![Richelieu logo]

(M400 TA)

Type M400 TA Electronic:  MAIICBM4
Type M400 TA Keypad:     SLIICBB1

# M400 Keypad lock

# Operating instructions

## OPERATING DESCRIPTION

The M400 TA electronic locking system provides you with a convenient means of locking and unlocking your furniture electronically. The system has two modes.

**Mode 1: Free code selection**
Here, the user selects his own individual code (max. 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 (principle: Hotelsave).

**Mode 2: Fixed code**
The user can only open and close the lock with a fixed preset code (max. 10 digits).

The following points describe the installation and must be taken into account when installing the system in furniture.
**Only install the system when it is unlocked.** For the correct mechanical connection of the M400 TA 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.

## SAFETY PRECAUTIONS

→ On changing the batteries, ensure correct battery polarity and position.
→ Dispose of spent batteries and packaging material in the proper manner!
→ Do not heat batteries, take them apart or short-circuit them
→ Never throw batteries into open fires!
→ The batteries must not be charged!
→ Keep batteries and packaging material out of children's reach!
→ Any person swallowing batteries must seek immediate medical advice!
→ Damaged and/or leaking batteries may cause acid burns and/or poisoning!

## CARE AND MAINTENANCE

→ Protect all system components from moisture.
→ Clean the 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 batteries in good time, but at the latest when the visual battery warning on the keypad lights up.

## TECHNICAL SPECIFICATIONS

• Power supply for control electronics: battery type: 2x AA, alkaline 1.5V.
• NiCd, NiMH or other rechargeable batteries as well as zinc-carbon or lithium batteries must not be used!

**Permissible temperature range / working range:**
**Operation:**  +5°C to +40°C at 30% to 80% relative humidity, non-condensing.
**In storage:**  -25°C to +70°C at 30% to 80% relative humidity, non-condensing.

Type designation M400 TA Electronic:    MAIICBM4
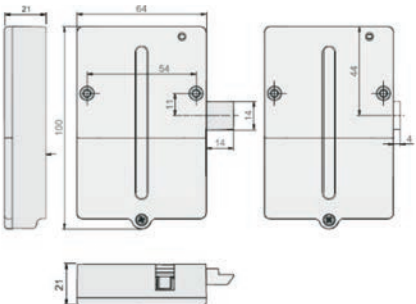Type designation M400 TA Keypad:        SLIICBB1
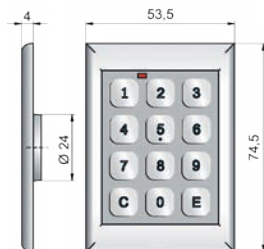
## SYSTEM COMPONENTS / PACKAGE CONTENTS
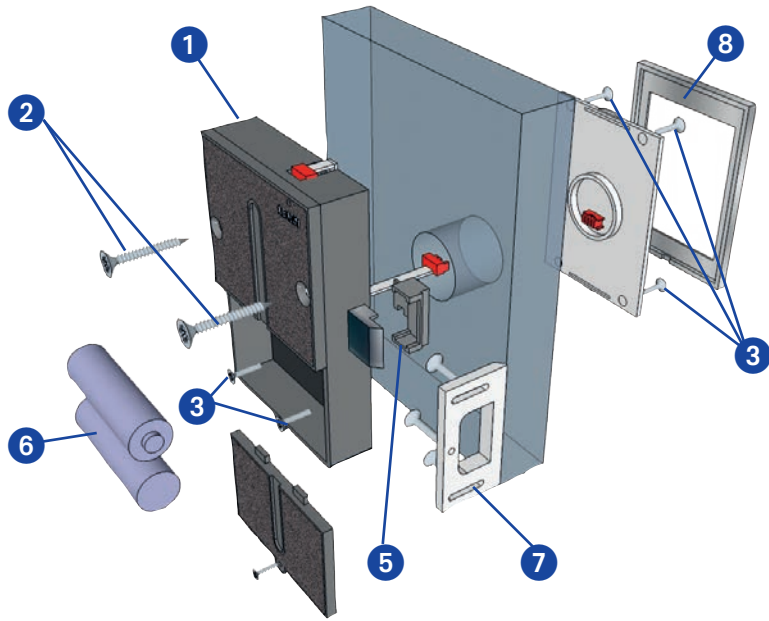


| | | | | | |
|---|---|---|---|---|---|
| **1** M400 TA | 2 x Spax 3x30 **2** | Connecting cable 100mm **4** | 2 x 1,5V AA Mignon Mignon **6** | Keypad and frame **8** | Operating instructions |
| | 9 x Spax 3x13 **3** | Bolt protector **5** | Striker plate **7** | | M400 Keypad lock Operating instructions |

## DIMENSIONS

**M400 Electronics**



**M400 Keypad**

53,5
Ø 24
74,5
4

**Striker plate**

20
40
20
32
5
Fixation

REFERENCE: 4001490

BDA_M400-TA_GB_(Rev-05)_23-06-2014
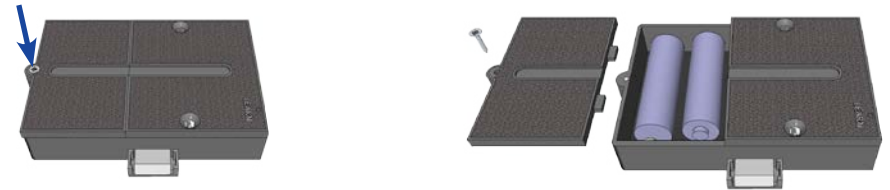
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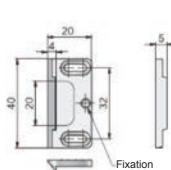
## GETTING STARTED / CHANGING BATTERIES

**1** Undo screw. Open battery compartment lid.

**2** Change batteries.

**3** Close battery compartment lid. **Fit fixing screw.**



> **!** **Only install the furniture lock in furniture in an unlocked state.**
> Use only **LR6, AA, alkaline** type batteries. Make sure that the polarity is correct!
> **Rechargeable batteries, zinc-carbon batteries or lithium batteries are not permitted!**

### Low-battery warning system for the electronics
The M400 TA has several battery warning levels (see table below).

| Warning level | Display on furniture lock | Meaning | Effect |
|---|---|---|---|
| Level 1 | LED display flashes briefly at successive regular intervals 2 x red. | Battery voltage is low. The batteries should be replaced soon. | Normal function is still possible. |
| Level 2 | LED display flashes briefly at successive regular intervals 3 x red. | Battery is spent. The batteries must be changed. | For all code inputs, the lock only performs the command "OPEN". |

## INSTALLING THE BOLT PROTECTOR

The bolt protector provided with the M400 can be used for additionally guarding the system against external mechanical manipulation. Depending on the purpose the M400 is being used for and where it is installed, we recommend fitting this additional, easy-to-mount guard.

REFERENCE: 4001490

BDA_M400-TA_GB_(Rev-05)_23-06-2014
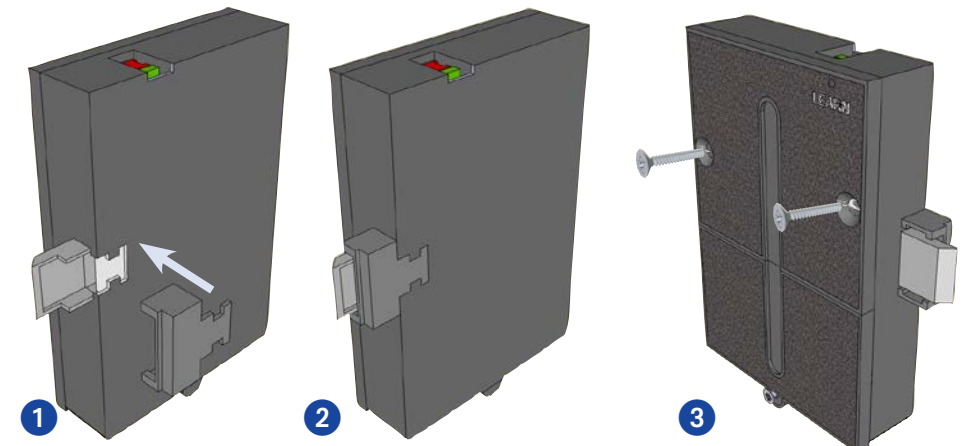
## INSTALLING THE M400 TA

**Installation on the door**



> **Note:**
> Our locks and locking systems can basically be used together with mechanisms made by other manufacturers, but their compatibility must be checked by the processor in each individual case. **We cannot accept any liability for damage or losses due to incompatibility.**

## CHANGING THE KEYPAD FRAME

**1** Insert a narrow screwdriver into the opening   **2** Use light pressure to push back the retaining spring   **3** Lift up the frame and remove it

## CONDITION AS DELIVERED / DEFAULT SETTINGS

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

1. Condition as delivered: **Free code selection**.
2. The lock is in **open position**.
3. The master code is: **9-0-8-0-7-0-5-5-5-5**.
4. The emergency opening code is: **1-0-1-0-5**.
5. **Automatic locking is deactivated**.
6. **Automatic opening is deactivated**.

> During operation, make sure that each key input is acknowledged by a light signal!
> If a light signal does not appear, the input was not accepted and not registered.
>
> **Note:**
> If a period of 30 seconds is exceeded when entering a new code or menu sequence, the electronic system switches itself off. The old code remains valid.

You can enter a random numerical code of 3 to 10 digits.
Digits 0 to 9.

### LED display for operation and function



**C** = Clear     **E** = Enter
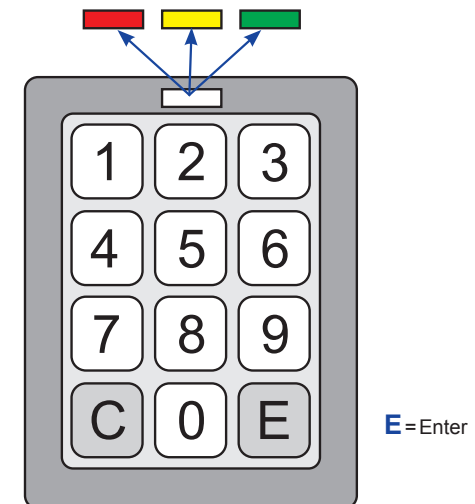
> **Note:**
> You can cancel any operation at any time by pressing the C key.
> Any input already made is deleted.

The M400 TA system also has a bolt end position scan function. If, during the locking process, the locking bolt does not reach its end position, a red flashing signal appears. This indicates that your furniture is not correctly locked.

## Opening and closing in mode: Free code selection

**Prerequisite:** The lock must be in **OPEN** position.

→ You can enter a random numerical code of 3 to 10 digits.
→ Digits 0 to 9.

| Example: CLOSE | | | | | | |
|---|---|---|---|---|---|---|
| Keys | 1 | 4 | 5 | 6 | E | Furniture lock closes. 🔒 |
| Display | ▬ | ▬ | ▬ | ▬ | ▬(red) | |

| Example: OPEN | | | | | | |
|---|---|---|---|---|---|---|
| Keys | 1 | 4 | 5 | 6 | E | Furniture lock opens. 🔓 |
| Display | ▬ | ▬ | ▬ | ▬ | ▬(green) | |

**! Note:**
After opening, the previous code is deleted.
The lock can now be closed again with any random code.

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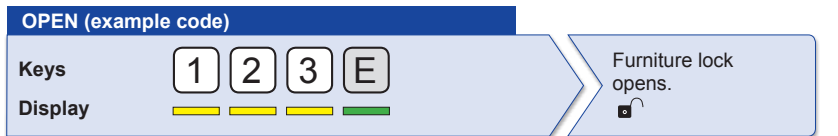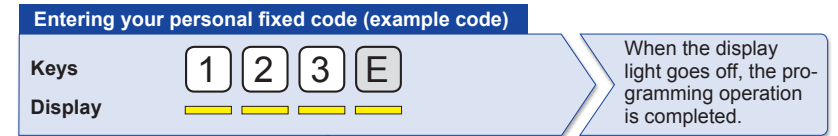## Switching to: Fixed code

**Prerequisite:** The lock must be in **OPEN** position.

**! Note:**
If you have already changed the default master code,
enter your valid master code here.

| Example of a master code (default). | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 9 | 0 | 8 | 0 | 7 | 0 | 5 | 5 | 5 | 5 | C+E | The furniture lock is in configuration mode. |
| ▬ | ▬ | ▬ | ▬ | ▬ | ▬ | ▬ | ▬ | ▬ | ▬ | ▬(green) | |

| 2 | E | **Note: Green** light flashes **1x**: The "Fixed Code" function was already activated and is still activated. | Fixed code is activated. |
|---|---|---|---|
| ▬ | ▬(green) | | |

| 2 | E | **Note: Yellow** light flashes **6x and remains on**: The "Fixed Code" function is now activated. **If you cancel by pressing the C key, the code 1-2-3 is automatically valid** | The system waits for a new "Fixed Code" to be entered. |
|---|---|---|---|
| ▬ | ▬ ▬ ▬ ▬ ▬ | | |
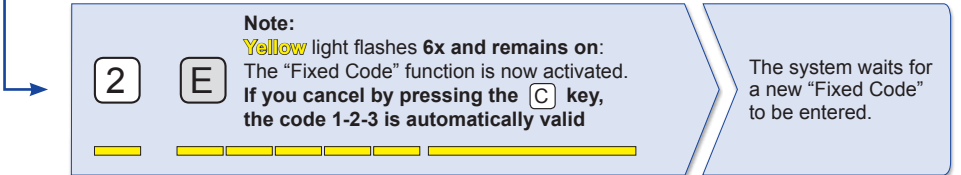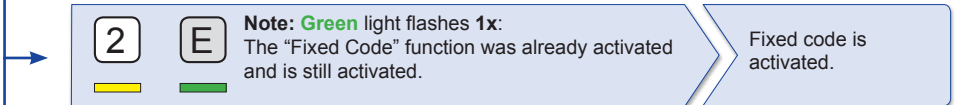
**Now enter your new personal fixed code.**

| Entering your personal fixed code (example code) | | | | |
|---|---|---|---|---|
| Keys | 1 | 2 | 3 | E | When the display light goes off, the programming operation is completed. |
| Display | ▬ | ▬ | ▬ | ▬ | |

| CLOSE (example code) | | | | |
|---|---|---|---|---|
| Keys | 1 | 2 | 3 | E | Furniture lock closes. 🔒 |
| Display | ▬ | ▬ | ▬ | ▬(red) | |

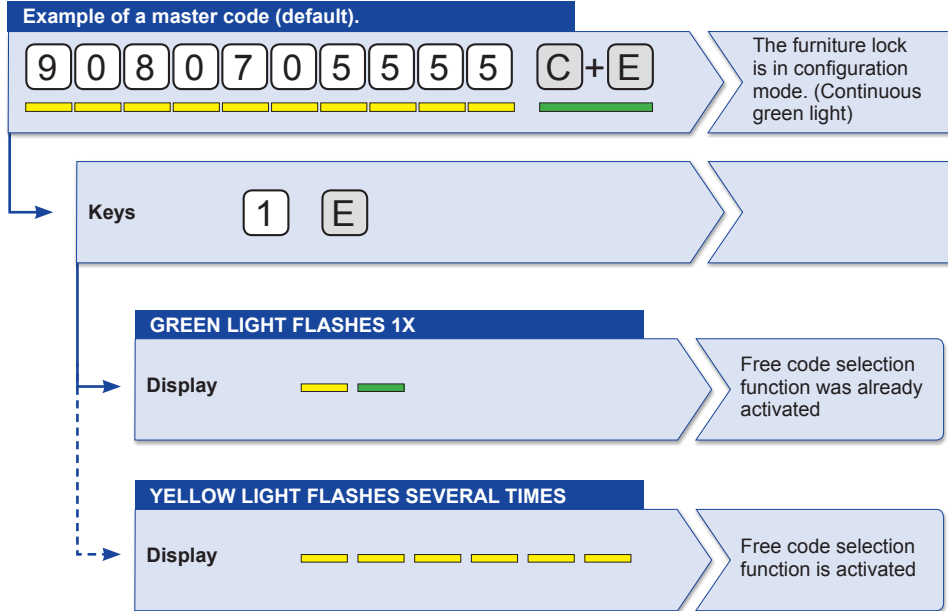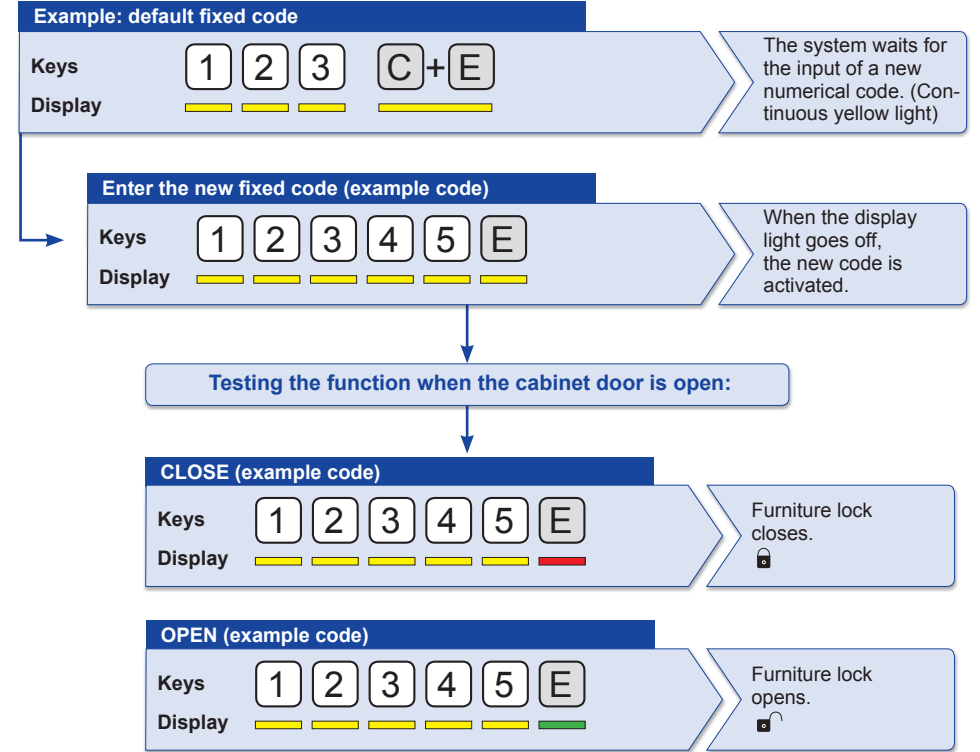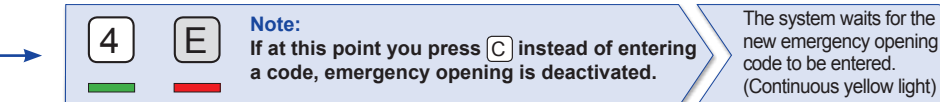| OPEN (example code) | | | | |
|---|---|---|---|---|
| Keys | 1 | 2 | 3 | E | Furniture lock opens. 🔓 |
| Display | ▬ | ▬ | ▬ | ▬(green) | |

## BASIC FUNCTIONS

### Switching to: Free code selection

**Prerequisite:** The lock must be in **OPEN** position.

> **Note:**
> If you have already changed the default master code,
> enter your valid master code here.

**Example of a master code (default).**

| 9 | 0 | 8 | 0 | 7 | 0 | 5 | 5 | 5 | 5 | C + E |

The furniture lock is in configuration mode. (Continuous green light)

**Keys**   1   E

**GREEN LIGHT FLASHES 1X**

**Display**

Free code selection function was already activated

**YELLOW LIGHT FLASHES SEVERAL TIMES**

**Display**

Free code selection function is activated

**After you have successfully switched to "Free code selection" you can operate the lock with any random code. See Section: Operation with free code selection.**

## ADVANCED FUNCTIONS

### User changes the Fixed Code

**Prerequisite:** The lock must be in **OPEN** position.

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

**Example: default fixed code**

**Keys**   1   2   3   C + E

**Display**

The system waits for the input of a new numerical code. (Continuous yellow light)

**Enter the new fixed code (example code)**

**Keys**   1   2   3   4   5   E

**Display**

When the display light goes off, the new code is activated.

**Testing the function when the cabinet door is open:**

**CLOSE (example code)**

**Keys**   1   2   3   4   5   E

**Display**

Furniture lock closes.

**OPEN (example code)**

**Keys**   1   2   3   4   5   E

**Display**

Furniture lock opens.

**If the furniture lock reacts as expected, the process is completed.**
**The old code has been overwritten with the new one.**

## ADVANCED FUNCTIONS

### Changing the emergency opening code

**Prerequisite:** The lock must be in **OPEN** position, there must not be any battery warning.

> **Note:**
> If you have already changed the default master code, enter your valid master code here.
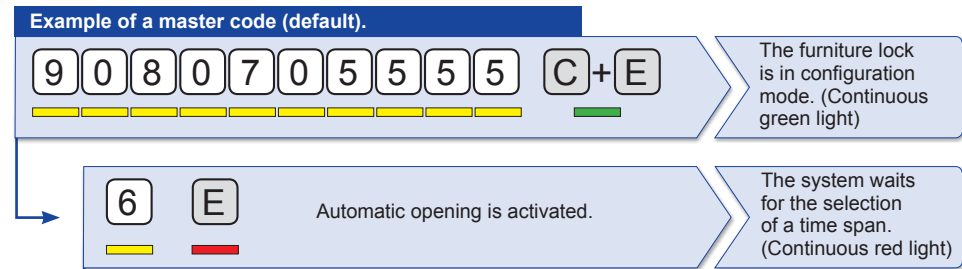
**Example of a master code (default).**

| 9 | 0 | 8 | 0 | 7 | 0 | 5 | 5 | 5 | 5 | C + E |

The furniture lock is in configuration mode. (Continuous green light)

| 4 | E |

**Note:**
If at this point you press C instead of entering a code, emergency opening is deactivated.

The system waits for the new emergency opening code to be entered. (Continuous yellow light)
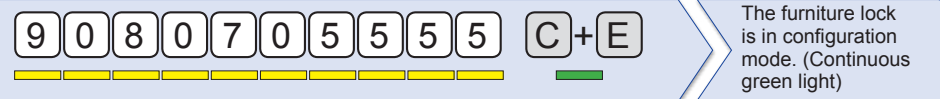
Now <u>carefully</u> enter the new emergency opening code 2x in succession (as described in the following). When entering the code, make particularly sure that the display acknowledges each key input.

**Entering the new emergency opening code (example)**

Keys | 1 | 2 | 3 | 0 | 0 | E
Display

**Repeat this procedure**

**Repeated input of the new emergency opening code**

Keys | 1 | 2 | 3 | 0 | 0 | E
Display
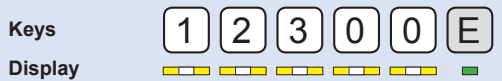
When the display light goes off, the emergency opening code has been changed.

> **Note:**
> When the new code has been correctly entered twice, a green lamp lights up.
> The new code is valid. In all other cases, a red flashing lamp appears, and you must repeat the procedure with the old code.

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## ADVANCED FUNCTIONS

### Changing the master code

**Prerequisite:** The lock must be in **OPEN** position, there must not be any battery warning.

> **Note:**
> If you have already changed the default master code, enter your valid master code here.

**Example of a master code (default).**

| 9 | 0 | 8 | 0 | 7 | 0 | 5 | 5 | 5 | 5 | C + E |

The furniture lock is in configuration mode. (Continuous green light)

| 5 | E |

The system waits for the new master code to be entered. (Continuous red light)
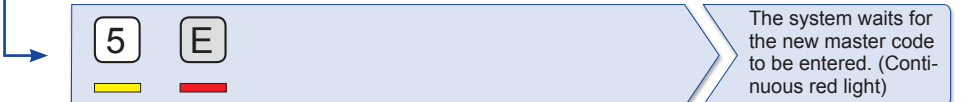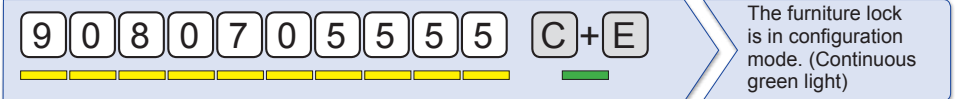
Now <u>carefully</u> enter the new master code 2x in succession (as described in the following). When entering the code, make particularly sure that the display acknowledges each key input.

**Entering the new master code (example)**

Keys | 6 | 0 | 1 | 9 | 7 | E
Display
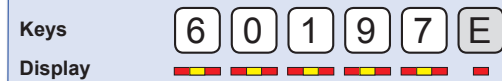
**Repeat this procedure**

**Repeated input of the new master code**

Keys | 6 | 0 | 1 | 9 | 7 | E
Display
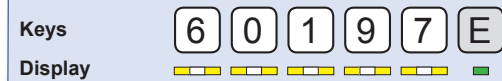
When the display light goes off, the master code has been changed.

> **Note:**
> When the new code has been correctly entered twice, a green lamp lights up.
> The new code is valid. In all other cases, a red flashing lamp appears, and you must repeat the procedure with the old code.

**Please check the new master code immediately after you have entered it.**

## ADVANCED FUNCTIONS

### Automatic locking in fixed code mode

**Prerequisite: T**he lock must be in **OPEN** position, there must not be any battery warning.

> **! Note:**
> If you have already changed the default master code,
> enter your valid master code here.

**Example of a master code (default).**

| 9 | 0 | 8 | 0 | 7 | 0 | 5 | 5 | 5 | 5 | C + E |

> The furniture lock is in configuration mode. (Continuous green light)

| 6 | E | Automatic locking is activated. |

> The system waits for the selection of a time span. (Continuous red light)
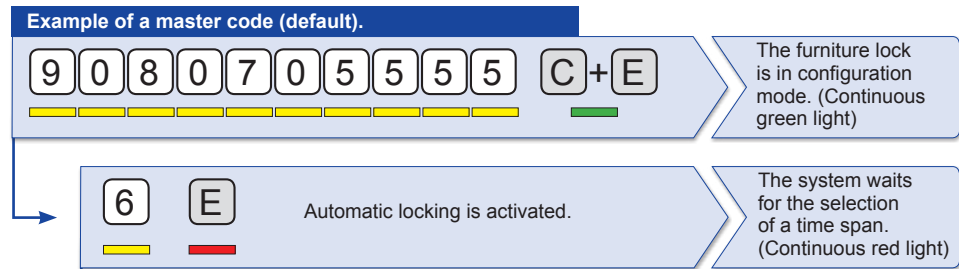
**Select the time span after which the furniture lock is to close automatically.**

| Selection of the time spans | Automatic locking |
|---|---|
| Keys 0 E | → Switched off |
| Keys 1 E | → after **10** seconds 🔒 |
| Keys 2 E | → after **30** seconds 🔒 |
| Keys 3 E | → after **1** minute 🔒 |
| Keys 4 E | → after **5** minutes 🔒 |
| Keys 5 E | → after **15** minutes 🔒 |
| Keys 6 E | → after **1** hour 🔒 |
| Keys 7 E | → after **6** hours 🔒 |
| Keys 8 E | → after **12** hours 🔒 |
| Keys 9 E | → after **24** hours 🔒 |

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### Automatic opening in free code selection mode

**Prerequisite:** The lock must be in **OPEN** position, there must not be any battery warning.

> **! Note:**
> If you have already changed the default master code,
> enter your valid master code here.

**Example of a master code (default).**

| 9 | 0 | 8 | 0 | 7 | 0 | 5 | 5 | 5 | 5 | C + E |

> The furniture lock is in configuration mode. (Continuous green light)

| 6 | E | Automatic opening is activated. |

> The system waits for the selection of a time span. (Continuous red light)

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

| Selection of the time spans | Automatic opening |
|---|---|
| Keys 0 E | → Switched off |
| Keys 1 E | → after **5** minutes 🔓 |
| Keys 2 E | → after **15** minutes 🔓 |
| Keys 3 E | → after **30** minutes 🔓 |
| Keys 4 E | → after **1** hour 🔓 |
| Keys 5 E | → after **6** hours 🔓 |
| Keys 6 E | → after **12** hours 🔓 |
| Keys 7 E | → after **24** hours 🔓 |
| Keys 8 E | → after **48** hours 🔓 |
| Keys 9 E | → after **7** days 🔓 |

## EMERGENCY FUNCTIONS

### Using the **emergency opening function** in **fixed code mode**

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

| Example: Default emergency opening code | |
|---|---|
| **Keys** | [1] [0] [1] [0] [5] [E] |
| **Display** | 🟨 🟨 🟨 🟨 🟨 🟩 |

> Furniture lock opens. 🔓

The display on the keypad shows a red flashing light 🟥. Further operation of the lock is not possible until a Master RESET has been carried out.

### Using the **emergency opening function** in **free code mode**

| Example: Default emergency opening code | |
|---|---|
| **Keys** | [1] [0] [1] [0] [5] [E] |
| **Display** | 🟨 🟨 🟨 🟨 🟨 🟩 |

> Furniture lock opens. 🔓

The display on the keypad briefly flashes in green 🟩. The lock can immediately be used normally again.

### Master RESET

**Prerequisite:** The lock must be in **OPEN** position.

| Example of a master code (default). | |
|---|---|
| [9][0][8][0][7][0][5][5][5][5]  [C]+[E] | |
| 🟨🟨🟨🟨🟨🟨🟨🟨🟨🟨  🟩 | |

> The furniture lock is in configuration mode. (Continuous green light)

> **WARNUNG!**
> When a **Master RESET** is carried out, all stored personal codes and settings are deleted and **the condition as delivered is restored**.

[0] [E]
🟨 🟥 → 🟩

> When the display light goes off, the Master RESET has been carried out.