



M400 SV SimonsVoss Lock

Operating instructions

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GENERAL DESCRIPTION

The M400 electronic locking system is an electronic furniture lock. It is intended for indoor use 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. The user manual tells you how to install and operate the M400 system in the proper manner. To program the furniture lock, you will need the management software as well as the requisite hardware from SimonsVoss Technologies GmbH in Munich. The M400 system can be tailored to your personal requirements as it is very easy to use. It can be upgraded from a stand-alone system into a complex, convenient locking system and integrated into existing locking systems from SimonsVoss Technologies GmbH.

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OPERATING DESCRIPTION

The M400 electronic locking system provides you with a convenient means of locking and unlocking your furniture electronically. The M400 system allows you to issue selective access authorisations so that only authorised personnel are given access to specific items of furniture. Entire locking systems with different access levels can be configured without a problem. Each electronic control unit in the M400 system works autonomously, without being connected by cable to other control electronics or the power supply system. You can program different transponders with ease in each electronic control unit. In normal operation, the control electronics only respond to the transponders programmed.

Please note: The distance between the furniture locks must be at least 50 cm. A distance of at least 120 cm between the furniture locks is required, when several furniture locks are authorised with one transponder.

To operate the system, you will also need a transponder from SimonsVoss GmbH that is already in your possession or which you may purchase from your supplier or retailer.

SAFETY PRECAUTIONS

- On changing the batteries, ensure correct battery polarity and position!
- Dispose of spent batteries in the proper manner.
- Do not heat batteries, take them apart or short-circuit them.
- Never throw batteries into fire.
- The batteries must not be charged.
- Keep batteries 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.

ADVICE ON OPERATION AND CARE

- Do not pour any liquids into or over any of the system's components and never immerse the components in liquids.
- Transmission / reception range as well as reception quality may be affected by the building's structure, sources of electronic interference or superimposed frequencies.
- The receiver should not be exposed to direct sunlight.
- Clean the system with a clean, soft, damp cloth only.
- Do not use any cleaning products containing abrasives or solvents, such as glass, thinner, alcohol, benzene or ammonia, as they may react adversely with the enclosure.
- Treating any of the electronic and mechanical components improperly or in any way other than described in this user manual may lead to malfunctions.

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.

TECHNICAL SPECIFICATIONS

- To operate the system there must be a line of vision between transponder and receiver.
- The distance between the furniture locks must be at least 50 cm.
- Frequency: 25KHz. Be sure to observe national legislation on permissible wireless frequencies.
- The average transmission range of the transponder is approx. 30 cm. Depending on the structural conditions, the transmission/reception range may be limited or significantly increased.
- To program and start the system please refer to the system manual from Firma SimonsVoss Technologies GmbH. www.simons-voss.com
- Power supply for control electronics: battery type: 2x AA mignon cell, alkaline 1.5V.
- NiCd, NiMH or other rechargeable batteries as well as zinc-carbon or lithium batteries must not be used.

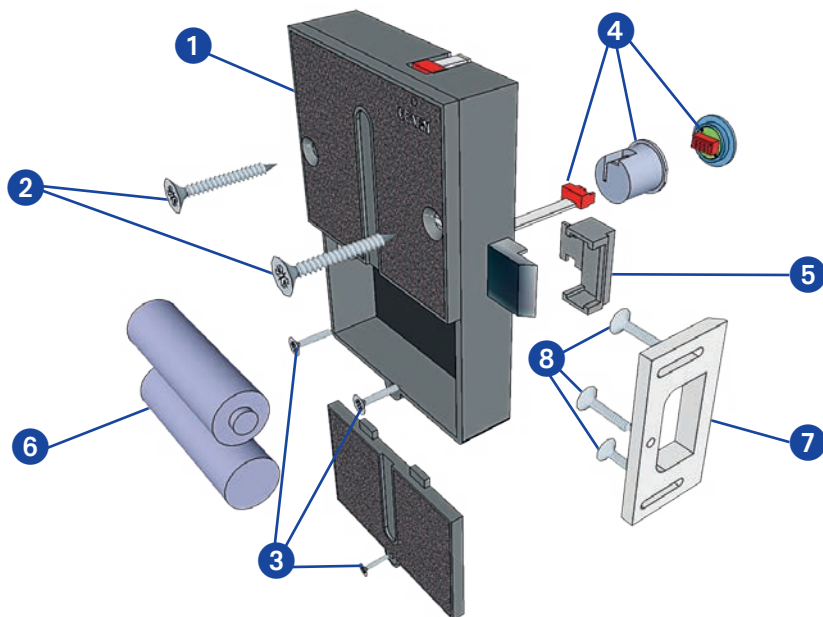
Temperature range:

Operation: +5 °C to +40 °C in 30% to 80% relative air humidity, non-condensing.

In storage: -25 °C to +70 °C in 30% to 80% relative air humidity, noncondensing.

All other aspects are subject to the technical information and regulations issued by SimonsVoss Technologies GmbH in Munich. www.simons-voss.com

SYSTEM COMPONENTS / PACKAGE CONTENTS



1 M400 SV Furniture lock



2 x Spax 3x30



Indicator unit



2 x 1,5V AA



Operating instructions



3 x Spax 3x13



Bolt protector



Striker plate

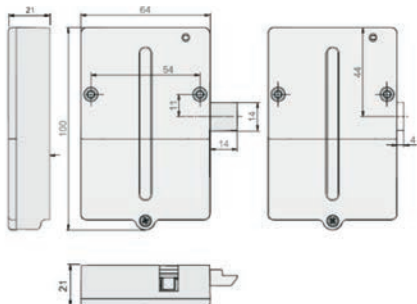


3 x Spax 3x13

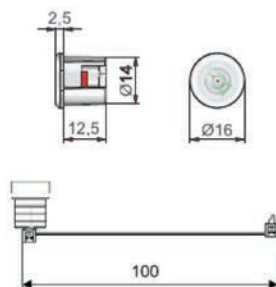


DIMENSIONS

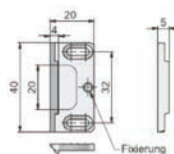
M400 Electronics



Indicator unit



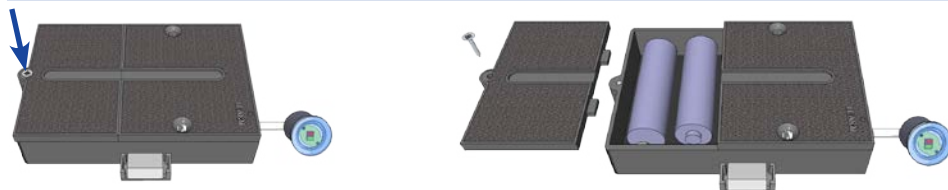
Striker plate



GETTING STARTED / CHANGING BATTERIES

Before installing the system, insert the batteries into the control electronics and program the furniture lock as described in the system manual from SimonsVoss GmbH. After programming, make sure the system works properly. Only install the furniture lock in furniture in an unlocked state.

- 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!

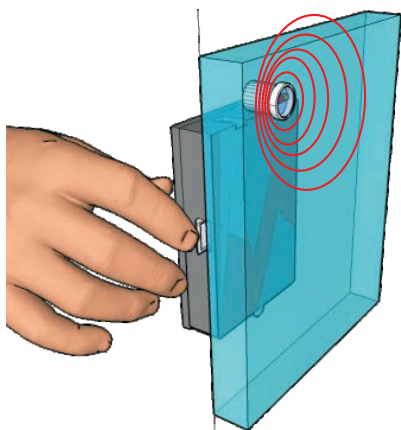
Rechargeable batteries, zinc-carbon batteries or lithium batteries are not permitted!

MONITORING THE STOP POSITION OF LOCK

The M400 is provided with a sensor that identifies when the bolt is extended and has reached its end position. A visual warning signal (indicator's red LED flashes) is given if the bolt fails to reach the end position after a locking command. If the bolt is already in the end position on receiving a locking command, no additional locking action is given. The spring mechanism allows you to close furniture even after engaging the lock with the door open.

Test function

- 1 Block the lock
- 2 Closing command from the device
- 3 Warning signal lights up



Optical warning on the display unit

LED colour: **RED**

Stop position of lock not reached

The closing operation could not be completed.
Locking bolt is blocked.

A detailed overview of all the optical signals on page 8.

FUNCTION CONTROL WITH TRANSPONDER

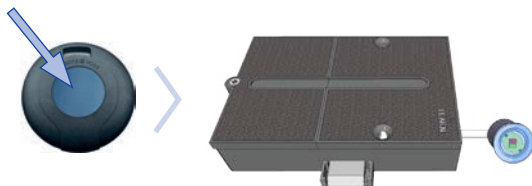
Check the open / close function of M400 before installation with the appropriate authorized transponder.



1 Transponder:
Press button



2 Bolt retracts



Optical display

LED-colour: **GREEN**



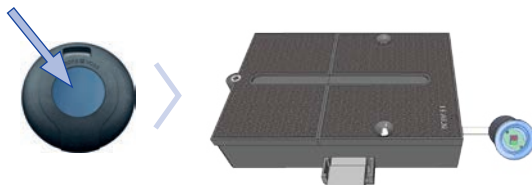
Pause
about 1 sec.



1 Transponder:
Press button



2 Bolt extends



Optical display

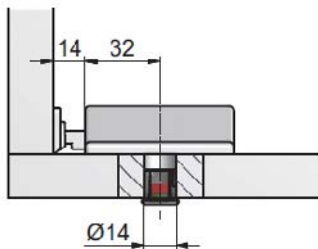
LED-colour: **RED**



Pause
about 1 sec.

A detailed overview of all the optical signals on page 8.

INSTALLATION OF OPTICAL DISPLAY

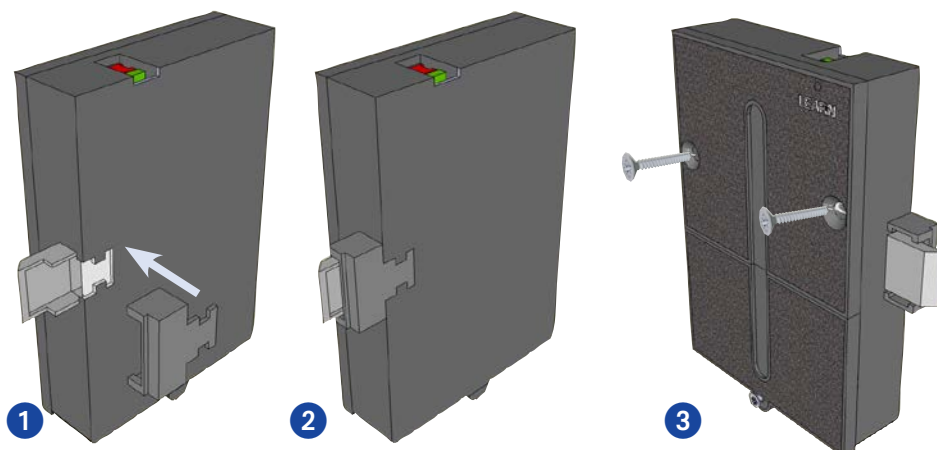


The visual indicator should be installed in such a way as to provide a good line of vision. If you install the visual indicator physically separated from the control electronics, the connecting cable between these system components must not exceed a length of 1 m.

Please refer to the fitting instructions from the manufacturer of your furniture for the correct way to attach the M400 system to your furniture. If you have any questions concerning system installation, contact a firm of cabinetmakers or your supplier before commencing installation.

INSTALLING THE 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.



LIGHT INDICATORS AND SIGNALS

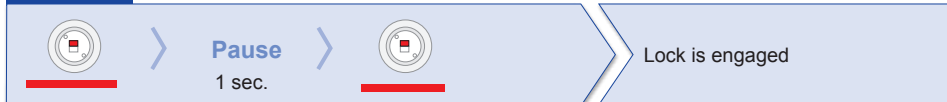
Light indicators in normal operation on locking and unlocking.

Light indicators

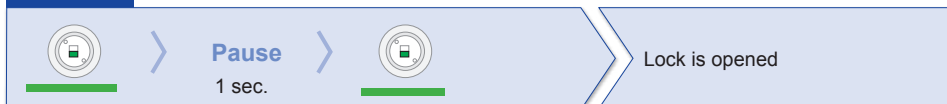
- flashing
- flashing
- lit



Lock



Unlock



Warning indicators on unlocking

Transponder lowbattery warning



Warning indicators on locking

Unauthorised transponder



Bolt does not reach end position



Low-battery warning level 1 based on example of „locking“



Low-battery warning level 2 based on example of „unlocking“



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