

RIVO MULTITRADE OPTICAL SYSTEMS

Swipe card to open the power distribution box



Overview

Amazon.com : MENGQI-CONTROL TCP/IP 4 Door Basic function: swipe card/key fob, input PIN code or use card + PIN to open door. Amazon.com: MENGQI-CONTROL TCP/

Key Takeaways

A swipe card can unlock a power distribution box by interacting with an access control system that verifies credentials and triggers the electric lock. How It Works

Swipe card access systems for power distribution boxes use RFID, NFC, or magnetic stripe cards to authorize entry. When a card is presented to the reader, the system reads the encrypted credentials and sends a signal to the electric strike or magnetic lock on the box. If the credentials match the authorized list, the lock disengages, allowing the box to open; otherwise, access is denied.

Components of the System

- Card Reader: Mounted on or near the box, it reads the swipe card or key fob.
- Access Control Panel: The central controller that stores user credentials, logs entry events, and communicates with the lock.
- Electric Lock or Strike: Mechanically secures the box and releases when authorized.
- Power Supply Box: Provides DC power (typically 12V) to the control board and lock, sometimes integrated into the enclosure.

- **Management Software:** Allows administrators to add or remove users, set access schedules, and download entry logs. Many systems support remote control via smartphone apps .

Operational Steps

- **Enroll Users:** Register each swipe card in the system using a USB reader or management software.
- **Swipe the Card:** Present the card to the reader within the specified range (usually 5–10 cm for RFID).
- **Authentication:** The control panel verifies the card against its database.
- **Unlock:** If authorized, the electric lock disengages, allowing the box to open.
- **Logging:** The system records the entry, including time and user ID, for auditing purposes .

Security Considerations

- Use cards with secure encryption standards like MIFARE or DESFire for sensitive electrical areas.
- Implement multi-factor authentication if higher security is required.
- Ensure the system supports tamper detection and maintains logs even during power outages .
- Avoid proprietary systems unless fully committed to a single vendor ecosystem to ensure long-term compatibility .

Advantages

- Centralized control over who can access the power distribution box.
- Real-time monitoring and audit trails.
- Ability to schedule access times and restrict entry to specific users.
- Remote management via apps or networked software, enhancing operational efficiency . By following these steps and using compatible hardware and software, a swipe card can securely and efficiently control access to a power distribution box while maintaining detailed access records.

Article Content

Amazon : MENGQI-CONTROL TCP/IP 4 Door

Basic function: swipe card/key fob, input PIN code or use card + PIN to open door.

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With power cable to insert to electric outlet box. Control 4 doors, get in by swipe card/key fob, input PIN

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These systems usually consist of a magnetic swipe card reader, a door control unit, a door release

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The distribution box is a very important component of the power system. It is responsible for

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