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GB

M400 Q011 assigned use

Operating instructions

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More operating instructions can be found as a download on our internet page.

BDA M400 RFID assigned use 20160204 (GB)

GENERAL SYSTEM DESCRIPTION

The electronic locking system M400 is an electronic furniture lock. It is intended for usage in the home and office. Using the system in applications for which it is not intended may result in irreparable damage to it and render any claims null and void. These operating instructions provide information on how to properly install and operate the M400 system. To program the furniture lock you will need a Delete-Card and a Master-Card. With its easy handling, you can adapt the M400 system to your personal requirements. It can be expanded from a stand-alone-system to a complex, convenient locking system.

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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.

SAFETY PRECAUTIONS

- When replacing the batteries, observe correct battery polarity and position!
- Dispose of used batteries properly!
- Do not heat batteries, take them apart or short-circuit them!
- Never throw batteries into open fire!
- The batteries must not be charged!
- Keep the batteries away from children!
- Any persons swallowing batteries must seek immediate medical advice!
- Damaged and/or leaking batteries may cause acid burns and/or poisoning!

CARE AND MAINTENANCE

- Do not spill any liquid over or into the individual components of the system and never immerse the components in any liquid.
- The product should not be exposed to direct sunlight.
- Clean the system with a clean, soft, damp cloth only.
- Do not use any cleaning agents that contain abrasives or solvents like glass, thinners, alcohol, gasoline or ammonia, as these can damage the housing.
- Treating any of the electronic and mechanical components improperly or in any way other than described in this user manual may lead to malfunctions.

FUNCTIONAL DESCRIPTION

The RFID reader is not suitable for use on metallic surfaces.

The M400 electronic locking system provides you with a convenient means of locking or unlocking your furniture electronically. The M400 system enables granting of selective access authorisations, so that certain furniture can only be accessed by authorised persons. Complete locking systems with different access levels can thus be realised with no problems. Each control electronics of the M400 system works independently, without cable connection to other control electronics and to the mains. You can easily teach up to 30 transponders in each control electronics. For operation you will additionally need a Delete-Card and a Master-Card, which you might already own or which you can purchase from your supplier or dealer.

Please store Master-Card and Delete-Card away safty.

TECHNICAL SPECIFICATIONS

- Frequency: 125 kHz. National legislation about permissible radio frequencies must be observed.
- Range: approx. 20 mm between reading unit and User-Card.
- 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!

Temperature 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.

The lock (version: assigned use of the User-Cards) can be operated with User-Cards of type EM 4102 and EM 4200.

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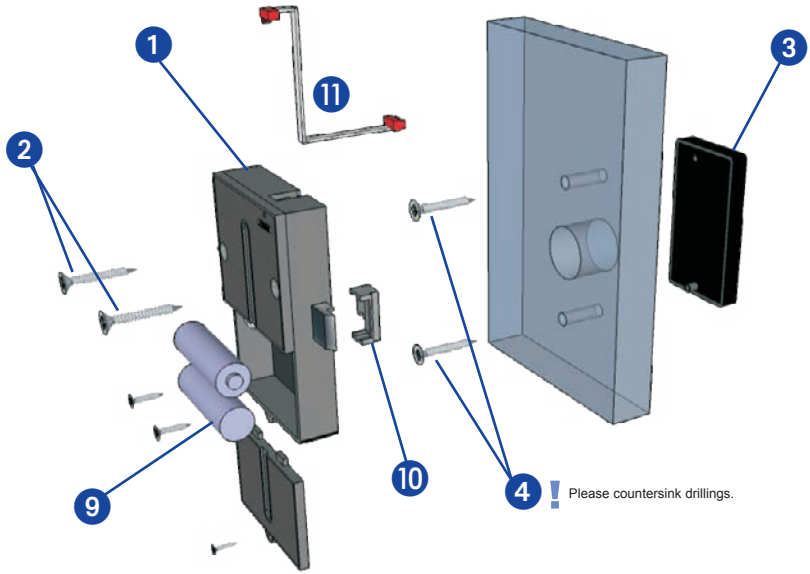
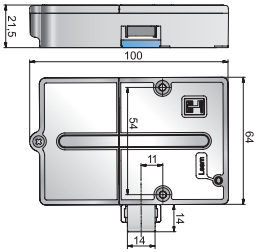
SYSTEM COMPONENTS / PACKAGE CONTENTS



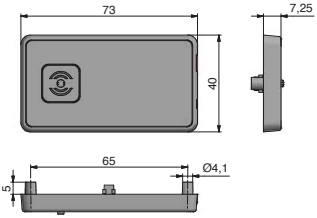
1 M400 RIFD Q011 furniture lock	3 RFID-reader (KU-black)	4 2 x thermo-plastic screw 3x20	9 2 x 1,5V AA	Operating instructions
5 Covering cap (KU-black)	6 2 x Spax 3x13	10 Protector		
2 2x Spax 3x30, 3x Spax 3x13	7 Striker plate	8 3 x Spax 3x13	11 Connection cable 100 mm	

DIMENSIONS

M400 RIFD Electronics

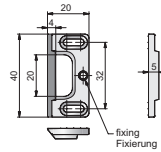


RIFD reader



Dimensions for internal reader

Striker plate



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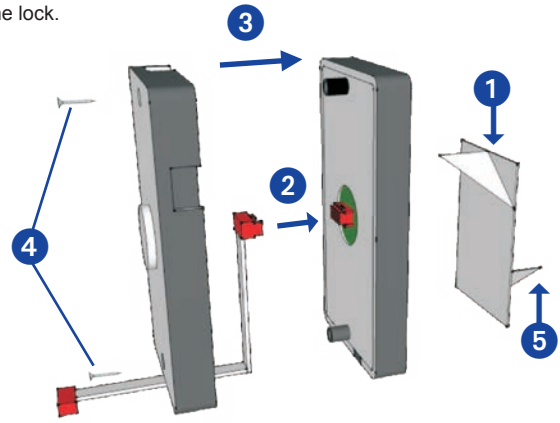
RECESSED VERSION FOR INTERNAL READER

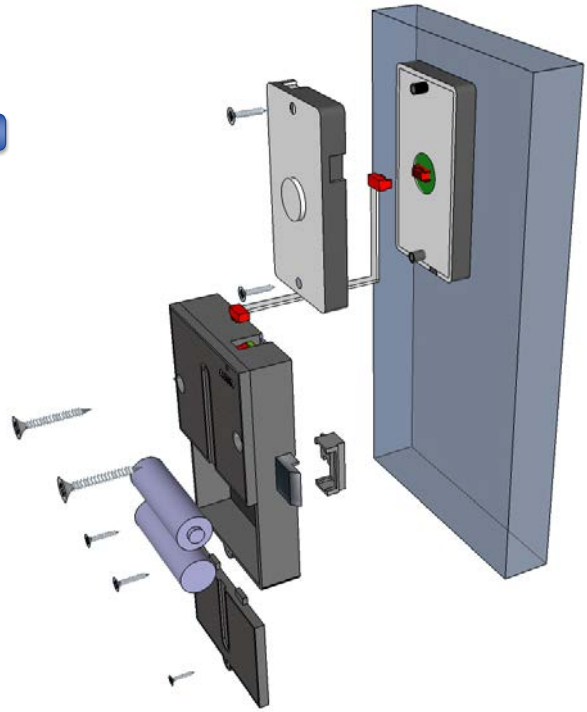
Alternatively to standard mounting of the reading unit at the front of the furniture, the reader can also be mounted on the inside. Please note that the reading range is limited in this case and light signals are no longer visible.
The external reader can be supplied with power in an emergency.
Please note that this does not apply to the internal reader.

Mount the lock and connect the cable with the lock.



1. Remove the protective film of the adhesive tape on one side and stick the adhesive tape to the front of the reader.
2. Connect the connecting cable and lay in direction of the cable outlet.
3. Press both housing halves together. Make sure that cable is not jammed or damaged.
4. Hand-tighten both housing screws 2x Spax 3x13.
5. Remove the protective film at the rear.

Then stick the complete reading unit to the inside of the door.



NOTE

The surfaces to be covered must be clean, dry and grease-free to ensure a secure hold.

Works for wood thicknesses of max. 20 mm.

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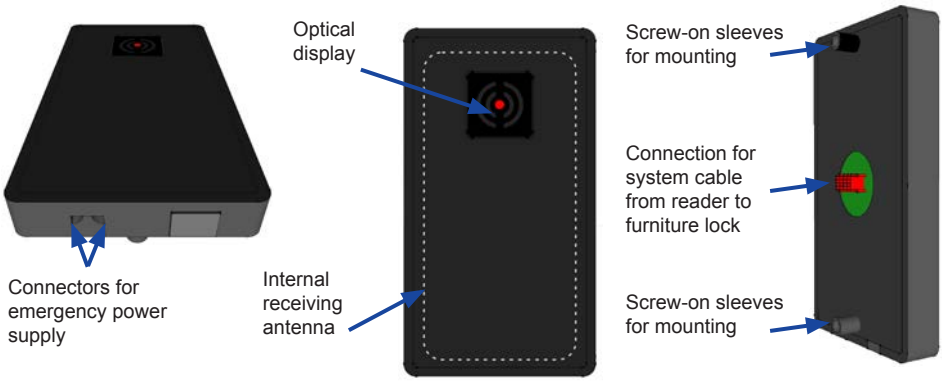
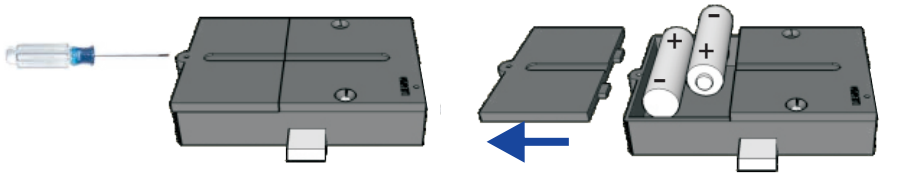
DISPLAYS AND CONTROL ELEMENTS



GETTING STARTED / CHANGING BATTERIES

Before installing the system, insert the batteries in the control electronics and program the furniture lock according to these instructions. Once the programming operation is completed, ensure proper functioning of the system.

1. Remove screw. Open the battery compartment lid.
2. Insert / replace the batteries.
3. Close the battery compartment lid. **Fit the fixing screw.**



Only install the furniture lock in the furniture when it is unlocked.
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!

BATTERY WARNING

Warning level	Signals	Function (after reading in of cards)	Measure
Level 1	2x red light signal each and acoustic signal after each lock movement	Normal locking function	Batteries are almost exhausted and should be replaced soon.
Level 2	3x red light signal and acoustic signal after each opening	The lock opens and cannot be closed again.	Batteries are exhausted and must be replaced.

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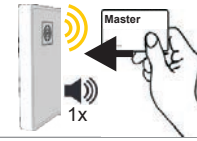
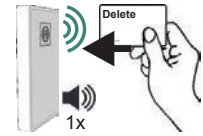
INITIAL PROGRAMMING MASTER-CARD

The furniture lock is supplied neutrally and only enabled after teaching in of a Master-Card and Delete-Card. So a functional check only becomes possible when the following programming operation is complete.
For initial programming you will need a LEHMANN Master-Card and a Delete-Card, which you might already own or which you can purchase from your supplier or dealer.

First of all, connect the reader to the lock. Insert the batteries in the battery compartment in the correct position and wait until an acoustic and optical signal is issued. *The reader is ready for operation and is waiting for the Master-Card.*	
Hold the Master-Card in front of the reader. *The display flashes one briefly and changes from orange to green.*	
Hold the Delete-Card in front of the reader. *When the display light goes off, programming was successful.*	

TEACHING IN OF USER-CARDS

A maximum of 30 different User-Cards can be programmed to the system.

Hold the Master-Card in front of the reader. *Until an optical / acoustic signal indicates that the programming mode is enabled.*	
Hold the User-Card in front of the reader. *An optical and acoustic signal indicate that the User-Card is stored as authorised. Several User-Cards can also be programmed to the system one after the other. After the last programmed User-Card, perform the following step.*	
Hold the Master-Card in front of the reader again to complete the programming operation. *An acoustic signal is issued and the display light goes off. The programming mode is complete and the lock can be operated with the User-Card.*	

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OPENING AND CLOSING

Open the lock
Hold the authorised User-Card in front of the reader, until a green light signal appears and the acoustic signal sounds.

If a green light signal appears and an acoustic signal sounds, the card is authorised and the furniture lock opens.

Close the lock
Hold the User-Card in front of the reader until a red light signal appears and the acoustic signal sounds.

If a red light signal appears and an acoustic signal sounds, the card is authorised and the furniture lock closes.

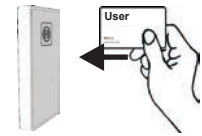
NON-AUTHORISED USER-CARD

In case of an open lock

If an unauthorised card is held in front of the reader when the lock is open, a red light signal appears and an acoustic signal sounds. The lock does not perform an action.

In case of a closed lock

If an unauthorised card is held in front of the reader when the lock is closed, neither a light signal appears and an acoustic signal sounds. The lock does not perform an action.

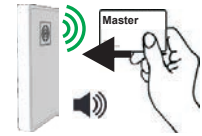


PERFORMING AN EMERGENCY OPENING

In case one or all authorised User-Cards have been lost, an emergency opening can be performed for closed locks with the Master-Card.
Please note that User-Cards are not deleted with the emergency opening.

Hold the Master-Card in front of the reader to perform the emergency opening.

An acoustic signal sounds, the display flashes green once and the furniture lock opens.



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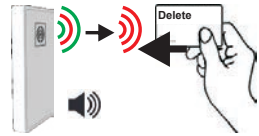
DELETING ALL USER-CARDS

Note: Deleting User-Cards selectively is not possible. The deletion process can only occur in case the lock is open. If no more authorised User-Card is available, perform an emergency opening with the Master-Card beforehand.

Hold the Master-Card in front of the reader. *An acoustic signal is issued and the display lights up in red.*	
Hold the Delete-Card in front of the reader. *The display alternates between red and green. Once the display permanently lights up in red, perform the next step.*	
Hold the Master-Card in front of the reader. *An acoustic signal is issued and the display light goes off. All User-Cards were deleted from the system. Before the lock can be operated again, you must teach in at least one new user.*	

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