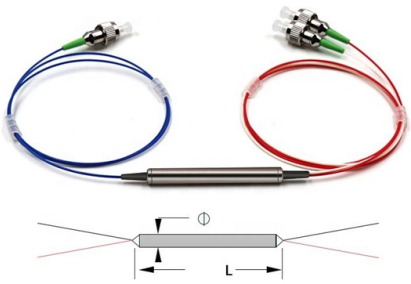
Dimensions and Specifications of 22-Circuit Distribution Box



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 22-circuit distribution box typically features a robust enclosure with IP40 protection, fire-resistant ABS material, and dimensions around 600–800 mm height, 400–500 mm width, and 150–200 mm depth, accommodating standard MCBs and busbars for safe electrical distribution.General Specifications

• Material: Fire-resistant ABS or similar durable plastic for safety and insulation .

• Protection Degree: Usually IP40, suitable for indoor installations .

• Rated Current: Maximum 125A, supporting standard residential and commercial circuits .

• Circuit Capacity: Designed to house 22 MCBs, with neutral and earth bars included for proper grounding .

• Busbar Design: Shrouded busbars to prevent hot spots and ensure safety; allows easy mounting of incoming devices like MCCB, RCD, or direct cable connections .

• Wiring Space: Generous internal space for neat wiring, with clear identification for each circuit to facilitate maintenance and troubleshooting .

Dimensions

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While exact dimensions may vary by manufacturer, typical 22-circuit boxes follow these approximate measurements:

• Height: 600–800 mm

• Width: 400–500 mm

• Depth: 150–200 mm

• Adjustable Installation Depth: Some models allow up to 20 mm adjustment from the wall for easier installation .

• Mounting: Equipped with studs and adjustable nuts for secure and flexible mounting of the pan assembly .

Features

• Ease of Installation: Front cover screws are often hidden behind the door for safety; gland plates can be removed or changed easily .

• Safety: Independent neutral and earth bars, clear circuit labeling, and shrouded terminals reduce risk of electrical hazards .

• Flexibility: Compatible with modular MCBs, MCCBs, RCDs, and other protection devices; allows for factory-fitted or installer-fitted incoming kits .

• Aesthetics and Maintenance: Optimized size and cable management system provide a neat appearance and simplify wiring and maintenance .

Applications

• Residential, commercial, and light industrial installations.

• Suitable for AC 50–60 Hz, below 500V circuits.

• Provides overcurrent, overload, and short-circuit protection for multiple circuits .

These specifications ensure that a 22-circuit distribution box is safe, flexible, and suitable for modern electrical installations, providing both protection and ease of maintenance.

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Distribution board

A distribution board (also known as a panelboard, circuit breaker panel or box, electric panel, fuse box or

High Quality MCB Distribution Box Size / 4/6/8/12/14/16/20/24 Ways

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