

Dimensions of a concealed 10-position electrical distribution box

Article Overview

A typical concealed 10-position electrical distribution box measures approximately 10x14 inches (254x356 mm) or 280 mm in width, with sufficient depth for wiring and DIN-rail mounted breakers.

Standard Dimensions and Design Features

- o **Width and Height:** The flush-mount concealed distribution box is commonly 10 inches wide by 14 inches high (254x356 mm), providing ample space for 10 modular positions for MCBs, RCDs, or other protective devices . Some national standard boxes specify a 280 mm wide body to allow sufficient wiring space .
- o **Depth:** Depth varies depending on the model but is designed to accommodate multiple wires and components without overcrowding. Deeper boxes improve internal volume for easier conductor splicing and cover installation .
- o **Material:** Boxes are typically fabricated from powder-coated steel or flame-retardant plastic, offering durability, corrosion resistance, and fire protection .
- o **Mounting:** Designed for flush-mount installation, these boxes fit seamlessly into walls for a clean, tamper-free finish. They include pre-punched knockouts for conduit connections and are compatible with standard DIN rails .
- o **Access:** Front access panels are usually lockable or push-latch, ensuring safety while allowing quick access for maintenance or inspection .
- o **Compliance:** Many concealed distribution boxes comply with IEC 61439-3 or BS EN 60439 standards, ensuring safe and efficient power distribution .

Applications

These boxes are suitable for residential, commercial, and light industrial installations, including homes, offices, shops, solar inverter setups, and low-voltage control systems. They are engineered to house multiple circuit breakers, RCDs, and related components while maintaining a compact, concealed profile .

In summary, a concealed 10-position distribution box typically measures 10x14 inches (254x356 mm) or 280 mm wide, with sufficient depth for wiring, flush-mount installation, and DIN-rail compatibility, making it ideal for safe and organized electrical distribution.

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Distribution boards, together with modular ABB system pro M Compact protection devices and Modular Din Rail Components, can be

Compact Design: 10x14 inch size offers ample space for multiple modules without clutter. Flush-Mount

The size of the distribution box is reserved When the electric box is only a lighting electric

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