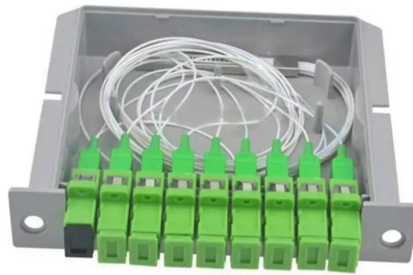


Fixed Vertical Distribution Box



Overview

Distribution Box and Selection Guide: Internal Structure, Components. Learn how to choose a distribution box and understand its internal structure, inclu.

Key Takeaways

A Fixed Vertical Distribution Box is an electrical enclosure designed for organized, vertical power and signal distribution, offering secure mounting, modularity, and protection in industrial or commercial settings.

A Fixed Vertical Distribution Box serves as a centralized point for distributing electrical power, signals, or data in a vertical configuration. It is commonly used in industrial plants, commercial buildings, and smart building automation systems. These boxes allow for decentralized installation, placing electronics close to the load for efficiency and easier maintenance ().

Key Features

- **Vertical Orientation:** Designed to mount vertically, optimizing space and enabling clear, organized wiring ().
- **Fixed Mounting:** Typically wall-mounted or attached to panels using brackets or DIN rail adapters, ensuring stability and safety ().
- **Material and Protection:** Constructed from robust materials such as steel, aluminum, or high-grade plastics, often rated IP44 to IP67 for protection against dust, moisture, and harsh environments ().

- **Modularity:** Supports modular components like distribution blocks, terminal blocks, and socket outlets, allowing flexible configuration and expansion ().
- **Electrical Compatibility:** Can accommodate various nominal cross-sections (e.g., 1.5 mm² to 10 mm²) and multiple terminal points for safe and efficient load distribution ().

Applications

- **Industrial Power Distribution:** Houses vertical socket outlets and distribution blocks for machinery and equipment ().
- **Building Automation:** Integrates signal and data distribution for smart building systems ().
- **Decentralized Energy Systems:** Reduces cable lengths and simplifies installation by placing distribution points near the load ().

Advantages

- **Space Efficiency:** Vertical design minimizes footprint in control rooms or industrial panels.
- **Ease of Installation:** Pre-configured blocks and push-in terminal technology allow quick wiring and maintenance ().
- **Safety and Compliance:** Many boxes comply with IEC standards for electrical safety and explosion protection where required ().
- **Customizable:** Sizes, materials, and terminal configurations can be tailored to project-specific requirements ().

Example Components

- **PTFIX and PTVFIX Distribution Blocks:** Ready-to-connect blocks with push-in technology for fast, maintenance-free installation ().
- **Industrial Socket-Outlets:** Vertical fixed sockets with IP67 or IP66 protection for heavy-duty applications ().
- **Modular Enclosures:** FieldPower® or similar systems for combined power, signal, and data distribution (). A Fixed Vertical Distribution Box is therefore a versatile, reliable solution for organized electrical distribution, combining modularity, safety, and space efficiency for industrial, commercial, and smart building applications.

Article Content

Vertiv™ NetSure™ External Distribution Box (EDB)

The Vertiv™ NetSure™ External Distribution Box (EDB) holds both DC distribution and fiber distribution in a single convenient

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

