

Standard dimensions of a 4-circuit distribution box

Article Overview

A typical 4-circuit distribution box usually measures around 250-300 mm in height, 200-250 mm in width, and 100-150 mm in depth, depending on manufacturer and internal layout.

Typical Dimensions

For a 4-way (4-circuit) wall-mounted distribution box, common external dimensions are approximately:

- o Height: 250-300 mm
- o Width: 200-250 mm
- o Depth: 100-150 mm These dimensions provide enough space for MCBs, RCDs, neutral and earth bars, and wiring clearance while allowing for future expansion or spare ways . The exact size may vary slightly between brands, so it is important to check the manufacturer's catalog for the specific model.

Internal Layout Considerations

- o DIN Rail Space: A 4-circuit box typically has a single DIN rail to mount the breakers.
- o Cable Entry: Adequate space for incoming and outgoing cables, including bend radius, is essential.
- o Protection Devices: Space for MCBs, RCDs, or RCBOs, plus optional surge protection devices.
- o Future Expansion: Many boxes include 1-2 spare ways for additional circuits .

Materials and Protection

- o Enclosure Material: Commonly made from polycarbonate (PC), ABS, ASA, or powder-coated steel for durability and insulation .
- o IP Rating: Typically IP30-IP55 for indoor use, ensuring protection against dust and accidental contact.

Practical Tip

When selecting a 4-circuit distribution box, consider both the external dimensions and the usable internal space, as internal components, wall thickness, and mounting hardware reduce the effective area for wiring and devices . Always allow extra space for neat wiring and future upgrades.

This document provides specifications for various types of plastic distribution boxes, including their



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