Electrical distribution box with track socket



Overview

Distribution boxes | Ahlsell – We make it easier to be pr. Here you will find wall sockets, cable ladders, and accessories for easy installations. We also.

Key Takeaways

Electrical boxes, distribution boxes, and track sockets are essential components for safely managing and distributing electrical power in homes, offices, and industrial settings.

Electrical Box

An electrical box is a protective enclosure that houses electrical connections, switches, or outlets. It provides a safe environment to prevent accidental contact with live wires and supports proper wiring organization. Electrical boxes can be flush-mounted or surface-mounted, and are available in various materials such as plastic or metal, with different protection ratings for indoor or wet areas (IP20–IP65) depending on the application.

Distribution Box (DB Box)A distribution box, also known as a DB box, is a central hub for distributing electrical power from a single input source to multiple circuits throughout a building. It contains key components such as circuit breakers, fuses, and bus bars, which protect circuits from overloads and short circuits.

© 2026 PROMETHEAS OPTICAL - All rights reserved

Modern D

B boxes may include smart features like energy monitoring units and communication modules for integration with home automation systems. They are used in residential, commercial, and industrial environments to ensure organized, safe, and efficient power distribution.

Types and Features

Centralized vs. Decentralized Distribution: Centralized DBs manage all circuits from one location, while decentralized DBs provide localized distribution for specific areas or rooms. Materials: Commonly made from polycarbonate, ASA, or epoxy-coated stainless steel for durability and safety.

Industrial Combination Boxes: These can include socket panels, miniature circuit breakers (MCBs), residual current devices (RCDs), and padlock attachments for secure and flexible industrial setups.

Track Socket

A track socket is a type of electrical outlet designed for modular or portable power distribution, often used in construction sites, workshops, or temporary installations. Track sockets can accommodate Schuko 16A, 240V plugs, or CEE 63A industrial plugs, and are typically housed in robust, weatherproof enclosures with IP44 protection for outdoor use. They allow multiple devices to be connected safely and can include features like fused outlets, earth fault protection, and ample connection space for wiring.

Applications

Residential: Flush-mounted DB boxes for home circuits, track sockets for temporary power in garages or workshops.

Commercial/

Industrial: Combination boxes with multiple sockets, MCBs, and RCDs for factories, construction sites, and technical work areas. Smart Installations: Integration with energy monitoring and automation systems for efficient power management. In summary, electrical boxes provide safe enclosures for wiring, distribution boxes manage and protect multiple circuits, and track sockets offer flexible, modular power access for temporary or industrial applications.

Choosing the right type depends on the environment, load requirements, and safety standards.

© 2026 PROMETHEAS OPTICAL - All rights reserved

Article Content

Distribution boxes | Ahlsell – We make it easier to be pr...

Here you will find wall sockets, cable ladders, and accessories for easy installations. We also offer smart wall sockets, switches, and dimmers from several major suppliers.

Power Track Systems and Power Sockets

Power track systems offer safe, flexible power distribution for modern needs, suitable for homes, offices, and industries.

Electrical Distribution Boxes for Power Distribution | Wieland

Electrical distribution boxes for modular power distribution and installation. Flexible distribution solutions for industrial and building electrical infrastructure.

Raised Floor Systems | MK Electric by Honeywell

Easy to install, our single pan floorbox and track system provides workstation access to power and data. As your space changes, it can evolve along with it.

Electrak powertrack | Legrand United Kingdom

With minimal parts, push-fit assembly and a complementary range of floor boxes and grommets, this flexible, easy to install system can be reconfigured as office layouts evolve.

Amazon : Power Distribution Box

Browse power distribution boxes with circuit breaker protection and multiple outlet configurations. Shop durable solutions for construction and emergency use.

Busbars: why you should install underfloor power | CMD

What is a busbar? The type of busbar seen in many offices is a power distribution system. It looks like a metallic track featuring a series of plug sockets that are

Electrak powertrack | Legrand United Kingdom

Electrak powertrack | ! Electrak powertrack or underfloor busbar is perfect for cavity floor installations. With minimal parts, push-fit assembly and a complementary range of floor boxes and grommets, this

Beginner''s Guide:Power Track Systems

To learn more about the voltages of more countries and whether the track socket complies with the voltages of these countries, please click here. Conclusion: Is a

© 2026 PROMETHEAS OPTICAL - All rights reserved

Socket Combination Box & Fuse Box

Equipped or empty socket combinations and fuse box solutions for factories, construction sites, and workshops. Built for safety and durability!

Power Distribution Box, 110V Electricity Meter Electrical Box ...

Power Distribution Box, 110V Electricity Meter Electrical Box with NEMA 5-20 Power Outlet Pane,IP54 Electrical Breaker Socket Distribution Box for Construction Sites, workshops and Factories

Beginner''s Guide to Track Socket:Power Tracks

Power tracks and electrical track outlets offer a safe and flexible solution for power distribution in residential, commercial, and industrial settings.

Home Office Desk Power Track System Electric Socket

A power track system electric socket outlet is a type of power distribution system that allows electrical sockets to be repositioned along a sliding track. Unlike

Track Busway Tap-Off Units and Plug-In Power Devices

Track Busway systems distribute electrical power through overhead busway runs installed above work areas. Plug-in units—often referred to as tap-off boxes or power drops—connect directly to the

Install Track Lights

Track lighting can provide ambient, accent or task lighting. Achieve the mood you want by simply pointing the light where you want it.

Futina Power Track Outlet System, Movable Power

Futina offers innovative power track sockets with high-strength aluminum and flame-retardant PC for safety and durability. Boasting high-powe, Childproof, and a

POWERING THE WORKPLACE

Global recognition OVER 30 YEARS'' EXPERIENCE Legrand''s cost-effective Electrak systems have been designed and manufactured to distribute power and data reliably and safely throughout the

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 fans, and junction boxes.

© 2026 PROMETHEAS OPTICAL - All rights reserved

Contact Us

Continue your research online:

Website: https://prometheas.fr
Technical inquiry: https://prometheas.fr/project-desk.html
North American project region: Ashburn, Loudoun County, Virginia, United States

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

© 2026 PROMETHEAS OPTICAL - All rights reserved