



INSTALLATION

SAFE-O-TRONIC

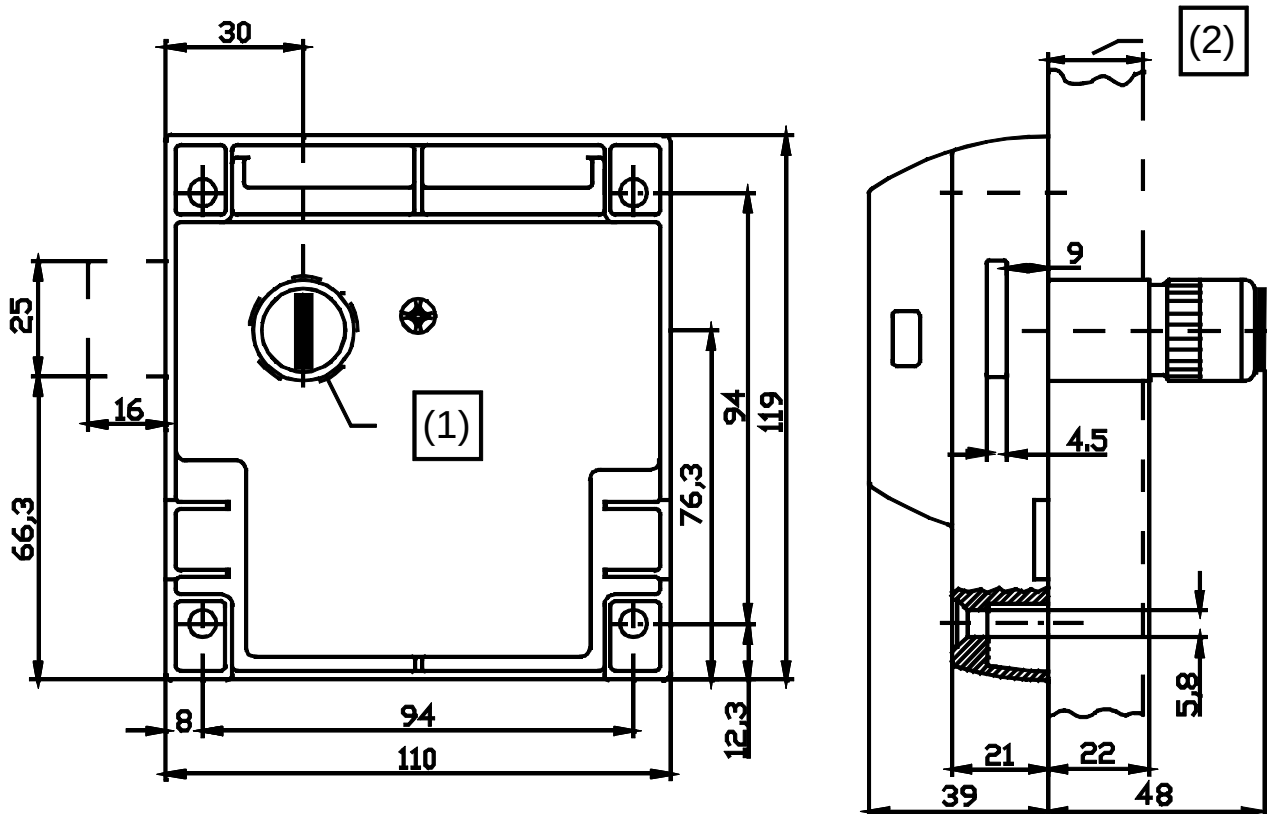


Fig. 1: SAFE-O-TRONIC layout right (layout left = mirror image)

- (1) Recommended door hole diameter 23 mm
- (2) max. door thickness 21.5 mm

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1. Safety and warning notices – read before commissioning

- The device may only be used for the purpose intended by the manufacturer.
- The operating instructions have to be handed out to every user and kept in an easily accessible place.
- Unacceptable changes as well as the use of spare parts and special features which are not sold or recommended by the manufacturer, may cause fire, electric shocks and injuries. Therefore, such measures lead to nonliability of the manufacturer and a lapse of all warranty claims.
- The appliance is subject to the manufacturer's guarantee regulations in the version valid at the time of purchase. We cannot be held liable for improper or faulty manual or automatic adjustment of parameters resp. improper use of the appliance.
- Repair work may only be carried out by the manufacturer.
- The user has to make sure that the appliance is installed and operated according to the technical rules of the country of installation as well as other regional regulations.

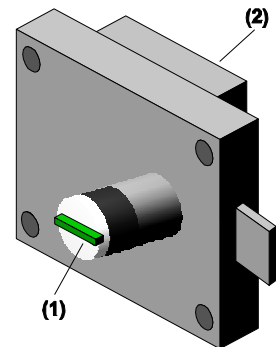
2. Basic functions of the *SAFE-O-TRONIC*

(1) Rotary knob:

With integrated LED display (red / green) and antenna for exchange between *SAFE-O-TRONIC* and megaKey.

(2) Battery compartment:

Use special screwdriver to open (Type: ID MS.SSD-A).



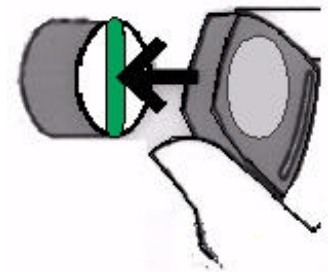
2.1. Locking the *SAFE-O-TRONIC*

1. Push rotary knob

SAFE-O-TRONIC is activated for 8 sec. (no indicator)

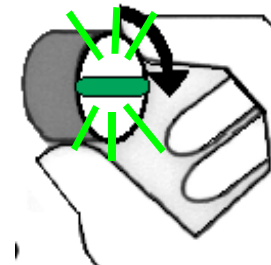
2. Present megaKey:

The green LED flashes for a max. of 8 sec. As long as the green LED is flashing, the rotary knob can be turned 90° and the *SAFE-O-TRONIC* locked.



3. Rotate knob 90°

Turning the knob locks the *SAFE-O-TRONIC*, which acknowledges this by turning on the green LED for several seconds.



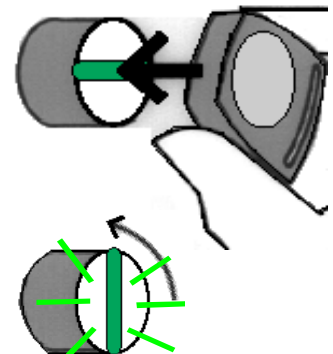
2.2. Unlocking the *SAFE-O-TRONIC*

1. Push rotary knob

SAFE-O-TRONIC is activated for 8 sec. (no indicator)

2. Present megaKey:

As soon as a valid megaKey is recognized by the *SAFE-O-TRONIC* the green LED begins to flash and the rotary knob turns itself back to „unlocked“ position.



3. LED indicators

 (LED flashes green)	OK
• Action was successfully completed (e.g. <i>SAFE-O-TRONIC</i> is locked or unlocked)	

 (LED flashes red)	megaKey not authorized
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Possible cause:

- Handling error (actuation sequence incorrect).
- Wrong *SAFE-O-TRONIC* (megaKey is not assigned to this *SAFE-O-TRONIC* or has already locked another *SAFE-O-TRONIC*).
- Group number of *SAFE-O-TRONIC* and megaKey or MasterKey are different.
- megaKey does not belong to the system (wrong System IDs).
- Data on megaKey are incorrect or corrupt.

Possible remedies:

- ⇒ Retry.
- ⇒ Display the *megalock* number of the megaKey on the Infoterminal.
- ⇒ Initialize megaKey for system.
- ⇒ Reinitialize megaKey.

 ↔  (LED flashes alternately red and green)	Battery alarm
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Possible cause:

- Battery voltage on the *SAFE-O-TRONIC* is too low (*megalock* can't be locked).

Remedies:

- ⇒ Block *SAFE-O-TRONIC* using MasterKey II.
- ⇒ **Replace battery immediately !**

 &  (LED flashes red/green at same time) <i>SAFE-O-TRONIC</i> is blocked / wrong megaKey	
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Possible cause:

- *SAFE-O-TRONIC* was unlocked (locked) with MasterKey I or blocked by MasterKey II.
- MasterKey Generation of MasterKey I or MasterKey II is wrong (old MasterKey).
- Operating mode of *SAFE-O-TRONIC* and megaKey do not agree
 - *SAFE-O-TRONIC* for free cabinet select with fixed-megaKey or multi-megaKey
 - *SAFE-O-TRONIC* for fixed cabinet assignment with free-megaKey or multi-megaKey
 - *SAFE-O-TRONIC* in multi-user mode and free-megaKey or fixed-megaKey
- *SAFE-O-TRONIC* is not configured.

Possible remedies:

- ⇒ Use MasterKey II to enable *SAFE-O-TRONIC* .
- ⇒ Check megaKey.
- ⇒ Use SetupKey to configure *SAFE-O-TRONIC* .

 &  (LEDs constant on red and green)	internal fault
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Possible cause:

- *SAFE-O-TRONIC* is defective.

Remedies:

1. Replace *SAFE-O-TRONIC* .

4. Installation

Installing:

The electronic cabinet lock *SAFE-O-TRONIC* is attached on the inside of a cabinet door using four screws.

Testing:

After installing, check the function of the *SAFE-O-TRONIC* using the TestKey.

Applying the reference plate:

Stick the user reference plate only to a flat, grease- and dust-free surface.

Configuring:

Once the installation work is complete and all the locks tested, they are configured using the SetupKey.

5. Commissioning

5.1. Function testing with the "TestKey"

Lock *SAFE-O-TRONIC* :

1. Activate *SAFE-O-TRONIC* (push rotary knob)
2. Hold TestKey directly in front of the rotary knob.
3. When the green LED flashes, turn knob 90°.

Unlock the *SAFE-O-TRONIC* :

1. Activate *SAFE-O-TRONIC* (push rotary knob)
- 2 Hold TestKey directly in front of the rotary knob.
3. *SAFE-O-TRONIC* unlocks itself.

NOTE:

The TestKey is used to test the function of factory-new or non-configured *SAFE-O-TRONIC*. Once the SetupKey has been used to configure the *SAFE-O-TRONIC* for the system, the *SAFE-O-TRONIC* can no longer be locked or unlocked using the TestKey!

5.2. Configuring the SAFE-O-TRONIC with the "SetupKey"

The SetupKey is used to configure the System-ID, the cabinet number, the operating mode and the group number in the SAFE-O-TRONIC. Only then can the SAFE-O-TRONIC be used in the system.

An already configured SAFE-O-TRONIC will no longer accept the SetupKey. To change the configuration of a SAFE-O-TRONIC, the latter must first have been cleared using a valid ResetKey.

CAUTION:

Use only a SetupKey having the correct Group No. and System-ID.

Sequence:

1. Set the parameters on *megalock Admin* or on the *megalock Programmer* and program them into the SetupKey.

Set the following data:

- Next SAFE-O-TRONIC number to be programmed (cabinet number)
- Operating mode (free cabinet select / fixed cabinet assignment / multi-user mode)
- Group No. to which the SAFE-O-TRONIC is to be assigned.

2. Go to the first SAFE-O-TRONIC with the SetupKey, waken up the lock and configure it by presenting the SetupKey.

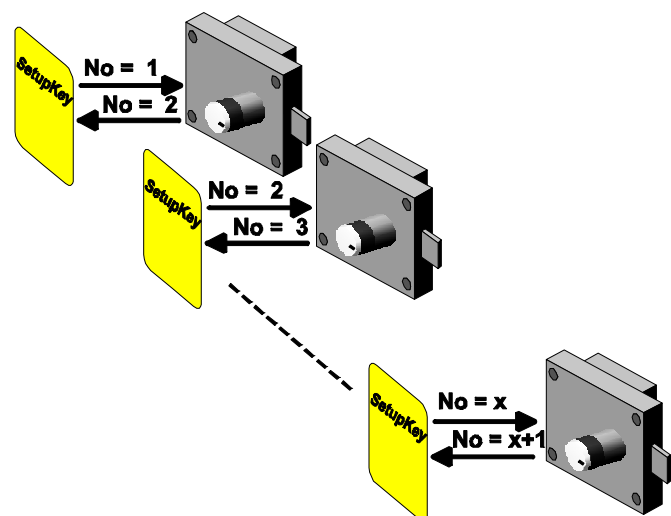
The SetupKey must be held in front of the rotary knob until the SAFE-O-TRONIC acknowledges this by causing the green LED to flash.

3. Now the next SAFE-O-TRONIC can be configured with a sequential cabinet number.

Assigning the *megalock* number is done according to the same principle.

Once the SAFE-O-TRONIC has uploaded the number, it increments the number on the SetupKey by +1.

Now the number for the next SAFE-O-TRONIC is stored on the SetupKey, and as many *megalocks* as desired can be initialized with a sequential number without having to first reprogram the SetupKey.



NOTE:

If a gap in the sequential numbering of the SAFE-O-TRONICs is desired, such as at the end of a row of cabinets, the new cabinet number will have to be programmed into the SetupKey.

5.3. Resetting a *SAFE-O-TRONIC* with the "ResetKey"

Clearing a *SAFE-O-TRONIC* may be necessary for example if a mistake was made in initializing (e.g. wrong cabinet number) or if a *SAFE-O-TRONIC* needs to have a different configuration.

NOTE

The ResetKey is only accepted by the *SAFE-O-TRONIC* if it is unlocked!

The *megalock* is reset in the following way:

1. Activate *megalock* (push rotary knob)
2. You have 8 seconds to hold the ResetKey in front of the rotary knob in the sensing zone of the *SAFE-O-TRONIC* antenna.

Once the parameters in the *SAFE-O-TRONIC* have been cleared, the *SAFE-O-TRONIC* acknowledges the process by causing the green LED to come on for a brief time followed by simultaneous flashing of the green and red LED.

3. Now the *SAFE-O-TRONIC* can be reconfigured with a SetupKey (see: 5.2. Configuring the *SAFE-O-TRONIC* with the "SetupKey").

5.4. Replacing a *SAFE-O-TRONIC*

If it becomes necessary to replace a *SAFE-O-TRONIC*, the new *SAFE-O-TRONIC* must first:

1. be configured with the *megalock* number and other parameters using the SetupKey (see: 5.2. Configuring the *SAFE-O-TRONIC* with the "SetupKey") and
2. be actuated with a MasterKey to ensure that the new *SAFE-O-TRONIC* accepts only MasterKeys having the currently valid MasterKey-Generation.

6. Battery

The battery in the *SAFE-O-TRONIC* is designed for at least 40 actuations daily within a period of 3 years. The time when the battery needs to be replaced will depend however on the self-discharging of the battery and by climatic effects, especially cold temperatures.

To summarize, the time to replace the battery depends on the following factors:

1. the number of actuations,
2. how long the battery has been installed, and
3. the ambient temperature in which the *SAFE-O-TRONIC* is operated.

6.1. Battery replacement

The battery compartment integrated into the lock body is only accessible when the cabinet is opened, and can only be opened using a special screwdriver (Type: ID ML.SSD-A).

- After opening the battery compartment, disconnect the discharged battery pack at the connector and plug in the new battery pack.
- Once the new battery pack has been installed, the *SAFE-O-TRONIC* is ready for immediate use.
- **The discharged battery pack must be properly disposed of according to prevailing environmental regulations!**

NOTE:

Use only batteries recommended by the manufacturer (Type: ID ML.BP-A). The use of non-approved batteries may cause malfunctions and result in damage to the SAFE-O-TRONIC .

7. Service / Maintenance

The mechanical parts of the *SAFE-O-TRONIC* are maintenance-free. Under no circumstances use mineral oil based lubricants or greases.

Clean only using non-sticky, non-residue cleaners and disinfectants. Do not use harsh solvents, acids or lye for cleaning.

8. Technical Data

- **Dimensions (W x H x D):** 110 x 119 x 84 mm
- **Weight:** approx. 350 g (incl. battery)
- **Enclosure rating** IP 43
- **Temperature range:**
 - Operating: 0 °C to 60 °C
 - Storage: -25 °C to 60 °C
- **Relative humidity**
 - Function and storage: 10 % to 90 % (non-condensing)
- **Battery life expectancy**
 - 3 years assuming 40 actuations daily
 - Unlocking is possible for 6 weeks after reaching battery alarm level
- **Compatible Transponder model** HITAG
Transponder must be able to support "Advanced Mode"
- **Indicators:**
 - 1 x LED red
 - 1 x LED green

9. Approval

9.1. Europe (CE)

When properly used this radio equipment conforms to the basic requirements of Article 3 and the other relevant provisions of the R&TTE Directive 1999/5/EC of March 99.



9.2. USA (FCC)

FCC ID: Q3ISOT01

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.

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