Technical specifications of the ELS Premium

Mechanical specification	Weight per set	Complete set 142 Gramm
Electrical specifications	Equipment class as per Directive 1999/5/EC	Class 2
	HF radiation output	max. 66 dBµA/m at 10m
	Frequency band	119 to 135 kHz
	Battery type	CR 123A 3V
Ambient conditions	Operating temperature	+5°C to +35°C (41°F to 95°F)
	Relative humidity operation	20% to 75% (not condensing)

Disposal

Danger!

The electronics of the ELS Premium contains a lithium-ion battery.
Dispose of this battery in accordance with national regulations.
When disposing of partly discharged batteries, ensure that no accidental short circuits can occur between the poles of the battery (for example due to key fob in pocket of clothing…): danger of explosion and fire.
Fasten the partly discharged battery for transport using non-conductive adhesive film in such a way that no short-circuits can occur.

Important!

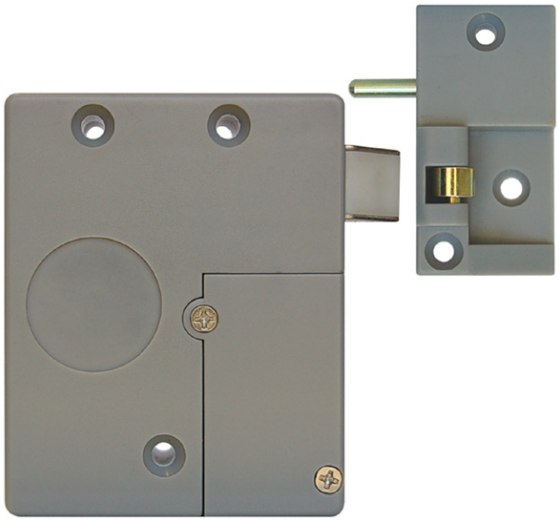
Separate electronics of the ELS Premium from the other parts and dispose of in accordance with local regulations and directives.

Warranty conditions

This product was designed and manufactured carefully. At the moment of purchase the warranty amounts 12 months for material and manufacturing failures. The warranty starts with the date of purchase for 12 months. The product can be exchanged prior to certification of the proof of purchase. The warranty conditions are limited to costfree exchange of the product or repair. Costs and risks caused by transport, installation or de-installation of the product and all other costs caused by the repairing will not be compensated. Liability for consequential loss—no matter which type—are strictly excluded.

SMART Technologies

RFID locking system ELS Premium



Installation– and Usermanual

Important!	The user's manual must be accessible for operators. In addition, general and local regulations on accident prevention and environmental protection are to be observed.

General safety instructions

Important!

If the door is closed when starting up or changing the battery without inserting the battery, the door cannot be opened via radio signals: it is necessary to break the door open.
Follow the exact instructions for installation and start-up of the radio systems and replacement of the batteries. Remove the flat battery and to prevent a malfunction, **wait at least 30 seconds before inserting a new battery.** Observe correct polarity **(+/-)** at the battery case and the battery itself.

Important!

During installation of the lock and strike plate, ensure that the door is not pre-stressed and stresses are not transferred to the locking system. There is a risk that the latch can no longer open ➔ malfunction.
Avoid doors which are pre-loaded with a rubber profile.

Intended use

Authorised opening of an electronic lock in wooden furniture with an encoded chip. This chip can be in the form of an ID-card (cheque card format) or key fob. Function of the lock is only warranted when mounted on not conductive materials (wood, plastic). The max. thickness of the material must not exceed **20 mm.** If used with higher material thickness or metal doors or doors with metal coatings an external antenna must be used.

Forseeable misuse

Use of the lock in explosive environments. Use of the lock outside of the stipulated specifications. For damage resulting from incorrect use the customer bears sole responsibility, the manufacturer accepts no liability whatsoever.

Conversions or modifications

Any type of modification to the ELS Premium is not permitted.
The electromagnetic conduct of the ELS Premium may be impaired by additions or modifications of any kind.
Therefore do not carry out any modifications or additions to electric/electronic components.

Replacement and wear parts and process materials

The use of replacement parts from third-party manufacturers may lead to dangers. Use only original parts or parts approved by the manufacturer.

Obligation of the user

The user undertakes only to allow persons to work with the ELS Premium who:

- have been instructed in working with the ELS Premium
- have read and understood this user's manual.

Warning signals of the ELS Premium

The lock is equipped with a 3V battery, which guarantees up to 20,000 openings. The battery level is automatically checked if no opening by radio signal has taken place within 30 days.

If the battery level is low or the 20,000 openings have been exceeded, the necessary battery replacement is indicated by an audible signal. Under certain circumstances, the signal may last for several days, in which case automatic unlocking of the lock takes place.

Aim of the ELS Premium

The ELS Premium is a compact, wireless furniture lock for cupboards and drawers. It is opened with an electric motor, when closed the system locks itself. Contactless chip technology is used as the "key". The system is "woken up" and opened by contactless identification via an authorised ID medium on the door.

The ID medium is simple to programme or delete. The installation of the lock with the spring-powered door opener is possible without drilling holes in the piece of furniture.

Functional description

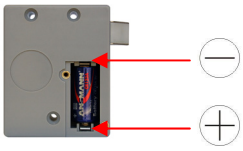
Authorised opening of an electronic lock in wooden furniture with an encoded chip (= ID medium). This chip can be in the form of an ID-card (cheque card format) or key fob.

ELS Premium installation

When unpacking, check whether the components as per the description are present.
Dispose of the packaging in accordance with the applicable regulations of your country.

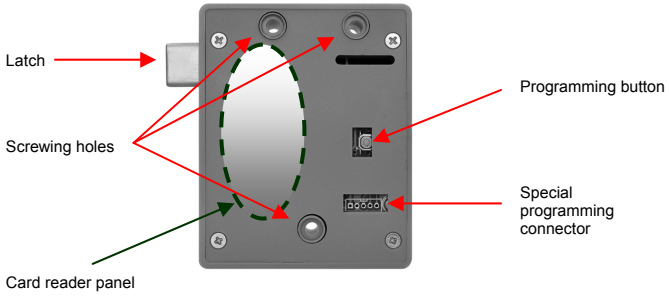
Insert battery

1. Normally the battery compartment is already open, the cover with screws is contained in an accessory bag. Otherwise, open the battery compartment by unscrewing the two M3x6 screws.
2. Remove the battery from the blister pack.
3. Insert the battery into the battery compartment. Observe correct polarity.



4. Screw on the battery case cover with the M3x6mm screws provided.
➔ The device is ready for programming.

ELS Premium general survey



Note!	Handling and use of the programming connector is designed for special applications and only to be used in connection with the programming modules. Ask your dealer or manufacturer for the products.

Program the ELS Premium

On delivery, the lock is neutral. Programming can be carried out/altered at any time, as described in the following. Standard configuration means wheater the programming card nor the data carrier is programmed. The audible signal is „on“ and the mode „standard“ is activated (automatically closing of the latch).
The programming procedure as described in the following, can be done/changed at every time.

1.) Store programming card: press the programming button of the lock for 3 seconds, until a long signal tone and immediately afterwards a ticking is audible for approx. 7 seconds. During the ticking, you must hold the programming card against the card reader panel, until a confirmation signal is audible.
➔ The programming card is now stored.
Note: When using a new programming card the memory will be erased (long signal).

2.) Store data carrier: hold the stored program card once against the card reader panel. A ticking is audible for approx. 7 seconds. During the ticking, hold the data carrier (key fob) against the card reader panel to read it in, until a confirmation signal is sounded (2 x 3 short beeps).
➔ The data carrier is now stored.

3.) Check data carrier for function: hold the data carrier once against the card reader panel.
➔ The confirmation signal is sounded again, the latch moves back and the lock opens. Repeat the process 2 to 3 times to store further data carriers. You can teach at maximum 1 programming card and 50 data carrier at once. The programming card and the data carrier can be teached in at several other locks.

4.) Delete stored data carriers **individually**: hold the programming card once against the card reader panel. A ticking is heard for approx. 7 seconds. During the ticking, hold the data carrier against the card reader panel to delete it, until a confirmation signal is sounded.
➔ The data carrier is deleted.

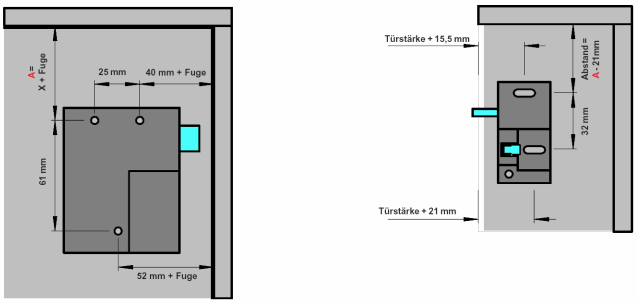
5.) Open the latch e.g. with programming card and hold the latch in this position: Put the programming card 4x to the card reader panel. The latch will hold open until a authorised data carrier will reset the hold open function.

6.) Delete all stored data carriers: hold the programming card against the card reader panel until after a few short signals a long confirmation signal is sounded.
➔ All saved data carriers are deleted, the latch is moved into the open position.

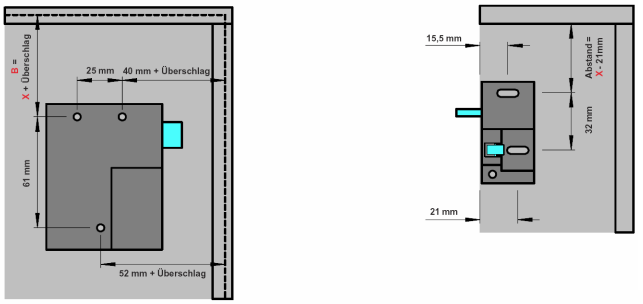
7.) Switch signal tone on or off: keep the programming button pressed for max. one second.
➔ The signal tone is switched off/on.

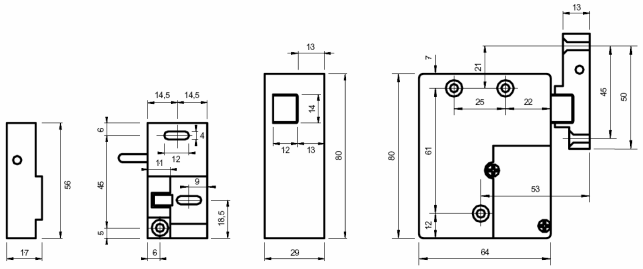
Install ELS Premium on furniture body and door

*Picture1:Lock and strike plate installation with flush closing door**



*and strike plate installation with door closing onto frame**





* *(Fuge = joint, Türstärke = door thickness, Abstand = distance, Überschlag = overlap)*

EEC Declaration of Conformity

in accordance with the directives

89/336/EEC 1993	Directive on electro-magnetic compatibility (EMC)
1999/5/EC 1999	Directive on radio systems and telecommunication end-devices and mutual recognition of their conformity (R&TTE)
2002/96/EC 2003	Directive on waste electric and electronic equipment (WEEE)
76/769/EEC 2005	Directive for restrictions on the marketing and use of certain hazardous substances and preparations (RoHS)

for the product: **ELS Premium**

The following harmonised standards are applied:

EN 33330-2 V1.3.1 : 04 2006	Electromagnetic compatibility and Radio spectrum Matters (ERM); Short Range Devices (SRD); Radio equipment in the frequency range 9 kHz to 25 MHz and inductive loop systems in the frequency range 9 kHz to 30 MHz; Part 2: Harmonized EN under article 3.2 of the R&TTE Directive
EN 301489-3 V1.4.1 : 2002	Electromagnetic compatibility and Radio spectrum Matters (ERM); Electromagnetic compatibility standard for radio equipment and services; Part 3: Specific conditions for Short-Range Devices (SDR) operating on frequencies between 9kHz and 40GHz
EN ISO 12100-1 : 2003	Safety of machinery – basic terminology, general design principles – part 1: general terminology, methodology
EN ISO 12100-2 : 2003	Safety of machinery – basic terminology, general design principles – part 2: technical principles
EN 1050 : 1996	Safety of machinery – principles for risk assessment
EN 50364 : 2001	Restriction of exposure of persons to electromagnetic fields of equipment which is operated in the frequency range from 0 Hz to 10 GHz and used in electronic article surveillance (EAS), radio frequency identification (RFID) and similar applications