SAFE-O-TRONIC® access
Electronic Identification and Locking System

Next level access

SAFE-O-TRONIC® LS Furniture Locking System
Next level

A wide range of flexible options for organization and use on cabinets and doors makes managing access even more efficient in any commercial property. You will be astonished how easily different user groups can be managed and how you can re-optimize your locking system at any time as requirements change.
access
SAFE-O-TRONIC®
Electronic Identification and Locking System

SAFE-O-TRONIC® access combines PIN code and RFID technology in a unique way setting new global standards in safeguarding and organizing cabinets, safe-deposit boxes, lockers and furniture. Door solutions can also be integrated. Thanks to the inclusion of emerging NFC technology, managing access is even possible using mobile phones.
access

**Keyless control**

Whether lockers, lock boxes, office or other storage furniture are involved, SAFE-O-TRONIC® access replaces customary cylinder and combination locks with electronic locking convenience, making time-consuming key management a thing of the past. Discover the organizational benefits and cost savings for your application. The appealing design adapts perfectly to your interior style.
Advanced cabinet locking device
With its sleek format and wireless design SAFE-O-TRONIC® access locks make the management of electronic locking systems easier and more convenient than ever.

For more than a decade SAFE-O-TRONIC® has been the leading brand for innovative electronic locking devices utilizing RFID technology for cabinets and safe-deposit boxes. Similar to the two successful brands SAFE-O-MAT® and SAFE-O-PIN®, SAFE-O-TRONIC® locks have proven their worth on many thousands of cabinet and room doors around the globe. With the SAFE-O-TRONIC® access product line, the market and innovation leader is setting new standards for intelligent locking devices.

Unique possibilities:

- **Simple retrofit**
  It is easy to fit cabinet doors that are prepared for standard cylinders with innovative RFID or PIN code technology.

- **Flexible management**
  Due to the unique combination of PIN code and contactless RFID technology you can easily organize different security levels and user groups (VIPs, club members, one-day guests or personnel).

- **Easy to operate**
  Just touch the key fields lightly (capacitive technology) to enter a personal PIN code and/or RFID data carriers (digital keys) are simply presented to the reader for identification.

- **Optimize cabinet capacity**
  Using convenient time controls, cabinets can be opened or blocked automatically protecting against unauthorized use.

- **Use a mobile phone for locking**
  Thanks to the new NFC technology, a mobile phone could turn into a locker key (on request).

- **Online organization of offline locking systems**
  Card-based SAFE-O-TRONIC® CyberNet network offers online convenience without wiring the cabinets.

- **Personalize**
  Whether it is cabinet numbering or mounting a logo, SAFE-O-TRONIC® access can accommodate your individual design requirements.

Best practice on a new scale
Individualization
Small identification plates, engraved by laser, with logo or cabinet numbering can clipped on simply.

Rotary knob for functional reliability
The rotary knob also provides a manual solution if the cabinet door jams.

Capacitive keypad for ease of use
Thanks to capacitive technology just lightly touching the key fields is enough to operate the lock via the PIN pad. The sealed keypad does not wear and also makes use in wet rooms and hygiene sensitive areas problem-free.

Convenient user guidance
via LED strip and by means of an acoustic signal

Intuitive operation
Simple operation due to use of familiar mobile phone symbols.

Intelligent battery management
Even if the battery is low, a cabinet can be opened – but not locked. Using a special tool, the battery can be changed quickly and easily on the outside of the compartment door.

Reader for RFID-technology
Simply hold the RFID card in front of the reader.
Simple replacement of standard cylinder cam locks

Very easy to fit and retrofit
Cabinet doors that have been prepared for customary standard cylinders cam locks can easily be equipped with SAFE-O-TRONIC® access without time-consuming refinishing.

Position – screw on - finished!
The electronic locking device that is fitted with a cam lock fits the customary standard punched hole and must only be fastened by an additional screw.

You are free to choose the mounting direction
SAFE-O-TRONIC® access can be fitted in four different mounting directions depending on your requirement and the type of cabinet.

Examples for different mounting directions
The slim SAFE-O-TRONIC® LS design locks can be used for right-hand and left-hand cabinet doors made from all customary materials and is also ideally suitable for specially shaped cabinet doors.

Example:
- Cabinet doors that curve outwards
- Frame and panel doors
- Right-hand and left-hand cabinet doors
Keyless Identification

**Keyless - via PIN code**
The personal PIN code can be entered easily by touching the key fields lightly. Programming of the locking system with master codes is also available as a time-saving option using a RFID card.

**Contactless - via RFID card**
It is enough to hold carrier digital key in front of the reader by using an RFID data carrier (e.g. card, bracelet or key ring). All RFID technologies in accordance with ISO 14443 A (e.g. MIFARE) are available.

**Trendsetting - via mobile phone**
Modern mobile phones with NFC technology can optionally be used as a “key”.

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### Overview of the identification possibilities

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<th>SAFE-O-TRONIC® access</th>
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<tr>
<td>Master</td>
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</tr>
<tr>
<td>PIN-Code</td>
<td>•</td>
</tr>
<tr>
<td>RFID-Card</td>
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</table>
SAFE-O-TRONIC®
LS 100
PIN code cabinet locking device

SAFE-O-TRONIC®
LS 200
PIN code cabinet locking device with RFID programming and RFID master code function

SAFE-O-TRONIC®
LS 300
RFID/NFC cabinet locking device

SAFE-O-TRONIC®
LS 400
Combined RFID/NFC and PIN code cabinet locking device
Put a time limit on access
Time limits can be applied to use and time zones can be set up quickly and easily using the integrated clock. For example, to protect against unwanted “squatters” you can program the locking devices so your cabinets open automatically at a time of your choice (e.g. automatic night opening) or are blocked for certain periods. In this way, you can always optimize your cabinet capacity.

Convenient monitoring
For monitoring purposes, the locking procedures can be accurately logged, printed, and evaluated.

Controlled opening
In addition to the conventional emergency key access scheme, locks can be programmed to require special keys to relock when they have been opened by staff. In this way, you can increase security for your guests and protect your staff against baseless suspicion.
KNOB ALTERNATIVES

**SAFE-O-TRONIC®**

with round rotary knob

Vacant/occupied displayed by green marking on the knob

**SAFE-O-TRONIC®**

with square rotary knob

Vacant/occupied displayed by green marking on the knob and horizontal or vertical position of the knob
SAFE-O-TRONIC® access offers a wealth of intelligent possibilities for efficient organization of the storage and access management in all commercial properties.

**Sport & leisure time**
SAFE-O-TRONIC® access provides a high degree of efficiency in the organization of lockers and safe-deposit systems in modern leisure facilities with their varied user types. Perfectly integrated into your guest management system, SAFE-O-TRONIC® access you can carry out customer-friendly and resource-saving schemes for storage PIN, RFID or NFC. Handle one-day guests or regular guests, event visitors or club members, associations or schools, children, juveniles, senior citizens or people with disabilities, with the same solution. The capacitive keypad facilitates use in wet rooms such as swimming pools and sauna areas.

**Clinics & hospitals**
Controlled staff access to changing room lockers and safe boxes for valuables, internal postal boxes, medicine and supply carts, pharmaceutical, laboratory and document cabinets is just as important in clinics and hospitals as the keyless patient locking of cabinets, safe boxes for valuables and clinic bedside tables. Due to its compact design SAFE-O-TRONIC® access fits on nearly every item of storage furniture. Identification systems for employees and patients can also be integrated.

**Industry & administration**
With SAFE-O-TRONIC® access time-consuming key management for staff lockers, filing and office cabinets and postal boxes in industrial and administration properties becomes a thing of the past. It is remarkably simple and cost-effective when used to replace standard cylinder cam locks. A PIN code or employee identification card is enough for controlled use that is limitable by time. Thus, in the case of multi-shift operations, one cabinet can be used by several employees during each day. This results in the highly efficient organization of the storage of work and street clothing (in areas sensitive to hygiene).

**Libraries & museums**
Bag lockers in libraries and museums provide important protection and prevent theft. In addition to keyless use (identification card for registered users or PIN code for guests) SAFE-O-TRONIC® access offers intelligent solutions to protect against locker “squatters” (by means of time-controlled opening or locking).

**Retail industry**
SAFE-O-TRONIC® access provides for time-saving, keyless use of bag lockers at retailers as protection against the theft of goods. At shopping centers, a convenient storage service for shopping bags caters for “unburdened” shopping pleasure and increases the length of stay, providing enhanced sales opportunities for the operator. When it comes to the organization of staff lockers SAFE-O-TRONIC® access helps to enlarge the sales area by reducing cabinet capacities.

**Schools & universities**
The student or pupil identification card has already taken on the key function in numerous universities, colleges and other educational establishments. SAFE-O-TRONIC® access provides storage management advantages.
APPLICATION AREAS

Sport & leisure time

Clinics & hospitals

Industry & administration

Schools & universities

Libraries & museums

Retail industry
The ideal solution for every demand

Arguments for the convenience-conscious
Operating comfort comes high on the list of priorities where SAFE-O-TRONIC® access is concerned:
- Vacant/occupied is displayed to help find a vacant cabinet quickly.
- Convenient rotary knob for easy accessibility for all users.
- Sensitive touch keys assure precise and reliable entry of the code.
- Contactless alarm sensor for fast identification via RFID card.
- Intuitive user guidance with visual and acoustic acknowledgement.
- Simple battery replacement on the outside of the cabinet door.
- Online convenience for offline RFID locking systems due to card-based network (SAFE-O-TRONIC® CyberNet).

Arguments for the security-conscious
- Due to the innovative combination of the PIN, RFID and NFC identification options, SAFE-O-TRONIC® access increases security for both users and operators. Security is also guaranteed following the loss of a card.
- A cut-off time provides protection against unauthorized attempts at opening.
- If „worst comes to the worst“ the locking audit trails can be read out for monitoring purposes and evaluated.
- In addition to investigating a theft, the monitoring of emergency openings protects users and operators from baseless suspicion.
- Service concepts tailored to your individual requirements optimize the operational security of your locking system in every project phase.

Arguments for the design-conscious
- The clean, intuitive and function-oriented design of the SAFE-O-TRONIC® access cabinet locking devices adapts perfectly to the style of most furniture.
- Multiple installation options support varied designs for locking and location.
- The design communicates high-quality and precise construction in keeping with our company philosophy that recognizes the demand for durable and reliable products.

Whether it is costs, convenience, security or design, SAFE-O-TRONIC® access qualifies as an excellent investment decision.
ARGUMENTS

For the cost-conscious

For the security-conscious

For the convenience-conscious

For the design-conscious
# Technical Data

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<td><strong>Operating modes</strong></td>
<td>Free choice of cabinet / fixed cabinet allocation</td>
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| **Indicators**        | 2 x LED green: authorized  
2 x LED red: not authorized |
| **Acoustic signal**   | Signal generator - beep |
| **Battery**           | Battery pack: 3 premium alkaline cells (AAA) |
| **Battery service life** | 3 years based on 30 lock cycles per day |
| **Temperature ranges** | Function: 0° bis +60°C  
Storage: -15° bis +60°C (battery service life limited at ≤ 0°C) |
| **Relative humidity** | 10 - 90% non-condensing |
| **Protection class**  | acc. to DIN EN 60529: IP 43 |
| **Weight**            | Approx. 300g / 10 oz |
| **Housing dimensions incl. rotary knob (H x W x D)** | 151mm x 38mm x 33mm  
5 15/16” x 1 1/2” x 1 5/16” |
| **Colour of housing frame** | Similar to RAL 9006 (white aluminium) |
| **Colour of control panel** | Black/white as an option |
| **Identification**    |
| PIN (min. 4 digits)   | •  
LS 100  
LS 200  
LS 300  
LS 400 |
| RFID (MIFARE, ISO 14443 A) | •  
LS 100  
LS 200  
LS 300  
LS 400 |
| NFC (on request)      | •  
LS 100  
LS 200  
LS 300  
LS 400 |
| **Accessories**       |
| SystemKey-Set         | •  
LS 100  
LS 200  
LS 300  
LS 400 |
| TestKey               | •  
LS 100  
LS 200  
LS 300  
LS 400 |
| USB Reader            | •  
LS 100  
LS 200  
LS 300  
LS 400 |
| Lock Manager Software | •  
LS 100  
LS 200  
LS 300  
LS 400 |
| Communicator          | •  
LS 100  
LS 200  
LS 300  
LS 400 |
| Offline terminals (for surface fitting or flush-mounted fitting) | •  
LS 100  
LS 200  
LS 300  
LS 400 |
| Info terminal (for displaying the cabinet number for „free choice of cabinet“) | •  
LS 100  
LS 200  
LS 300  
LS 400 |
| **Miscellaneous**     |
| Contactless alarm sensor | •  
LS 100  
LS 200  
LS 300  
LS 400 |
| Cut-off time against unauthorized attempts at opening | •  
LS 100  
LS 200  
LS 300  
LS 400 |
| Locking log memory for 450 entries | •  
LS 100  
LS 200  
LS 300  
LS 400 |
Adaption with locking cam

Adaption with espagnolette
*When using special mounting material
Adaption with espagnolette

Countersink for screw M4

Inner door

Countsink screw M4 x 20 or M4 x 25

Square spindle 7 mm

Door thickness 13 mm - 21 mm

Countersink screw M4 x 20 or M4 x 25

min. 19.5

Ø 4.5

105

27.8

Ø 7
Standard solution for cabinets and doors

SAFE-O-TRONIC® access offers you an integrated organization solution for your door and cabinet locking systems. This makes the control and administration of locking and access rights particularly easy and efficient.

Flexible organization of cabinets and doors
Integrated in an electronic door fitting, the same identification possibilities that are available for your cabinet systems allowing for flexibility in combination (PIN code, RFID and NFC) are available to you for the organization of your door locking systems.

Efficient system management
You can program and manage your cabinet and door locking systems conveniently using standard software. Even in the case of organizational changes you always have all the current relevant data for your locking systems under control which saves costs and avoids time-consuming reconciliations and multiple entries.

Simple integration into data systems
Thanks to its open system architecture and wide range of components SAFE-O-TRONIC® access can always integrate of your cabinet and door locking systems with other data systems (access control, staff time reporting, cashless accounting or guest management).
The SAFE-O-TRONIC® access cabinet locking devices stand out due to simple handling, a high degree of operating safety and user friendliness, as well as a minimum amount of maintenance. We are also able to offer you a comprehensive range of services to plan and optimize your system capabilities during every phase of your project. Our competent service team would be delighted to consult and develop your custom application. Here is an overview of our range of services offered:

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Door locking systems

Furniture locking systems

Terminals
Next level access