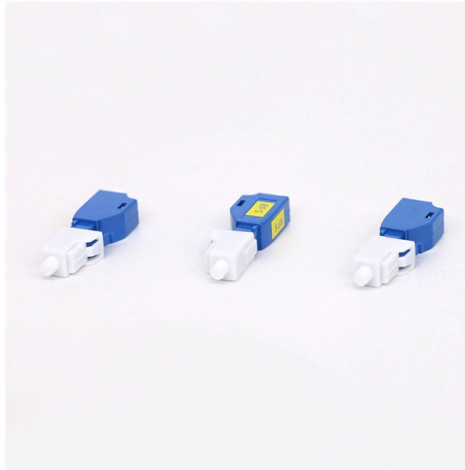


Electrical Distribution Box for Experiments



Article Overview

An electrical distribution box safely distributes power to multiple circuits and can be customized for experimental setups with modular components, circuit protection, and monitoring features.

Overview

A distribution box (DB box) is a central hub for electrical power, designed to distribute electricity from a single input source to multiple circuits while ensuring safety and organization. It is essential for experiments where multiple devices or circuits need controlled power supply, preventing overloads, short circuits, or electrical hazards (GEYA) .

Key Components

- Circuit Breakers (MCBs): Protect individual circuits from overloads and short circuits.
- Residual Current Circuit Breakers (RCCBs): Detect imbalances in current to prevent electric shocks.
- Bus Bars: Conduct electricity within the box and serve as central connection points.
- Neutral and Grounding Links: Ensure proper return paths and safety grounding.
- Enclosure: Made from durable materials like polycarbonate, ASA, or powder-coated steel to protect internal components from dust, moisture, and physical damage.
- Surge Protection Devices: Protect sensitive equipment from voltage spikes....

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