



Sicherheitstechnik

DOM Sicherheitstechnik
GmbH & Co. KG
Postfach 1129
D-50301 Brühl/Köln
Tel. (00 49) 22 32 / 7 04-0
Fax (00 49) 22 32 / 70 43 75
www.dom-sicherheitstechnik.com
dom-deutschland@bdk.com

DOM AG Sicherheitstechnik
Breitenstraße 11
CH-8852 Altendorf
Tel. (00 41) 55 / 4 51 07 07
Fax (00 41) 55 / 4 51 07 01
dom-schweiz@bdk.com

DOM Sarl
214 Z.A. Les Petits Carreaux
2, avenue des Roses
F-94386 Bonneuil-sur-Marne Cedex
Tel. (00 33) 1 / 45 13 69 69
Fax (00 33) 1 / 43 39 03 57
www.dom-france.com
dom-france@bdk.com

DOM Sicherheitstechnik
Gesellschaft m.b.H.
Missindorfstraße 19-23
A-1140 Wien
Tel. (00 43) 1 / 9 82 66 66
Fax (00 43) 1 / 9 82 66 60
www.dom.at
dom-austria@bdk.com

DOM-Nederland
Postbus 1186
NL-2280 CD Rijswijk
Tel. (00 31) 70 / 3 19 30 06
Fax (00 31) 70 / 3 99 69 03
dom-nederland@hetnet.nl

DOM-NEMEF-Corbin
UK OFFICE European Division
Unit 1, Harolds Close
Harolds Road
GB Harlow/Essex, CM19 5TH
Tel. (00 44) 12 79 / 45 47 09
Fax (00 44) 12 79 / 45 47 11
dom-uk@bdk.com

Hoberg N.V.
Dorpstraat 444
B-3061 Leefdaal
Tel. (00 32) 2 / 7 67 33 02
Fax (00 32) 2 / 7 67 87 03
info@hoberg.be

I.A. Benidorm, S.L.
Plaza Jaime 1
E-03580-ALFAZ DEL PI
Alicante
Tel. (00 34) 96 / 5 88 99 08
Fax (00 34) 96 / 5 88 99 09
www.benidorm@ctv.es

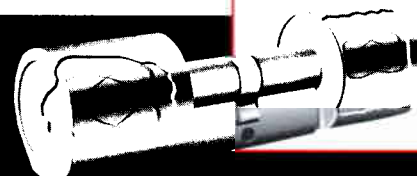
Corbin Co.
Hwd. Security Products
Via Modena 68
I-40017 San Giovanni in
Persiceto, Bologna
Tel. (00 39) 0 51 / 6 81 24 11
Fax (00 39) 0 51 / 82 74 86
corbin@corbin.it



Sicherheitstechnik

Montage- und Bedienungsanleitung

Assembly and Operating Instructions
Instructions de montage et d'utilisation
Montage- en Gebruiksaanwijzing
Instrucciones de montaje y funcionamiento



- 1a Cylinder knob with electronic module and mounted
- 1b Printed circuit protection
- 1c Battery insert
- 1d Inner knob (long)
- 1e Outer knob (short) and reading module
- 2 Retaining screw
- 3 Outer knob flange
- 4 Round nut
- 5 Spanner for round nut (Master Set)
- 6 Flange grip (Master Set)
- 7 Release tool (Master Set)
- 8 Master-ID-Card, Programming-Card
- 9 4 Transponder-locking devices

- 1a Bouton de cylindre avec module électronique et montage
- 1b Protection du circuit
- 1c Logement de batterie
- 1d Bouton intérieur (long)
- 1e Bouton extérieur (court) et module de lecture
- 2 Vis à manchon
- 3 Bride bouton extérieur
- 4 Ecrou cylindrique
- 5 Clef de écrou cylindrique (Master Set)
- 6 Contre bride (Master Set)
- 7 Outil de déblocage (Master Set)
- 8 Carte Master-ID, Carte de programmation
- 9 4 Dispositifs de transfert

- 1a Cilinderslot met elektronische module en gemonteerde
- 1b Printplaatbescherming
- 1c Batterijhouder
- 1d Binnenknop (lang)
- 1e Buitenknop (kort) en leesmodule
- 2 Bevestigingsschroef
- 3 Flens buitenknop
- 4 Rondmoer
- 5 Steeksleutel voor rondmoer (Master Set)
- 6 Contraflens (Master Set)
- 7 Ontgrendelgereedschap (Master Set)
- 8 Master-ID-Card, Programmeerkaart
- 9 4 Transponder-sluitmedia

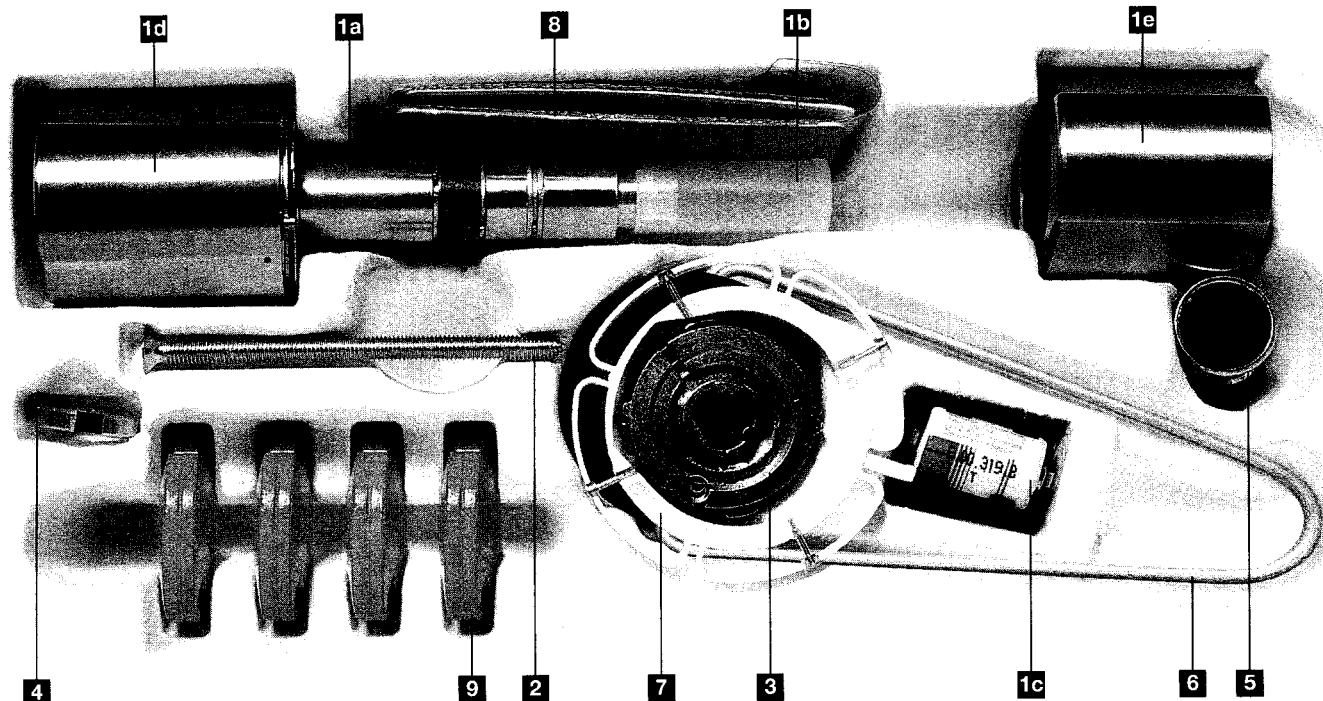
- 1a Cuerpo del cilindro con módulo electrónico y
- 1b Protección de las placas de circuito impreso ya colocada
- 1c Inserción de la batería
- 1d Picaporte interno (largo)
- 1e Picaporte externo (corto) y módulo de lectura
- 2 Tornillo de guarnición
- 3 Brida picaporte externo
- 4 Tuerca redonda
- 5 Llave de vaso para tuerca redonda (Master Set)
- 6 Contrapunta de apoyo brida (Master Set)
- 7 Herramienta de accionamiento (Master Set)
- 8 Tarjeta de identificación Master, Tarjeta de programación
- 9 4 medios Transponder de cierre

Assembly and Operating Instructions

Instructions de montage et d'utilisation

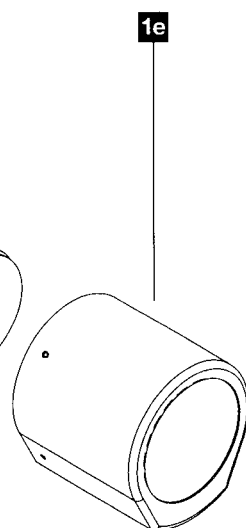
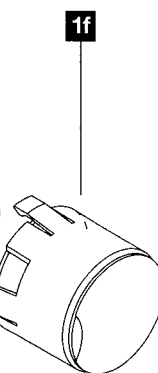
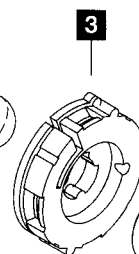
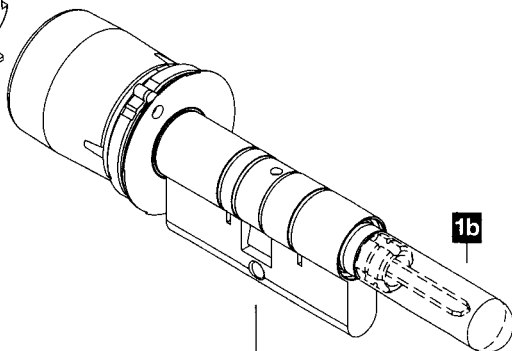
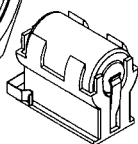
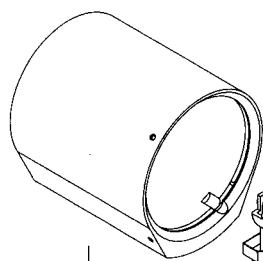
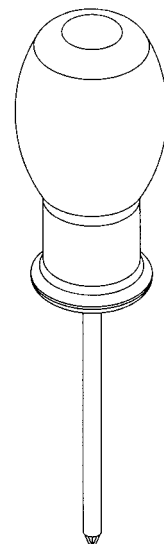
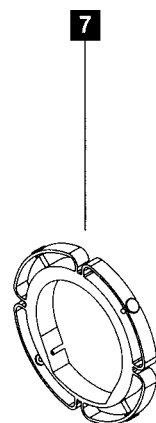
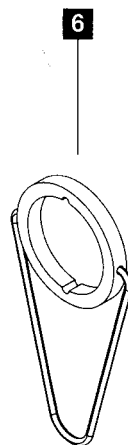
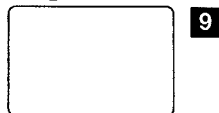
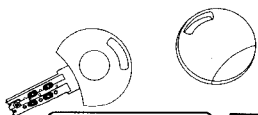
Montage- en gebruiksaanwijzing

Instrucciones de montaje y funcionamiento



- 1a Zylinderkörper mit Elektronik Modul und montiertem
- 1b Leiterplattenschutz
- 1c Batterieeinschub mit Batterie
- 1d Innenknopf (lang)
- 1e Außenknopf (kurz) mit Leseeinheit (verdeckt)
- 2 Stulpschraube
- 3 Flansch Außenknopf
- 4 Rundmutter
- 5 Steckschlüssel für Rundmutter (Master Set)
- 6 Gegenhalter Flansch (Master Set)
- 7 Auslösewerkzeug (Master Set)
- 8 Master-ID-Card, Programmier Karte
- 9 4 Transponder

Montage- und Bedienungsanleitung



CONTENTS

List of components offline ELS-cylinder	22
Assembly of the offline-cylinder	23
Battery change	25
Maintenance advice	26
Operating instructions	27

Important installation information

Incorrect installation will result in loss of the required locking function.

The reading side is always the outer knob – the door can only be unlocked with authorised transponders.

The electric module (with battery) is always the inner knob. In this case, the door can be unlocked at any time without a transponder.

List of components offline ELS-cylinder

- 1a. Cylinder knob with electronic module and mounted
- 1b. Printed circuit protection
- 1c. Battery insert with battery
- 1d. Inner knob (long)
- 1e. Outer knob (short)
- 1f. Reading module
2. Retaining screw
3. Outer knob flange
4. Round nut
5. Spanner for round nut
6. Flange grip
7. Release tool
- 8a. Master-ID-Card*
- 8b. Programming-Card*
9. 4 Transponder-locking devices*

Assembly and Operating Instructions

* Indicates only components of the Master set!

For assembling the retaining screw, you will also require a phillips hand screwdriver.

Assembly of the offline cylinder on the door

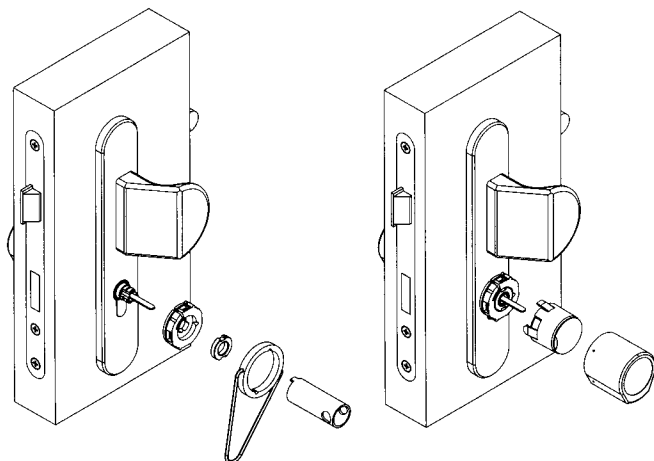
! Assemble and programme only when the door is open!

Preliminary remark:

The escutcheons must be assembled completely. Only escutcheons without covered core (protection against removal), i.e. only with free pz-opening can be used.

1. Remove packaging from the cylinder (1a) using both hands.
Caution: the inner knob (1d) is loose on the electronic module.
Do not remove printed circuit protection (1b)!
2. Remove inner knob (1d).
Insert battery insert (1c) with the side without the plastic ring (negative battery pole) into the recess of the electronic module until the hooks stop the battery insertion. (Refer also to battery change)
3. Slide on the inner knob (1d) as follows: align inner knob in such a way that the recesses on the inner side of the knob match the alignment keys of the flange, then push firmly until fully home.
4. Put locking nose in line with the body.
5. (Refer to illustration II).
Push the cylinder (1a) from the inside of the door through the pz-opening of the escutcheon. Please push through carefully through the lock so as to not damage the printed circuit.
6. Fix the cylinder with the retaining screw (2), but do not tighten.
7. Carefully pull off printed circuit protection (1b).
8. (Refer to illustration III)
screw outer knob flange (3) onto the threaded neck, with the recessed position for the round nut (4) to the front (that means toward the person assembling).

9. Screw the round nut (4) onto the threaded neck **by hand**. The torque must be a maximum of 12 Nm.



Loading in excess of this level can cause serious damage to the device. The repair of resulting damages is not included in the scope of our guarantee.

10. Push assembly tool "flange grip" (6) on to the flange.
11. Hold the flange with the counter flange (6) and tighten the round nut with the help of the spanner (5). Remove assembly tools!
12. Push on the reading module as follows: align the **white and grey rectangle** on the inner side of the reading module in such a way that it is at the same printed circuit edge as **the bore hole of the flange**.
13. Position the reading module aligned with the plug on the printed circuit. Press the plug on to the printed circuit so that the plug remains parallel and so there is no rotation.
14. **Ensure that all alignment pins lie in the recesses of the flange and correct if necessary (push slightly).** Check by using the MASTER-ID-CARD. Offer the Card and if a "beep" is heard installation is correct.
15. Align outer knob (1e) so that the recesses on the inner side of the knob are aligned to the pins of the flange. Push the outer knob firmly until fully home.
16. If the outer knob cannot be pushed, check that the reading module is situated in the correct position on the flange (compare to 12.)
17. Ensure outer knob is positioned correctly by slightly pulling it.
18. Align cylinder so that both knobs can be rotated freely, that means if door is open both knobs can be rotated without resistance (i.e. without grinding). Tighten the retaining screw in this position.
19. Please ensure that both knobs can be rotated without resistance and cannot be pulled off.

! Read the operating instructions before commissioning!

Battery change

The 3.6-Volt Lithium-battery used by DOM is the latest for this type of unit.

The ELS-cylinder is equipped with a three-level low battery warning system that guarantees maximum security.

If the cylinder sounds a double beep on operation (first level of warning system) or if the locking medium must be shown twice (second level of warning system) a battery change is required. This is usually necessary after about 3 years or after more than 35.000 operations.

! On the third level of the warning system, the ELS-cylinder can only be opened once by showing the Master-ID-card.



■ Change battery as follows:

Note illustration

1. Slide the release tool (7) with side B facing door over the inner knob until the pins are aligned with the holes on the inner knob.
2. Push in all four pins using thumbs and index fingers of both hands at the same time.
3. Keep pins pushed down and carefully pull off knob.
4. Remove release tool from knob.
5. Pull out the battery insert (1c) on the plastic ring with the hook of the release tool.
6. Remove battery from the insert.
7. Insert new battery, **ensuring polarity is correct!**

! Only DOM-specific 3.6-Volt batteries may be used. These can be obtained from a DOM dealer.

8. Push battery into electronic module and engage.
9. Align inner knob so that the recesses on the inner side of the knob are in alignment with the flange pins, then push until fully home.

! The cylinder will sound a beep (same sound as before the change) on the first operation after a battery change, as it does not register the new battery until then.

! In case of possible malfunctions, please always consult a qualified dealer!

Maintenance

The DOM ELS knob cylinder is maintenance free!
Do not use oil, graphite or similar materials!

Only use a soft damp leather cloth to clean the knob front.

Operating Instructions

The DOM ELS MASTER-ID-CARD	28
The PROGRAMMING-CARD	28
The USER KEY (Locking medium, e.g. card, key ring etc.)	28
Preliminary remark concerning operation	28
Creating system membership	29
Creating Programming-cards	29
Programming of user keys	30
How to cancel individual user keys	31
How to cancel all user keys	32
Examples	34
Setting up a small system for a private house	34
Creating a unit with several programming-cards	36
The ELS-programming unit makes everything even simpler	38
ELS-Software makes daily routines easier with added convenience!	38

■ The DOM ELS-Master-ID-Card

The MASTER-ID-CARD is supplied in the form of a transponder chip card.

With the MASTER-ID-CARD the membership of ELS-system components (cylinder) is set. The MASTER-ID-CARD can also be used as a PROGRAMMING-CARD.

PROGRAMMING-CARDS and USER KEYS can be created and cancelled with the MASTER-ID-CARD.

A MASTER-ID-CARD is supplied only once. If the card is lost, a duplicate cannot be made. A new MASTER-ID-CARD can only be made in the Dom-factory.

! In order to make a new MASTER-ID-CARD the user must have authorisation as well as a valid programming-card or a valid programming unit.

■ The Programming-card

The PROGRAMMING-CARD is a systems-card like the MASTER-ID-CARD.

The PROGRAMMING-CARD enables the user to create and to cancel user keys for the system.

Every PROGRAMMING-CARD can be used individually per unit or as a superordinate PROGRAMMING-CARD for several or all units.

■ The User key

(Locking medium, for example card, key ring etc.)

The USER KEY is the individual authorisation for various people within the ELS. If the user key is recognised as valid by the ELS-CYLINDER, the user is able to open the door.

The USER KEY can be created within the system as an individual key, a group key or a master key.

! Programme only with the door open and check programming before you close the door!

Preliminary remark concerning operation:
Move the outer knob before each input, as operation in order to activate the cylinder!

■ Creating the system membership

The ELS-Cylinder is ready to be programmed on delivery. Programming of the ELS-cylinder only takes place when the system membership has been set.

This setting is a unique process.

■ How to inform the ELS-cylinder of system membership

1. Move the outer knob
The ELS-cylinder awaits your input within 3 seconds.
2. Offer the MASTER-ID-CARD to the front of the outer knob. Reading of the MASTER-ID-CARD is acknowledged by a beep.

System membership has been established.

The ELS-CYLINDER signals the end of the routine with a double beep.

■ Creating programming-cards

PROGRAMMING-CARDS can be used as superordinate cards for all cylinders, as PROGRAMMING-CARDS for certain areas or as PROGRAMMING-CARDS for just one special cylinder.

■ How to create a new programming-card

! The ELS-Cylinder must previously have received system membership.

1. Move the outer knob.
The ELS-cylinder awaits your input within 3 seconds.
2. Offer the MASTER-ID-CARD to the front of the outer knob.

Reading of the MASTER-ID-CARD is acknowledged by a beep.

3. Wait approximately 3 seconds.
The cylinder sounds a beep.
– Ready for reading –

Waiting times of more than 3 seconds
will end the routine automatically.
A double beep signals the message END.

4. **Offer the PROGRAMMING-CARD to the front of the outer knob;**

Reading of the PROGRAMMING-CARD is acknowledged by a beep.

The PROGRAMMING-CARD has been saved.

The ELS-CYLINDER signals the end of the routine with a double beep.

To cancel programming-cards refer to
page 37 "Master-cancellation"

■ Programming of user keys

In order to programme USER KEYS a PROGRAMMING-CARD or a MASTER-ID-CARD and the USER KEY, which are to be read, are required.

With the aid of the PROGRAMMING-CARD, you can switch the ELS-CYLINDER into programming mode and you can then read all USER KEYS, which are required for a cylinder.

■ How to create new user keys in the ELS-CYLINDER

1. **Move the outer knob;**
The ELS-cylinder awaits your input within 3 seconds.
2. **Offer the PROGRAMMING-CARD or the MASTER-ID-CARD to the front of the outer knob;**
Reading of the PROGRAMMING-CARD is acknowledged by a beep.

3. **Keep all USER KEYS which have to be programmed ready.**
Wait approximately 3 seconds;
The ELS-CYLINDER sounds a further beep;
– Ready for reading –

Waiting times of more than 3 seconds
will end the routine automatically.

A double beep signals the message END.

4. **Hold the first USER KEY in front of the outer knob;**

Reading of the USER KEY is acknowledged by a beep.

5. **Hold the next USER KEY in front of the outer knob;**

Reading of the USER KEY is acknowledged by a beep.

6. **Repeat the process until all USER KEYS have been read.**

The USER KEYS have been saved.

The routine stops automatically if no input has been received for over 3 seconds. A double beep sounds automatically to signal the end of the routine.

You can also stop the routine yourself by offering the programming-card to the front of the outer knob after the final USER KEY has been read.

■ Cancelling of user keys

The ELS-Cylinder enables you to cancel USER KEYS individually as well as collectively.

To cancel an individual USER KEY a PROGRAMMING-CARD and the USER KEY, which is to be cancelled, are required.

To cancel all authorised USER KEYS only the PROGRAMMING-CARD is required.

■ How to cancel individual user keys

1. **Move the outer knob;**
The ELS-cylinder awaits your input within 3 seconds.
2. **Offer the PROGRAMMING-CARD to the front of the outer knob;**
Reading of the PROGRAMMING-CARD is acknowledged by a beep.
3. **Wait approximately 3 seconds;**
The ELS-CYLINDER sounds a further beep;

– Ready for reading –
Waiting times of more than 3 seconds
will end the routine automatically.
A double beep signals the message END.

4. **Offer the PROGRAMMING-CARD to the knob again. Wait approximately 3 seconds;**
The ELS-CYLINDER sounds a further beep:
– Ready for reading –

5. **Hold the USER KEY, which is to be cancelled, in front of the outer knob;**
Reading of the USER KEY is
acknowledged by a beep.

6. **Hold the next USER KEY, which is to be cancelled, in front of the outer knob;**
Reading of the USER KEY is
acknowledged by a beep.

7. **Repeat the process until all USER KEYS, which are to be cancelled, have been read.**

The USER KEYS have been read and
are cancelled.

A double beep sounds automatically
to signal the end of the routine.

You can also stop the routine yourself by
offering the programming-card to the front
of the outer knob after the final USER KEY has
been read.

■ How to cancel all user keys

Cancelling of all USER KEYS is necessary in case a
USER KEY has been lost.

The lost USER KEY is no longer available and can
therefore not be programmed out.

1. **Move the outer knob;**
The ELS-CYLINDER awaits your
input within 3 seconds.

2. **Offer the PROGRAMMING-CARD to the front of the outer knob;**
Reading of the PROGRAMMING-CARD
is acknowledged by a beep.

3. **Wait approximately 3 seconds;**
The ELS-CYLINDER sounds a further beep;
– Ready for reading –

Waiting times of more than 3 seconds
will end the routine automatically.
A double beep signals the message END.

4. **Offer the PROGRAMMING-CARD to the knob again.**
The ELS-CYLINDER sounds a further beep:
– Ready for reading –

5. **Wait approximately 3 seconds;**
The ELS-CYLINDER sounds a further beep:
– Ready for reading –

6. **Offer the PROGRAMMING-CARD to the knob for the third time;**
The cancellation of the USER KEYS is
acknowledged with a double beep.
All existing USER KEYS are now cancelled.

Examples

■ Setting up a small system for a private house

Data:

- 1 ELS-Cylinder in the front door,
- 1 MASTER-ID-CARD,
- 1 USER KEY each for father, mother and daughter and one spare USER KEY

The family purchases an ELS-CYLINDER and assembles it. After assembling, programming starts:

1.  move outer knob
2. offer MASTER-ID-CARD in front of the outer knob
 "beep",
3.  3 seconds pause
 "beep",
4. present mother's USER KEY
 "beep",
5. present daughter's USER KEY
 "beep",
6. present father's USER KEY
 "beep",
7.  pause of more than 3 seconds
 "beep", "beep",
8. **The three USER KEYS are now authorized.**

During the family's holiday, the neighbour will look after the house. He therefore requires an authorised USER KEY.

1.  move outer knob
2. offer MASTER-ID-CARD in front of outer knob
 "beep",
3.  3 seconds pause
 "beep",
4. present spare key
 "beep",
5.  pause of more than 3 seconds
 "beep", "beep",
6. **The spare key is now authorized and can be used by the neighbour**

After the holiday, the neighbour returns the spare key. To be on the safe side, the key is cancelled:

1.  move outer knob
2. offer MASTER-ID-CARD in front of outer knob
 "beep",
3.  3 seconds pause
 "beep",
4. run MASTER-ID-CARD in front of outer knob again
 "beep",
5.  3 seconds pause
 "beep",
6. present spare key
 "beep",
7.  pause of more than 3 seconds
 "beep",
8. **The spare key is cancelled.**

If the neighbour does not return the key:

Offer the MASTER-ID-CARD to the front of the outer knob three times (see also page 31) in order to cancel all USER KEYS. Only the keys of the family members are then set up again.
The original state is restored.

■ Creating a unit with several programming-cards

Data:

- 5 ELS-Cylinders, 3 in external doors,
2 in the computer-area
- 1 MASTER-ID-CARD with the end user
- 1 PROGRAMMING-CARD with the caretaker,
- 1 PROGRAMMING-CARD with the IT manager /
managing director
- [n] USER KEYS

After the ELS-CYLINDER is assembled, the director sets up the system membership.

The director sets up the caretaker's PROGRAMMING-CARD externally on all three external doors. The caretaker is now authorised to programme and to cancel the USER KEYS for the outer area.

The director uses his MASTER-ID-CARD in the computer-area to set up the IT manager's PROGRAMMING-CARD. The IT manager can now create USER KEYS for his area and can cancel them. The caretaker using his PROGRAMMING-CARD is unable to create or cancel USER KEYS in the computer-area.

Afterwards the MASTER-ID-CARD is stored securely in the safe.

The director can at any time intervene in the existing system configuration with the MASTER-ID-CARD:

- He is able to programme and cancel USER KEYS with his MASTER-ID-CARD.
- He is able to create and cancel PROGRAMMING-CARDS with his MASTER-ID-CARD.
- He is able to cancel all USER KEYS and all PROGRAMMING-CARDS at each ELS-CYLINDER at any time.

The Master Cancellation:

1.  move outer knob
2. offer MASTER-ID-CARD in front of outer knob
-  "beep",
3.  3 seconds pause
-  "beep",
4. offer MASTER-ID-CARD in front of outer knob again
-  "beep",
5.  3 seconds pause
-  "beep",
6. offer MASTER-ID-CARD in front of outer knob for the third time
-  "beep",
7.  pause of more than 3 seconds
-  "beep", "beep",
8. **All authorized USER KEYS and PROGRAMMING CARDS are cancelled**

■ The ELS-programming unit makes everything even simpler!

You can

- hold USER KEYS in front of the reading head of the programming unit to be read. Key(s), which have been read in this way, are then simply transmitted by the programming unit to the ELS-CYLINDER. Of course without any contact.
- input USER KEYS by hand from your desk. All you require is the list of key numbers.
- maintain authorisation for several ELS-CYLINDERS at the same time.
- read data and entries from off the lock.
- cancel individual USER KEYS in a few steps.

■ ELS-Software makes daily routines easier with added convenience

All the above mentioned procedures can be carried out using the 32-bit operating system (Windows 95 / 98 / NT 4.0).

In future you can

- transmit data from the PC directly to the ELS-CYLINDERS and the ELS-CYLINDERS will of course also transmit their current data directly to the PC.
- transmit data directly to the programming unit, then from the programming unit to the ELS-CYLINDER.
- save your data to be retrieved at any time in a data base.
- take a look at all events and entries at any time.
- link USER KEYS directly with the matching picture of the user.
- set time zones for the USER KEYS.
- etc., etc., etc