

Detailed Explanation of Distribution Box Switches



Article Overview

Switches in a distribution box control and protect individual circuits, with the main switch managing overall power and other breakers safeguarding specific areas or devices.

Key Components and Their Functions

Main Switch (Main Breaker): This large switch controls the entire electrical supply to the distribution box. It allows you to disconnect all power during maintenance or emergencies and is rated for the maximum current capacity of the system .

Circuit Breakers: These are automatic switches that protect individual circuits from overcurrent or short circuits. When a circuit experiences too much current, the breaker trips, cutting off power to prevent damage or fire. After resolving the issue, the breaker can be reset by flipping it back to the “on” position .

Dual Power or Automatic Transfer Switch (ATS): Some distribution boxes include a dual power switch that automatically switches to a backup power source if the main supply fails. Understanding its working principle ensures uninterrupted power for critical loads .

Busbars: Metal strips that distribute electricity from the main switch to individual breakers. They provide connection points for neutral and earth wires, ensuring proper grounding and circuit completion .

Indicators: LED lights or other indicators show the status of circuits, helping you quickly identify active circuits or faults .

How to Read and Interpret Switches

- **Check Labels:** Each breaker should be labeled with its corresponding area or device...

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