

ADEL[®] HOTEL DOOR LOCK SOLUTION

Professional • Powerful • Reliable



About Us

ADEL[®]



ADEL is a leading electronic locks technology enterprise with 20 years experience in manufacturing of both electronic locks and fingerprint security devices. The variety of series covers 100 kinds of products.

As one of the pioneers in electronic locks technology, ADEL is well reputed through continuous research and development on the electronic locks and the biometrics technologies since 1993. With over 200 international invention patents and copyrights, as well as meeting the international standards such as UL, ANSI, CE, ISO and BS, we are now leading the industrial standard of the electronic locks. We are the only company that acquires the whole solution of fingerprint technology including fingerprint scanner, algorithm and DSP processor. We got the patents and copyrights for those technologies in both the United States and China. Our technologies and standards are also recognized by lots of Fortune global 500 companies like Texas instruments (TI), Philips, ATMEL etc, which become our strategic partners by the reason of admiring our technology and strength.

In 2008, ADEL Group invested in the corporate management system of Oracle and the IBM information system that setting up our IT platform to cope with the rapid development. We are greeting the upcoming business opportunities with our philosophy of "Professional, powerful and reliable".

Our product ranges include hotel locking solution, office locking solution and residential locking system. Our job references are located all over the world such as Chinese CCTV building, French Accor Hotel Group, Hong Kong Regal Hotel Group, etc. and over three million rooms were equipped with our systems with high satisfaction.

Hotel Job Reference

"over 2 million hotel rooms using Adel's hotel locks"

Middle East

- Lares Hotel
- Sheraton AL-Harithyah Hotel

Europe

- Grand Hotel Excelsior
- Holiday Inn Express

Asia

- Regal Hong Kong Hotel
- Hong Kong Baptist University (NTT International House)
- Phuket Grade Land & Spa
- Eastin bangkok hotel
- Jomtein Beach
- A One Hotel
- Novotel beach & Goff Chumphon
- Grace Hotel (a chain hotel in thailand)
- Terej Hotel
- Promenade Hotel
- Flamingo Hotel
- B-Suite Hotel
- Best Western Seri Pacific Hotel
- Paragon Hotel
- Intekma Resort
- Ixora Hotel
- Golden Boutique Hotel
- Harris Hotel
- Fave Hotel Kelapa Gading (ASTON GROUP)
- Ibis Styles Malang (ACCOR GROUP)

- Zenith Hotel Kendari
- Swiss Margos Cepu
- Sun Spa resort
- Mai Anh Hotel
- Saigon Ban Me Hotel
- Michelia Hotel
- Vietsovpetro Resort
- Sailing Bay Resort
- Elegant Suite Hotel
- Terrecotta Resort
- Minh Toan Galaxy Hotel
- World Hotel (in Bac Ninh province)
- Pyongyang Koryo Hotel
- Yanggakdo International Hotel
- Sunmoon University dorm
- Sky park Hotel IV

Australia

- Hotel Astor
- Plaza Hotel el Bosque
- Hilton Garden Inn Lima Surco
- Best western plus
- Platinum Chain of Boutique Hotels

Brasil

- Amazonas tower Hotel
- Ibis hotel Imperatriz
- Hotel dos comerciairos
- Obeid Plaza Hotel
- Hotel Himmelmblau Palace
- Hotel RIO



Product | Hotel Door Locks

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9000^{RFID} Advanced Hotel Locks

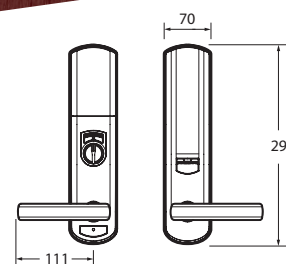
D Stainless Steel/Zinc Mortise For 40-45 mm Door thickness

Function and Features

- Luxury and stylish design
- Unique dual clutch design enhance stability
- PVD technology on surface treatment
- Lifting up handle to double lock
- Imported electronic components used in PCB board adopting automatic SMT techniques, preservatives from Australia are used for unidirectional surface protection.

Technical parameters

- **Card type:** RFID Card
- **Working voltage:** DC 6V (4 x AA battery)
- **Static consumption:** 120uA
- **Dynamic consumption:** 110 - 150mA
- **Battery life:** Approximately 15,000 times
- **Low voltage alarm:** Red light flash while the voltage lower than 4.5V.
- **Unlocking record:** EEPROM records the latest 828 lock openings including mechanical override
- **Mechanical key:** Override ensures prompt emergency opening when electric key is invalid while the lock is in the status of double-lock.



Back view Front view
All dimension are in mm

7000^{RFID} Advanced Hotel Lock

D Stainless Steel Mortise For 38-70 mm Door thickness

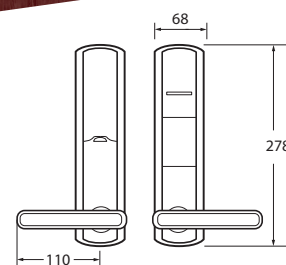


Function and Features

- Modern and elegant design
- PVD technology on surface treatment
- New electromotor and clutch design
- Lifting up handle to double lock

Technical parameters

- **Card type:** RFID Card
- **Working voltage:** DC 6V (4 x AA battery)
- **Static consumption:** <100uA
- **Dynamic consumption:** <200mA
- **Batter life:** 15,000 times of normal operations
- **Low voltage alarm:** Three "beep" sounds alarming while the voltage is lower than 4.5V.
- **Unlocking record:** Audit trail records the latest 828 lock openings including mechanical override
- **Mechanical key:** To override ensures prompt emergency opening when electric key is invalid and the lock is in the state of double-lock.



Back view Front view
All dimension are in mm

Product | Hotel Door Locks

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US-11 RFID Advanced Hotel Locks



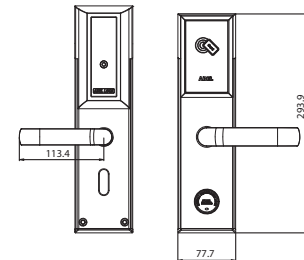
B Stainless Steel Mortise For 38-70 mm Door thickness

Function and Features

- Cast steel unified structure
- High damage resistance
- US standard mortise B, 3D design
- Advanced movement mechanism imitating human bone connection,
- Reliable slide-rail movement connection
- Anti-pick latch design and anti-friction latch alarming system enable double safety.
- PVD technology on surface treatment leads to a long product life.
- Imported electronic components adopted in PCB from automatic SMT process.

Technical parameters

- **Card type:** RFID Card
- **Working voltage:** DC 6V (4 x AA battery)
- **Static consumption:** 120uA
- **Dynamic consumption:** <200mA
- **Battery life:** Approximately 15,000 times of normal operations
- **Low voltage alarm:** Three "beep" sounds alarming while the voltage is lower than 4.5V
- **Unlocking record:** Audit trail records the latest 828 lock openings including mechanical override
- **Mechanical key:** Override prompts emergency opening when electronic key is invalid while the lock is in the status of double-lock.



Back view Front view
All dimension are in mm

US-22 RFID Advanced Hotel Locks

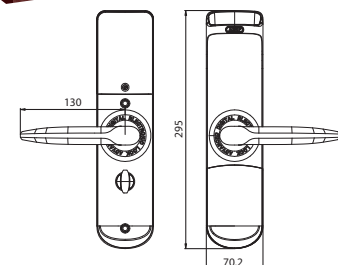
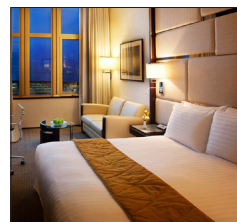
B Stainless Steel Mortise For 38-70 mm Door thickness

Function and Features

- Single stage cast steel process
- Support 9V DC external power supply for emergency
- US Standard mortise B adopted
- Double gearing structure design provides an even force distribution
- Slide-rail latch design effectively reduces the friction
- Anti-pick latch design and anti-friction latch alarming system ensures additional lock safety
- Electronic components used in PCB board adopting automatic SMT techniques, preservatives from Australia are used for unidirectional surface protection.

Technical parameters

- **Card type:** RFID Card
- **Working voltage:** DC 6V (4 x AA battery)
- **Static consumption:** <120uA
- **Dynamic consumption:** <200mA
- **Batter life:** Approximately 15,000 times
- **Low voltage alarm:** Three "beep" sounds alarming while the voltage is lower than 4.5V.
- **Unlocking record:** Audit trail records the latest 828 lock openings including mechanical override
- **Mechanical key:** Override ensures prompt emergency opening when electric key is invalid while the lock is in the status of double-lock.



Back view Front view
All dimension are in mm

Product | Hotel Door Locks

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5500^{RFID} Advanced Hotel Locks



E Zinc Mortise

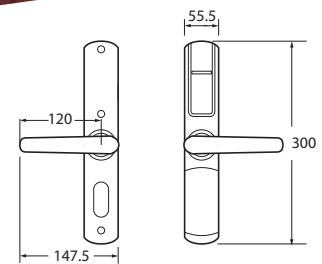
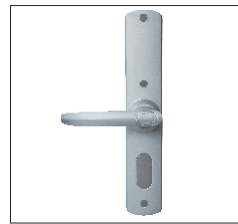
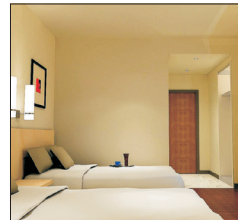
For 30 - 70 mm Door thickness

Function and Features

- Single stage cast steel process
- EU Standard mortise E adopted
- External 9V power socket for emergency
- Double gearing structure design provides an even force distribution
- Slide-rail latch design effectively reduces the friction
- Anti-pick latch design and anti-friction latch alarming system ensures additional lock safety
- Lifting up handle to double lock

Technical parameters

- **Card type:** RFID Card
- **Working voltage:** DC 6V (4 x AA battery)
- **Static consumption:** <120uA
- **Dynamic consumption:** <200mA
- **Batter life:** Approximately 15,000 times
- **Low voltage alarm:** Three "beep" sounds alarming while the voltage is lower than 4.5V.
- **Unlocking record:** Audit trail records the latest 828 lock openings including mechanical override
- **Mechanical key:** Override ensures prompt emergency opening when electric key is invalid while the lock is in the status of double-lock.



Back view Front view
All dimension are in mm

1800^{RFID} Advanced Hotel Locks



B Stainless Steel Mortise

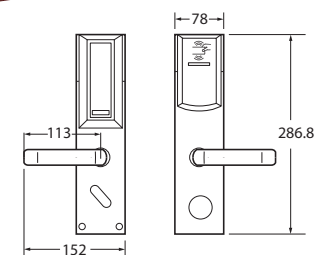
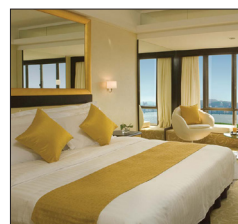
For 38 - 70 mm Door thickness

Function and Features

- Cast steel unified structure
- High damage resistance
- US standard mortise B, 3D design
- Advanced movement mechanism imitating human bone connection,
- Reliable slide-rail movement connection
- Anti-pick latch design and anti-friction latch alarming system enable duple safety.
- PVD technology on surface treatment leads to a long product life.
- Imported electronic components adopted in PCB from automatic SMT process.

Technical parameters

- **Card type:** RFID Card
- **Working voltage:** DC 6V (4 x AA battery)
- **Static consumption:** 100uA
- **Dynamic consumption:** <200mA
- **Battery life:** 15,000 times of normal operations
- **Low voltage alarm:** Three "beep" sounds alarming while the voltage is lower than 4.5V
- **Unlocking record:** Audit trail records the latest 828 lock openings including mechanical override
- **Mechanical key:** Override prompts emergency opening when electronic key is invalid while the lock is in the status of double-lock.



Back view Front view
All dimension are in mm

Product | Hotel Door Locks

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A6 RFID Advanced Hotel Locks

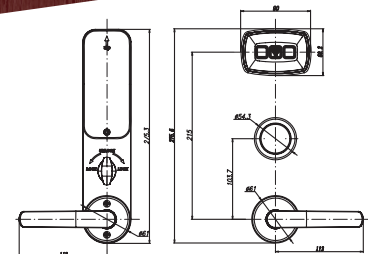
A Stainless Steel Mortise For 38-70 mm Door thickness

Function and Features

- Fashionable neat design
- Optional mechanical override available
- Support 9V DC external power supply for emergency
- US standard mortise A, 3D design
- Advanced movement mechanism imitating human bone connection,
- Reliable slide-rail movement connection
- Anti-pick latch design and anti-friction latch alarming system enable double safety.
- PVD technology on surface treatment leads to a long product life.
- Imported electronic components adopted in PCB from automatic SMT process.

Technical parameters

- **Card type:** RFID Card
- **Working voltage:** DC 6V (4 x AA battery)
- **Static consumption:** 120uA
- **Dynamic consumption:** <200mA
- **Battery life:** 15,000 times Approximately
- **Low voltage alarm:** Three "beep" sounds alarming while the voltage is lower than 4.5V
- **Unlocking record:** Audit trail records the latest 828 lock openings including mechanical override
- **Mechanical key:** Override prompts emergency opening when electronic key is invalid while the lock is in the status of double-lock.



Back view Front view
All dimension are in mm

LH5 RFID Advanced Hotel Lock

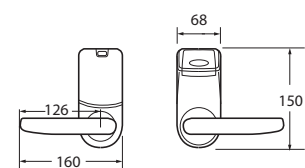
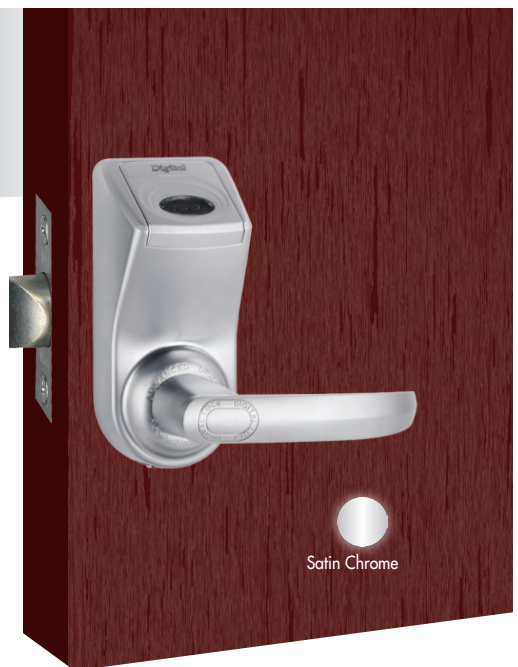
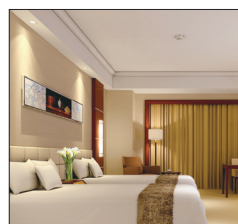
Standard Single Latch For 30-60 mm Door thickness

Function and Features

- Single stage cast steel structure
- Support 9V DC external power supply for emergency
- Villa level, can be selected according to different needs.
- Time control with retrievable usage tracking record
- Passage Mode function
- Easy Installation
- UL Latch available

Technical parameters

- **Card Type:** RFID card
- **Card Response Time:** <1 second
- **Sensor operating frequency:** 13.56MHz
- **Sensor distance:** 10 ~ 40mm
- **Working voltage:** DC 6V (4 x AA battery)
- **Static consumption:** <100uA
- **Dynamic consumption:** <200mA
- **Battery life:** Approximately 10,000 times of normal operations
- **Under voltage Index:** < 4.5V
- **Low voltage alarm:** Three "beep" sounds alarming while the voltage is lower than 4.5V.
- **Unlocking record:** Audit trail records the latest 828 lock openings including mechanical override
- **Mechanical key:** To override ensures prompt emergency opening when electric key is invalid and the lock is in the state of double-lock.



Back view Front view
All dimension are in mm

Components | Mortise

ADEL[®]

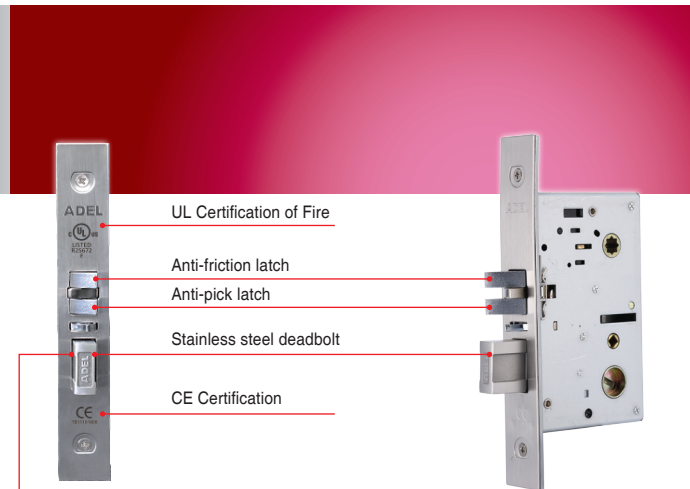
B Stainless Steel Mortise

US Standard



Function and Features

- **Specification:** Designed with 3D technology. High reliability, durability, and flexibility of the mortise by simplifying the parts combination and anti-pick function add in .
- **Material used:** 5 latches and deadbolt with stainless steel
- **Surface processing:** Electro-Coating technology from Japan to prevent the electronic parts of the mortise from damage or malfunctioning caused by erosion.
- **Motor:** Japanese motor with high performance and durability.
- **Cable:** International standard PC cable.



UL Certification of Fire

Anti-friction latch

Anti-pick latch

Stainless steel deadbolt

CE Certification

Stainless steel deadbolt

Single stage mold process adopted for stainless steel deadbolt, 10 times strengths, Anti sawing, safety and smooth operation.

D Stainless Steel Mortise

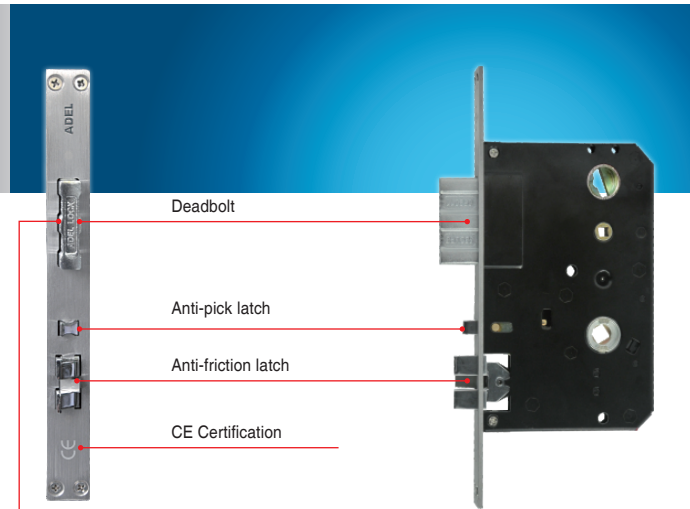
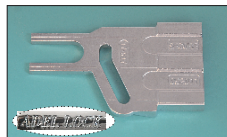
EU Standard



Function and Features

- **Specification:** Dual gear structural design provides an even force distribution. Slide-rail latch design effectively reduces the friction. Anti-pick function and alarming system enhance durability and double safety
- **Material used:** 5 latches and deadbolt with single stage cast steel
- **Surface processing:** Electro-Coating technology from Japan to prevent the electronic parts of the mortise from damage or malfunctioning caused by corrosion.
- **Motor:** Motor with high performance and durability.
- **Cable:** International standard PC cable.

Single stage cast steel, high damage resistance, lateral resistance can withstand over 6000N



Deadbolt

Anti-pick latch

Anti-friction latch

CE Certification

Deadbolt

Single stage cast steel, high damage resistance, and longer product life

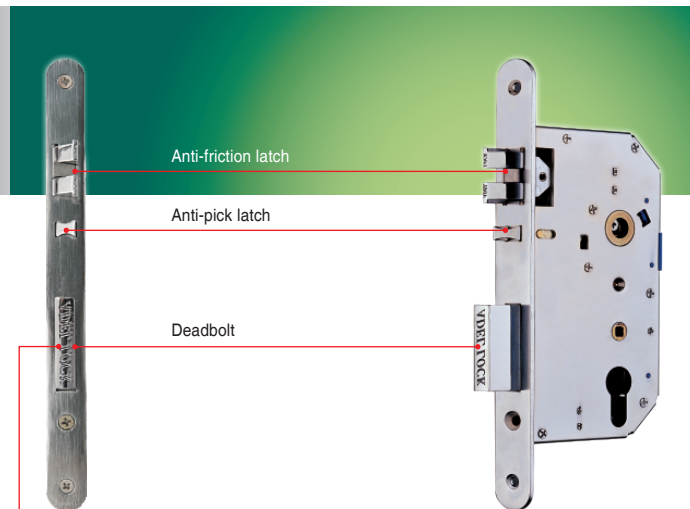
E Mortise

EU Standard

Function and Features

- **Specification:** Design provides an even force distribution. Slide-rail latch design effectively reduces the friction. Anti-pick function and alarming system and safety
- **Material used:** 5 latches and deadbolt with single stage cast steel
- **Surface processing:** Chromium electroplating technology from Japan to prevent the electronic parts of the mortise from damage or malfunctioning caused by corrosion.
- **Motor:** Motor with high performance and durability.
- **Cable:** International standard PC cable.

Single stage cast steel, high damage resistance, lateral resistance can withstand over 6000N



Anti-friction latch

Anti-pick latch

Deadbolt

Deadbolt

Cast steel structure, Surface electroplated in satin chrome, which enables high hardness, hard-wearing, stable and corrosion resistance.

Hotel management system | Interfaces

ADEL[®]

ADEL hotel lock management software can be interfaced with hotel management system in 5 different ways:
DLL, Fidelio, File, Socket, PMS-VC

Function and Features

- Making use of the Microsoft SQL Server for data management and storage
- High capacity and speedy
- Capable to Windows 2003 (Server), Windows Vista, Windows 7, Windows 8
- User friendly operating system, support both simplified, traditional Chinese and English
- Support network operating system and anti-collision (Handling more than one card at the same time)
- Group card and spare card issuing
- Able to name 11 access controls
- 15 kinds of cards with 28 authority levels, flexible customer-oriented tailor made hotel management system



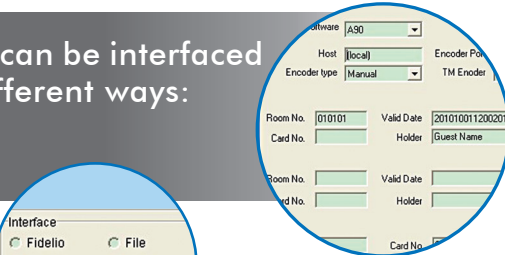
Hotel lock management software



Use fingerprint to log in the software

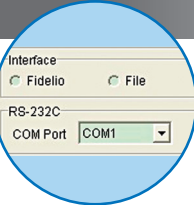


Successfully log in with fingerprint



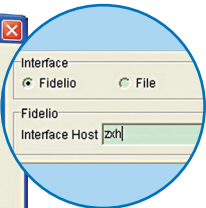
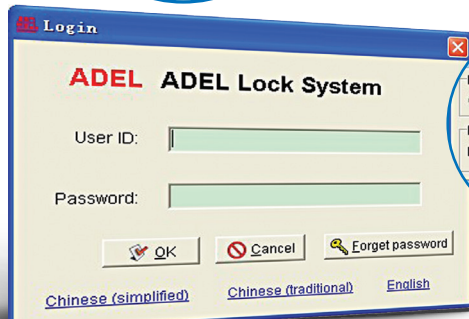
DLL interface

Available to initialize the functions ranged from issue card, duplicate card, read card, erase card, and lose card with performance function e.g breakfast voucher. Support programming languages such as DELPHI, PB, C#, VB, Foxpro.



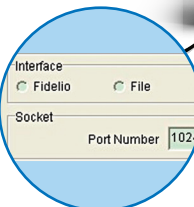
PMS-VC interface

Transfer data by RS232, data line connection: 2 (data), 3 (data), 5 (ground wire)-- 3 (data), 2 (data), 5 (ground wire).



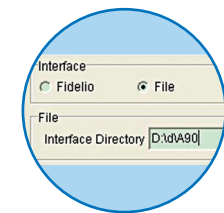
Fidelio interface

The Fidelio interface is agreed by TCP/IP, meeting the requirement of MICROS-Fidelio certification.



Socket interface

Internet data transfer, adopt TCP/IP protocol, real-time response to data and instructions sent by users will be made by ADEL socket server.



File interface

Users write to a specific directory according to a fixed format and ADEL Socket Server will read and analyze the data and instructions.



Fidelio certificate Certificate No. ADEL-5003-059

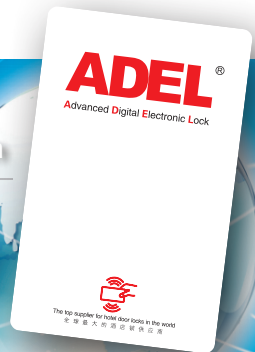
Thousands of hotels are using ADEL interface !

Accessories | One Card solution

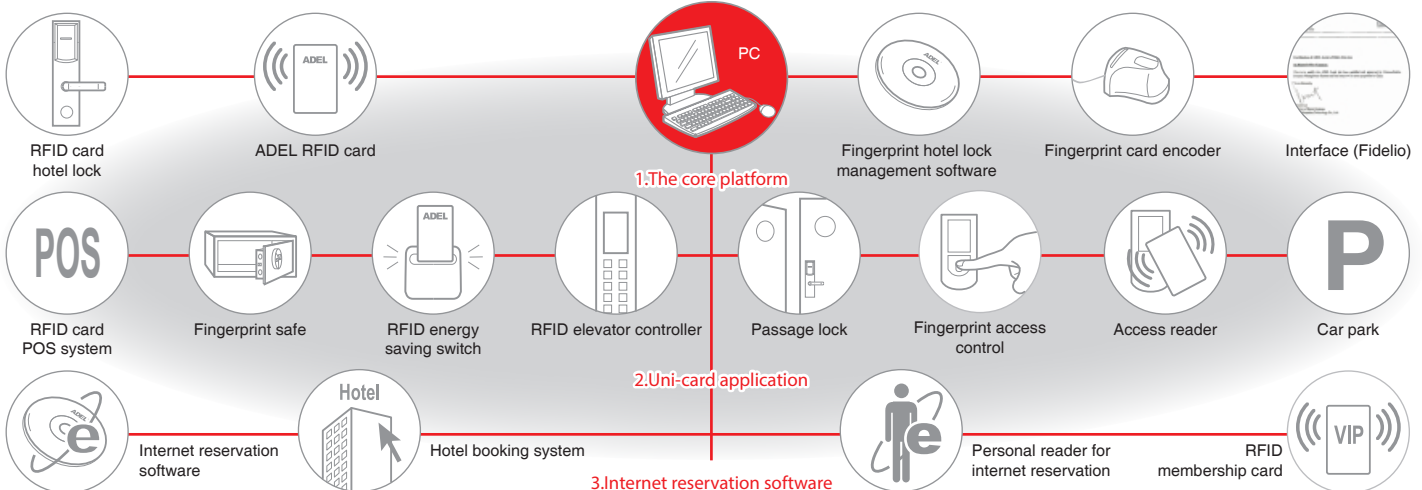
RFID Hotel Access Card

Uni-Card Application

ADEL RFID card can be upgraded to fingerprint RFID card for higher security level. It not only unifies the process of hotel management, but also be well prepared for the other additional function like internet reservation, POS system, VIP self-service, lift & access control, etc.



Structure of Uni-card system



RD-FCG3-2 Fingerprint card encoder



Function and Features

- User-friendly
- Fingerprint authentication device with USB port
- Equipped with fingerprint scanner, available to issue fingerprint card

ISO 14443A Standard



- > Designed to match with the future trend which combines two high level biometrics security technologies fingerprint and RFID card. It can recognize any fingerprint (Up to 6 years) in any directions for access or apparatus control.
- > Most popular RFID with fingerprint card encoder in the US. With its unique function, it can prevent the potential threat of password disclosure due to the valid fingerprint is needed during the process of card issuing.

Technical parameters:

Name	Description	Technical parameters
Working voltage	USB power supply	DC 5V
Communication method	USB port	USB port
Sensor	Resolution	CMOS color, 500dpi
Verification method	Fingerprint verification	1 : N
FRR	Less than once per 1000 times	< 1%
FAR	Nil even after 1 million times	< 0.0001%
Working environment	Working temperature Working humidity	-5°C - 50°C 20% - 80%
Fingerprint algorithm	Angle for finger position	360°C
Driver	Microsoft standard	HID

ADEL-8MF RFID card encoder

USB HID MF1 card encoder is specially designed for identity recognition. Easy to use by USB port, in accordance with ISO14443A Standard



Function and Features

ISO 14443A Standard



- Plug and Play
- Easy to use by USB port
- In accordance with ISO14443A Standard

Technical parameters:

Name	Description	Technical parameters
Working voltage	USB power supply	DC 5V
Communication method	USB HID, driver is not required	USB port
Encryption	Encryption algorithm	DES algorithm



Comparison:

Product		
Communication method	USB	USB
Available card	Fingerprint card or RFID card	RFID card
Power supply	via USB	via USB
Log in the software	Fingerprint or password	Password
Extension of fingerprint card	Yes	No
Security	Extremely safe	Safe

Accessories | Energy Saving Switch

ADEL®

30MF/ 30MF-5 30DC/ 30MF-NT

Energy Saving *Switch for Hotel,*
AC220V *Save energy, Save the Earth*

Introduction

Energy saving switch is specially designed for hotel guestroom with the purpose of energy saving. When guests enter a hotel guestroom and insert a keycard into the switch, the main power supply can be put through. The lighting system, TV set and sockets in the room will then be activated. And when the guest leaves the room, the power supply will be cut off automatically 5-10 seconds after the guests remove the keycard, that ensure the guests leave the room safely with sufficient lighting. It is normally installed on the wall of guestrooms entrance for convenience.



RFID Three types for choice

>Intelligence type – High power



Operating Voltage: 220V

- Only capable to Adel RFID Card
- Enhance the internal management
- Eliminate energy waste

>Universal type



Operating Voltage: 220V

- Capable to all types of card
- Cost efficient
- Minimize energy waste

>Networked type



Operating Voltage: 220V

- Connecting wires and hubs needed
- Eliminate energy waste
- Brand Building

Equipment | Hotel Fingerprint Safe Box

"More convenient, much better".. After five years of research and development, ADEL has designed a new type of storage box for hotel guestrooms. It can collect, save fingerprints and lock itself automatically after you put your finger on the fingerprint window. Next time when you put your finger on it again, your existed fingerprint can open the safe door and then be deleted immediately at the same time.

No setting needed



Function and Features

- Convenient to activate via fingerprint
- Automatic operation throughout the process
- 4 AA batteries needed, with socket for external 6V power supply.
- Specialized for hotel purpose



Dimensions:
(W)420 x (D)370 x (H)200 mm

Single-relay elevator controller

Introduction

ADEL elevator controller is specially designed for hotel elevator with purposes of enhancing safety and energy saving. It is operated together with ADEL lock management software to attain the level management. Only authorized cards can access to designated floors, which prevent irrelevant entry, and hence protect the hotel safety and extend the service lifetime of elevators.

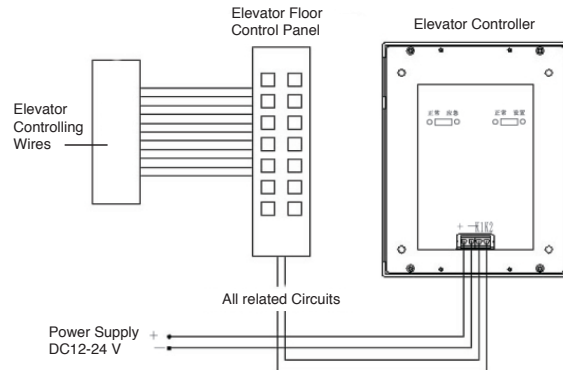


RFID card type



Notes:
The controller output signal functions as a switch, the output terminal connects with circuit of elevators. When any valid card works, K1 and K2 are closed, the relevant control circuits are connected.

Single Relay Elevator Controller



Multi-relay elevator controller

Introduction

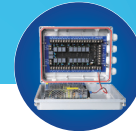
Multi-relay elevator controller

ADEL multi-relay elevator controller system consists of control board, switching power supply, reader, card and other accessories. According to the settings of software is authorized to different card types different floor permissions.

The elevator controller function is to control the elevator floor buttons. Therefore, all the existing security features of the elevator itself are not affected.



Multi-relay elevator controller

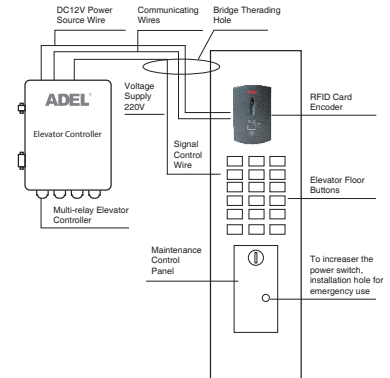


Multi-relay Elevator Controller



Reader with plastic shell

Reader with metal shell



Temper Glass / Metallic Access Control Reader

Function and Features

- Support up to 15 different gates
- The way of authorization depends on card and room types
- Different levels of authorization available to satisfy practical needs.
- Widely used in hotel public areas such as backdoors, swimming pool, car park etc.
- Work with electro-magnetic lock

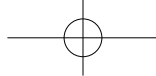


Reader with plastic shell

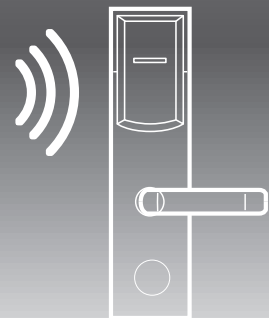
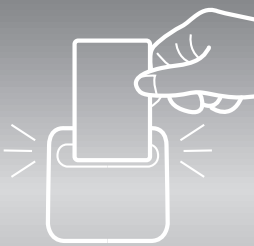


Reader with metal shell





www.adellock.com



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Add: Unit B, 7/F, World Tech Centre, 95 How Ming Street, Kwun tong, Kowloon, Hong Kong.
Tel: (852) 2989 6328 | Fax: (852) 2989 6329 | E-mail: service@adellock.com | URL: www.adellock.com

iDLK, Inc.

愛迪雷科(美國)有限公司

Add: 13845 Alton Pky, Unit C Irvine, CA 92618, USA
Tel: +1 844 994 4355 | E-mail: service@adellock.com | URL: www.idlk.com

