Dimensions of CNC Distribution Box



Overview

The 16 Way Distribution Box has a strong steel body made with CNC precision. It protects your electrical circuits and keeps everything organized.

Key Takeaways

CNC distribution boxes come in various sizes, typically ranging from 4 to 45 ways, with adjustable depth and standard dimensions depending on the manufacturer and configuration. Standard Sizes and ConfigurationsCNC distribution boxes are available in multiple configurations to accommodate different numbers of circuit breakers or modules. Common sizes include 4, 6, 8, 12, 14, 16, 20, and 24 ways, with some models supporting up to 45 ways for larger installations ( ).

These boxes are designed for AC 50-60Hz circuits below 500V, suitable for industrial, commercial, and laboratory applications.

Physical Dimensions

Height, Width, and Depth: While exact dimensions vary by manufacturer, many boxes feature adjustable installation depth, typically allowing up to 20mm adjustment from the wall for easier wiring and maintenance ( ). Internal Space: Ultra-large internal space is provided to house wires safely, maintain electrical clearance, and facilitate neat wiring ( ). Port Options: Some distribution boxes, such as Amphenol LTW models, offer 4, 6, or 8 ports with pre-wired M8, M12, or M16 connectors, and standard cable lengths of 1m, 2m, 3m, 4m, 5m, and 10m ( ).

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Material and Protection

Material: Fire-resistant ABS or UL-compliant plastics are commonly used ( ). Protection Rating: IP40 is typical for indoor MCB boxes, while industrial pre-wired boxes can reach IP67, providing dust and water resistance ( ). Mounting: Boxes are designed for wall mounting or panel integration, with adjustable guide tracks to maintain vertical alignment ( ).

Additional Features

Compatibility: Supports single-phase 1P or 2P switches by default; three-phase 3P or 4P switches may require technical consultation ( ). Indicators and Safety: Some models include LED indicators, short-circuit protection, and automatic leakage detection ( ). Customization: Labels, pre-wiring, and cable coding can be customized for specific industrial applications ( ).

In summary, CNC distribution boxes are highly configurable, with dimensions and internal space designed to accommodate a wide range of circuit breakers and connectors. For precise measurements, it is recommended to consult the manufacturer's datasheet or product catalog, as dimensions vary depending on the number of ways, type of connectors, and protection rating ( ).

Article Content

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

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