



Modular access control
AccessOne

Manage access,
optimise
workflows

Connect people. Create access.



The best of two worlds

The AccessOne access control system combines a cabled access control system with offline, mechatronic locking devices. Safety-critical doors with complex requirements profiles are controlled and monitored online in real-time. Access points to non-security critical areas are fitted with the mechatronic locking systems.

The intelligent access software manages all doors, offers practical functions for operational security applications and contains interfaces to many of the systems commonly used in buildings.

Manage access,
optimise
workflows



- Extremely user-friendly – all changes and evaluations are performed centrally on the PC.
 - Flexible to use – quick and easy assignment of individual access rights.
 - Solutions for every door: online, offline or mechanical.
 - Exceptionally cost-effective – most doors require no cabling.
 - CES readers/updaters: The reading and writing process is completed in fractions of a second.
 - Security of investment: All mechanical locking devices are compatible with the OSS Standard Offline.
 - Readers from other manufacturers can be integrated.
 - Intelligent extensions – integration of parking space administration, ID card creation, time registration and much more.
 - AccessOne offers interfaces to third-party systems such as EMA, BMA, personnel systems, etc.
 - Open for individual interfaces.
- The scalability of the system, from just a few doors and employees up to 16,000 online readers and 100,000 offline locking devices plus up to 200,000 active access media such as ID cards, key fobs and electronic keys, make access control possible for practically any imaginable application.

Manage access securely and easily

Even if a key is lost, if organisational changes are made, if staff change within a department or if the department itself is relocated, the flexible functions of AccessOne help you implement every change within your team. The authorisations that are valid in each case are stored and updated each day on your employees' electronic ID cards by means of online readers at central access points. The ID cards form the link between the online and the offline access control systems.

Access rights on the ID card

The information between the cabled access control system and mechatronic, offline locking devices is exchanged via the ID cards.

Updaters, that are controlled by the door controllers, are installed at central access points.

When an employee holds their ID card up to an updater, the access authorisation for this access is checked in an instant and the authorisations for the mechatronic locking devices are updated.

The ID cards have an expiry date. If the expiry date has passed, the medium is no longer authorised to access offline doors. The authorisations on the medium must first be updated on an updater device.



Set up authorisations with ease

The role-based authorisation profile contains all area-defined and time-defined authorisations that must be issued to an individual. This, for example, means that a new employee in the accounts department is issued the accounts profile, which opens all of the doors and applications in the accounts department.

Authorisations for particularly sensitive areas can be granted or withheld by a second authority using a workflow. Similarly, the issuing of authorisations via simple browser access can also be decentralised very easily.



Security in case of lost ID

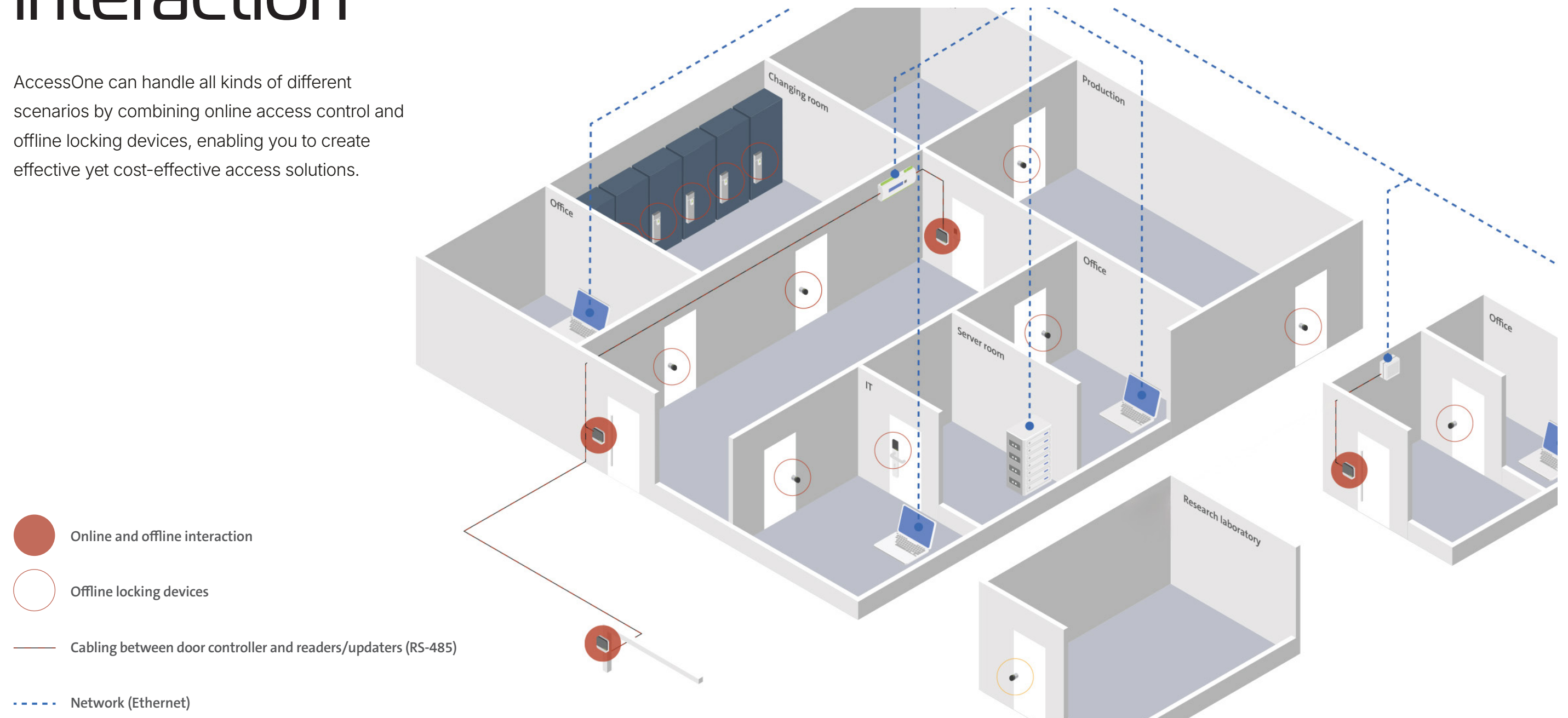
If an ID card is lost, it is blocked in the system. This information is simultaneously sent to all of the door controllers. As a result, all authorisations for security-sensitive areas are withdrawn immediately. If the blocked ID card is held up to an updater, a block is written to the card, and from that time, the blocked ID card can also no longer gain access through offline locking devices. The other ID cards in the system also receive the information about the lost ID card and also transmit this information to the mechatronic locking devices.

OSS Standard Offline

The OSS Standard Offline describes the method in which ID cards are written to and read. The data exchange between ID cards and devices is standardised and specifically encrypted for each system. The OSS Standard Offline provides the operator of an access control system with a high level of flexibility. It is thus also possible to integrate readers or mechatronic locking devices from different manufacturers into an AccessOne access control system, for example.

Online and offline interaction

AccessOne can handle all kinds of different scenarios by combining online access control and offline locking devices, enabling you to create effective yet cost-effective access solutions.



Online access control

AccessOne access readers can be installed on external doors, automatic barriers, main entrances or in other accessible places. They are permanently linked to the access control system. Individual access rights for each access point can be defined and managed in the access control system database. The access readers recognise authorised locking media and grant them access. At the same time, the readers also update the locking media.

Access media that are always up-to-date

The access reader checks the access authorisation every time a locking medium is used on an access reader that is controlled online. Up-to-date authorisations for the offline locking devices are simultaneously saved on the medium. The system also documents any instances when the medium is used on offline locking devices.

Offline locking devices

The electronic cylinders and handle sets are not connected to the access control system by a cable. They are battery-powered and operate autonomously. If they detect an access medium, they read the access rights saved on it. The door will then either be released or remain locked.

RFID furniture locks

RFID furniture locks are also battery-powered and are integrated into the access control system in the same way as offline locking devices. Depending on the setting in the software, cupboards can be used on a shared basis (pharmacy) or by individuals (changing room).

Integration of mechanical locking systems

Not all access instances require an electronic locking solution. CES also offers mechanical master key systems. A combination key enables you to operate both electronic and mechanical locking devices.



Optimise processes with intelligent functions

The following functions describe some of many scenarios that you can implement using the AccessOne access control system. They are already included in the software and can be added as required.

ID card creation

The easy-to-use ID card creation function allows layouts for company ID cards to be created directly within the software with the aid of an easy-to-use graphical editor. The editor accesses the database fields of the employee master data to create personalised ID cards. QR and barcodes can also be generated. In a single work step, the ID card is assigned both its print layout and the coding for all of the system applications linked to the access control system.

Multi-Client function

The Multi-Client function enables defined parts of the system, such as doors or persons, to be logically assigned to different, independent clients. These clients can manage the system parts assigned to them

individually, but have no influence over or insight into the system parts assigned to other clients. There is an option to manage system parts that are used communally, such as the entrance door.

Visitor administration

Your employees can register visitors simply via a web browser and can issue day passes for them with limited access rights.

Third-party supplier administration

This module allows you to manage the master data of employees of third-party suppliers, without having to access the master data of in-house personnel. This, for example, grants access to tradespeople who are working in the building and require materials and/or an ID card for this purpose. Special approvals



or necessary instructions can be stored and checked together with the validities.

Access to parking spaces

AccessOne uses entry and exit readers to grant or prevent access to the car park. The use of each parking space can be controlled individually and reliably. A particularly convenient feature is the detection of authorised vehicles using UHF locking media fitted behind the windscreen and detected by a long-range reader.

Time registration

The system can use access readers and/or separate time registration readers to log arrivals and departures and to enter these into a higher-level time management system in CSV format on a daily basis.

Web applications

Particular processes, such as the registration of visitors, third-party supplier administration, workflow management or authorisation management can be performed with ease using browser applications.

Open for interfaces and individual requirements

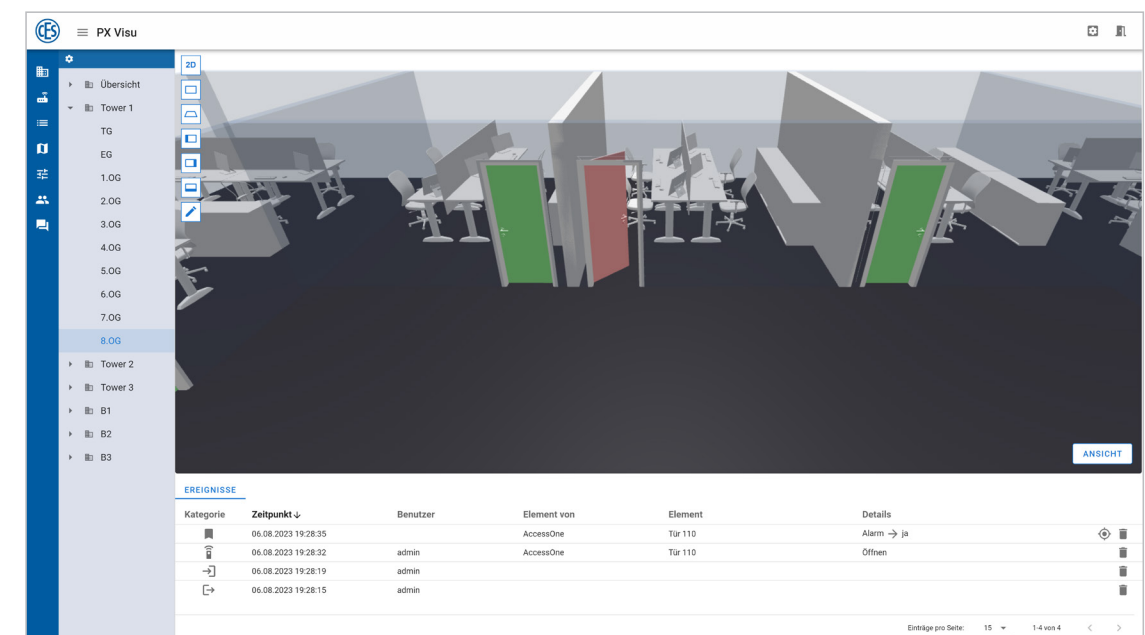
Many interfaces are already implemented in AccessOne or are implemented with you or the provider of your services. Here are just a few examples:



- IP cameras
- Intruder alarm systems
- Fire alarm systems
- Ventilation systems
- Escape route systems
- Clean laundry issuing systems
- Weapons cabinets/valuables cabinets
- Key issuing systems
- Personnel management

Visualisation of building security

Current access processes, door status and situations can be read out by creating a link to a building control system. In the event of an evacuation in an emergency, the control system indicates at a glance whether persons are still in the building.



- Building security through monitoring
- Monitoring the status of all doors
- Visualisation of the alarm system status
- Remote opening of doors
- Management of multiple sites
- Overview in event of emergency evacuation
- Visualisation of battery statuses



CES system components



Door controller TSG8

- For up to 8 doors with up to 4 readers/updaters each
- Power supply: 12–24 V DC mains adapter
- Autonomous operation if network fails
- Emergency power supply from UPS available



Door controller TSG1

- For one door with up to 4 readers or 2 doors with 2 readers/updaters each
- Power supply: 12 V DC mains adapter or PoE
- Autonomous operation if network fails
- Emergency power supply from UPS available

Door controllers and door monitoring

Door controllers are designed to be able to show a large number of door situations. These include an impressive range of functionalities, from simply opening a door to complex airlock control systems involving multiple parameters.

The door controllers operate on an entirely stand-alone basis. This means that even if the network connection to the higher-level central access controller and the control and management software fails, the door controllers continue to provide optimum security for the door without the functions being restricted.

Readers/updaters

All readers can be defined as updaters.
The updating process is completed in a few milliseconds.



Wall terminal, CES design housing

Flush-mounted version



Wall terminal, CES design housing

Weather-resistant and surface-mounted versions



Datafox reader

Two-factor authentication



PHG Voxio reader

Two-factor authentication



PHG Voxio display reader

As a time registration and info terminal



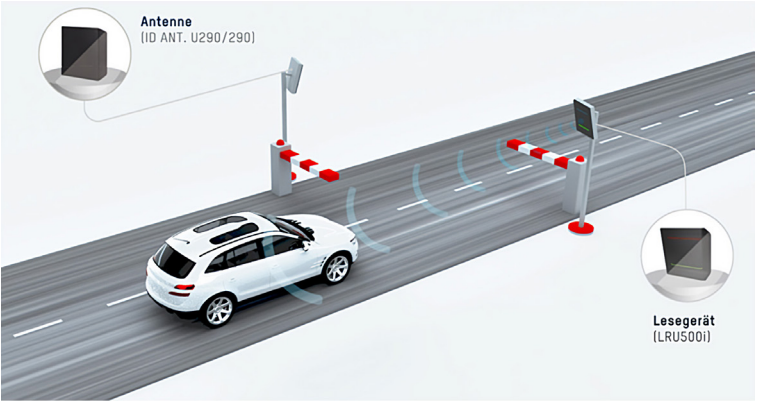
RS-485 wireless module

Provides an online connection



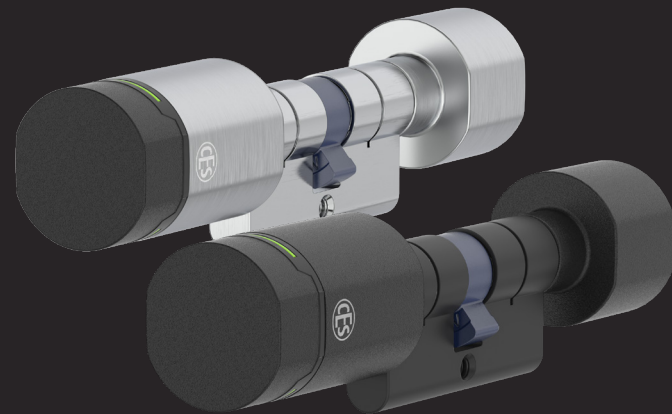
FEIG UHF long-range reader

These long-range readers achieve reading ranges of up to 10 m from the passive UHF locking media, which can be attached directly behind the windscreen of vehicles. The readers are connected directly to the door controller via RS-485. A second vehicle lane can also be monitored by an additional antenna that communicates with the base reader.



Electronic cylinders

Electronic cylinders are available in various versions and colours. A suitable solution is thus available for every door. The battery is located in the outside knob and can be replaced quickly and simply.



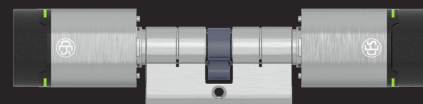
EB815

Double knob cylinder

- Standard version: Stainless steel look with black reader, optional version in black
- Simple to install
- No door wiring required
- Ready to use
- Modular design available, with length adjusted on site

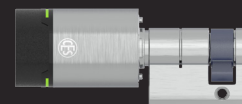


Interested in finding out more?
Scan this QR code



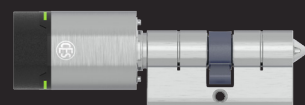
EB8710

Dual cylinder



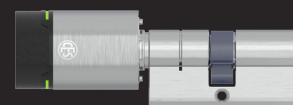
EB851

Half cylinder



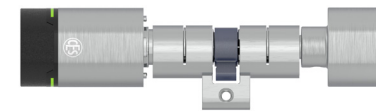
EB802

Dummy cylinder



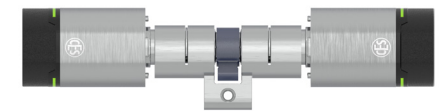
EB810

Hybrid cylinder, with mechanical locking side



EB615

Double knob cylinder, Swiss profile



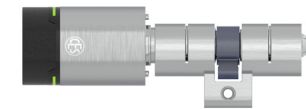
EB6710

Dual cylinder, Swiss profile



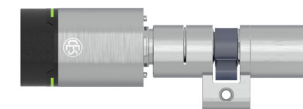
EB651

Half cylinder, Swiss profile



EB602

Dummy cylinder, Swiss profile



EB610

Hybrid cylinder, Swiss profile, with mechanical locking side



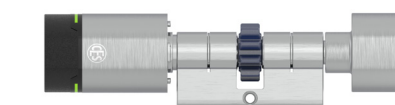
EB5558

Cam cylinder



EB30

Round cylinder with coupling link



EB815-41

Double knob cylinder with pinion



EB215

Padlock

Handle sets

Suitable for both indoors and outdoors. This handle set is designed to be particularly slim and features a high-quality appearance. Available as a narrow or wide long shield and as a compact shield.

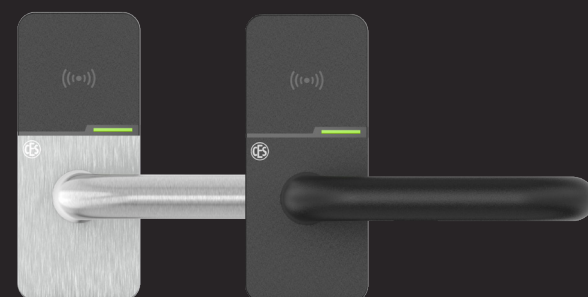
- Genuine material: shield and lever handle made of stainless steel
- Standard version: stainless steel with black reader, optional version in black.
- Simple to install
- Lever handle direction (left/right) can be changed over on site in just a few steps
- Drill-free mounting thanks to variable fixing positions
- Weather-resistant
- Handle sets are compatible with all FSB lever handles with standard connection

• *Option:* Burglar-resistant version



EB1200

Wide shield, stainless steel and black



EB3200

Compact shield, stainless steel and black



Interested in finding out more?
Scan this QR code



EB1100

Narrow shield, stainless steel and black



EB3290

Profile cylinder rosette for compact shield, stainless steel and black



U-type lever handle,
suitable for EN 179



'Ulmer Klinke', suitable for EN 179



L-type lever handle



U-type lever handle, elbowed,
suitable for EN 179



'Ulmer Klinke', elbowed,
suitable for EN 179

Offline wall terminal

Wall terminals are used for access control on automatic doors, sliding doors, revolving doors and barrier systems.

- Flush-mounted and surface-mounted versions
- Can be used in housings from different switch ranges or door communication modules

Offline wall terminal



Interested in finding out more?
Scan this QR code

Furniture locks

RFID furniture locks replace standard cam cylinders in office cabinets, lockers and drawers and can easily be retrofitted.

Operating modes

- All open (for shared use)
- One open (use is linked to a specific locking medium)
- One open Plus ('One open' mode but with time restriction)

Furniture locks



Interested in finding out more?
Scan this QR code

Locking media

All CES locking media are compatible with the current MIFARE® and LEGIC standards.

- CES electronic key (in combination with mechanical locking systems)
- ID card in ISO format
- Key fob

Locking media



Interested in finding out more?
Scan this QR code

Mechanical locking systems

Not all access instances require an electronic locking solution. CES also offers mechanical master key systems. The CES electronic key lets you operate both electronic and mechanical locking components.





Systematically secure

With AccessOne you are choosing a modular access control system that will satisfy your needs for scalability, locking medium technology and security.

The possibilities are almost endless

AccessOne has a multitude of intelligent functions and enough system capacity to meet your every need:

- Unlimited number of master data records
- Up to 200,000 active media/ID cards
- Up to 100 clients
- Up to 16,000 access readers
- Up to 100,000 offline devices
- Compatible with OSS Standard Offline

State-of-the-art access media

AccessOne uses the latest RFID technologies, MIFARE® DESFire (BSI certified) or LEGIC advant, as its locking media. They can also be used together in the same installation.

All of the access media operate passively (so require no battery or power) and contactlessly.

System security

- 128-bit AES-encrypted data communication
- Uninterruptible power supply (UPS) can optionally be integrated
- Automatic software logout
- Logging of all activities and data changes
- Process monitoring with automatic restart if an error occurs

- Data protection ensured by four-eye principle and system of user rights
- Multi-Client function lets you manage system parts separately (additional licence required)
- Server redundancy (additional license required), hot standby

Door security

- Control over who is granted access, when and where
- Documentation of all access operations
- Intelligent authorisation concept
- Doors, door groups or authorisation profiles grouped into security zones
- Anti-passback control
- Monitoring of door open time with pre-alarm and alarm
- Silent alarm available
- Random security checks
- Access only for multiple persons
- Simple configuration using predefined door models e.g. for 2-factor authentication, security gate, lift control system, etc.
- ID card validities updated for offline devices
- Block lists for offline devices



C.Ed. Schulte GmbH Zylinderschlossfabrik
Friedrichstraße 243
42551 Velbert
Germany
+49 2051 204 0
info@ces.eu

www.ces.eu