



**BURG  
WÄCHTER**

# Electronic door lock TSE | PRIME

SET 5021 PINCODE



SET 5022 FINGERSCAN



SET 5013 E-KEY



Ingeniously safe.  
Ingeniously simple.



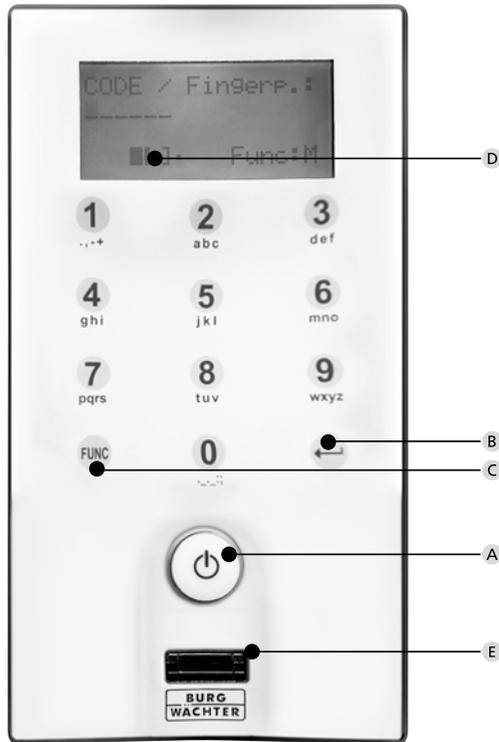
**en** Assembly  
and User Manual

BA/MA TSE Set 5021,5022,5013 dp/sds 06/2016



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TSE Keypad FS

## Image

- A On button**  
Activation of the keypad for entry of an opening code.
- B Enter button**  
Selection of a menu item.
- C Function button**  
The function button provides for a variety of actions depending on the actual status of the keypad. The display indicates, which function is active.
- 1) Entry into the menu for programming**  
When the "Func:M" symbol is displayed, the menu can be reached by pressing the "Function" button. In the menu, the buttons "1" and "2" can be used as a scroll function to navigate through its structure.
- 2) Deleting an entry action**  
When the "Func:C" symbol is displayed, the last entry can be cancelled by pressing the "Function" button.
- 3) Entry into the previous programming level / Back**  
When you are in the menu, the symbol "Func:<" is displayed. By pressing the "Function" button, you return into the menu structure on the next higher level.
- D Battery status indication**  
 ■■■■ Battery full [ \ ] Battery empty  
 The display indicates the battery statuses of the cylinder unit and the keypad unit. The indication on the display concerns the batteries with the lowest status. In case a battery is empty, the display indicates as follows:  
*Replace the battery inside the keypad or replace the battery inside the knob.*  
 When the battery has been replaced and then the opening code has been entered twice, the actually lowest battery status is displayed. When only a single battery set is replaced, the display can still indicate an "incomplete" status, despite the replacement. In case you do not replace the batteries in spite of the replacement indication, you will have to enter the valid opening code once more in order to open the door. At the same time, the LED of the inner knob flashes 5x5 times. You can still open the door in this way approx. 50 times. Then it can only be opened using the administrator code. Now the batteries must be replaced, otherwise the door cannot be opened any more.
- E Fingerscan-Sensor**  
To open with or register the particular finger.

Dear customer,

Thank you very much for your decision for the TSE Series 5000 electronic locking system by BURG-WACHTER. This system has been developed and manufactured using the latest technical potential and satisfies high security requirements. The electronic cylinder can be used easily without any drilling and installation of cables in any door prepared for profile cylinder up to a door thickness of 118mm (59/59, measured at the central detent bolt). The electronic cylinder is perfectly suitable for both new installations and upgrading.

Besides this, you have diverse additional options, e. g. on which identification medium shall be used. You can find out more on the following pages.

**Remove the battery protection strip from the inner knob in order to energise the cylinder.**

**Important:** Please read the entire User Manual before you start programming. We hope you enjoy your new locking system.

## TSE Set 5021 PINCODE

The electronic cylinder operates using a 6-digit numeric code. Optionally, the TSE 5103 E-KEY remote key can as well be used.

### Functions (standard)

- Total number of users: up to 48
- Also an E-KEY can be assigned to each pin code user (except for administrator).

### Optional locking media

- TSE 5103 E-KEY remote key

### Additional functions available using the optional TSE Software, for example:

- User administration
- Time and calendar functions
- Assignment of authorisations
- History functions

### Administratorcode

- Factory set to 1-2-3-4-5-6 (please be sure to change)

### Optical signalling

The optical signal in form of a LED is incorporated in the knob on the inner side of the door. This LED informs you on the following:

- 1 xbrief: lock has been opened
- 2 xbrief: lock has been shut
- every 5 sec. 1 x brief: permanent opening activated
- 1 x brief, 1 x long, 2 sec. pause, repetition: lock in programming mode
- 5 x brief, 2 sec. pause, repetition after 20 sec.: cylinder battery empty

## Technical data

<b>Blocking times</b>	After 3 x wrong code is entered 1 minute, then always 3 minutes
<b>Display</b>	Adjustable to 12 languages
<b>Power supply for keypad</b>	2 xMIGNON LR6 AA ALKALINE
<b>Power supply for cylinder</b>	2 xMIGNON LR6 AA ALKALINE
<b>Permissible ambient conditions*</b>	-15°C/+50°C/up to 93% rel. air humidity (noncondensing) Allowed temperature range: -20°C/+50°C As a result of extreme temperature changes, the display can react slowly or darken.
<b>Keypad protection</b>	IP65

\*In case the temperature exceeds the specified range, a corresponding warning message is indicated on the display. Provide for appropriate corrective action!

## TSE Set 5022 FINGERSCAN

The electronic cylinder operates using a fingerscan. In addition, the cylinder can be operated by entering the 6-digit numeric code, or also using the optionally delivered TSE 5103 E-KEY.

In add. to that, you can also use the 6-digit numeric code, as well as the TSE 5103. E-Key in order to control the cylinder.

Up to 24 fingers can be programmed using the keypad. The users are created separately (USER XXX\_FP). If a code and/or an E-KEY should additionally be assigned to a user, it needs to be created separately.

**Attention!** The fingerscanner must not be cleaned with detergents. Please use a slightly moist cloth for this purpose.

### TSE 5022 FINGERSCAN functions (standard)

- Total number of users: up to 48, out of which 24 can be programmed with fingerscan
- One E-KEY can be assigned to each code user (except administrator)
- Also a code can be assigned to every E-KEY user

### Optional locking media

- TSE 5103 E-KEY

### Additional functions available using the optional TSE Software, for example:

- User administration
- Time and calendar functions
- Assignment of authorisations
- History functions

### Administrator code

- Factory set to 1-2-3-4-5-6 (please be sure to change it)

### Optical signalling

The optical signal in form of a LED is incorporated in the knob on the inner side of the door. This LED informs you on the following:

- 1 xbrief: lock has been opened
- 2 xbrief: lock has been shut
- every 5 sec. 1 x brief: permanent opening activated
- 1 x brief, 1 x long, 2 sec. pause, repetition: lock in programming mode
- 5 x brief, 2 sec. pause, repetition after 20 sec.: cylinder battery empty

## Technical data

<b>Blocking times</b>	After 3 x wrong code is entered 1 minute, then always 3 minutes
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<b>Permissible ambient conditions*</b>	-15°C/+50°C/up to 93% rel. air humidity (noncondensing) Allowed temperature range: -20°C/+50°C As a result of extreme temperature changes, the display can react slowly or darken.
<b>Keypad protection class</b>	IP55

\*In case the temperature exceeds the specified range, a corresponding warning message is indicated on the display. Provide for appropriate corrective action!

## TSE Set 5013 E-KEY

The electronic cylinder operates using the E-KEY remote key. The principle of its function is similar to that of the car locking system. The cylinder can be controlled when the button is pressed once. The E-KEY can be subsequently programmed by means of a keypad or of a TSE software. The radio range of the E-KEY is up to 3 m.

### TSE 5013 E-KEY functions (standard)

- Total number of users: up to 48

### Optional locking media

- TSE 5151 Keypad PIN
- TSE 5152 Keypad FS (up to 24 fingerscans possible)

### Additional functions available using the optional TSE Software, for example:

- User administration
- Time and calendar functions
- Assignment of authorisations
- History functions

### Administrator code

The code is delivered separately on a sticker. It shall be carefully preserved.

**Attention:** If it is lost, any programming changes or the use of all the administrator functions are no more possible.

### Power supply for the cylinder

- 2 x MIGNON LR6 AA ALKALINE

### Power supply for the E-KEY

- 1 x CR 2032

### Optical signalling

The optical signal in the form of a LED is incorporated in the knob on the inner side of the door. This LED informs you on the following:

- 1 x brief: lock has been opened
- 2 x brief: lock has been shut
- every 5 sec. 1 x brief: permanent opening activated
- 1 x brief, 1 x long, 2 sec. pause, repetition: lock in programming mode
- 5 x brief, 2 sec. pause, repetition after 20 sec.: cylinder battery empty

### Opening

The TSE, depending on the version can be operated by use of a 6-digit code, or with fingerprint or with a TSE E-KEY.

### Opening with Pincode

- Press the  $\odot$  key
- Enter the 6 digit PIN code (factory-set to 1-2-3-4-5-6). The display indicates "Please use rotating knob!" and the LED integrated in the cylinder flashes once when the opening is successful.
- Turn the cylinder knob.

### Opening with E-KEY

- Press the button on the TSE E-KEY. The LED which is integrated in the cylinder flashes once upon successful opening.
- Turn the cylinder knob.

**When using the opening procedure with an E-KEY, please note that the keypad should not be previously activated using the  $\odot$  key!**

### Opening with Fingerprint

- Press the  $\odot$  key
- Move the registered finger from the top to the bottom centrally over the sensor. The display indicates "Please use rotating knob!" and the LED integrated in the cylinder flashes once when opening is successful.
- Turn the cylinder knob.

## Description of menu functions

The functions for the products **TSE 5021** and **TSE 5022** are described below.

### Code change menu

#### Changing the administrator code and the user code

- Activate the keypad using the  $\odot$  key
- Then press FUNC, the "Code Change" menu is displayed
- Confirm your selection using  $\leftarrow$
- Now you can use the keys 1 or 2 to scroll until the administrator/user, whose user code should be changed, is displayed
- Confirm with  $\leftarrow$
- Enter the code valid so far (existing code) and press  $\leftarrow$
- Enter the new code and confirm it with  $\leftarrow$
- Repeat your entry and confirm it again with  $\leftarrow$  "Code change accomplished" is displayed after a correct entry

### Sprache/Language menu

#### Various submenus are available under the Administrator menu

- Activate the keypad using the  $\odot$  key
- Then press FUNC, the "Code Change" menu is displayed
- Scroll using the 2 key until reaching the Administrator menu
- Confirm with  $\leftarrow$
- Use the keys 1 or 2 to scroll until the required language is displayed
- Confirm with  $\leftarrow$

### Administrator menu

#### Various submenus are available under the Administrator menu

#### Create User with Code submenu

- Activate the keypad using the  $\odot$  key
- Then press FUNC, the "Code Change" menu is displayed
- Scroll using the 2 key until reaching the Administrator menu
- Confirm with  $\leftarrow$  The "Create User" menu item appears
- Confirm with  $\leftarrow$
- Scroll using the 2 key until reaching the "Create User: E-Key" item
- Confirm with  $\leftarrow$
- Enter the administrator code in order to acquire the authorisation for programming
- The next free memory cell is indicated (e.g. USER.003), press  $\leftarrow$
- Switch the E-KEY into programming mode (see instructions E-KEY)
- Confirm 2 x with  $\leftarrow$
- "Data has been saved" is displayed

#### Create User with E-Key submenu

- Activate the keypad using the  $\odot$  key
- Then press FUNC, the "Code Change" menu is displayed
- Scroll using the 2 key until reaching the Administrator menu
- Confirm with  $\leftarrow$  The "Create User" menu item appears
- Confirm with  $\leftarrow$
- Scroll using the 2 key until reaching the "Create User: E-Key" item
- Confirm with  $\leftarrow$
- Enter the administrator code in order to acquire the authorisation for programming
- The next free memory cell is indicated (e.g. USER.003), press  $\leftarrow$
- Switch the E-KEY into programming mode (see instructions E-KEY)
- Confirm 2 x with  $\leftarrow$
- "Data has been saved" is displayed

#### Create User with Fingerprint submenu

- Activate the keypad using the  $\odot$  key
- Then press FUNC, the "Code Change" menu is displayed
- Scroll using the 2 key until reaching the Administrator menu
- Confirm with  $\leftarrow$  The "Create User" menu item appears
- Confirm with  $\leftarrow$
- Scroll using the 2 key until reaching the "Create User: Fingerprint" item
- Confirm with  $\leftarrow$
- Enter the administrator code in order to acquire the authorisation for programming
- "Register finger" is displayed
- Move the finger to be registered several times centrally over the sensor (the number of moves is indicated on the display)
- "User\_XXX\_FP successfully registered" is displayed

#### Submenu Assign E-KEY

Using this function, you can subsequently assign an E-KEY radio code to an already existing user. For this purpose, proceed as follows:

- Activate the keypad using the  $\odot$  key
- Then press FUNC, the "Code Change" menu is displayed
- Scroll using the 2 key until reaching the Administrator menu
- Confirm with  $\leftarrow$
- Scroll using the 2 key until reaching the "Assign E-Key" item
- Enter the administrator code in order to acquire the authorisation for programming
- Scroll till reaching the user, to whom you intend to assign an E-KEY, and confirm 2 x with  $\leftarrow$
- Switch the E-KEY into programming mode (see instructions E-KEY)
- Once the E-KEY is in programming mode, confirm on the keypad with  $\leftarrow$
- "Data has been saved" is displayed

### Submenu Delete

Using this menu, you can delete a user or an E-KEY.

- Activate the keypad using the  $\odot$  key
- Then press FUNC, the “Code Change” menu is displayed
- Scroll using the 2 key until reaching the Administrator menu
- Confirm with  $\leftarrow$
- Scroll using the 2 key until reaching the “Delete” item
- Enter the administrator code in order to acquire the authorisation for programming
- Scroll till reaching the user or the identification medium (E-KEY) you wish to delete and confirm your selection 2 x with  $\leftarrow$
- “Data has been deleted” is displayed

### Submenu Time functions

This is intended for setting the time and date

#### • Setting the time:

- Activate the keypad using the  $\odot$  key
- Then press FUNC, the “Code Change” menu is displayed
- Scroll using the 2 key until reaching the Administrator menu
- Confirm with  $\leftarrow$
- Scroll with the button 2 until the menu item „Admin. Settings Timer functions „ is displayed
- Confirm with  $\leftarrow$
- „Time functions Time“ appears
- Confirm with  $\leftarrow$
- Enter the administrator code in order to acquire the authorisation for programming
- Enter the hour (2 digits), confirm with  $\leftarrow$
- Enter the minute (2 digits), confirm with  $\leftarrow$
- “Data has been saved” is displayed

#### • Setting the date:

- Activate the keypad using the  $\odot$  key
- Then press FUNC, the “Code Change” menu is displayed
- Scroll using the 2 key until reaching the Administrator menu
- Confirm with  $\leftarrow$
- Scroll with the button 2 until the menu item „Admin. Settings Timer functions „ is displayed
- Confirm with  $\leftarrow$
- „Time functions Date“ appears
- Confirm with  $\leftarrow$
- Enter the administrator code in order to acquire the authorisation for programming
- Enter the day (2 digits), confirm with  $\leftarrow$
- Enter the month (2 digits), confirm with  $\leftarrow$
- Enter the year (2 digits), confirm with  $\leftarrow$
- “Data has been saved” is displayed

### Submenu TSE Setup

General system settings

#### • Radio channel

The radio channel can be set up here (12 channels to select from). This might be required when the radio channel is already used by another application, e.g. WLAN, which can possibly lead to interference. In such case, please select another channel with a spacing of at least 3 channels.

#### • Priority

In case the door cannot be opened after several attempts with the E-KEY, the priority of the door can be increased by this function. Conversely, it might be advisable in such a case to reduce the priority of doors in a direct vicinity.

#### • Reorganize

The use of this function is recommended when several users have been deleted.

- Activate the keypad using the  $\odot$  key
- Then press FUNC, the “Code Change” menu is displayed
- Scroll using the 2 key until reaching the Administrator menu
- Confirm with  $\leftarrow$
- Scroll using the 2 key until reaching the “Admin. TSE Setup” menu item
- Confirm with  $\leftarrow$  The “TSE-Setup Reorganise” menu item appears
- Confirm with  $\leftarrow$
- Enter the administrator code in order to acquire the authorisation for programming “Reorganisation in progress” is displayed

#### • Register

After a replacement of the cylinder or the keypad, the two units have to be newly aligned, so that they can resume communication..

### Registration of a keypad

- Activate the keypad using the  $\odot$  key
- Then press FUNC, the “Code Change” menu is displayed
- Scroll using the 1 or 2 keys until reaching the Administrator menu
- Confirm with  $\leftarrow$
- Now scroll using the 1 or 2 keys until reaching the Admin. TSE Setup menu
- Confirm with  $\leftarrow$
- Now scroll using 1 or 2 keys until reaching the Admin. TSE Setup Register menu
- Confirm with  $\leftarrow$
- Enter the administrator code in order to acquire the authorisation for programming
- “Data has been saved” is displayed after a successful registration

**Attention:** Make sure that no other powered TSE unit is placed within a direct reach of the device when registering a new keypad of a new cylinder, as such unit could mistakenly be addressed instead of the intended one. When in doubt, disconnect such units from power.

#### • Energy-saving mode

With the setting of the power saving mode, an optimal power consumption of the units is ensured. The power saving mode can be switched on or off. If the mode is turned on, no programming of the unit can be performed via the PC software.

**By default upon delivery the power saving mode is turned on, thus for a possible programming via the PC software it has to be turned off.**

### Setting the power saving mode

- Activate the keypad using the  $\odot$  key
- Then press FUNC, the “Code Change” menu is displayed
- Scroll using the 1 or 2 keys until reaching the Administrator menu Confirm with  $\leftarrow$
- Now scroll using the 1 or 2 keys until reaching the Admin. TSE Setup menu
- Confirm with  $\leftarrow$
- Scroll using the button 1 or 2 as long as you reach the menu „TSE Setup power saving mode“
- Confirm with  $\leftarrow$
- Enter the administrator code for the unit you want to change
- Using the button 1 or 2 you can activate or deactivate the power saving mode
- Confirm with  $\leftarrow$
- “Data has been saved” is displayed

### Submenu FS reset

(Function only active with TSE Fingerprint units)

All stored fingerprints are deleted, however, the corresponding users are retained. Please select this menu and follow the instructions on the display in case of repeated errors related to the use of fingerprints.

### Menu E-KEY synchronisation

In this menu, the channel of the E-KEY can be adapted to the channel of the input unit. This function is necessary when the radio channel of the cylinder is modified, although E-KEYs with the old channel setup are still in use.

- Activate the keypad using the  $\odot$  key
- Then press FUNC, the “Code Change” menu is displayed
- Scroll using the 1 or 2 keys until reaching the KEY synchronization menu
- Confirm with  $\leftarrow$
- Enter the administrator code of unit that needs to be synchronised
- “Data has been saved” is displayed after a successful registration

**Attention:** Make sure that no other powered TSE unit is placed within a direct reach of the device when registering a new keypad of a new cylinder, as such unit could mistakenly be addressed instead of the intended one. When in doubt, disconnect these units from power.

### Info menu

The version and serial number of the system are displayed using this function. For security reasons, the complete serial number is indicated only in the administrator mode.

- Activate the keypad using the  $\odot$  key
- Then press FUNC, the “Code Change” menu is displayed
- Scroll using the 2 key until reaching the Info menu
- Confirm with  $\leftarrow$
- Serial numbers of the keypad (EA) and of the cylinder (AA) are displayed.

**Remark:** For security reasons, the serial number (AA) of the cylinder is not completely displayed before the entry of a valid administrator code.

## TSE E-KEY user instructions

The E-KEY is intended as radio transmitter for releasing the cylinder. The E-KEY can be subsequently programmed by means of a keypad or of a TSE software. The radio range of the E-KEY is up to 3 m. The principle of its function is similar to that of a car locking system. The cylinder can be controlled when the button is pressed once.

## Functions of E-KEY

### Door opening:

- Press 1 x briefly, green LED flashes
- Automatic function (only together with a keypad) Hold the button pressed for 6 seconds, green LED flashes briefly 2 x in a row
- Permanent mode (only together with optional software) Press the button 2 x, the green LED flashes always 2 x in a row per pressed button

In the automatic mode the door can be opened by pressing the  button on the keypad. For this purpose, the E-KEY must be within the radio range. This function will be deactivated automatically after a period of 15 minutes.

In the permanent mode, the door is unlocked for a period defined in the software without the need for entry of a code. When entering an opening code during this period, the permanent release will be deactivated.

### Programming mode:

The programming mode has three purposes:

- Registration of an E-KEY by means of a keypad or of the TSE software
- Synchronization of the radio signal set up in the E-KEY with the channel set in the lock
- Searching for the E-KEY within the TSE software

## Programming E-KEY

When programming the E-KEY for the first time, please press the button once (green LED flashes) when being required to do so by the keypad or by the software. When programming the E-KEY later on, please keep the button pressed for a period of 10 seconds, until the green LED flashes three times in a row. Then release the button.

### Remarks:

In case the door opens with a delay of 3 to 7 seconds after the button on the E-KEY is pressed once, and the red LED flashes, the battery (CR2032) in the E-KEY should be replaced immediately. In case the door opens with a delay of 3 to 7 seconds after the button on the E-KEY is pressed once, and the red LED does not flash, the batteries (2x 1.5V LR06 alkaline) in the cylinder should be replaced. This applies also to the keypad, if installed.

## E-KEY battery replacement

- 1 Open the housing cover by carefully forcing open the detent lugs.
- 2 Lift the silicon pad and replace the battery.
- 3 Clap the silicon pad back and close the cover.



## Keypad installation

The keypad is only included in TSE Prime PINCODE and TSE Prime FINGERSCAN sets.

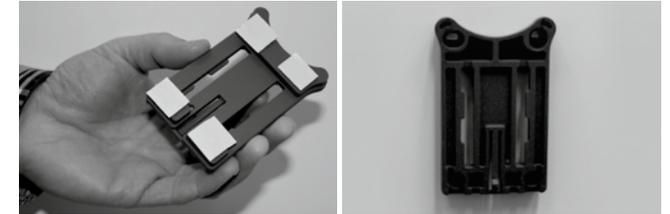
**Attention! Please remember that the keypad should not be attached to the door itself, otherwise it would transmit shocks when the door is being shut. The membrane affixed to the keypad rear side should not be sealed with glue and/or any other substance under any circumstances! Exchange of air must also be possible after the installation!**

- Determine the installation place for the keypad. For that purpose, enter the opening code (e. g. PIN code, fingerprint,...) at the desired mounting place and check whether the lock opens.
- Place the keypad correspondingly.

You can then decide whether you want to glue the wall holder directly on the wall or whether you prefer having it screwed on. The slotted holes in the wall holder provide for an exact alignment.

If you decide for gluing the wall holder, please be sure to provide for clean surfaces free from fat, oil and silicon films and any other impurities. Remove completely the protective film from the included adhesive pads, attach all the pads on the wall holder and then press the whole firmly to the required position. When mounting in colder temperatures, please remember that the full adhesive force cannot be achieved before 72 hours in 20°C, with warmth accelerating the process (e. g. in 65°C, the full adhesive force will be achieved in one hour).

When gluing the holder plate on the colour sight protection film, the above described conditions relating to cleanliness of surfaces and firmness of the adhesive pad should be observed.



To provide for a bubble-free application of the colour sight protection film, please proceed as follows:

- Pour some water with a couple of drops of dishwashing detergent into a glass, stir it cautiously free of foam, and then use it to moisture gently the surface, on which the film is to be applied.
- At an edge, pull off the white protective sheet from 1 cm of film and straighten it out. To change the position, lift this surface carefully and attach it again as required.
- Then swipe the adhesive film, e. g. with a plastic spatula, out from the contact surface in the direction of protective sheet still attached.

Attention! Do not use more liquid than absolutely necessary.

- Slide the keypad in from above until the locking peg of the mounting plate engages into the keypad housing. In this way, the keypad is protected against undesired removal.
- Perform a function test of the unit with the door open. For this purpose, enter repeatedly a valid opening code (e. g. PIN code, fingerprint,...).



## Battery replacement for the keypad

- Remove the housing cover on the bottom side by loosening the 2 screws (Tx 8).



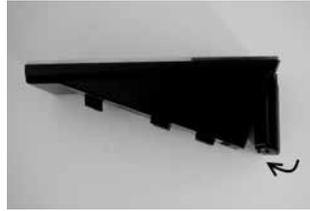
- Pull the battery compartment lid downwards until it disengages and replace the batteries.



**When inserting the new batteries, be careful to observe the correct polarity as indicated on the housing.**



- To close the battery compartment, first press the battery compartment lid close to the screw holes to make them slide into the recesses, then snap the bottom side into position by pressing on it.



- Fasten the battery compartment lid with screws.



**Attention!** Make sure that no moisture enters the keypad when replacing the battery.

## Cleaning instruction

The surface finish of the keypad prevents adherence of impurities. Dust or dirt can be removed from the surfaces using a damp cloth. No alcohol-based detergents (spirit, SIDOLIN® etc.) or aggressive detergents (acetone etc.) may be used, as they can damage the surface or the sensor.

## Assembly manual for TSE Cylinder

The installation of the TSE cylinder is described below.

Please read this Assembly Manual carefully before the assembly and then store it in a safe place.

The cylinder has a special detent system, offering you a possibility of using the cylinder for doors with a thickness up to 120 mm (60/60 mm, measured at the central detent bolt). No prior adjustment is necessary.

### Attention:

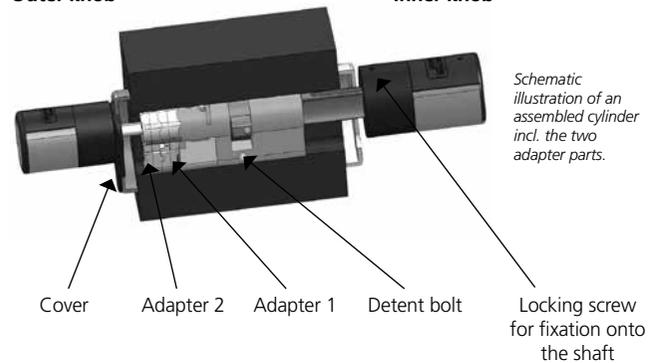
**Be careful to not bang the knob anywhere, as the knob can break in such case. The lock should not be greased or oiled.**

An incorporated locking screw in each knob is to fix the rotary knobs.

**Attention: Never pull the inner knob completely from the shaft, as this might cause damage to the electronics! The locking screw, which ensures the detent on the shaft, may be loosened only lightly and it always remains in the plastic knob, providing protection against pulling it out.**

Outer side  
Outer knob

Inner side  
Inner knob



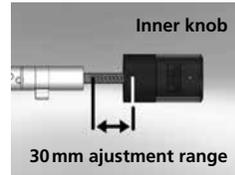
### Remark

The base size of the cylinder is 30 mm per side. When delivered, the cylinder is completely collapsed (the smallest door thickness). Before you insert the cylinder into the door, you should adjust it to your door thickness.

### When installing the cylinder, proceed as follows:

- 1 Take a rough measurement of the door thickness (incl. fittings)
- 2 Pull the outer knob from the shaft, move the inner knob over the detent system (spacing 2.85 mm) to the required dimension.

Attention: Never pull the inner knob completely from the shaft, as this might cause damage to the electronics!



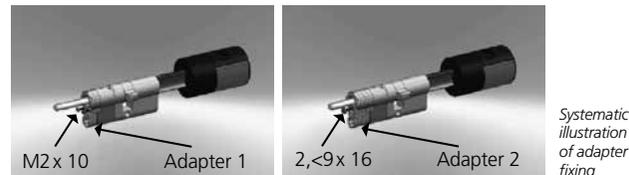
Schematic illustration of setup of the inner knob adjustment

- 3 Depending on the door thickness, you can affix an appropriate adapter on the outer side, in order to improve the path for the emergency key.

The following combinations are possible:

Space detent bolt/ fitting (mm) on the outer side	Adapter 1	Adapter 2	
< 43	–	–	
44–53	X	–	
54–60	X	X	X: selection –: not provided

Tab. 1: Space detent bolt/mounting [mm] on the outer side and the required adapter



- 4 Move the TSE cylinder from inside to outside through the mortise lock into the door and then tighten the detent bolt.



- 5 Shift the inner knob over the shaft until attaining the required dimension. Please make sure that the clearance between the rotary knob and the door mounting is at least 1 mm. Then fix the rotary knob using the hex key.
- 6 Before you fix the outer knob, please consider whether you wish to use the attached cover panel for the profile cylinder section. If so, remove the protective sheet and fix the cover panel onto the lock section.



- 7 Shift the outer knob into the required position on the shaft and fix it with a clearance of at least 1 mm from the mounting using the hex!

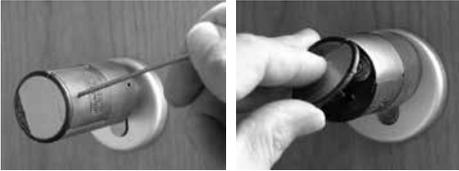


- 8 The function test must be made with the door open.

### Replacement of batteries – knob (inner side)

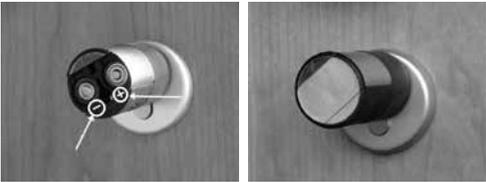
1 Using the attached hex key, loose the top locking screw on the cylinder cover. It can be turned out only up to the opening of the cover and will not fall out.

2 Open the cover



3 Replace the batteries. Make sure the batteries are inserted with the correct polarity, indicated at the marked point on the housing.

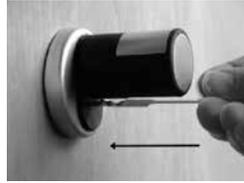
4 Replace the cover.



### Emergency key function (outer side)

Using the mechanical emergency key, you can provide access in case of failure of the system.

1 Swing the emergency key open and then insert it into the indicated slot in the cover panel.



2 Turn the key 90 ° clockwise. If required, move the outer knob slightly to the right and left in order to release the mechanism.

3 Turn the outer knob. The lock opens when fully turned at the latest.

Turn the key to its initial position and take it out. To close the emergency lock, the knob shall be turned twice fully in both directions.

### Disposal

Dear customer,  
Please help us avoid unnecessary waste.  
Should you intend to dispose of this device at any time, please remember that many components of this device contain valuable materials, which can be recycled.



*Please be aware that electrical and electronic equipment and batteries shall not be disposed of as household waste, but rather collected separately. Please obtain information on the collecting points for electrical waste from the responsible authority of your municipality.*



If you have any questions concerning the EC declaration of conformity, please use [info@burg.biz](mailto:info@burg.biz)