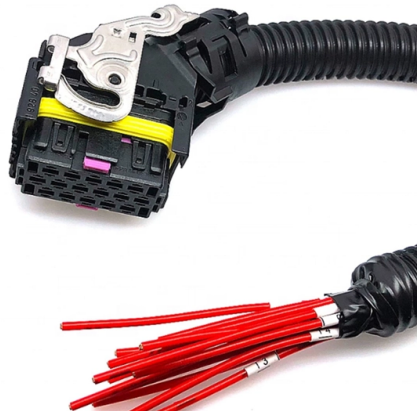


Selection of Complete Switches for Distribution Boxes



Summary of Content

Choosing the right switches for distribution boxes requires matching switch type, load rating, enclosure compatibility, and compliance with safety standards.

Key Considerations for Switch Selection

1. Switch Type and Functionality Select switches based on the intended application:

- Manual Toggle or Rocker Switches: Standard on/off control for lighting or simple circuits, offering durability and ease of use .
- Dimmer Switches: Allow adjustable lighting levels; ensure the box has sufficient depth to dissipate heat and that bulbs are compatible .
- Three-Way and Four-Way Switches: Enable control of a single circuit from multiple locations; require additional traveler wires and careful planning .
- Smart Switches: Wi-Fi or hub-connected devices for remote control; require neutral wires and deeper boxes for internal electronics .

2. Load Rating and Electrical Compatibility

- Ensure switches are rated for the circuit load, typically 15A/120V for standard residential circuits .

- For industrial or high-power applications, verify compatibility with three-phase systems and higher current ratings .

3. Distribution Box Compatibility

- Plastic (Non-Metallic) Boxes: Lightweight, corrosion-resistant, suitable for dry indoor locations; less ideal for high-load or smart switches .

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