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GB

M410 Keypad lock
(M410 TA03)

Operating Instructions

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BDA M410 TA03 / 2019-09 (GB)

GENERAL SYSTEM DESCRIPTION

The M410 TA03 (keypad) locking system is a furniture lock with a motor-driven locking bolt intended for use in the home and office. This manual gives you information in order to install and operate the locking system correctly. Keep the operating instructions in an easily accessible place. Using the locking system in applications for which it is not intended may result in irreparable damage to it and render any claims null and void.

Wording and graphics have been prepared for you with care. However, no liability will be assumed for any mistakes that may have occurred. The scope of items included by the manufacturer in the system as well as technical specifications are subject to change without notice.

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OPERATING DESCRIPTION

The M410 TA03 electronic locking system provides you with a convenient means of locking and unlocking your furniture electronically. The system has two operating modes.

Operating mode 1: Free Code
The user selects his own individual code (3 to 10 digits) for opening and closing the lock. In this mode, the code memory is deleted again as soon as the user opens his cabinet. This means that the next user can select his new individual code.

Operating mode 2: Fixed Code
The user can only open and close the lock with a fixed preset code (3 to 10 digits).

IMPORTANT: Only install the locking system when it is unlocked. For the correct mechanical connection of the locking system to your furniture, please refer to the installation instructions of your furniture manufacturer. Perform all programming operations and functional checks when the cabinet door is open. In the event of a malfunction, you thus have access to all system components.

FCC Comliance Statemant

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!
Changes or modifications not expressly approved by the party responsible for compliance could void the user‘s authority to operate the equipment.

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are deåsigned to provide reasonable protection against harmful interference in a residential installation.
This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:
- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

SAFETY PRECAUTIONS

- Pack the battery to transport the lock in such a way, that no short circuit can occur (explosion and fire hazard).
- On changing the battery, ensure correct battery polarity and position.
- Dispose of spent batteries and packaging material in the proper manner (see page 20, „Disposal“)..
- Do not heat batteries, take them apart or short-circuit them.
- Never throw batteries into open fires.
- The battery must not be charged.
- Keep the battery and packaging material out of children’s reach.
- Any person swallowing batteries must seek immediate medical advice.
- Damaged or leaking batteries may cause acid burns and/or poisoning.

CARE & MAINTENANCE

- Protect all system components from moisture.
- Clean the locking system with a clean, soft, damp cloth only.
- Do not use any aggressive detergents containing abrasives or solvents. Glass cleaners, thinners, alcohol, benzene or liquids containing ammonia are not suitable for cleaning purposes.
- Treating any of the electronic and mechanical components improperly or in any way other than described in this user manual may lead to malfunctions.
- Replace the battery in good time, but at the latest when the visual battery warning on the keypad lights up.

TECHNICAL SPECIFICATIONS

Power supply	Battery type: 1 x CR123A
Operating temperature	-5 °C to +60 °C
Storage temparature	-25 °C to +70 °C
Type designation	Lock M410: SLI2CBM6 Keypad TA03: MAIIC3M6

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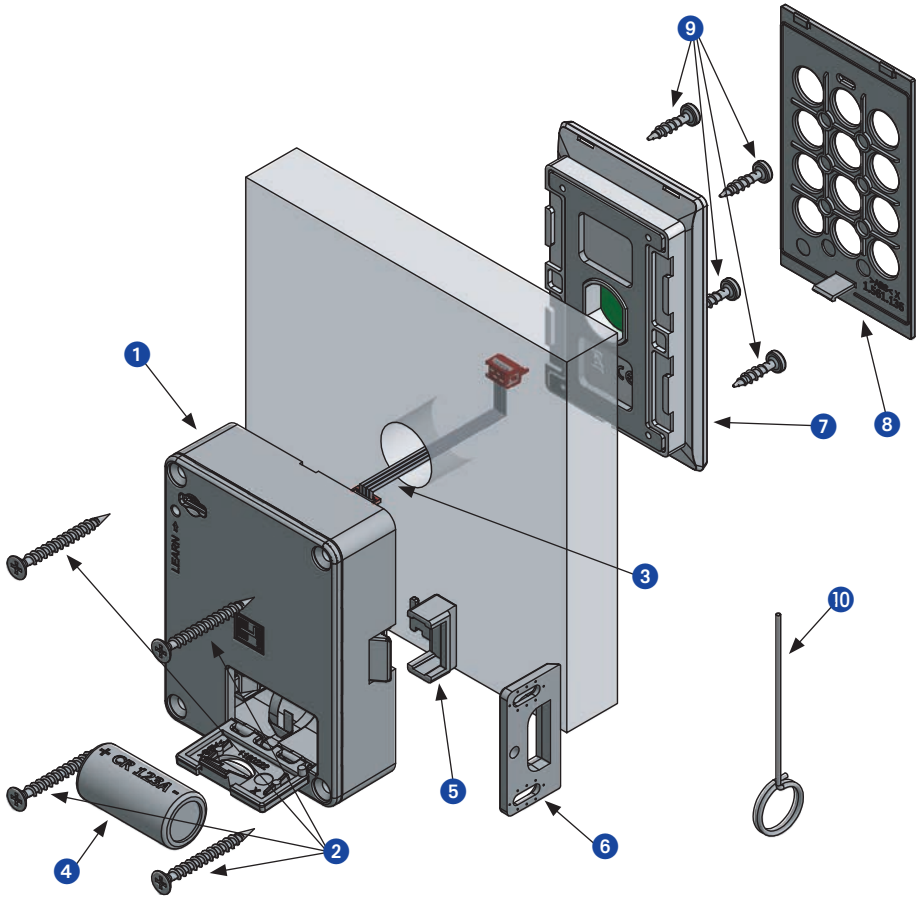
SYSTEM COMPONENTS & PACKAGE CONTENTS

Please note that these operating instructions apply to different product variants. The packaging content therefore depends on the respective product variant. The product variants and installation recommendations shown here are intended for furniture with a wood thickness of 19 mm. For different wood thicknesses and materials, the screws for fixing the lock and the keypad must be adjusted.

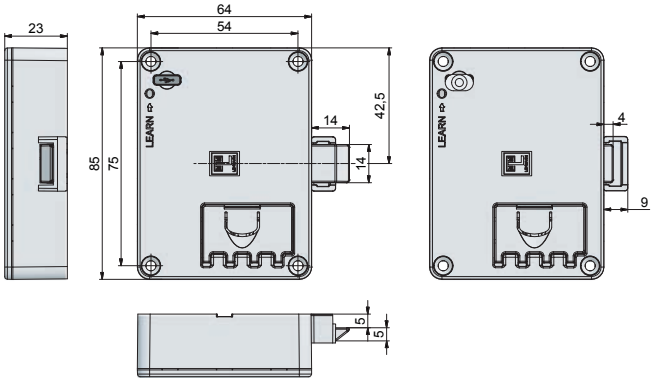


Components:

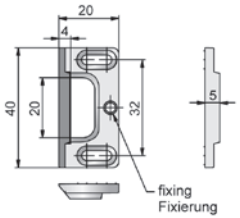
1. Lock M410
2. 4 x pan-head screw (3,5 x 35 mm)
3. Cable
4. Battery (CR123A)
5. Bolt protector
   (not in version with fixed bolt)
6. Striker plate 4005
7. Keypad TA03
8. Cover of keypad TA03
9. 4 x flat headed screw (3,0 x 15 mm)
10. Pin

DIMENSIONS

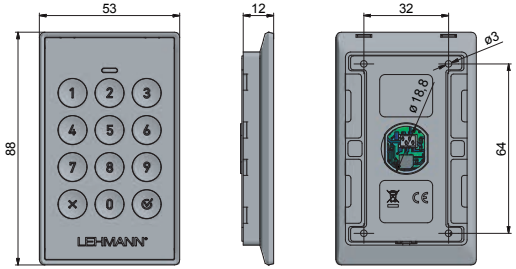
Lock M410



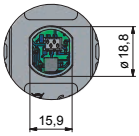
Striker plate 4005



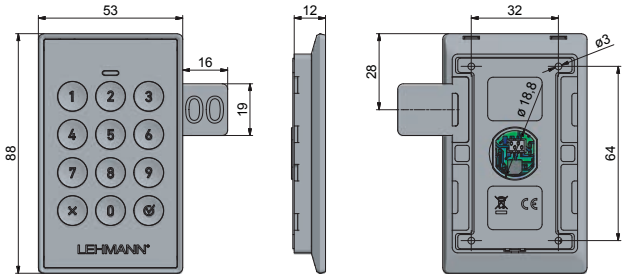
Keypad TA03 without labeling clip



For Ø19 x 16



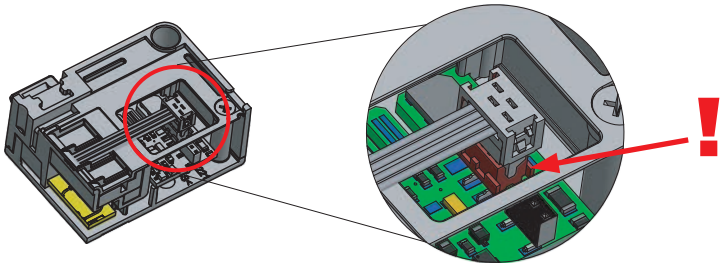
Keypad TA03 with optional labeling clip



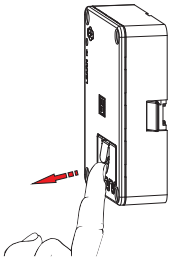
All figures in mm.

GETTING STARTED & CHANGING BATTERY

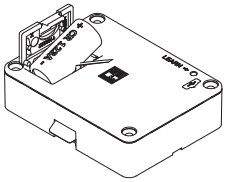
Make sure that the lock and keypad are correctly connected to each other by the connection cable. Pay attention to the correct connection of the plugs and sockets.



IMPORTANT: Only use one CR123A primary battery!

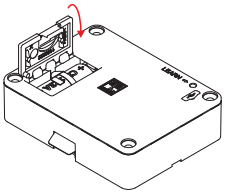


Open the battery compartment as shown above.



Insert the battery first with the minus pole as shown above. The battery is placed on the battery removal tape so that the tape tip protrudes.

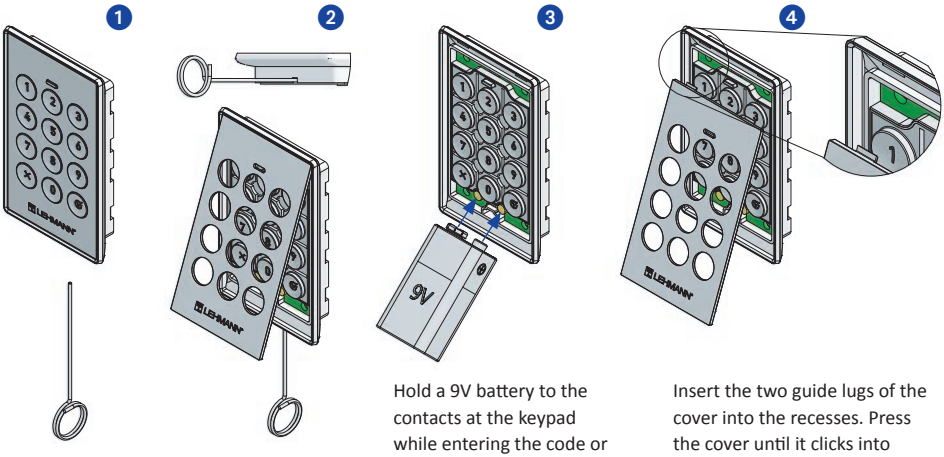
To remove the battery, pull on the battery removal tape.



Close the battery compartment with the tape inserted.

EMERGENCY POWER SUPPLY

The locking system has the option of an emergency power supply in case of an empty battery.



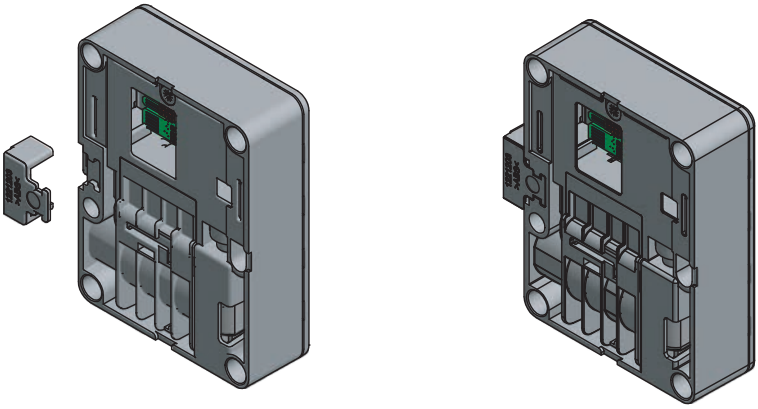
Insert the pin into the hole on the bottom side and press until the cover is released. Then lift up the cover.

Hold a 9V battery to the contacts at the keypad while entering the code or emergency opening code for opening the lock. Pay attention to the correct polarity of battery!

Insert the two guide lugs of the cover into the recesses. Press the cover until it clicks into place.

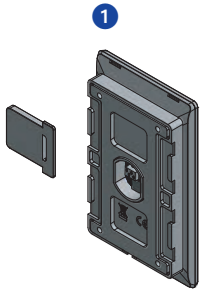
INSTALLING THE BOLT PROTECTOR (NOT IN VERSION WITH FIXED BOLT)

The bolt protector provided with the M410 can be used for additional protection of the locking system against external mechanical manipulation. Depending on the purpose the lock M410 is being used for and where it is installed, we recommend fitting this additional, easy-to-mount protector.

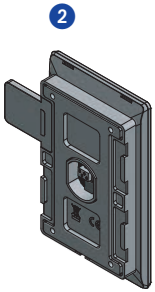


INSTALLING THE OPTIONAL LABELING CLIP

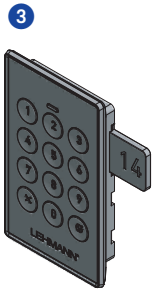
An individual labeling clip can optionally be attached to the keypad unit.



Attach the labeling clip from the rear at the desired position.



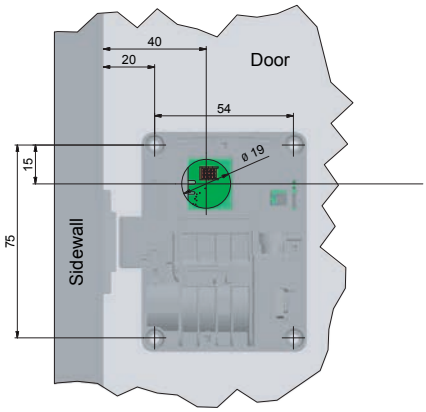
Labeling clip can be attached at four positions:
2 x right side (top / bottom)
2 x left side (top / bottom)



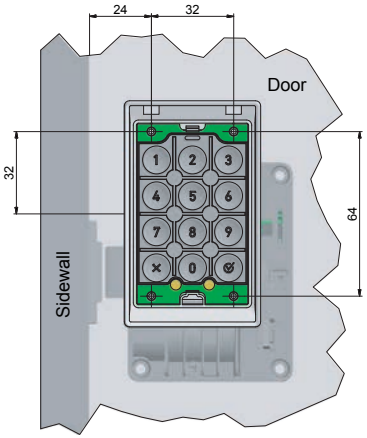
Mount the keypad together with the labeling clip.

MOUNTING THE LOCKING SYSTEM

Mounting position of lock M410



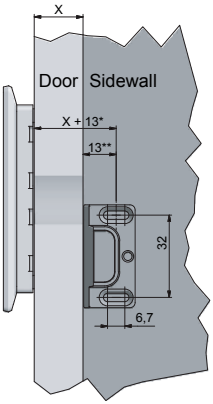
Mounting position of keypad TA03

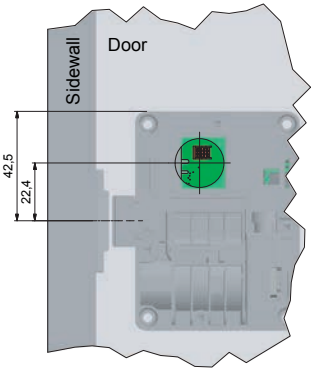


Exemplary for a right door.

All figures in mm.

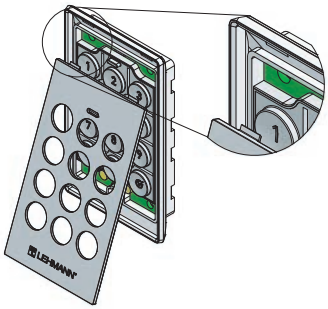
Mounting position of striker plate 4005

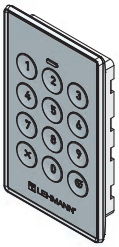




Inlay doors *
Overlay doors **
X = Door thickness

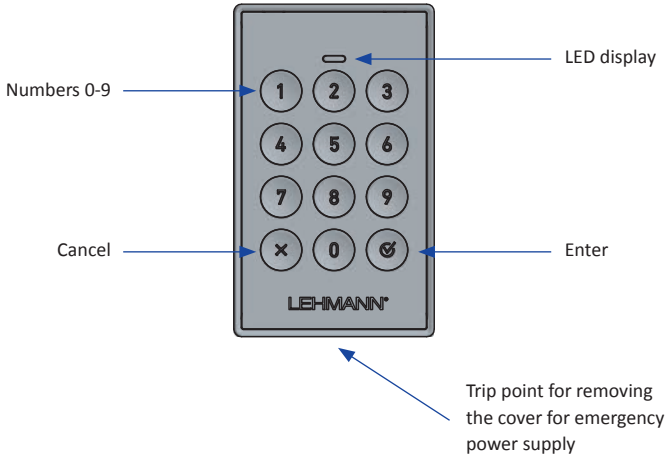
In order to attach the cover to the already mounted keypad unit TA03, insert the two guide lugs of the cover into the recesses and press the cover until it clicks into place.





All figures in mm.

STRUCTURE OF THE KEYPAD TA03



You can cancel any operation at any time by pressing the cancel button (X). When the cancel button is pressed, there is one short red flashing. Any input already made is deleted.

During operation, make sure that each key input is acknowledged by a light signal at the LED display! If a light signal does not appear, the key input was not accepted.

The optical signals are differentiated in colour and in duration as shown below:

- Short flashing
- Long flashing
- Continuous light

Note:

If no further key input is made during the entry of a code or during a programming operation, the already made entries will be discarded after 30 seconds. The old code remains valid.

After the third entry of an invalid code, the option to enter a code is blocked for 30 seconds. The LED display flashes red for nine times. When a key is pressed during these 30 seconds, the LED display flashes red once.

BOLT END POSITION SCAN FUNCTION

The locking system also has a bolt end position scan function. If, during the locking process, the bolt does not reach its end position, the LED display flashes red for four times. The lock is not locked. Check the correct mounting position of the lock, the bolt protector and the striker plate.

FACTORY SETTINGS

The following settings apply for the locking system as delivered from the factory:

- Free Code mode
- The lock is in open position
- Master code: 9-0-8-0-7-0-5-5-5-5
- Emergency opening code: 1-0-1-0-5
- Automatic locking is deactivated
- Automatic opening is deactivated

ATTENTION: It is highly recommended to change the factory set master code and factory set emergency opening code!

OPENING & CLOSING IN FREE CODE MODE

The lock must be in open position.

To close, you can enter any 3 to 10 digit code. When entering, make sure that each key input is acknowledged by a light signal at the LED display.

Close (example: 1-4-5-6)

Keys: 1 4 5 6 ✓

Display: yellow yellow yellow yellow red red

→ Lock closes.

Open (example: 1-4-5-6)

Keys: 1 4 5 6 ✓

Display: yellow yellow yellow yellow green

→ Lock opens.

After opening by entering the correct code, the previous code will be deleted. The lock can now be closed again with any 3 to 10 digit code.

If an invalid code is entered, the LED display flashes red three times.

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SWITCHING TO FIXED CODE MODE

The lock must be in open position. There must be no battery warning.

The fixed code must be 3 to 10 digits.

If you have already changed the default master code, enter your valid master code here. In order to confirm the master code, press the keys (x) + (✓) simultaneously.

Enter of master code (example: factory settings)

Keys	9 0 8 0 7 0 5 5 5 5 x + ✓ simultaneously	The lock is in configuration mode (continuous green light).
Display		
Keys	2 ✓	The lock waits for entering a new fixed code (continuous green light).
Display		

The LED display first flashes red twice after pressing the enter button and then turns to a continuous green light until a new fixed code has been entered.

Now enter your new personal fixed code immediately. When entering, make sure that the LED display acknowledges each key input.

Enter of new fixed code (example: 1-4-5-6)

Keys	1 4 5 6 ✓	When the LED display turns off, the new fixed code is valid.
Display		

If you cancel the enter process of a new fixed code with the cancel button or if you enter an incorrect code (invalid code length), the code 1-2-3 will automatically be valid. In this case the LED display flashes red ten times.

Check that the code has been accepted correctly with an open cabinet door.

Switching to Fixed Code mode deactivates the function „Automatic opening in Free Code mode“ or „Automatic closing in Fixed Code mode“ which may have been activated before.

OPENING & CLOSING IN FIXED CODE MODE

Close (example: 1-4-5-6)

Keys	1 4 5 6 ✓	Lock closes.
Display		

Open (example: 1-4-5-6)

Keys	1 4 5 6 ✓	Lock opens.
Display		

If an invalid code is entered, the LED display flashes red three times.

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USER CHANGES THE FIXED CODE

The lock must be in open position. There must be no battery warning.

The fixed code must be 3 to 10 digits..

If you have already changed the default fixed code for the user, enter your valid code here.

The previous code will be overwritten by entering the new code.

Enter of valid fixed code (example: 1-4-5-6)

Keys	1 4 5 6 X + ✓ simultaneously	The lock waits for entering a new fixed code (continuous green light).
Display		

After the buttons X + ✓ are pressed simultaneously the LED will turn to a continuous green light until a new fixed code is entered.

Now enter your new personal fixed code immediately. When entering, make sure that the LED display acknowledges each key input.

Enter of new fixed code (example: 1-2-3-4-5)

Keys	1 2 3 4 5 ✓	When the LED display turns off, the new fixed code is valid.
Display		

If the new code is not entered correctly, the previous code remains valid. In this case, the LED display flashes red ten times.

Check with the open cabinet, that the new fixed code has been accepted correctly (see page 12, „Opening & closing in Fixed Code mode“).

SWITCHING TO FREE CODE MODE

The lock must be in open position. There must be no battery warning.

If you have already changed the default master code, enter your valid master code here. In order to confirm the master code, press the keys (X) + (✓) simultaneously.

Enter of master code (example: factory settings)

Keys Display	9 0 8 0 7 0 5 5 5 5 X + ✓ simultaneously	The lock is in configuration mode (continuous green light).
Keys Display	1 ✓	When the LED display turns off, Free Code mode is activated.

After you have successfully switched to Free Code mode, you can operate the lock with any random code (3 to 10 digits). Please refer to page 11, „Opening & closing in Free Code mode".

Switching to Free Code mode deactivates the function „Automatic closing in Fixed Code mode" or „Automatic opening in Free Code mode" which may have been activated before.

CHANGING THE MASTER CODE

It is highly recommended that you change the default master code and to choose the longest possible and secure master code.

The lock must be in open position. There must be no battery warning.

The master code must be 3 to 10 digits.

If you have already changed the default master code, enter your valid master code here. In order to confirm the master code, press the keys (x) + (✓) simultaneously.

Enter of master code (example: factory settings)

Keys	9 0 8 0 7 0 5 5 5 5 x + ✓ simultaneously	The lock is in configuration mode (continuous green light).
Display		
Keys	5 ✓	The locks waits for the first entry of the the new master code (continuous red light).
Display		

After the enter button is pressed the LED display will turn to a continuous red light until a new master code has been entered for the first time.

Now carefully enter the new master code 2x in succession (as described in the following). When entering the new master code, make particularly sure that the LED display acknowledges each key input.

Enter of new master code (example: 6-0-1-9-7)

Keys	6 0 1 9 7 ✓	The lock waits for the second entry of the new master code (continuous green light).
Display		

Repeated enter of new master code (example: 6-0-1-9-7)

Keys	6 0 1 9 7 ✓	When the LED display turns off, the new master code is valid.
Display		

If the new master code has been entered correctly twice, there is a long green flashing in the LED display. The new master code is valid. In all other cases, the LED display flashes red ten times. The new master code was not accepted. The previous master code is still valid.

Perform immediately a functional test with the new master code!

CHANGING THE EMERGENCY OPENING CODE

It is highly recommended that you change the default emergency opening code and to choose the longest possible and secure emergency opening code.

The lock must be in open position. There must be no battery warning.

The emergency opening code must be 3 to 10 digits.

If you have already changed the default master code, enter your valid master code here. In order to confirm the master code, press the keys (x) + (✓) simultaneously.

Enter of master code (example: factory settings)

Keys	9 0 8 0 7 0 5 5 5 5 x + ✓ simultaneously	The lock is in configuration mode (continuous green light).
Display		
Keys	4 ✓	The locks waits for the first entry of the the new emergency opening code (continuous red light).
Display		

After the enter button is pressed the LED display will turn to a continuous red light until a new emergency opening code has been entered for the first time.

Now carefully enter the new emergency opening code 2x in succession (as described in the following). When entering the new emergency opening code, make particularly sure that the LED display acknowledges each key input.

Enter of new emergency opening code (example: 1-2-3-0-0)

Keys	1 2 3 0 0 ✓	The lock waits for the second entry of the new emergency opening code (continuous green light).
Display		

Repeated enter of new emergency opening code (example: 1-2-3-0-0)

Keys	1 2 3 0 0 ✓	When the LED display turns off, the new emergency opening code is valid.
Display		

If the new emergency opening code has been entered correctly twice, there is a long green flashing in the LED display. The new emergency opening code is valid. In all other cases, the LED display flashes red ten times. The new emergency opening code was not accepted. The previous emergency opening code is still valid.

Perform immediately a functional test with the new emergency opening code!

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EMERGENCY OPENING

If you have already changed the default emergency opening code, enter your valid emergency opening code here.

Enter emergency opening code (example: factory settings)

Keys	1 0 1 0 5 ✓	Lock opens
Display		

After an emergency opening in the Fixed Code mode, the lock can be used again normally with the previously programmed fixed code. If you want to change the fixed code, follow the instructions in section „User changes the Fixed code“ or in section “Switching to Fixed Code mode”.

After an emergency opening in the Free Code mode, the lock can be used normally again (see page 11, „Opening & closing in Free Code mode“).

If an invalid emergency opening code is entered, the LED display flashes red three times.

RESET TO FACTORY SETTINGS

If the reset to factory settings is carried out, all stored fixed code, master code, emergency opening code and settings will be deleted.

The lock must be in open position. There must be no battery warning. If necessary, perform an emergency opening to open the lock.

If you have already changed the default master code, enter your valid master code here. In order to confirm the master code, press the keys X + ✓ simultaneously.

Enter of master code (example: factory settings)

Keys	9 0 8 0 7 0 5 5 5 5 X + ✓ simultaneously	The lock is in configuration mode (continuous green light).
Display		
Keys	0 ✓	When the LED display turns off, the reset to factory settings is completed.
Display		

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AUTOMATIC LOCKING IN FIXED CODE MODE

The lock must be in open position. There must be no battery warning. This feature can only be activated in Fixed Code mode. If you have already changed the default master code, enter your valid master code here. In order to confirm the master code, press the keys (x) + (✓) simultaneously.

Enter of master code (example: factory settings)

Keys	9 0 8 0 7 0 5 5 5 5 x + ✓ simultaneously	The lock is in configuration mode (continuous green light).
Display		
Keys	6 ✓	The lock waits for the selection of the time span (continuous red ight).
Display		

Select the time span after which the lock is to close automatically.

Selection of time spans		Automatic closing
Keys	0 ✓	Switches off
Display		
Keys	1 ✓	after 10 seconds
Display		
Keys	2 ✓	after 30 seconds
Display		
Keys	3 ✓	after 1 minute
Display		
Keys	4 ✓	after 5 minutes
Display		
Keys	5 ✓	after 15 minutes
Display		
Keys	6 ✓	after 1 hour
Display		
Keys	7 ✓	after 6 hours
Display		
Keys	8 ✓	after 12 hours
Display		
Keys	9 ✓	after 24 hours
Display		

Note that there may be slight variations in the time span. A second-exact measurement is not possible. When switching to the Free Code mode, this function is automatically deactivated.

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AUTOMATIC OPENING IN FREE CODE MODE

The lock must be in open position. There must be no battery warning. This feature can only be activated in Free Code mode. If you have already changed the default master code, enter your valid master code here. In order to confirm the master code, press the keys (x) + (✓) simultaneously.

Enter of master code (example: factory settings)	
Keys: 9 0 8 0 7 0 5 5 5 5 x + ✓ simultaneously Display	The lock is in configuration mode (continuous green light).
Keys: 6 ✓ Display	The lock waits for the selection of the time span (continuous red ight).

Select the time span after which the lock is to open automatically.

Selection of time spans	Automatic opening
Keys: 0 ✓ Display	Switches off
Keys: 1 ✓ Display	after 5 minutes
Keys: 2 ✓ Display	after 15 minutes
Keys: 3 ✓ Display	after 30 minutes
Keys: 4 ✓ Display	after 1 hour
Keys: 5 ✓ Display	after 6 hours
Keys: 6 ✓ Display	after 12 hours
Keys: 7 ✓ Display	after 24 hours
Keys: 8 ✓ Display	after 48 hours
Keys: 9 ✓ Display	after 7 days

Note that there may be slight variations in the time span. A second-exact measurement is not possible. When switching to the Fixed Code mode, this function is automatically deactivated.

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BATTERY WARNING

The locking system is equipped with two battery warning levels (see table below):

Warning level	LED display	Meaning
Stage 1		The battery is weak and should be changed. Opening and closing of the lock are possible. Configuration changes are not possible.
Stage 2		The battery is exhausted and must be changed immediately! The lock can only be opened. Configuration changes are not possible.

For changing the battery see page 6 „Getting started & changing battery“.

FIRMWARE UPDATE

You have the option of updating the firmware of the locking system via the micro USB port on the lock. Firmware updates are provided only when needed (for example, technical need). To update the firmware you need the software LEHMANN Firmware Updater. The software can be found on the website www.lehmann-locks.com under Electronic Locking Systems and there under Software Solutions. The individual steps for updating the firmware are described in the software.

DISPOSAL

Dispose of the locking system according to local regulations and guidelines. Remove the battery and dispose of the battery separately according to local regulations. When disposing of partially discharged batteries, make sure that there are no short circuits between the poles of the batteries (risk of explosion and fire).

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