How to connect upper and lower switches to a distribution box



Overview

How to Wire a Home Distribution Box In this video, we'll walk you through the process of wiring a home distribution box with a detailed connection diagram.

Key Takeaways

To connect upper and lower switches to a distribution box, wire the main supply to the main MCB, then connect branch switches (MCBs) in sequence, ensuring proper phase, neutral, and earth connections.Step-by-Step Connection Process

1. Safety First Always turn off the main power supply before starting any wiring to prevent electrical shock . Use insulated tools and wear protective gear. 2. Identify Components

• Main MCB (Double Pole): Receives the incoming phase and neutral.

• Branch MCBs (Single or Double Pole): Control individual circuits or loads.

• RCCB: Provides earth leakage protection.

• Neutral and Earth Links: Distribute neutral and earth connections to all circuits . 3. Connect the Main Supply

• Connect the incoming phase wire to the input terminal of the main MCB.

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• Connect the neutral wire to the neutral link or input of the main MCB if using a DP MCB .

• Connect the earth wire to the earth link. 4. Wiring Upper and Lower Switches (Branch MCBs)

• Upper switches: Typically connect to circuits requiring higher priority or heavier loads.

• Lower switches: Connect to secondary or lighter loads.

• Connect the phase output from the main MCB or RCCB to the input of each branch MCB.

• For single-pole MCBs, only the phase wire is connected; the neutral goes to the neutral link.

• For double-pole MCBs, connect both phase and neutral from the RCCB output to the MCB input . 5. Connect Load Wires

• Connect the phase terminal of each load to the output of its respective MCB.

• Connect the neutral terminal to the neutral link (or output of DP MCB if used).

• Connect the earth wire to the earth link . 6. Organize and Secure Wiring

• Route wires neatly: left side for incoming/main connections, right side for outgoing/load connections.

• Use plastic ties to bind wires uniformly, avoiding kinks or overlaps .

• Clearly mark each circuit for easy identification. 7. Testing and Safety Check

• After wiring, use a multimeter to verify continuity and correct voltage.

• Ensure no short circuits or loose connections exist.

• Switch on the main MCB and test each branch MCB individually . By following these steps, the upper and lower switches will be safely and efficiently connected to the distribution box, ensuring proper distribution of electricity to all circuits while maintaining safety and compliance with standard wiring practices.

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Electrical wiring and busbar arrangement of distribution box

The distribution box is composed of independent single box connected by bolts, and the bottom of the box is composed of 3mm

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Look at this distribution box. There are 10 branches behind the main switch, and 10 wires are led out from the bottom

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Through the MCB phase lines are distributed to electrical wiring for lighting, fixed devices, and power distribution

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A distribution board DB is where the electrical supply is distributed from within the

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