

Types of Distribution Box Switches



Overview

A commonly used distribution box contains doorbells, earth leakage devices, timers, or contact breakers.

Key Takeaways

Distribution box switches come in various types, including main distribution boards, sub-distribution boards, meter panels, panel fuse banks, unitized panels, transfer switches, consumer units, and enclosed switchgear, each designed for specific applications and power loads.

Main Types of Distribution Boxes

- **Main Distribution Board (MDB)** The MDB is the central hub of an electrical system, receiving power from the utility and distributing it to various circuits. It typically houses the main circuit breaker, bus bars, and MCCBs, providing overload and short-circuit protection for the entire building or facility .
- **Sub Distribution Board (SDB)** SDBs are secondary panels that receive power from the MDB and distribute it to specific areas, such as residential units, garages, or industrial sections. They allow localized control and protection of circuits .
- **Meter Panel** Meter panels are used to monitor electricity consumption. They include primary switches, fuses, and circuits to measure and control the power usage in homes, offices, or factories .
- **Panel Fuse Bank** These panels contain multiple fuses to protect individual circuits. They are often used in industrial or commercial settings where multiple circuits require independent protection .

- **Unitized Panel** Unitized panels integrate multiple components, such as breakers and switches, into a single compact enclosure for efficient power distribution and space-saving installation .
 - **Transfer Switch** Transfer switches are critical for facilities requiring backup power. They switch the load between the main supply and an alternative source, such as a generator, ensuring uninterrupted power .
 - **Consumer Unit** Common in residential settings, consumer units house circuit breakers and residual current devices (RCDs) to protect individual circuits and users from electrical faults .
 - **Enclosed Switchgear** Enclosed switchgear is used in commercial and industrial applications, often for medium-voltage distribution. These units are fully sealed, maintenance-free, and protect against dust, moisture, and corrosion .
- Additional Classifications**
- **By Voltage Level:**
 - **Low-Voltage Distribution Boards** (typically 400V/690V) for homes and offices
 - **Medium-Voltage Enclosures or Ring Main Units (RMUs)** for industrial or utility networks
 - **By Installation Type:**
 - **Surface-Mounted:** Installed on walls, suitable for industrial or outdoor environments
 - **Flush-Mounted:** Embedded in walls for a cleaner indoor appearance
 - **Smart Distribution Boxes:** Equipped with energy monitoring, communication modules, and remote control capabilities for advanced energy management .
- Choosing the right type depends on power load, installation environment, and required features, ensuring safety, efficiency, and compliance with electrical standards.

Article Content

The Ultimate Guide to Distribution Box Types

Discover the key types of distribution boxes with NUOMAK's comprehensive guide. Learn about Main

Distribution Boxes Types – The Complete Guide

A commonly used distribution box contains doorbells, earth leakage devices, timers, or contact breakers. However, the

Distribution Box Guide: Types, Components & Solutions

With devices like DB circuit breakers, variable frequency drives (VFD), and automatic transfer switches (ATS), these

12 types of distribution boxes and how to choose them

In this guide, we'll break down the 12 main types of distribution boxes in a way that's easy to understand. We'll chat

10 Distribution Board Types Explained [August 2026]

There are many types of distribution boards, each made for different uses. Some are great

12 Types of Electrical Boxes and How to Choose

Learn about the many common types of wall and ceiling electrical boxes for switches, outlets, light fixtures, ceiling

Distribution Box and Selection Guide: Internal Structure, Components ...

Below is a simplified internal structure diagram for a typical single-phase AC distribution box using an incoming main

Ultimate Guide To Distribution Boxes Db Boxes Types

This ultimate guide explains what a distribution box does, its internal components, common types, real

Complete Guide For Distribution Boxes Types

The correct choice and installation of distribution boxes are crucial for electrical safety, efficiency, and reliability. This guide provides

Types of Distribution Boxes: Applications and Selection Guide

Compare distribution box types, their applications, and selection tips. Find the best fit for your project with this

12 types of distribution boxes and how to choose them

To kick things off, a distribution box isn't some mysterious gadget. It's a protective enclosure that houses circuit

Distribution Box and Selection Guide: Internal Structure, Components ...

Learn how to choose a distribution box and understand its internal structure, including MCBs, busbars, neutral bars,

What is an Electrical Distribution Box? A

Why Distribution Boxes are Essential 2. Components Inside an Electrical Distribution Box

Explore Power Distribution Box Types and Functions

To put it bluntly, the distribution box is the control and distribution center of electricity. Distribution boxes vary in shape

What is a DB Box? Types, Wiring, Selection Guide

Learn everything about DB box (distribution box): what they are, how they work, wiring diagrams, types, and how to

Electrical Distribution Box: Complete Panel Types

Learn what an electrical distribution box is in simple terms. Complete guide to panel types,

Understanding Distribution Boxes: Your Guide to Power

What are Distribution Boxes and Their Importance? 1.1 What is the function of a

Types of Electrical Distribution Boards Explained

Types of Electrical Distribution Boards Electrical distribution boards can be classified into

myusawire

We would like to show you a description here but the site won't allow us.

Amazon : Modular Mcb Box

Amazon : modular mcb box CONA Modular Mini MCB 10A SP -C Type|10A SP MCB Switch|10 Ampere Single Pole | With Attached

AscentOptics

We would like to show you a description here but the site won't allow us.

What Is a Distribution Box?

A distribution box is a device that, as the name suggests, is designed to distribute electrical power. It takes the

What is the Internal Structure of The Distribution Box

Learn about the internal structure of a distribution box, its components, functions, and key types. Understand its role

Different Types of Network Switches

There are several types of network switches and understanding the differences can help you make the right choices for your small

Different Types of Electrical Boxes: A Comprehensive Guide

Electrical boxes serve as protective enclosures for wire connections, switches, and outlets. In this guide, we will explore different

Explore Distribution Boxes for Every Setting with Different Types ...

The price of a distribution box can vary significantly depending on several factors:
Type: As mentioned earlier there are

Distribution Boards

Distribution boards, often referred to as electrical panels or breaker boxes, serve as the nerve center of any electrical system. Here

Electrical Control Panels & Distribution Boxes: Sizes, Types, and ...

Introduction Electrical control panels and distribution boxes are the backbone of modern electrical systems. From

Switchboard fundamentals | Switch board | Eaton

Switchboards can be expanded beyond their basic circuit distribution and protection functions to include various other equipment as

12 Types of Electrical Boxes and How to Choose

Learn about the many common types of wall and ceiling electrical boxes for switches, outlets, light fixtures, ceiling

12 types of distribution boxes and how to choose them

To kick things off, a distribution box isn't some mysterious gadget. It's a protective enclosure that houses circuit

Distribution Box and Selection Guide: Internal Structure, Components ...

Learn how to choose a distribution box and understand its internal structure, including MCBs, busbars, neutral bars,

What is an Electrical Distribution Box? A

Why Distribution Boxes are Essential 2. Components Inside an Electrical Distribution Box

Explore Power Distribution Box Types and Functions

To put it bluntly, the distribution box is the control and distribution center of electricity. Distribution boxes vary in shape

What is a DB Box? Types, Wiring, Selection Guide

Learn everything about DB box (distribution box): what they are, how they work, wiring diagrams, types, and how to

Electrical Distribution Box: Complete Panel Types

Learn what an electrical distribution box is in simple terms. Complete guide to panel types,

Distribution board

A distribution board (also known as a panelboard, circuit breaker panel or box, electric panel, fuse box or

Types of Distribution Boxes: Applications and Selection Guide

Compare distribution box types, their applications, and selection tips. Find the best fit for your project with this

What are the classifications of distribution boxes?

The distribution box is classified according to the structural features and purposes:
(1) Fixed panel type switch cabinet, often called

Understanding Distribution Boxes: Your Guide to Power

What are Distribution Boxes and Their Importance? 1.1 What is the function of a

Types of Electrical Distribution Boards Explained | Schneider

Types of Electrical Distribution Boards Electrical distribution boards can be classified into multiple types depending on

myusawire

We would like to show you a description here but the site won't allow us.

Amazon : Modular Mcb Box

Amazon : modular mcb box CONA Modular Mini MCB 10A SP -C Type|10A SP MCB Switch|10 Ampere Single Pole | With Attached

The Ultimate Guide to Distribution Box Types

Discover the key types of distribution boxes with NUOMAK's comprehensive guide. Learn about Main

Distribution Boxes Types – The Complete Guide

A commonly used distribution box contains doorbells, earth leakage devices, timers, or contact breakers. However, the

Distribution Box Guide: Types, Components & Solutions

With devices like DB circuit breakers, variable frequency drives (VFD), and automatic transfer switches (ATS), these

12 types of distribution boxes and how to choose them

In this guide, we'll break down the 12 main types of distribution boxes in a way that's easy to understand. We'll chat

10 Distribution Board Types Explained [August 2026]

There are many types of distribution boards, each made for different uses. Some are great

12 Types of Electrical Boxes and How to Choose

Learn about the many common types of wall and ceiling electrical boxes for switches, outlets, light fixtures, ceiling

Distribution Box and Selection Guide: Internal Structure, Components ...

Below is a simplified internal structure diagram for a typical single-phase AC distribution box using an incoming main

Ultimate Guide To Distribution Boxes Db Boxes Types

This ultimate guide explains what a distribution box does, its internal components, common types, real

Complete Guide For Distribution Boxes Types

The correct choice and installation of distribution boxes are crucial for electrical safety, efficiency, and reliability. This guide provides

Types of Distribution Boxes: Applications and Selection Guide

Compare distribution box types, their applications, and selection tips. Find the best fit for your project with this

The Ultimate Guide to Distribution Box Types

Discover the key types of distribution boxes with NUOMAK's comprehensive guide. Learn about Main

Distribution Boxes Types – The Complete Guide

A commonly used distribution box contains doorbells, earth leakage devices, timers, or contact breakers. However, the

Distribution Box Guide: Types, Components & Solutions

With devices like DB circuit breakers, variable frequency drives (VFD), and automatic transfer switches (ATS), these

12 types of distribution boxes and how to choose them

In this guide, we'll break down the 12 main types of distribution boxes in a way that's easy to understand. We'll chat

10 Distribution Board Types Explained [August 2026]

There are many types of distribution boards, each made for different uses. Some are great

12 Types of Electrical Boxes and How to Choose

Learn about the many common types of wall and ceiling electrical boxes for switches, outlets, light fixtures, ceiling

Distribution Box and Selection Guide: Internal Structure, Components ...

Below is a simplified internal structure diagram for a typical single-phase AC distribution box using an incoming main

Ultimate Guide To Distribution Boxes Db Boxes Types

This ultimate guide explains what a distribution box does, its internal components, common types, real

Contact Us

Continue your research online:

Website: <https://rivomultitrade.co.za>

Technical inquiry: <https://rivomultitrade.co.za/contact.html>

This document is for preliminary research. Verify specifications against current standards, product documentation and project requirements.

