

Annex no. 5

Functional Description / User Manual

SAFE-O-TRONIC® *access*

Electronic Identification and Locking System

DS 200, DS 300, DS 400

MANUAL



Note

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1. Description

Electronic PIN-Code / RFID door locking system, with MIFARE-technology and other RFID-technologies according ISO 14443 A, with wide possibilities to individualize e. g. room, labelling or logo by exchangeable cover plates. Adaptable for right and left handed doors. The lock will be released after entering a 4-6 digit code or using the RFID data medium.

- Touchless read and write of the RFID data medium
- Time zone to set up limited locking authorizations
- Automatically change of authorisation by using a new RFID data medium in case of theft of the previous RFID data medium
- Automatically daily organisation of limited authorisations in combination with online terminals (CyberSpots)
- Locking authorisations can be changed at any time
- Quick programming of the lock with help of RFID data medium or communicator
- Individual release and blocking of RFID data medium with 254 locking sequences each
- RFID data medium with MasterKey-Function to open and close
- Emergency Opening with help of RFID data medium in case the user has lost his RFID data medium
- RFID data medium with MasterKey-Function, with limited locking authorizations for the whole locking system and for defined areas within a locking system
- Audit trail for 500 operations
- Automatic wake-up of the electronic by approaching with RFID data medium
- Easy integration in existing systems (e.g. RFID door locking systems, guest management systems, parking, wellness etc.) or other data systems (time and attendant systems, member software, access control, hotel front office systems or cashless payment)
- Battery at the outside of the locker door
- Battery life time: approx. 3 years (by 30 cycles per day)
- Intelligent battery management system: permanent battery control ensures to open the locker door at any time
- robust metal housing
- Certified security against break-up
- Suitable for all kind of door materials
- No cabling required
- Suitable for wet areas, protected against spray water (IP 43)

2. Technical data

• Protection class according to DIN EN 60529	IP 43
• Weight	approx. 750 g
• Temperature range in use	0 °C to 60 °C
• Temperature range in storage	-15 °C to 60 °C
• Relative air humidity	10 % (to) 90 % (without condensation)
• Battery	Battery pack: 3 x alkaline cells (AAA)
• Battery life	Approx. 3 years at 30 lockings per
• Transponder type used	Mifare, ISO 14443 A
• Buzzer	integrated
• Signal alerts	2 red LED 2 green LED
• Colour of housing frame	stainless steel
• Colour of the control panel	Black
• Dimensions (W x H x D)	204 x 55 x 21 mm

3. Approval

Radio - Europa - USA	EN 300 330 FCC 47 CFR Part 15
EMC	EN 300 489
Safety - Low-Voltage - Human Exposure	EN 60950 EN 50364
Waste and Hazardous Substances	RoHS - 2002/95/EC WEEE - 2002/96/EC

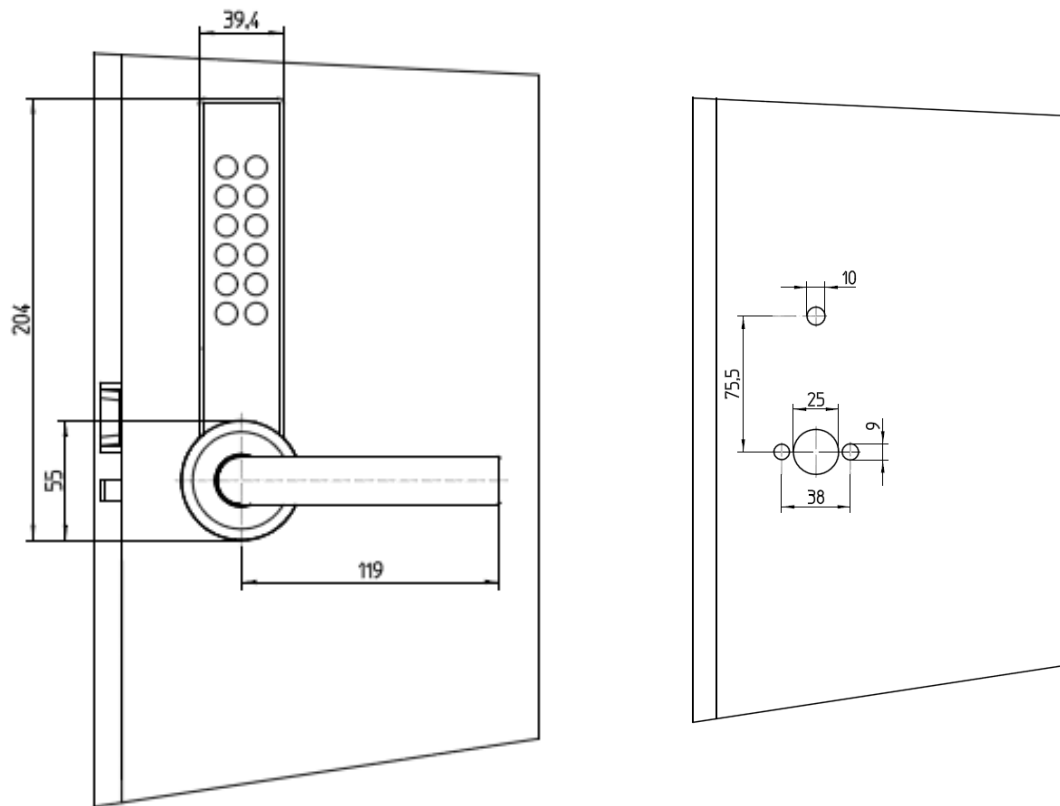
4. Declaration of Conformity for USA

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

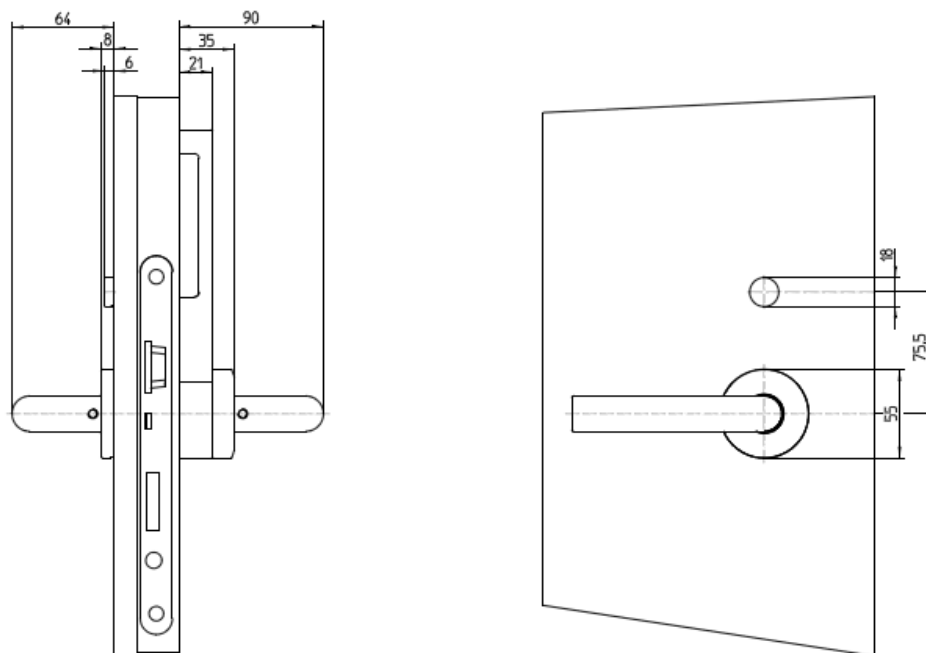
- (1) This device may not cause harmful interference, and
- (2) this device must accept any interference received, including interference that may cause undesired operation. Usually this is followed by the following FCC caution:

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

5. Dimensions



Housing dimensions



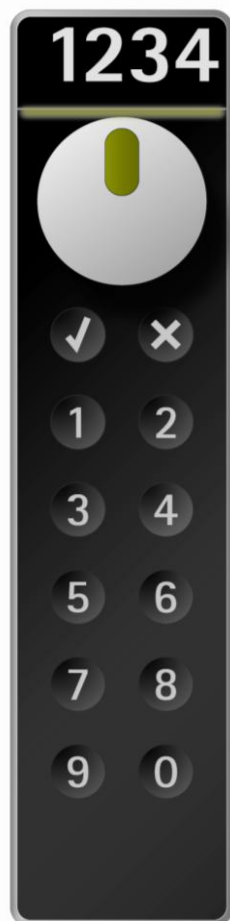
Fixing dimensions

SAFE-O-TRONIC® *access*

Electronic Identification and Locking System

LS100, LS 200, LS 300, LS 400

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1. Description

Electronic PIN-Code / RFID locking system for lockers, safe-deposit boxes and functional furniture, with MIFARE-technology and other RFID-technologies according ISO 14443 A, round rotary knob to operate the locking cam and wide possibilities to individualize e. g. locker numbers, writing or logo by exchangeable plates. Suitable for locker doors, which are originally prepared for cylinder lever locks. Adaptable for right and left handed locker doors in four different mounting directions. The lock will be released after entering a 4-6 digit code or using the RFID data medium.

- Operation mode: „free locker mode“ and „fixed locker mode“
- Touchless read and write of the RFID data medium
- Time zone to set up limited locking authorizations
- Automatically change of authorisation by using a new RFID data medium in case of theft of the previous RFID data medium
- Automatically daily organisation of limited authorisations in combination with online terminals (CyberSpots)
- Set up for automatically blocking in case of exceeding the programmed time
- Set up for automatically opening in case of exceeding the programmed time
- Locking authorisations can be changed at any time
- Quick programming of the lock with help of RFID data medium or communicator
- Individual release and blocking of RFID data medium with 254 locking sequences each
- RFID data medium with MasterKey-Function to open and close
- Emergency Opening (only opening) with help of RFID data medium in case the user has lost his RFID data medium
- RFID data medium with MasterKey-Function, with limited locking authorizations for the whole locking system and for defined areas within a locking system
- Audit trail for 500 operations
- Automatic wake-up of the electronic by approaching with RFID data medium
- Manual possibility to unlock ensures functional safety also in case of jammed locker doors
- Convenient user guidance by Free- / -- Occupied display as well as optical and acoustic signal
- Easy integration in existing systems (e.g. RFID door locking systems, guest management systems, parking, wellness etc.) or other data systems (time and attendant systems, member software, access control, hotel front office systems or cashless payment)
- Battery at the outside of the locker door
- Battery life time: approx. 3 years (by 30 cycles per day)
- Intelligent battery management system: permanent battery control ensures to open the locker door at any time
- robust metal housing
- Certified security against break-up
- Suitable for all kind of door materials
- No cabling required
- Suitable for wet areas, protected against spray water (IP 43)

2. Technical data

• Protection class according to DIN EN 60529	IP 43
• Weight	approx. 300 g
• Temperature range	
in use	0 °C to 60 °C
in storage	-15 °C to 60 °C
• Relative air humidity	10 % (to) 90 % (without condensation)
• Battery	Battery pack: 3 x alkaline cells (AAA)
• Battery life	Approx. 3 years at 30 lockings per
• Transponder type used	Mifare, ISO 14443 A
• Buzzer	integrated
• Signal alerts	2 red LED 2 green LED
• Colour of housing frame	Similar to RAL 9006 (white aluminium)
• Colour of the control panel	Black
• Dimensions (W x H x D)	151 x 38 x 33 mm

3. Approval

Radio - Europa - USA	EN 300 330 FCC 47 CFR Part 15
EMC	EN 300 489
Safety - Low-Voltage - Human Exposure	EN 60950 EN 50364
Waste and Hazardous Substances	RoHS - 2002/95/EC WEEE - 2002/96/EC

4. Declaration of Conformity for USA

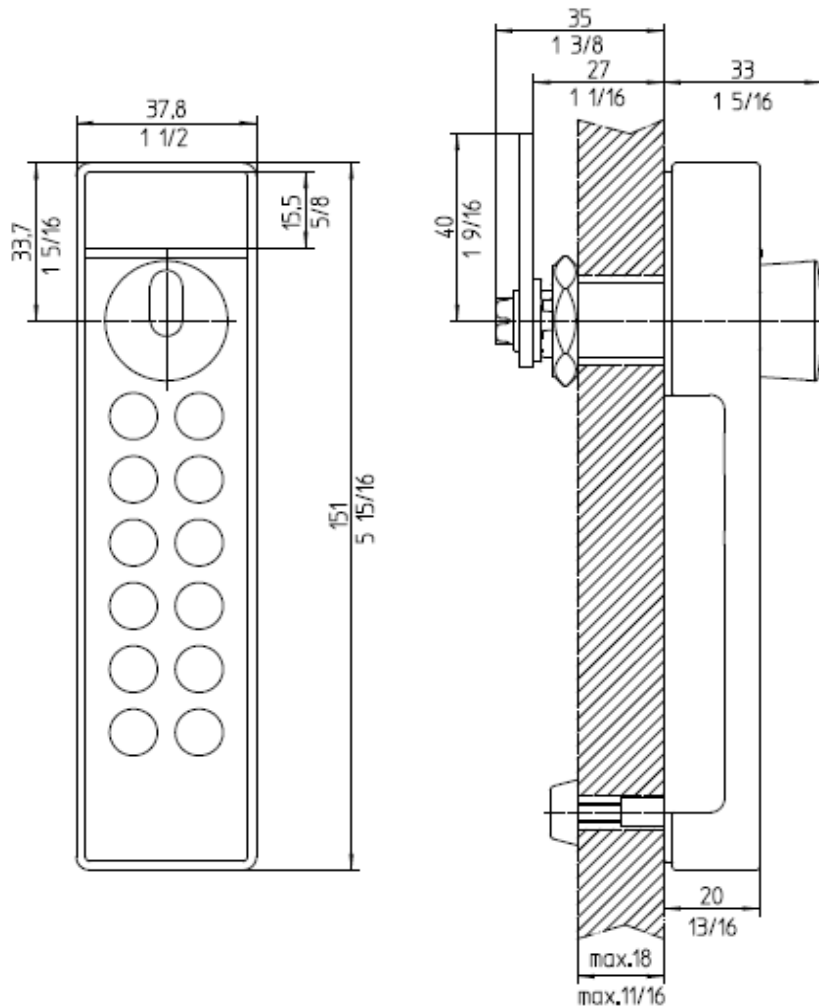
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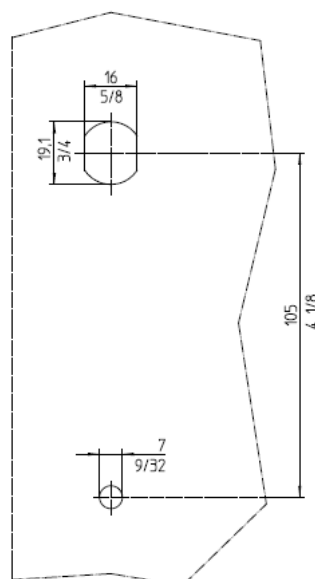
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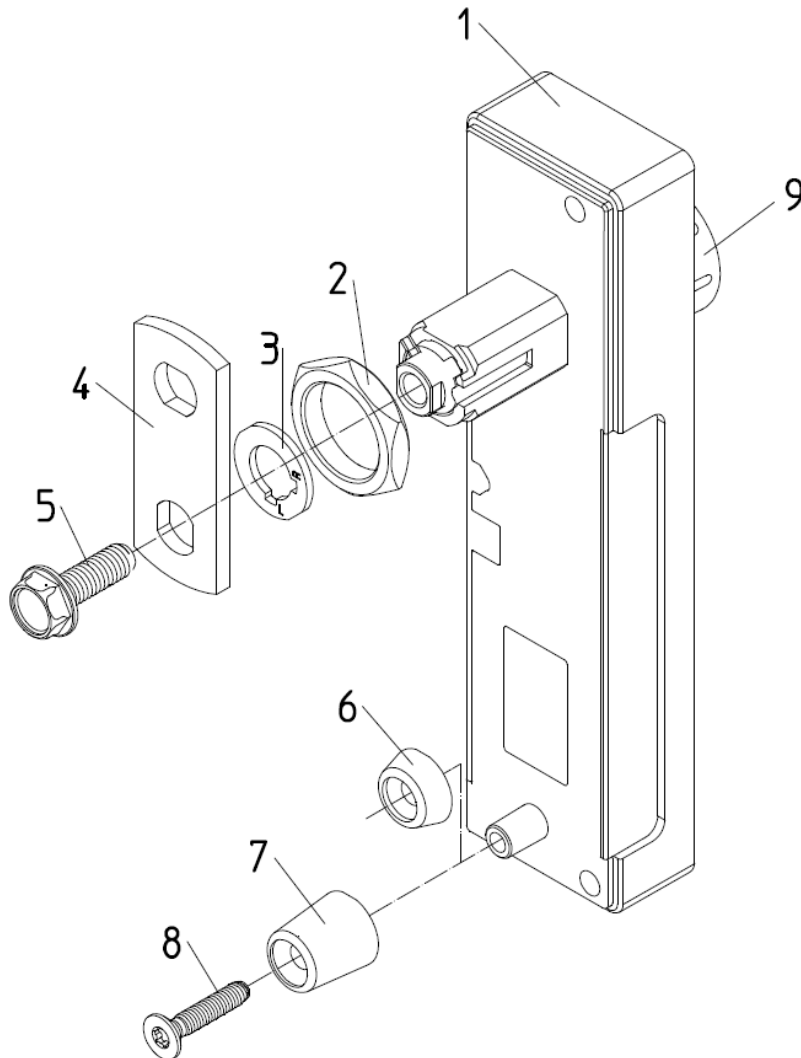
5. Dimensions



Preparatio



6. System Delivery Contents



1 Lock

2 Nut for mounting the lock on the door

3 Grommet for setting the rotational direction of the rotary knob in order to lock

4 Locking lever (a cropped or hook-shaped locking lever can also be used depending on the properties and condition of the cabinet)

5 Fastening screw for locking lever

6 Bush for fastening the lock to the door for door thicknesses of **10mm to 18mm**

7 Bush for fastening the lock to the door for door thicknesses of **1mm to 9mm**

8 Screw for fastening the lock to the door

9 Rotary knob