

Power Distribution Box with Fingerprint Function



AI Overview

A power distribution box with fingerprint function combines electrical safety, smart control, and biometric access for secure and efficient energy management. Overview A fingerprint-enabled power distribution box integrates traditional electrical components—such as circuit breakers, air switches, and AC contactors—with biometric authentication systems. This allows only authorized users to operate or access the power system, enhancing both safety and security. The fingerprint function can be used to control access to circuits, trigger automation events, or remotely manage power distribution in homes, offices, or industrial environments.

Key Features

- 1. Finger-Safe Electrical Design** Modern power distribution boxes often feature finger-safe components, which prevent accidental contact with live parts. This includes fully covered blocks, captive set screws, and cap plugs for unused openings, ensuring compliance with UL, CSA, IEC, and CE standards. These designs reduce the risk of electrical shock and meet NFPA 70E safety requirements.
- 2. Biometric Access Control** Fingerprint scanners, such as the ekey or Viridi AC5000, allow unique identification of users. The system can trigger specific actions based on the recognized fingerprint, such as enabling or disabling circuits, activating childproof modes, or sending security alerts if an unknown fingerprint is detected. These scanners support networked operation, live finger detection, and can store thousands of user profiles.
- 3. Smart Home and Remote Control Integration** Intelligent power distribution boxes can connect to smart home systems via controllers like KC868-H8. This enables remote monitoring, automatic control of connected devices, energy-saving timing modes, and real-time alerts through mobile apps. Integration with KNX or IoT systems allows the box to respond to environmental sensors, security trigger...

Article Content

What Is a Power Distribution Block? Meaning, Function, Types, and

A power distribution block is an electrical connection device that takes one incoming power feed and distributes it to multiple outgoing circuits. It is used inside control panels, distribution

Bussmann series Finger-safe power distribution blocks data ...

The small footprint, high Short-Circuit Current (SCCR) Bussmann™ series power distribution blocks provide IP20* finger-safe protection under specified conditions.

What Are The 7 Function Of Power Distribution Box

A power distribution box organizes, protects, and controls electricity flow, ensuring safety and efficient power delivery in homes, businesses, and industrial systems.

Finger-Safe Power Distribution Blocks

With “finger-safe” components ranging from our Socomec line for the incoming main disconnect switch, our popular ULTRASAFE fuse holders, and our FSPDB line of power distribution blocks, Ferraz

Intelligent Power Distribution Box Solution

Intelligent power distribution box is composed of traditional leakage protector, air switch, AC contactor and KC868-H8. Compared with the traditional power distribution box, it is safer to cut off the strong

What is the Function of a Distribution Box in Electrical Systems

The distribution box plays a crucial function in the distribution box of electrical systems. It helps electricity move safely to different circuits, ensuring that power is utilized efficiently.

Power Distribution Board: Uses, Role & How its Work

Learn about power distribution boards: their uses, role, and how they work to manage electrical power distribution efficiently and safely in various setups.

Amazon : Power Distribution Box

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

FSPDB4C Power Distribution Blocks | Mersen

FSPDBs introduce a new level of safety and ease for installing power distribution blocks. An IP20 level of finger safe protection is achieved using the FSPDBs and

Power fingerprint identification based on the improved V-I ...

In power fingerprint identification, feature information is insufficient when using a single feature to identify equipment, and small load data of specific customers, difficult to meet the refined

Power Distribution Boxes: A Complete Overview | Eventech

This article covers the types, features, and advantages of power DB boxes, as well as their manufacturers and frequently asked questions.

SECURITY ACCESS CONTROL FINGERPRINT

Hikvision DS-KAS261 Fingerprint / Card / PIN Door Access Control Kit Hikvision Access control systems serve a critical role in any sensitive area, allowing only

FSPDB Series UL 1059 Finger-Safe Power Distribution

FSPDBs provide a safe, convenient way of splicing cables, splitting primary power into a variety of secondary circuits or providing a fixed junction tap-off point.

How Does a Power Distribution Box Work

Learn how a power distribution box works step by step—from incoming power to circuit protection and smart monitoring—for safe, efficient electricity delivery.

50 Amp Spider Box for Rent

Rent a portable spider box power distribution panel ideal for outdoor events and construction sites. Durable, weather-resistant design with hanging/standing options.

Viridi AC5000 Outdoor IP65 Fingerprint Terminal / Reader

Fingerprint Reader with 13.56MHz Reader & Back-lit Touch Sensitive Keypad. Operation Modes; Stand Alone/Wiegand/Networked Terminal, 20,000 User Capacity, Live Finger Detection, 2.8 inch Colour

Electrical Distribution Boxes for Power Distribution

From decentralized energy, signal and data distribution to distribution boxes for smart buildings, we offer the right solution. We mount any electronics in the

Research and implementation of an authentication system fusing

In this paper, we introduce an identity authentication system integrating physical layer and software behavioral fingerprints for power systems, playing a crucial role in device recognition.

Distribution boxes – For modular and decentralized

Download our product catalog for sensor-actuator cabling and circular connectors or our portfolio overview for FieldPower® distribution boxes for power transmission

Top 10 Smart Home Distribution Boxes for Modern Homes

Compare the top 10 smart home distribution boxes for modern homes. Find the best home distribution box for safety, energy savings, and smart control.

Smart Phone App Remote PIN Code/KeyFob/Card Biometric

Fashion slim size, Touch keypad Fingerprint access control, Standalone running. Waterproof, conforms to IP66 Grade, suitable for outdoor and also indoor use.

Distribution boxes – For modular and decentralized

Distribution boxes FieldPower® for power transmission Branching, switching and protecting energy – The FieldPower® power bus product family provides you

Energy distribution terminal strip with housing | FP BOX

FP BOX DC FieldPower® power distribution box, DC, IP65, in complete state, glass-fibre reinforced polycarbonate, PUSH IN, Insulation displacement connection

Contact Us

For more information, pricing, or custom solutions, please contact us:

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

Email: info@estlascleaning.co.za

Phone: +27 63 214 8579

Address: 22 Oxford Road, Parktown, Johannesburg, 2193, South Africa

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