

Fixing the crossbeam of the distribution box



Overview

The utility model provides an adjusting frame for the mounting of a crossbeam and a distribution box for electric switches.

Key Takeaways

To fix a crossbeam in a distribution box, use an adjustable mounting frame or linkage system to secure, align, and support electrical components safely and efficiently. Step 1: Prepare the Distribution Box

Ensure the distribution box is properly positioned in a dry, accessible area with adequate ventilation. Verify that the box is level and securely mounted to the wall or floor, depending on its design, and check that the enclosure meets the required IP/NEMA rating for protection against dust and moisture .

Step 2: Select the Crossbeam Mounting Method

There are two common approaches:

- **Adjustable Frame Method:** Use a fixing frame and an adjusting plate. The fixing frame, composed of a base plate and support plate, is mounted inside the distribution box. The adjusting plate, which includes a vertical riser and upper/lower horizontal plates, slides through a guide frame in the fixing frame. A screw and nut assembly secures the crossbeam in place, allowing fine adjustment for alignment with the switch panel .

- Linkage System Method: For block terminal crossbeams, a vertical mounting structure with fasteners can be used. The crossbeam is connected via card slots or joint grooves, eliminating the need for bolts in some designs. This method is particularly useful for small or non-standard boxes where manual assembly is difficult.

Step 3: Install the Crossbeam

- Position the crossbeam at the desired height within the box.
- Align the crossbeam with the mounting holes or guide slots.
- Insert screws or fasteners through the crossbeam and into the fixing frame or vertical mounting structure.
- Tighten nuts or fasteners to secure the crossbeam, ensuring it is level and stable.
- If using an adjustable frame, slide the adjusting plate forward or backward to align the switch panel openings with the crossbeam.

Step 4: Mount Electrical Components

Once the crossbeam is fixed:

- Attach electrical switches, terminals, or other components to the crossbeam using the designated mounting holes.
- Ensure that all components are properly seated and that the switch panel covers the wiring for safety and aesthetics.

Step 5: Final Checks

- Verify that the crossbeam is stable and does not wobble.
- Check that all screws and fasteners are tightened.
- Confirm that the electrical components are aligned with the panel openings and that there is no interference with wiring or other accessories.
- Perform a visual inspection and, if possible, a multimeter test to ensure proper electrical connections before powering the system. By following these steps, the crossbeam will be securely fixed, properly aligned, and ready to support the distribution box's electrical components safely and efficiently.

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