

Operating manual

blueCompact



Read the instructions prior to performing any task!

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What is blueCompact?

blueCompact is an electronic locking system which comprises a maximum of 99 keys and 25 cylinders and readers. The main components of this locking system are the app and an active electronic key which allow you to activate, manage and program keys, cylinders and readers.

Operating systems, smartphone and blueCompact App versions

This manual is valid for the following versions of the blueCompact App:

- Android: Version 2.5.0
- iOS: Version 2.5.0.0



With other versions of the blueCompact App, some information and approaches may not apply completely.

You need one of the following operating systems for the blueCompact App:

- Android Version 5.0 or higher
- iOS Version 9 or higher

Smartphones must feature Bluetooth 4.0 or higher.



In order to use Bluetooth, location detection may have to be activated or deactivated on some devices depending on the manufacturer and model of the smartphone.

Display of the app needs to be enhanced for use on tablet PCs.

The security measures of the manufacturer must not be bypassed (no support for rooted or jailbroken devices).

Customer Service

Our Customer Service will be happy to answer any questions that you may have.



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Purpose of the instructions

These instructions ensure safe handling of the blueCompact locking system.

- Read the instructions before starting any work.
- Always comply with specifications such as operational and safety instructions.
- Keep instructions in a safe place ready for future use.
- Also provide the instructions to the new owner if you pass on the product.
- Make the instructions available to the qualified electrician for correct installation, maintenance and cleaning of the reader.
- The images are provided to ensure basic understanding and may differ from the actual version that you have.

Symbols in the instructions

Warnings are identified in these operating instructions by the use of symbols. The safety information is preceded by signal words emphasizing the severity of the risk.



WARNING!

This combination between a symbol and a signal word indicates a potentially dangerous situation which could result in death or severe injury if not prevented.



NOTICE!

This combination of symbol and signal word indicates a potentially dangerous situation which could result in damage to property if not prevented.



ENVIRONMENT!

This combination of symbol and signal word indicates potential hazards to the environment.

Safety instructions in the operating instructions

Safety instructions may refer to specific, individual operating instructions. Such safety instructions are embedded into the operating instructions, so that they do not interrupt the flow of the text when users carry out an action. The signal words described above are used.

Example:

1.  Insert cylinder.

2. 



NOTICE!

Physical damage due to face plate screws screwed at an angle.

Screw the face plate screw, so that it is straight when it enters the cylinder thread.

3. 



NOTICE!


Physical damage due to over-tightening of screw.



Use a screwdriver to tighten face plate screw by hand.

⇒ The cylinder is installed.

Other symbols

The following symbols are used to highlight operational instructions, results, lists, references and other elements in these instructions:

Identification	Explanation
	Step-by-step operational instructions
⇒	Results of required steps

Identification	Explanation
	Reference to paragraphs in these instructions and additional applicable documents
	Lists with no fixed order

Tips and recommendations



This symbol highlights useful tips and recommendations as well as information for efficient, trouble-free operation.

Target group

Skilled non-professionals and maintenance staff who have the following expertise as a minimum:

- Fitting and dismantling of cylinders
- Handling smartphones and operating app interfaces

Qualified electricians for energy and building technology, who are able to carry out the following work on electrical systems safely and correctly:

- Planning and connection of electrical systems based on circuit and wiring diagrams
- Designing and routing cables and connecting electrical components
- Carrying out safety checks on electrical systems, components and devices
- Analysing and remedying faults on electrical systems
- Installation, maintenance and cleaning of building technology

The qualified electrician is also familiar with the hazards associated with electrical systems and is qualified in accordance with the European standard EN 50110-1 or higher. The qualified electrician has at least three years of professional experience in the installation of electronic locking systems and alarm systems.

Step by step to completion – the *Instructions* menu

Multimedia instructions:

- In addition to this printed version, you can also access the instructions in the main menu in the app.
- The step-by-step instructions for the app explain the different processes using images and texts, even without an Internet connection.
- You can also call up the individual instructions via the app as an animated video clip if you have access to the Internet.

Example of step-by-step instructions: Incorporate cylinder

The position numbers in the instructions always refer to the previous illustrations.



Fig. 1: Open instructions

1. Touch the *Instructions* menu (1) on the main menu.
2. Select the *Installation* chapter (2).
⇒ This then displays the sub-sections.
3. Select *Instructions* (3).

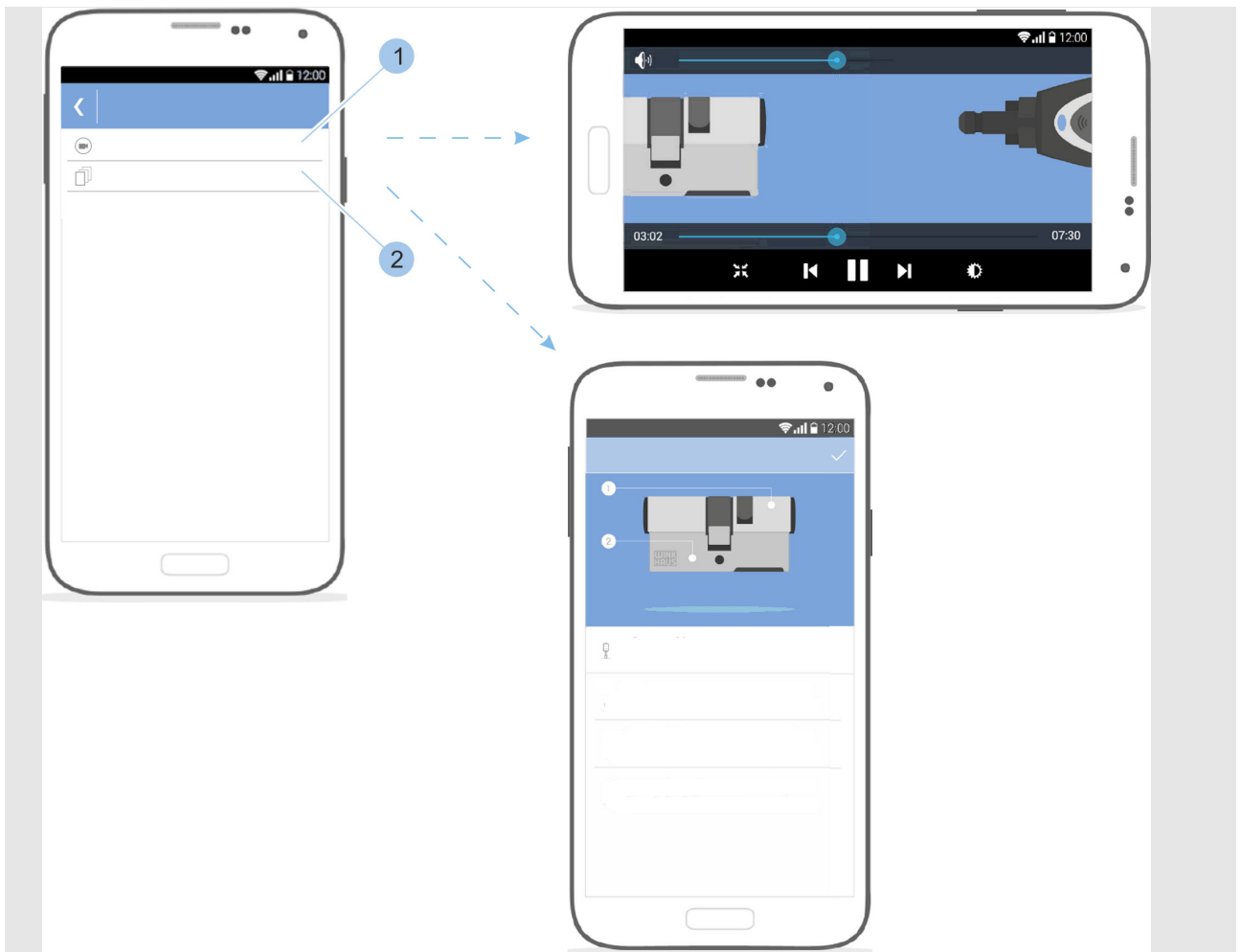


Fig. 2: Select instruction type

4. ➔



You can only open the instructional video if you have access to the Internet.

Touch *Video instructions* (1) to open the instructional video.

5. ➔

Touch *Step-by-step instructions* (2) to look at the step-by-step instructions.

Compile locking system

The activation set is the basis for the locking system.

↳ *Chapter 1.3 "Activation card" on page 23*

The activation set also includes a quick start guide. This quick start guide contains:

- Instructions to install app obtained from Google Play Store/App Store
- QR code for the relevant platform
- Safety and disposal instructions
- Start guide (the first few steps before starting the app)

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1 Product overview

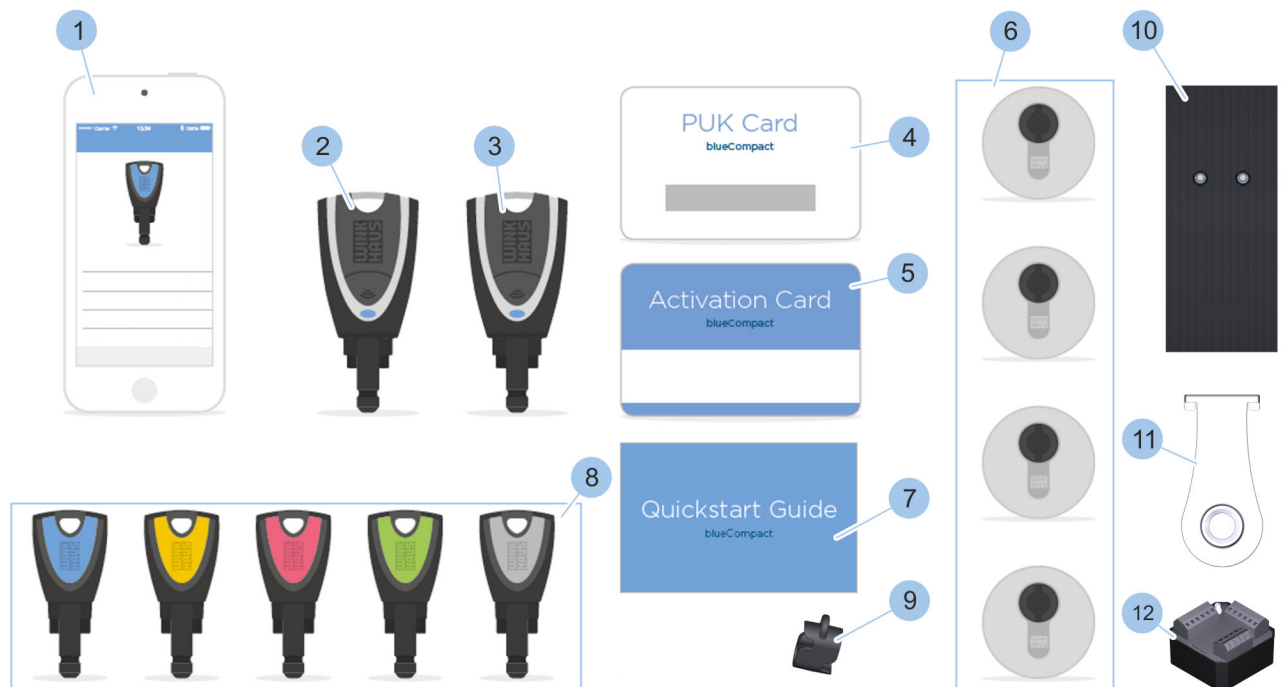


Fig. 3: System overview

- | | |
|-------------------|-----------------------------------|
| 1 Smartphone app | 7 Quick start guide |
| 2 Masterkey | 8 Passive keys |
| 3 Active key | 9 Adapter |
| 4 PUK card | 10 Reader or reader unit |
| 5 Activation card | 11 Programming adapter for reader |
| 6 Cylinder | 12 Control unit for reader |

1.1 Compile components as required



Fig. 4: Activation set

The activation set is the basis for the locking system. Other components must be purchased in addition to the set as required.

The activation set contains the following components:

- Active key
 - ↪ Chapter 1.2.1 “Active keys” on page 16
- 4 passive keys in different colours:
 - ↪ Chapter 1.2.3 “Passive keys” on page 22
 - green
 - pink
 - yellow
 - blue
- Activation card
 - ↪ Chapter 1.3 “Activation card” on page 23
- PUK card
 - ↪ Chapter 1.4 “PUK card” on page 24
- Adapter
 - ↪ Chapter 1.2.4 “Adapter” on page 23
- Quick start guide

1.2 Key

1.2.1 Active keys

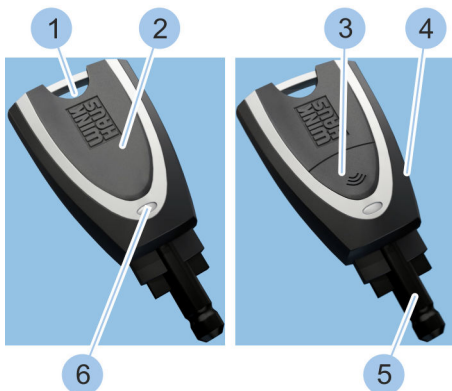


Fig. 5: Active key

- 1 Ring hole
- 2 Battery compartment lid
- 3 Button
- 4 Key bow
- 5 Tip of the key
- 6 LED display

Active keys feature a button (3) to activate cylinders, a battery and a LED display (6). You can use the ring hole (1) to fasten the key to a key ring.



For a clear allocation of the keys in the app, a Winkhaus UID is engraved on the tip of the key (5).

This Winkhaus UID consists of the logo 4HOME and a six-digit number.

Example: 4HOME112773

An active key features the following functions:

- Lock cylinder.
 - ↪ *Chapter 1.2.1.1 "Use user key function" on page 19*
- Operate cylinder with flat battery.
 - ↪ *Chapter 1.2.1.2 "Use internal power function" on page 20*
- Read data from a passive key to operate cylinder with a flat battery.
 - ↪ *Chapter 1.2.1.3 "Use external power function" on page 21*
- Configuration as a Masterkey.
 - ↪ *Chapter 7.1 "Initialise Masterkey" on page 77*
- Issue remote authorisation.
 - ↪ *Chapter 7.9 "Issue remote authorisation" on page 130*



You can read or display the battery charge status for all components which have a battery.

- ↪ *Chapter 7.4.4 "Check the cylinder battery charge status" on page 90*

The following battery charge states are displayed:

- *good*
- *sufficient*
- *low*
- *replace*

The battery must be replaced if the battery charge status indicates 'low' or 'replace'.

LED display signals



This signal warns of a low battery in the active key.

The signal is activated for the following functions:

- Internal power function if there is only enough power for a few more locking transactions.
 - ↪ *Chapter 1.2.1.2 "Use internal power function" on page 20*
- User key function if fewer than 1,000 locking transactions are possible.
 - ↪ *Chapter 1.2.1.1 "Use user key function" on page 19*

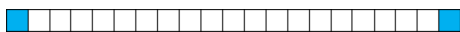


WARNING!

Hazard to persons due to malfunction in emergency opening with an active key.

Replace the battery of the active key following this signal immediately to ensure that the door does not fail to open or close in an emergency.

- ↪ *Chapter 10.3.1 “Replace the battery in an active key” on page 156*



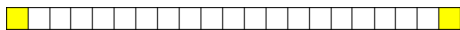
This signal may indicate the following states:

- Active key has been activated using the button.
- Active key communicates with other components via Bluetooth.

LED display signals in power adapter mode

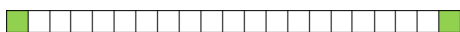
The power adapter mode allows cylinders to be locked using the internal power function and is activated by pressing on the button for 2 seconds.

↪ *Chapter 1.2.1.2 “Use internal power function” on page 20*

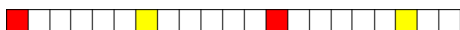


This signal may indicate the following states:

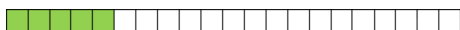
- Search for a cylinder which can be taught in
- Search for a cylinder on which you can perform an internal power locking transaction
 - ↪ *Chapter 1.2.1.2 “Use internal power function” on page 20*



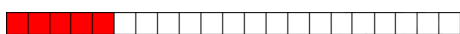
Key has been taught in and is awaiting connection to cylinder.



Error in communication with a passive key or cylinder. Repeat procedure.



Active key is authorised to lock.



Active key is not authorised to lock.

1.2.1.1 Use user key function



An active key can be used in the same way as a passive key (= user key). The button does not need to be activated with the button to do so.

↳ Chapter 1.2.3 "Passive keys" on page 22

Prerequisites:

- Battery is sufficiently charged.
- The active key features the corresponding locking rights.

Operate the cylinder



1. → Insert active key (1) into the cylinder.
2. → Lock cylinder.

Fig. 6: Operate the cylinder

1.2.1.2 Use internal power function



If the cylinder battery is flat, the lock can be operated using the battery in an active key.



WARNING!

Hazard to persons due to malfunction in emergency opening with an active key.

Active keys with a low battery may not be able to open or close cylinders with a flat battery.

- Check the battery charge status in all components on a regular basis.
 - ↪ Chapter 7.3.3 "Identify key" on page 85
 - ↪ Chapter 7.7 "Open system information" on page 124
 - ↪ Chapter 7.4.4 "Check the cylinder battery charge status" on page 90
- Immediately replace batteries with a low charge level with new, approved batteries.
 - ↪ Chapter 10.3 "Replace batteries" on page 154-
 - ↪ "Battery life" on page 185

Precondition:

- The battery in the cylinder is flat.

Operate the cylinder

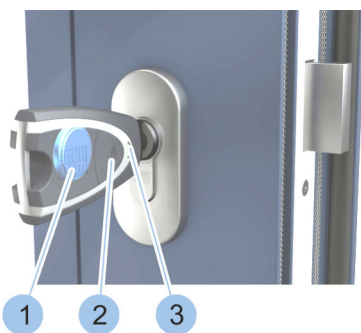


Fig. 7: Use internal power function

1. ➤ Insert active key into the cylinder.
2. ➤ Activate active key by pressing on the button (2) for 2 seconds.
 - ⇒ The LED display (3) on the active key lights up yellow and the lock can be operated using the power in the battery (1) in the active key.

1.2.1.3 Use external power function



If the cylinder battery is flat, the lock can be opened or closed using the battery in an active key. If the key has no battery (= passive key), the locking authorisations in the passive key can be read using an active key. This can then open or close the lock with the integrated battery within a period of 20 seconds.

Prerequisites:

- You have a passive key with locking authorisation.
- You have an active key without locking authorisation.

Read passive key

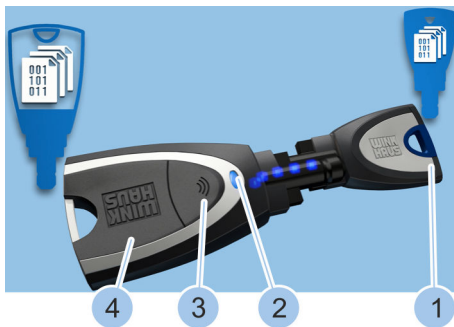


Fig. 8: Read passive key

1. ➔ Activate active key (4) by pressing on the button (3) for 2 seconds.
2. ➔ Connect active key (4) with the passive key (1) using adapter.

⇒ The LED display (2) on the active key lights up yellow during the read process.

The locking authorisations in the passive key (1) have been read if the LED display (2) lights up green.

Operate the cylinder



Fig. 9: Operate the cylinder

3. ➔ Insert active key (1) into the cylinder.
 - ⇒ The LED display (3) on the active key (1) lights up yellow and the cylinder can be operated using the power in the battery (2) in the active key (1) within a period of 20 seconds.

The locking authorisation for the cylinder expires after 20 seconds.

1.2.2 Masterkey

The Masterkey is always an active key which you can configure as a Masterkey using the app.

The Masterkey features all the functions of an active key and can also integrate active and passive keys and cylinders into the locking system. It can also identify them, read information and display the battery status of any battery.

The Masterkey holds all information about the locking system in its memory. You can view this information in the app.

You may only configure one Masterkey per locking system.

The Masterkey logs off automatically from the blueCompact App after 4 minutes of inactivity.

1.2.3 Passive keys

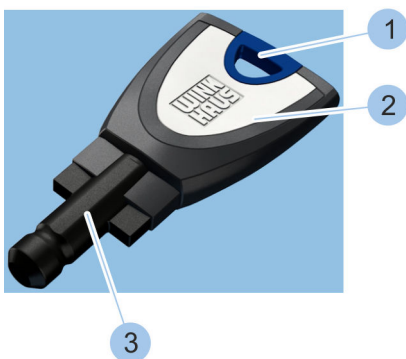


Fig. 10: Passive key

- 1 Ring hole
- 2 Key bow
- 3 Tip of key with transponder

You can use the Masterkey to import passive keys into the system and then manage them in the app.

A transponder is integrated into the tip of the key (3). This transponder holds the locking authorisations for specific cylinders. You can only use passive keys to lock cylinders for which they have locking authorisations.



For a clear allocation of the keys in the app, a Winkhaus UID is engraved on the tip of the key (3).

This Winkhaus UID consists of the logo 4HOME and a six-digit number.

Example: 4HOME112773

The key bows (1) in passive keys are colour-coded to make it easier to manage the keys.

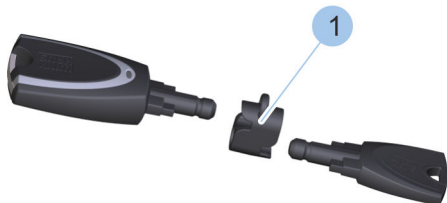


The keys are available in the following 5 colours:

- Blue
- Yellow
- Pink

- Green
- Grey

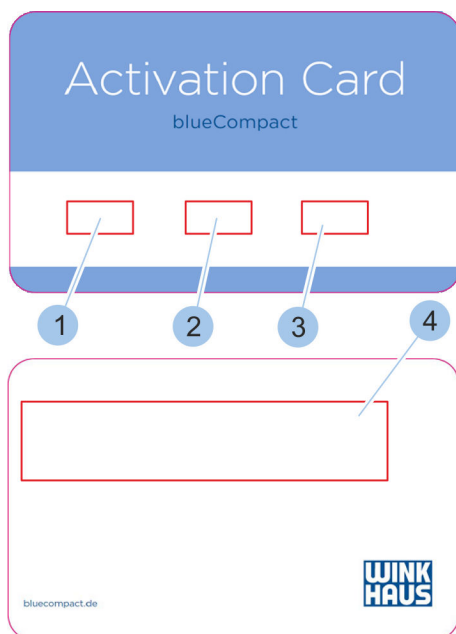
1.2.4 Adapter



The adapter (1) ensures that the keys are in the right position for data transfer.

Fig. 11: Adapter

1.3 Activation card



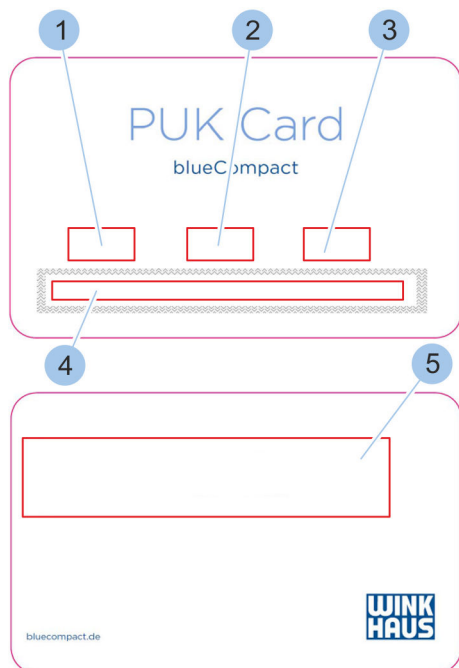
- 1 System name
- 2 System
- 3 Card number
- 4 Instructions for safe storage

The activation card contains the required system data to convert an active key into the Masterkey of the locking system.

The activation card contains the personal identification number (PIN) to establish a Bluetooth link between the Masterkey and smartphone.

Fig. 12: Activation card

1.4 PUK card



- 1 System name
- 2 System
- 3 Card number
- 4 PUK code scratch-off panel
- 5 Instructions for safe storage

The PUK contains the personal unblocking code which you can use if the password is lost. The PUK card is still required for initialising the Masterkey and if the Masterkey is lost.

Fig. 13: PUK card

1.5 Cylinder

Different cylinder types can be integrated into the locking system:

- Double cylinder
- Knob cylinder
- Half cylinder
- Padlock

The dimensions for individual cylinders are listed in the technical specifications. You can increase the cylinder length by 5-mm increments on one or both sides, depending on the cylinder.

🔗 14 "Technical specifications" on page 181



You can read or display the battery charge status for all cylinders.

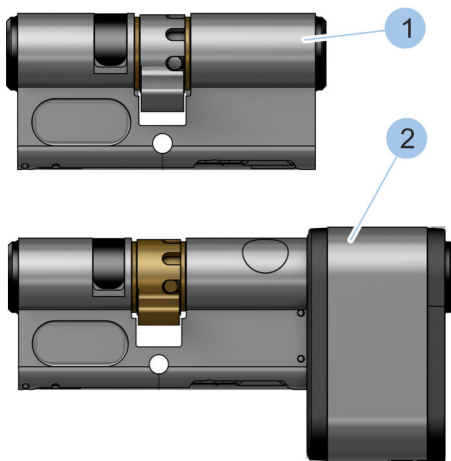
- Chapter 7.4.4 "Check the cylinder battery charge status" on page 90

The following battery charge states are displayed:

- good
- sufficient
- low
- replace

The battery must be replaced if the battery charge status indicates 'low' or 'replace'. A cylinder will intentionally delay closing to indicate an empty battery.

Double cylinder



Double cylinders can be closed on both sides.

The following double cylinders can be integrated into the locking system:

- Type 01 (1) and type 05 (1)
- Type 21 (2)

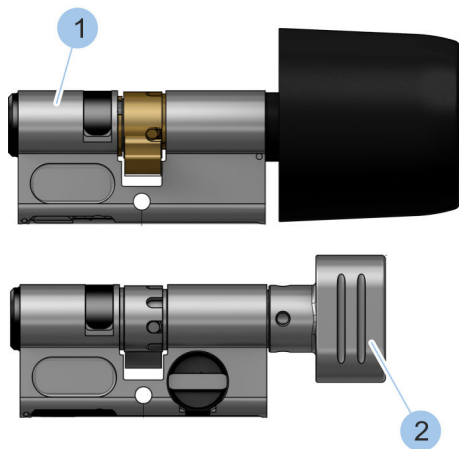
Type 01 (1) is used indoors for normal doors if doors have to be closed with electronic control from both sides.

Type 05 (1) is used indoors for normal doors if doors only have to be closed with electronic control from the outside (e.g. office doors). In contrast to type 01 (1), type 05 (1) is mechanically lockable from the inside.

Type 21 (2) is used indoors and outdoors for high-traffic doors if doors have to be closed with electronic control from both sides. The large battery compartment complete with large battery guarantees a high service life on high-traffic doors.

Fig. 14: Type 01 and type 21

Knob cylinder



Knob cylinders can be locked on the outside using a key. Knob cylinders have a knob on the inner side.

The following knob cylinders can be integrated into the locking system:

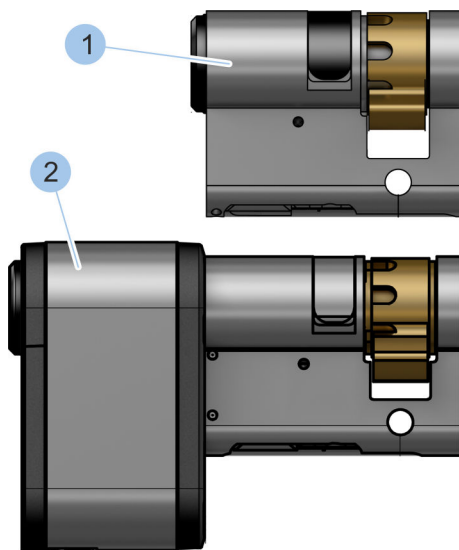
- Type 04 (1)
- Type 04 MK (2)

Type 04 (1) is used indoors for high-frequency doors opened via a knob from the inside. The large battery compartment guarantees a high service life on high-traffic doors.

Type 04 MK (2) is used indoors for normal doors opened via a knob from the inside.

Fig. 15: Type 04 and type 04 MK

Half cylinder



Half cylinders can be locked on one side only and fill half the door only.

The following half cylinders can be integrated into the locking system:

- Type 02 (1)
- Type 22 (2)

Type 02 (1) is used indoors for key-operated switches, for example, or lift switches.

Type 22 (2) is used indoors and outdoors for high-frequency doors, e. g. garden gates. The large battery compartment complete with large battery guarantees a high service life on high-traffic doors.

Fig. 16: Type 02 and type 22

Padlock



Fig. 17: Type 85

A padlock can be integrated into the locking system with type 85.

1.6 Reader

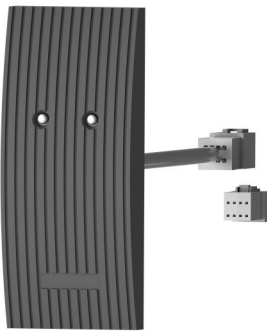


Fig. 18: Reader

The reader can be installed as an addition to electronic cylinders. We differentiate between a reader with internal and external control unit (↪ 5.1 “Select reader” on page 65). The reader can be used to activate motorised locks, parking barriers or electric garage doors, for example.

Reader types

Reader with internal control unit:

- The reader with internal control unit has an integrated switching mechanism which controls the access function directly. The wiring takes place directly with the periphery devices to be controlled.

Readers with external control unit:

- With this reader type, we differentiate between reader and control unit. The communication between the reader and control unit takes place encrypted via a signal line. The switching mechanism is integrated in the control unit in the protected interior.

The following components are required for installing the two reader types and are included with the reader:

- Two dowels (diameter: 4 mm)
- Two screws
- Connection cable with a length of 4.5 m
- Drilling template
- Programming adapter (↪ Chapter 1.6 “Reader” on page 27)

Installation of reader types

There are two different installation situations for installing the two reader types:

- ↪ *Chapter 5.2.1 “Install reader with internal control unit” on page 66*
- ↪ *Chapter 5.2.2 “Install reader with external control unit” on page 69*

Controlling the reader

The access authorisation is issued by the reader or the external control unit when an authorised key is held in the centre in front of the reader.

The release by the reader is indicated visually by the illuminated LED and acoustically with a beeping sound.

All authorisation and setting options ↪ *Chapter 7.5.5 “Manage reader settings” on page 111*

Function of the programming adapter



Fig. 19: Programming adapter

For longer programming processes or software updates for the reader, for example, the programming adapter can be used, which permanently holds the Masterkey in front of the reader.



Fig. 20: Using the programming adapter

The adapter is hooked in to the reader. The Masterkey is inserted in the adapter. The connection between the reader and the app can be established in this way.

Using the programming adapter ↪ *Chapter 9.4 “Transfer data to reader” on page 147*

Permanent release (PR)

Permanent release means that the switching mechanism of the reader is permanently switched without having to hold a key in front of the reader again.

- The permanent release is activated by holding an authorised key in front of the reader for an extended period.
- Holding the key in front of the reader for an extended period again deactivates the permanent release.
- A day-specific time at which the permanent release is automatically deactivated can be defined in the reader settings.

All instructions for the permanent release are available in [Chapter 7.5 "Add and manage reader"](#) on page 100.

Action	LED 1 (left)	LED 2 (right)	buzzer
Normal operation (standby)	Yellow flashing	Off	Off
PR is switched on.	Yellow flashing	Constant green light	Off
Key with single authorisation is presented. PR is deactivated.	Single green light	No change	Single beep
Key with single authorisation is presented. PR is active.	Single green light	No change	Single short beep
Key without authorisation is presented. PR is deactivated.	Single red light	No change	Single long beep
Key without authorisation is presented. PR is active.	Single red light	No change	Single short beep
Key with authorisation for switching the PR is presented for an extended period of time. PR is deactivated.	Single green light	Constant green light	Two short beeps
Key with authorisation for switching the PR is presented for an extended period of time. PR is active.	Single green light	Off	Two long beeps
Coding via Masterkey	Yellow flashing	No change	Off
Fault	No change	Constant red light	Off
Time is invalid.	Constant red flashing	No change	Off

- Possible fault causes and how to resolve them ↪ *Chapter 11.4 “Time synchronisation on reader” on page 176*
- The dimensions for the reader are listed in the technical specifications.
↪ *14 “Technical specifications” on page 181*

2 Security

2.1 Intended use

blueCompact is a locking system for private and commercial use. This locking system can be used to provide access control and management for a maximum of 99 keys and 25 cylinders or readers. The keys, cylinders and readers are integrated into the locking system using an app. You can use the app to check battery charge states and program and manage keys, cylinders and readers.

The cylinders in the locking system are approved for use in fire doors as per DIN EN 1634-1: T90 and must be tested to DIN EN 1634-1: T90 by a chief fire officer from the local fire service or an authorised expert. The cylinders must be installed by a specialist company for use with emergency exit locking systems as per DIN EN 179 or panic locking systems as per DIN EN 1125.

The readers may only be installed by qualified electricians in the field of energy and building technology in accordance with the European standard EN 50110-1 or higher. We accept no liability for personal injury and material damaged resulting from incorrectly carried out installations.

Misuse



WARNING!

Injury, damage and impairment of burglary resistance due to improper usage.

Injury, damage and impairment of burglary resistance may be caused if the components in the locking system are used improperly.

- Do not fit cylinders and readers in potentially explosive atmospheres.
- Do not operate cylinders with damaged keys.
- Do not use a key to pull a door open or shut.
- Do not wash keys.
- Do not use keys as a lever.
- Do not throw keys.
- Do not use any tools to apply greater force on the key when closing.
- Do not modify or alter any components in the locking system without authorisation.
- Take operating conditions into account when using in external doors.
- Do not insert any keys or objects into the cylinder that don't belong to the system.
- Do not apply oil or grease to cylinders.
- Do not treat cylinders with graphite.
- Do not allow the cylinder to come into contact with paint or thinner.

2.2 Safety when fitting cylinders to fire doors

Malfunctions in fire doors



WARNING!

Life-threatening hazard due to malfunctions in fire doors.

Fire doors which do not function correctly may result in death in hazardous situations.

- The cylinders are approved for use in fire doors as per DIN EN 1634-1: T90. The chief fire officer from the local fire service or an authorised expert must carry out the final inspection of the fire door, including the fitted cylinder.
- Match the cylinder to the requirements of other components.
- Only a specialist company may incorporate the cylinder into fire alarm systems.
- Observe applicable guidelines and building regulations regarding correct maintenance and safety inspections. A record must be made of the date, scope and results of inspections and kept in a safe place.

2.3 Safety when fitting cylinders to emergency doors

Malfunctions in emergency doors



WARNING!

Life-threatening hazard due to malfunctions in emergency doors.

Emergency doors which do not function correctly may result in death in hazardous situations.

- Have cylinders installed into emergency doors by a specialist company only.
- Check and install cylinder, lock, fitting and mounting accessories as a unit for use in emergency exit locking systems as per DIN EN 179 or panic exit devices as per DIN EN 1125.
- Observe applicable guidelines and building regulations regarding correct maintenance and safety inspections. A record must be made of the date, scope and results of inspections and kept in a safe place. Take into account inspections and inspection periods as per technical approval for panic locks.

Anti-panic multi-point locking systems

You may only fit a special anti-panic cylinder into anti-panic multi-point locking systems with gear lock cases to ensure that anti-panic doors are not blocked. Anti-panic cylinders are available in alternative system series from Winkhaus.



Contact Customer Service for more information.

↳ "Customer Service" on page 3

2.4 Safety when using cylinders in low temperatures

Reduced power of the batteries



WARNING!

Malfunctions in the locking process due to reduced power of the batteries at low temperatures!

At temperatures under 5 °C, the power of the installed batteries can reduce significantly even without a cylinder locking operation. In this case, it may no longer be possible to close the cylinder with a passive key. Doors which do not function correctly may result in death in hazardous situations.

- For locking operations outdoors and/or at low temperatures, use an active key to use the internal power function.
 - ↳ Chapter 1.2.1.2 "Use internal power function" on page 20
- Ensure that all users operating the locking system outdoors and/or at low temperatures are equipped with an active key and relevant locking rights.
 - ↳ Chapter 7.3 "Add and manage key" on page 81
- Instruct users that active keys may only be deposited at temperatures over 5 °C.

2.5 Instructions on integrating alarm systems

Malfunctions in alarm systems



NOTICE!

Malfunctions in alarm systems when the locking system is integrated incorrectly!

If the locking system is incorporated into the higher level alarm system incorrectly, the alarm system may malfunction.

- Only specialist companies may incorporate the locking system into the alarm system.

2.6 The administrator's responsibilities

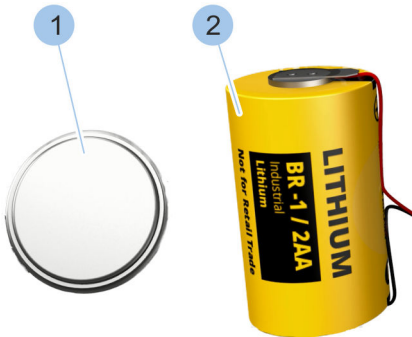
The locking system administrator manages the Masterkey and the PUK and activation cards. The administrator is responsible for issuing locking rights.

The administrator is responsible for the following:

- Keeping the Masterkey, PUK and activation cards in a safe place.
- Issuing Masterkey and PUK and activation cards to authorised persons only.
- Instructing users in handling the locking system.
- Depending on the frequency of use of the individual components, read out/check the battery charge states regularly.
 - ↪ Chapter 7.4.4 "Check the cylinder battery charge status" on page 90
- Checking the function of the reader.
 - ↪ Chapter 7.5 "Add and manage reader" on page 100
- Immediately replacing Masterkey and activation card in the event of loss.
 - ↪ Chapter 11.2 "Masterkey loss" on page 171
 - ↪ Chapter 11.3 "Activation card loss" on page 173
- Removing locking authorisations from the key concerned immediately if individual keys are lost.
 - ↪ Chapter 7.3 "Add and manage key" on page 81
- Disposing of batteries in the correct manner.
 - ↪ 13 "Disposal" on page 179
- Ensuring functions are tested and maintenance carried out correctly in the case of fire and emergency doors.

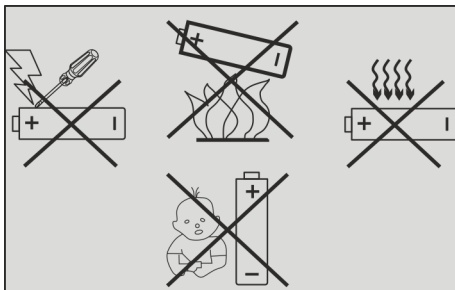
2.7 Hazards for people

Hazards caused by batteries



Button cells (1) (CR2032 and CR1220) and 1/2AA batteries (2) are fitted into the locking system's components. Batteries contain toxic heavy metals. They are subject to special waste treatment and must be disposed of at municipal collection centres or by a specialised company.

☞ 13 "Disposal" on page 179



WARNING!

Risk of injury from improper handling of batteries.

Improper battery handling poses the risk of the batteries exploding or leaking out hazardous liquids. This liquid may cause irritation upon contact with the skin, severe poisoning if swallowed and blindness upon contact with the eyes.

- Never attempt to solder, repair, reshape, convert or disassemble batteries.
- Only use batteries with poles in the correct position (+/-).
- Never use force to insert batteries.
- Never heat batteries over 85 °C.
- Never use, charge or store batteries in locations with explosive atmospheres or where high temperatures may emerge.
- Keep batteries away from unauthorised persons and small children at all times.
- Never subject batteries to strong vibrations, heavy weights or other damaging effects to ensure that you prevent fire, overheating, explosions or leaks. Leaking battery fluid may catch fire.

Hazards due to low battery charge status



WARNING!

Hazard to persons due to malfunction in emergency opening with an active key.

Active keys with a low battery may not be able to open or close cylinders with a flat battery.

- Check the battery charge status in all components on a regular basis.
 - ↪ Chapter 7.3.3 "Identify key" on page 85
 - ↪ Chapter 7.7 "Open system information" on page 124
 - ↪ Chapter 7.4.4 "Check the cylinder battery charge status" on page 90
- Immediately replace batteries with a low charge level with new, approved batteries.
 - ↪ Chapter 10.3 "Replace batteries" on page 154-
 - ↪ "Battery life" on page 185

Hazards due to swallowing



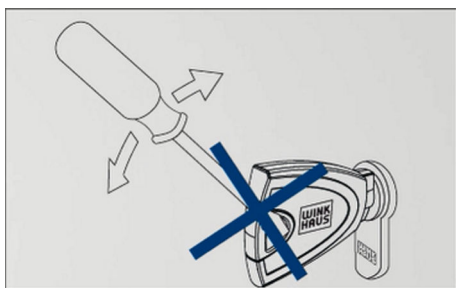
WARNING!

Hazards due to swallowing!

It is possible to swallow small component parts in the locking system or the battery replacement set, which can lead to death due to choking. Swallowing batteries can lead to serious injury.

- Keep locking system components and the battery replacement set safely out of children's reach.

2.8 Dangers to material goods

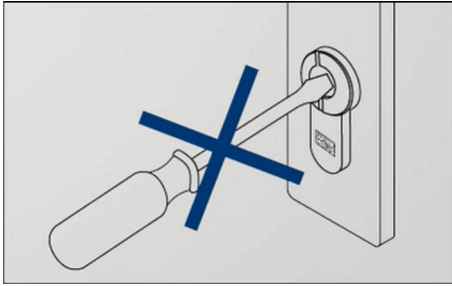


NOTICE!

Damage caused by using tools which increase force when locking the cylinder.

Using tools which increase force can break off the key and damage the cylinder.

- Turn the key by hand only when operating a cylinder.

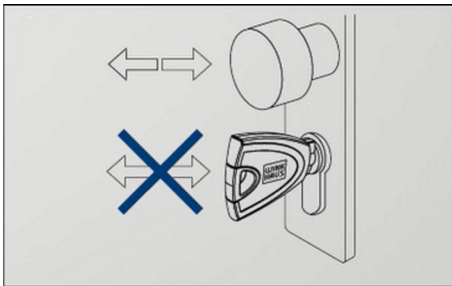


NOTICE!

Damage caused by tools or other objects inserted into the keyway.

Trying to lock the cylinder using tools or other objects can cause damage to the cylinder.

- Perform locking transaction with authorised keys only.
- Do not insert any tools or other objects into the cylinder.

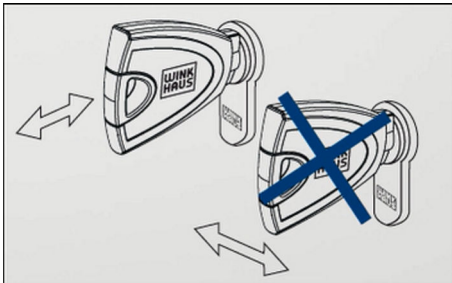


NOTICE!

Damage caused by trying to pull the door open with the key.

The key may break if doors are pulled open with the key. Broken pieces of the key may block the keyway.

- Use the door handle or knob to open and close unlocked doors.

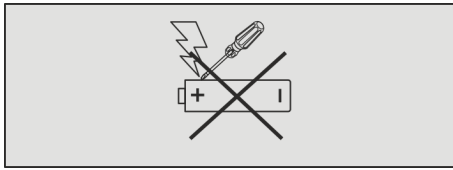


NOTICE!

Damage caused by pulling out keys incorrectly.

You may deform or break off the key if you twist the key while taking it out of the cylinder.

- Always pull the key out of the cylinder in a straight line.

**NOTICE!****Material damage caused by damaged batteries.**

Damaged and/or non-approved batteries can damage the components in the locking system and cause malfunctions.

- Never short circuit the batteries' contacts (positive and negative terminal).
- Never expose the batteries to wet or moisture (rain, salt water, liquids). Never use wet or damp batteries.
- Never attempt to solder, repair, reshape, convert or disassemble batteries.
- Use the batteries contained in the battery replacement set only.

**NOTICE!****Material damage due to incorrect installation of the reader!**

Incorrect installation of the reader can result in damage or destruction of the reader and the connected electronics.

- Have the reader installed by a qualified electrician in energy and building technology.
- Carry out the installation in accordance with these instructions.
- Only mount the switching mechanism in deenergised state.

**NOTICE!****Material damage on the reader with internal control unit due to vandalism!**

When using a reader with internal control unit, material damage due to vandalism is possible on the external area.

- To prevent vandalism damage on the reader with external control unit in the external area, always mount a reader with external control unit.

2.9 Risk of break-in

Increased risk of break-in



NOTICE!

Greater risk of break-in due to lost keys.

If an unauthorised person gets hold of a key, they may gain access to private or commercial buildings and premises.

- Report the loss of a key to the administrator immediately.
- Remove all locking rights from the key.
 - [↪ Chapter 7.3 "Add and manage key" on page 81](#)



NOTICE!

Increased risk of break-in when a reader with internal control unit is installed outdoors!

There is an increased risk of break-in when a reader with internal control unit is installed outdoors.

- For outdoor installation, use a reader with external control unit and install the control unit in the secured internal area.

3 Transport and store

3.1 Labelling on the packaging



Fig. 21: Lithium-ion batteries

A transport label is affixed to cover boxes containing lithium-ion batteries. Damaged packaging and/or products must not be transported or stressed with pressure.



For further information, call the number provided on the transport label.

Observe the safety instructions for handling batteries.

3.2 Transport and unpack

Handling the packaging material



ENVIRONMENT!

Hazard for the environment due to incorrect disposal.

Packaging materials are valuable raw materials and can be re-used in many cases or treated and recycled. The incorrect disposal of packaging material can pose a risk to the environment.

- Dispose of the packaging materials in an environmentally friendly manner.
- Observe local disposal regulations. Contract a specialist company to handle disposal if necessary.

The locking system components are securely packed for transportation. They will only function correctly if the packaging is undamaged.

Check the packaging

1. ➔ Check the packaging for damage.
2. ➔ Inform Customer Service immediately of any damage.
📞 "Customer Service" on page 3



Return only without battery.

3. ➔ Check to ensure supply is complete.

4. ➤ Ensure that the PUK card scratch-off panel is undamaged.
5. ➤ Close packaging and leave contents in the packaging until installation or use.

3.3 Storing

Locking system components which do not contain batteries can be stored in a drawer or cupboard at room temperature.

Batteries are contained in battery replacement sets and fitted into the following locking system components:

- Active key
 - 🔗 Chapter 1.2.1 "Active keys" on page 16
 - 🔗 Chapter 10.3.1 "Replace the battery in an active key" on page 156
- Cylinder
 - 🔗 1.5 "Cylinder" on page 24
 - 🔗 10.3 "Replace batteries" on page 154

Pack batteries



Fig. 22: Batteries

1. ➤



NOTICE!

Damage to batteries and self-discharge due to incorrect packaging.

You must ensure you do the following when (re-)packing batteries:

- Protection against short circuits is in place
- Batteries are separated from one another with non-conductive material
- Battery terminals are not subjected to the weight of the batteries above them



Do not unpack the batteries until just before you insert them into the key or cylinder.

Storage of batteries and components with batteries

2. →

**NOTICE!**

Damage to batteries due to incorrect storage location!

**ENVIRONMENT!**

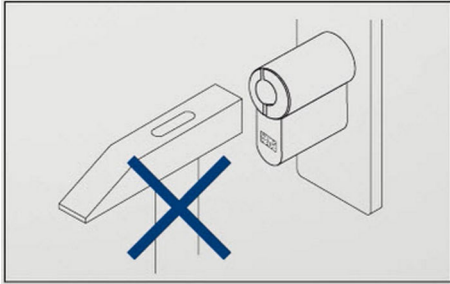
Damage to the environment due to leaking battery fluid.

The storage location of the batteries and components with batteries must fulfil the following conditions:

- Temperature 5 – 30 °C
- Air humidity maximum 70%
- Protection against damp and moisture
- Protection against heat
- Protection against vibration
- Constituent parts of old batteries must not be disposed of in the environment
- Protection against access by unauthorised persons

4 Select and install cylinder

Material damage

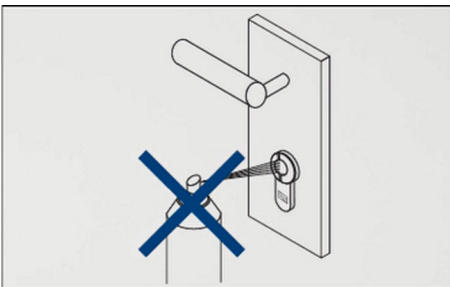


NOTICE!

Physical damage caused by using force to fit the cylinder.

You can damage cylinders or parts of the door if you use force to fit cylinder.

- Determine the type of cylinder required.
 - ↪ *Chapter 4.2 "Determine cylinder type" on page 49*
 - ↪ *Chapter 4.3 "Determine cylinder length" on page 50*
- Carefully push cylinder into the door lock.
- Contact specialist company if you have problems with installation.



NOTICE!

Damage caused by incorrect cleaning.

You must not clean or apply lubrication to the cylinder. Applying oil to the cylinder can damage the built-in electronics beyond repair.

- Do not apply oil or grease to cylinders.
- Do not treat cylinders with graphite.
- Do not allow the cylinder to come into contact with paint or thinner.



NOTICE!

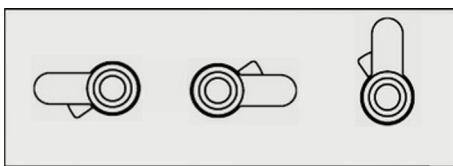
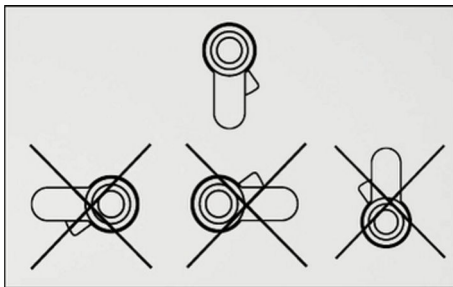
Physical damage due to face plate screws screwed into place incorrectly.

Face plate screws which do not grip into the cylinder thread may cause damage just as easily as face plate screws tightened too firmly.

- Ensure that the face plate screw grips into the designated thread in the cylinder.
- Use a screwdriver to tighten face plate screw by hand.

Select and install cylinder

Malfunctions



NOTICE!

Malfunctions caused by cylinder installed in the incorrect position.

Incorrectly fitted cylinders cannot be operated even though users hold locking rights.

- Fit cylinders in a vertical position only.
- Hold cylinder in a vertical position in hand for tests.



Use cylinders marked '/17' for special installation situations. Contact Customer Service for more information.

🔗 "Customer Service" on page 3



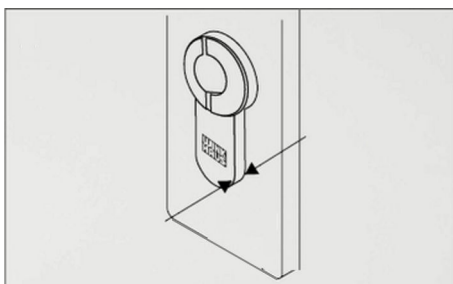
NOTICE!

Malfunctions caused by not taking installation conditions into account.

Malfunctions may arise if you do not take temperature conditions at the installation location into account.

- Take temperature limits into account for installation location for the cylinder concerned.
 - 🔗 "Cylinder type 01 and type 05" on page 181

Burglary resistance



NOTICE!

Increased risk of burglary due to incorrect cylinder length.

Cylinders which project out more than 3 mm from the fitting on the door provide a vulnerable surface for burglars to gain entry.

- Measure and select cylinder to ensure it projects a maximum of 3 mm from the fitting.



NOTICE!

Increased risk of burglary due to incorrectly installed cylinder.

There is an increased risk of burglary if the cylinder is not fitted with the magnetic protection on the outer side.

- Install cylinders with the magnetic protection on the outside if there is protection.
- Never invert the cylinder's A side (outside) and B side (inside).

Overview and explanation of terms

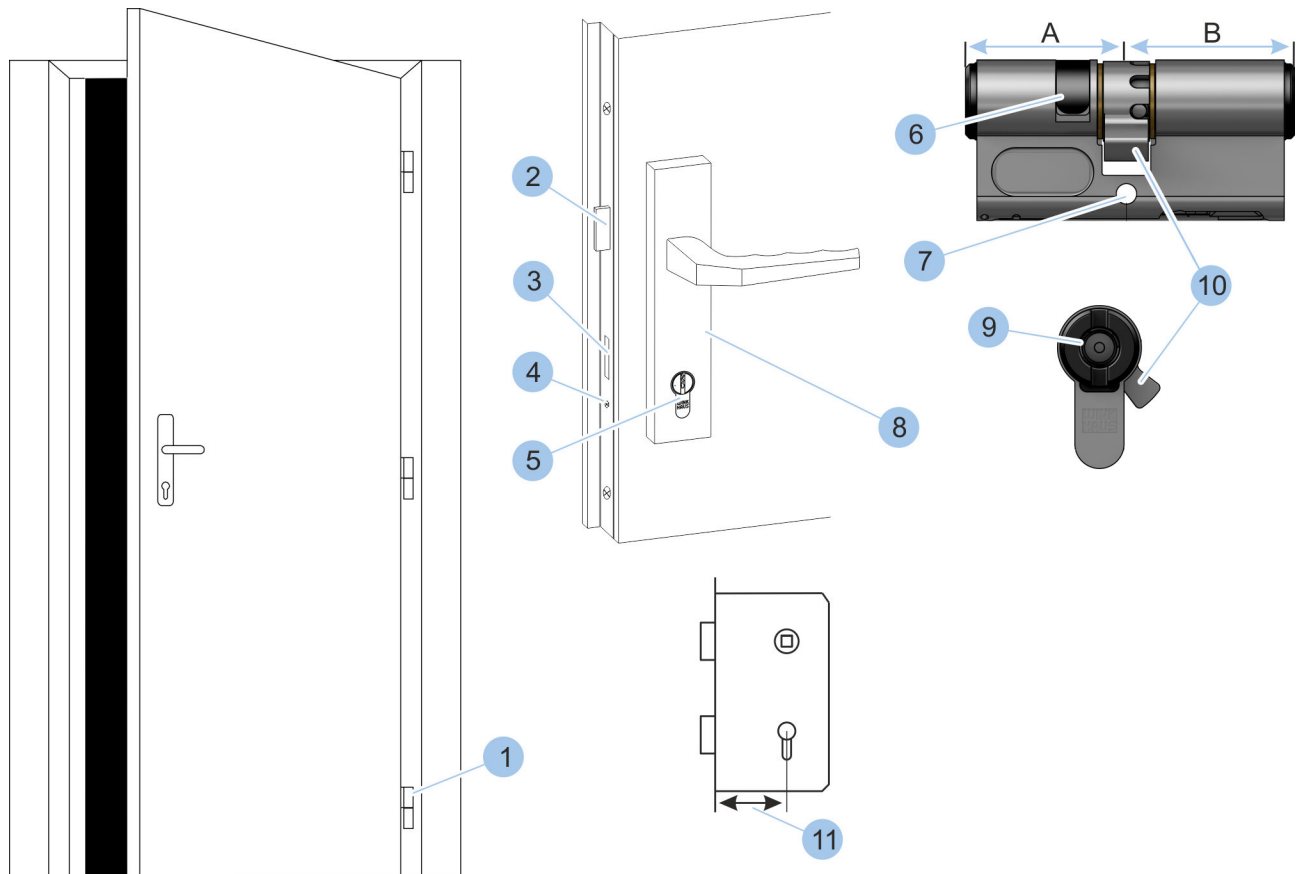


Fig. 23: Overview of door

- | | |
|-----------------------------------|------------------|
| 1 Door hinges (= hinge side) | 8 Fitting system |
| 2 Latch | 9 Keyway |
| 3 Deadbolt | 10 Cam |
| 4 Face plate screw | 11 Backset |
| 5 Cylinder | A Outer side |
| 6 Magnetic protection | B Inner side |
| 7 Drill hole for face plate screw | |

4.1 Dismount old cylinder

Special tool: ■ Screwdriver

Undo face plate screw

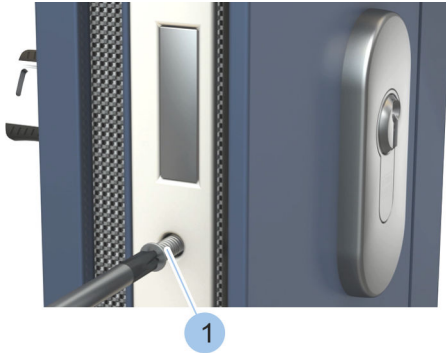


Fig. 24: Undo face plate screw

1. Undo face plate screw (1) and remove.

Remove cylinder



Fig. 25: Place cam in zero position

2. Gently turn key (3), so that the cam (1) is placed in the zero position.

- 3.



NOTICE!

Material damage caused by removing cylinder with pliers or using tools or other means to increase force.

- Carefully remove cylinder (2) with inserted key (3) from the lock.
4. If the cylinder (2) is stuck, carefully jiggle with the key (3) and slowly remove cylinder (2). Contact specialist company if you experience problems.

4.2 Determine cylinder type

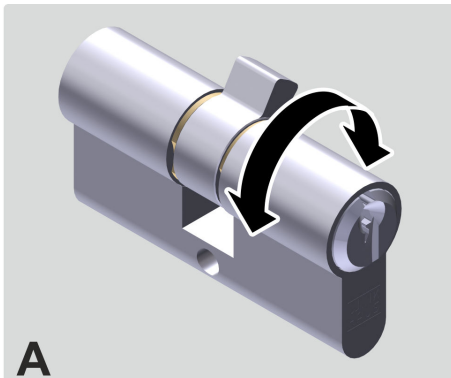


Cylinders must be adjusted to the lock concerned. You need determine whether the cam in the old cylinder rotates freely or not when the key is removed to ensure that you select the right cylinder.

Precondition:

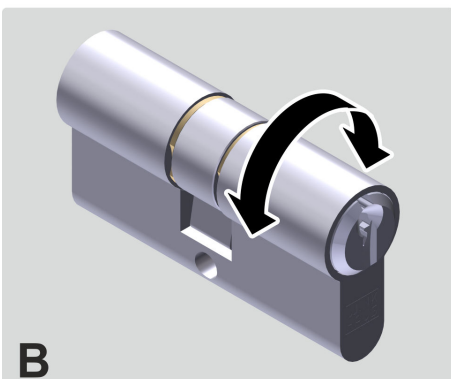
- Old cylinder has been removed.
 - [Chapter 4.1 "Dismount old cylinder"](#) on page 48

Try to rotate the cam



A

1. Remove key from the old cylinder.
2. Try to rotate the cam through 360° by hand.
 - ⇒ If the cam rotates freely (A), cylinder type 04, type 04 MK and type 05 can be fitted.
 - If the cam does not rotate freely (B), cylinder type 01 and type 21 can be fitted.



B

Fig. 26: Determine cylinder type

4.3 Determine cylinder length



The dimensions for individual cylinders are listed in the technical specifications. You can increase the cylinder length in increments of 5 mm on one or both sides, depending on the cylinder type.

- ↪ Chapter 1.5 “Cylinder” on page 24
- ↪ 14 “Technical specifications” on page 181

There are two methods to determine the required length of the cylinder to be installed:

- Measure old cylinder.
- Measure door, including fitting.

Both methods are described below.



The old cylinder should be measured if possible.

Determine the cylinder length by measuring the old cylinder

Special tool: ■ Folding ruler

Precondition:

- Old cylinder has been removed.
 - ↪ Chapter 4.1 “Dismount old cylinder” on page 48

Measure cylinder

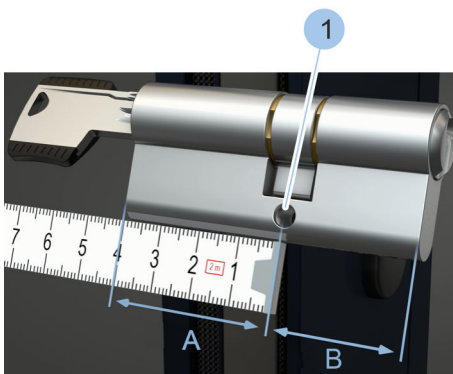


Fig. 27: Measure old cylinder

1. → Measure the distance between the left cylinder edge and the centre of the face plate screw drill hole (1). Note down the measured value (A).
2. → Measure the distance between the right cylinder edge and the centre of the face plate screw drill hole (1). Note down the measured value (B).
 - ⇒ The cylinder’s internal (B) and external dimension (A) have now been measured.

3. →



NOTICE!

Increased risk of burglary due to incorrect cylinder length.

Select new cylinder, so that the cylinder projects max. 3 mm from the fitting.

Determine cylinder length by measuring the door

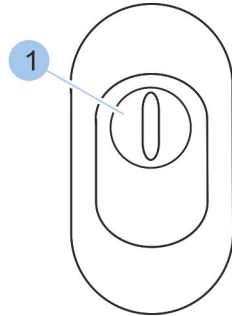


Fig. 28: Exterior view of anti-pulling protection fitting

1 Anti-pulling protection plate



Potential errors when measuring cylinders in anti-pulling protection fittings and problems when inserting the key from the outer side.

Anti-pulling protection fittings secure mechanical cylinders against plug pulling by burglars. blueCompact cylinders do not contain a cylinder core such as those used in mechanical systems. There is thus no need to fit anti-pulling protection for the core. The anti-pulling protection plate can usually be easily removed from a dismantled fitting. Your specialist retailer will also inform you of possible alternatives to the existing anti-pulling protection fitting.

As a general rule, cylinders which are used in anti-pulling protection fittings must be measured differently. Contact specialist company if you have problems.

- Special tool:
- Try square
 - Folding ruler

Measure cylinder

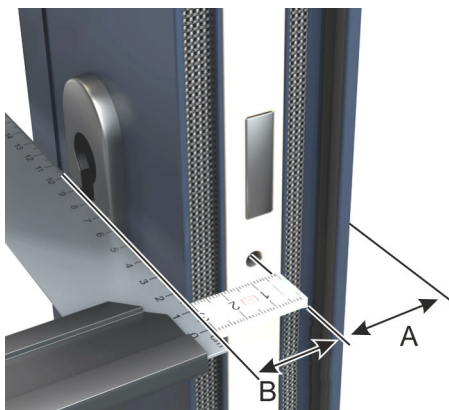


Fig. 29: Measure cylinder



Always include the fitting when measuring the cylinder dimension.

1. Place try square on the inside fitting.
 2. Measure the distance between the try square edge and the centre of the face plate screw drill hole. Note down the measured value (B).
 3. Place try square on the outer fitting.
 4. Measure the distance between the try square edge and the centre of the face plate screw drill hole. Note down the measured value (A).
- ⇒ The cylinder's internal (B) and external dimension (A) have now been measured.
- 5.



NOTICE!

Increased risk of burglary due to incorrect cylinder length.

Select new cylinder, so that the cylinder projects max. 3 mm from the fitting.

4.4 Install old cylinder



If the cylinder type and the dimensions have been determined, the old cylinder can be re-fitted until you have the new cylinder.

Special tool: ■ Screwdriver

Prerequisites:

- Type of cylinder has been determined.
 - ↪ Chapter 4.2 "Determine cylinder type" on page 49
- Old cylinder has been measured.
 - ↪ Chapter 4.3 "Determine cylinder length" on page 50
- You do not have new cylinder yet.

Insert cylinder



1. ➤ Insert key (3) into the keyway (2).
2. ➤ Turn the key to place cam in the zero position (1).
3. ➤



NOTICE!

Material damage caused by using force to insert cylinder.

Push in cylinder (2) from the inner side of the door. If the cylinder (2) is stuck, carefully jiggle with the key (3) and push cylinder (2) in. Contact specialist company if you experience problems.

Fig. 30: Place cam in zero position

Align cam



Fig. 31: Align cam

4. ➔



NOTICE!

Reduced protection against burglary due to incorrectly aligned cam.

Turn key into vertical position.

⇒ The cam (1) is facing the door hinge side.

Screw cylinder tightly into position

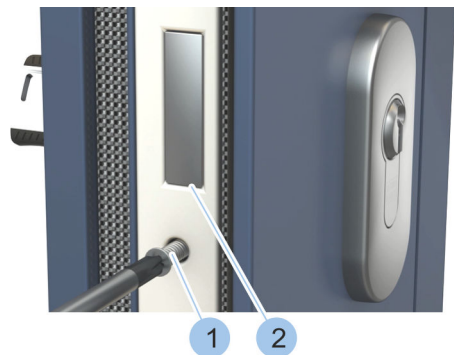


Fig. 32: Tighten face plate screw.

5. ➔



NOTICE!

Physical damage due to face plate screws screwed at an angle.

Screw the face plate screw (1), so that it is straight when it enters the cylinder thread.

6. ➔



NOTICE!

Physical damage due to over-tightening of screw.

Use a screwdriver to tighten face plate screw (1) by hand.

⇒ The cylinder is installed.

Perform functional test

7. ➔

'Lock' the door with the door open.

⇒ The lock deadbolt (2) extends.

8. ➔

'Unlock' the door with the door open.

⇒ The lock deadbolt (2) retracts.

4.5 Prepare cylinder installation

Shorten face plate screw



NOTICE!

Damage caused by face plate screw being too long.

A face plate screw being too long can damage or shatter parts of the door, such as glass components.

- Measure required face plate screw and shorten with metal saw if necessary without damaging the face plate screw or the threaded hole in the cylinder.

Incorrectly mounted anti-pulling protection fittings



NOTICE!

Increased risk of burglary due to incorrect or incorrectly installed anti-pulling protection fittings.

Anti-pulling protection fittings secure cylinders against extraction by burglars. Incorrect or incorrectly installed anti-pulling protection fittings reduce burglary protection.

- If you intend to install anti-pulling protection fittings, you need to contact a specialist dealer beforehand to select the right anti-pulling protection fitting.

- Special tool:
- Metal saw
 - Folding ruler

Prerequisites:

- Cylinder has been inserted in the system.
 -
- At least one key has been inserted with locking authorisation on the cylinder.
 -

Measure face plate screw dimension

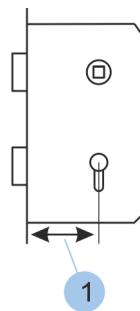


Fig. 33: Measure backset

1. →



Cylinders are supplied with a standard face plate screw (85 mm long).

Measure backset (1).

2. →

Add 1 cm to backset (1).

3. →



NOTICE!

Damage caused by damaged thread on the face plate screw.

Trim supplied face plate screw to the calculated length if necessary without damaging the face plate screw thread.



The cylinder cam can be adjusted to eight different positions.

You can place the cam in the required position to prepare for cylinder installation.

Select and install cylinder

Adjust cam

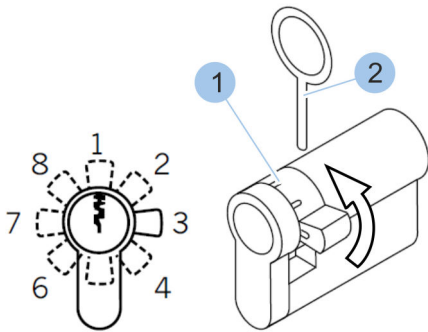


Fig. 34: Adjust cam

Special tool: ■ Release pin, such as an opened paper clip

1. → Push in the pressure bolt (1) with a release pin (2).
2. → Turn cam.
⇒ The pressure bolt automatically engages.

3. →



NOTICE!

Reduced protection against burglary due to incorrectly aligned cam.

Repeat steps 1 and 2 until the cam is in the required position. The cam must face the door hinge side after the fitted cylinder has been locked.

4.6 Install cylinder type 01, type 02 and type 05



One side of the cylinder in type 05 features a purely mechanical function. It features a red mark underneath the keyway. This side must be fitted towards the inside.

Install cylinder type 01

Prerequisites:

- Old cylinder has been removed.
 - [Chapter 4.1 "Dismount old cylinder" on page 48](#)
- New cylinder has been selected by type and dimensions.
 - [Chapter 4.2 "Determine cylinder type" on page 49](#)
 - [Chapter 4.3 "Determine cylinder length" on page 50](#)
- Face plate screw has been checked and also shortened if necessary.
 - ["Shorten face plate screw" on page 54](#)

Insert cylinder

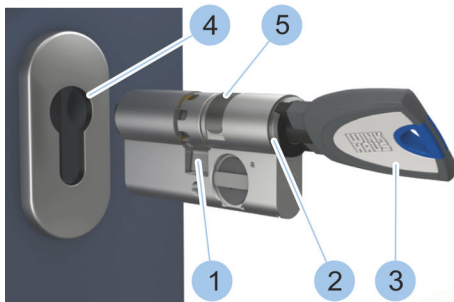


Fig. 35: Insert cylinder

1. → Insert key (3) into the keyway (2).
2. → Turn the key (3) to place cam (1) in the zero position.
3. →



NOTICE!

Material damage caused by using force to fit cylinder and incorrect cylinder installation!

Insert cylinder into the profile channel (4) with magnetic protection (5) facing the outer side. If the cylinder is stuck, carefully jiggle with the key and push cylinder in. Contact specialist company if you experience problems.

Align cam

Select and install cylinder



Fig. 36: Align cam

Screw cylinder tightly into position

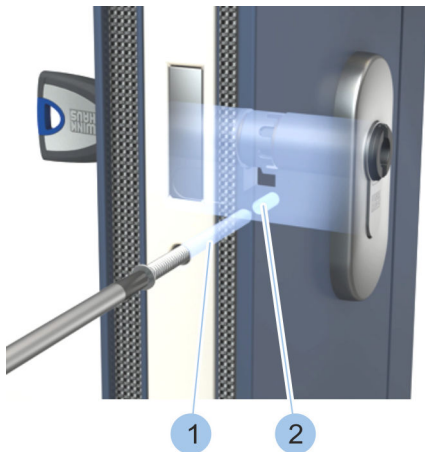


Fig. 37: Screw face plate screw into position

Perform functional test

4. ▶



NOTICE!

Reduced protection against burglary due to incorrectly aligned cam.

Turn key into vertical position.

⇒ The cam (1) is facing the door hinge side.

5. ▶



NOTICE!

Material damage due to face plate screws screwed into place at angle.

Screw the face plate screw (1), so that it is straight when it enters the cylinder thread (2).

6. ▶



NOTICE!

Physical damage due to over-tightening of screw.

Use a screwdriver to tighten face plate screw (1) by hand.

⇒ The cylinder is installed.



- 7.** → 'Lock' the door with the door open.
⇒ The lock deadbolt (1) extends.
- 8.** → 'Unlock' the door with the door open.
⇒ The lock deadbolt (1) retracts.

Fig. 38: Operate the cylinder

4.7 Install cylinder type 04 and type 04 MK



Type 04 and type 04 MK may only be installed from the inside due to the knobs.

Prerequisites:

- Old cylinder has been removed.
 - ↪ “Overview and explanation of terms” on page 47
- New cylinder has been selected by type and dimensions.
 - ↪ Chapter 4.2 “Determine cylinder type” on page 49
 - ↪ Chapter 4.3 “Determine cylinder length” on page 50
- Face plate screw has been checked and also shortened if necessary.
 - ↪ “Shorten face plate screw” on page 54

Insert cylinder

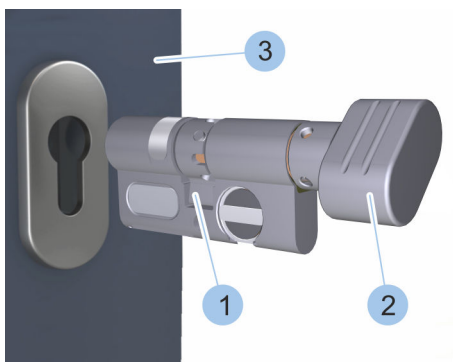


Fig. 39: Insert cylinder

Align cam

1. ➤ Turn the knob (2) to place cam (1) in the zero position.

2. ➤



NOTICE!

Material damage caused by using force to insert cylinder.

Push in cylinder from the inner side of the door (3). If the cylinder is stuck, carefully jiggle with the knob and push cylinder in. Contact specialist company if you experience problems.



Fig. 40: Align cam

3. →



NOTICE!

Reduced protection against burglary due to incorrectly aligned cam.

Turn knob into vertical position.

⇒ The cam (1) is facing the door hinge side.

Screw cylinder tightly into position

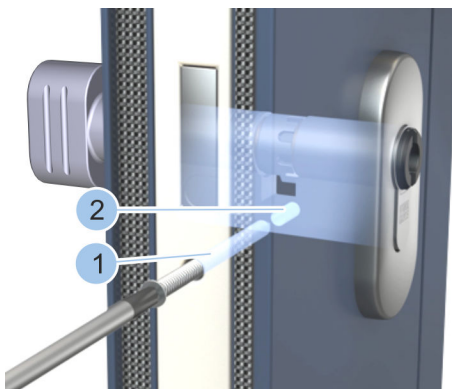


Fig. 41: Screw cylinder tightly into position

4. →



NOTICE!

Physical damage due to face plate screws screwed at an angle.

Screw the face plate screw (1), so that it is straight when it enters the cylinder thread (2).

5. →



NOTICE!

Physical damage due to over-tightening of screw.

Use a screwdriver to tighten face plate screw (1) by hand.

⇒ The cylinder is installed.

Perform functional test



Fig. 42: Perform functional test

6. ➤ 'Lock' the door with the door open.
⇒ The lock deadbolt (1) extends.
7. ➤ 'Unlock' the door with the door open.
⇒ The lock deadbolt (1) retracts.

4.8 Install cylinder type 21 and type 22

Prerequisites:

- Old cylinder has been removed.
 - ↪ Chapter 4.1 "Dismount old cylinder" on page 48
- New cylinder has been selected by type and dimensions.
 - ↪ Chapter 4.2 "Determine cylinder type" on page 49
 - ↪ Chapter 4.3 "Determine cylinder length" on page 50
- Face plate screw has been checked and also shortened if necessary.
 - ↪ "Shorten face plate screw" on page 54

Insert cylinder

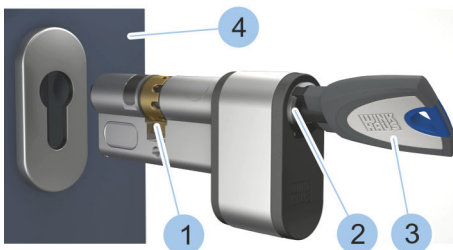


Fig. 43: Insert cylinder

1. ➤ Insert key (3) into the keyway (2) on the battery compartment side.
2. ➤ Turn the key (3) to place cam (1) in the zero position.
3. ➤



NOTICE!

Material damage caused by using force to insert cylinder.

Push in cylinder from the inner side of the door (4). If the cylinder is stuck, carefully jiggle with the key and push cylinder in. Contact specialist company if you experience problems.

Align cam

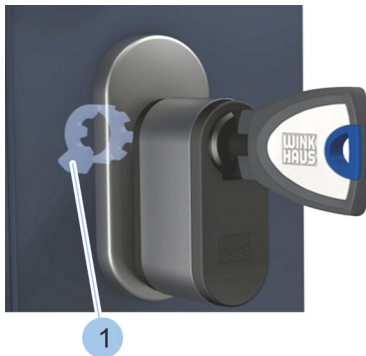


Fig. 44: Align cam

4. ➔



NOTICE!

Reduced protection against burglary due to incorrectly aligned cam.

Turn key into vertical position.

⇒ The cam (1) is facing the door hinge side.

Screw cylinder tightly into position

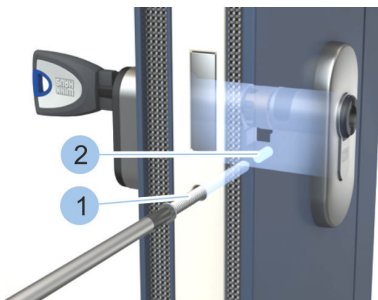


Fig. 45: Screw cylinder tightly into position

5. ➔



NOTICE!

Physical damage due to face plate screws screwed at an angle.

Screw the face plate screw (1), so that it is straight when it enters the cylinder thread (2).

6. ➔



NOTICE!

Physical damage due to over-tightening of screw.

Use a screwdriver to tighten face plate screw (1) by hand.

⇒ The cylinder is installed.

Perform functional test



Fig. 46: Perform functional test

7. ➔

'Lock' the door with the door open.

⇒ The lock deadbolt (1) extends.

8. ➔

'Unlock' the door with the door open.

⇒ The lock deadbolt (1) retracts.

5 Select and install reader

5.1 Select reader

Different both reader types can be integrated into the locking system. The place of use determines whether a reader with external or internal control unit is installed.

- A reader with internal control unit is suitable for use indoors.
- It is advisable to install a reader with external control unit in outdoor areas, where there is an increased risk of break-in and vandalism. The control unit is mounted in the secure internal area.

5.2 Install reader



NOTICE!

Material damage due to incorrect installation of the reader!

Incorrect installation of the reader can result in damage or destruction of the reader and the connected electronics.

- Have the reader installed by a qualified electrician in energy and building technology.
- Carry out the installation in accordance with these instructions.
- Only mount the switching mechanism in deenergised state.

5.2.1 Install reader with internal control unit

Personnel:	■ Qualified electrician for energy and building technology
Protective equipment:	■ Safety shoes ■ Hearing protection
Special tool:	■ Impact drill incl. drill set ■ Drilling template ■ Voltmeter
Materials:	■ Dowel ■ Taut wire ■ Screws

Prerequisites:

- Empty conduit for cable routing has been laid.
- Reader and reader cable are ready.

Prepare electrical installation

1. ➤ Drill the holes in the wall in accordance with the drill template.
2. ➤ Insert dowels in both holes.
3. ➤ Feed the taut wire into the empty conduit.
4. ➤ Carefully remove the reader housing. To do this, press lightly against the reader housing from below until the reader housing folds open to the front.
5. ➤ Connect the connector of the reader with the mating connector of the connection cable.
6. ➤ Feed the cable carefully into the empty conduit using the taut wire.

7. ➤



NOTICE!

Damage to the reader and periphery due to excessive tightening torque!

Screw on the reader by hand.

8. ➤ Place the reader housing on the exposed reader and engage.

⇒ The reader has been installed.

Power supply wiring

9. ➤



NOTICE!

Functional fault due to incomplete wiring!

Only activate the power supply once the wiring has been completed in full.

10. ➤



NOTICE!
Damage to the contacts caused by switching inductive loads!

Install the suppressor diode (freewheeling diode) supplied to protect the contacts parallel to the load.

11. ➤



NOTICE!
Destruction of the reader due to increased voltage!

Use a regulated powerpack supply with an output voltage of 12 V.

12. ➤



WARNING!
Personal injury due to electrical voltage!

Check for deenergised state.

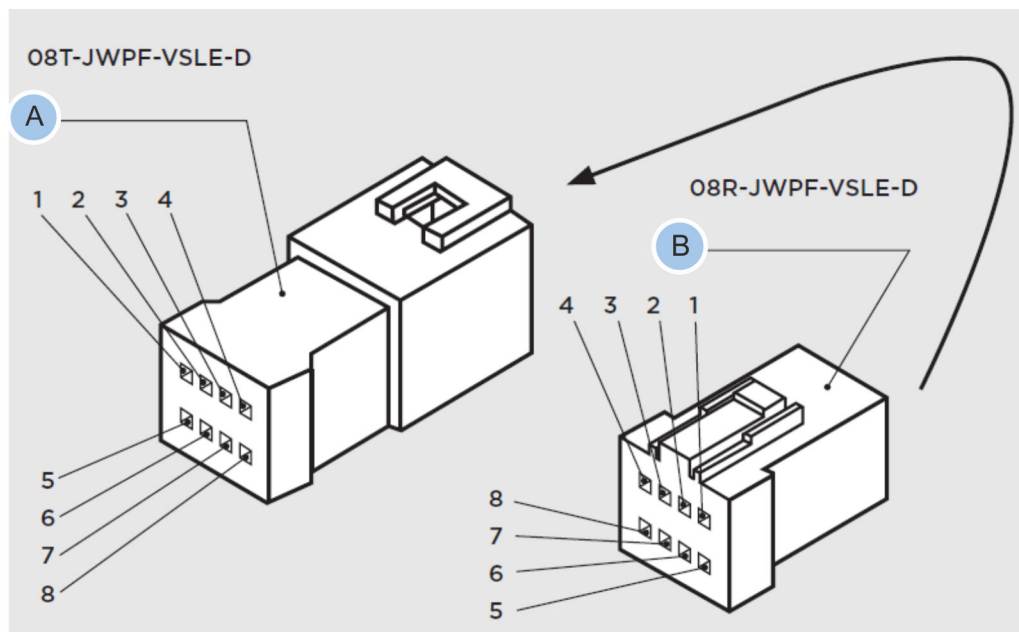


Fig. 47: Pin assignment on the connector

- A Socket of the reader
- B Connector on door or wall

13. ➤

Connect the reader cable with the connector on the door or wall.

Select and install reader



Fig. 48: Relay wiring

14. ▶



Lead assignment on the connector

Lead no. 6 to 8 on the connector are not used during the installation of the reader with internal control unit and must not be wired.

Connect the periphery to the relay outputs of the reader.

Information on wiring the power supply ↗ “Reader BOTI” on page 186

15. ▶ The following options are available for connecting the relay outputs to the reader:

- Relay connection NO = normal open, working side
- Relay connection NC = normal closed, idle side
- Relay connection COM = common, centre connection

When the relay is released, COM is switched to NO.

When the relay is blocked, COM is switched to NC.

16. ▶ Connect with the power supply.

17. ▶ Activate the power supply.

⇒ If the power supply is wired correctly, the left LED of the reader flashes yellow.

↗ Chapter 1.6 “Reader” on page 27

5.2.2 Install reader with external control unit



NOTICE!

Damage to the reader when replacing the control unit!

Because the reader and the external control unit are connected to each other, intermittent replacement of the control unit can render the old control unit unusable.

- When replacing a reader with external control unit, always replace the reader unit and the control unit together.
- The reader unit and external control unit should only be replaced by a qualified electrician ↪ *Chapter 5.2 "Install reader" on page 65.*

Personnel:	<ul style="list-style-type: none"> ■ Qualified electrician for energy and building technology
Protective equipment:	<ul style="list-style-type: none"> ■ Safety glasses ■ Safety shoes ■ Hearing protection
Special tool:	<ul style="list-style-type: none"> ■ Impact drill incl. drill set ■ Drilling template ■ Voltmeter
Materials:	<ul style="list-style-type: none"> ■ Dowel ■ Taut wire ■ Screws

Prerequisites:

- Empty conduit for cable routing has been laid.
- Flush-mounted box has been installed.
- The reader and control unit and the reader cable are ready.

Prepare the electrical installation in outdoor and indoor areas

1. ➤ Drill the holes in the wall in accordance with the drill template.
2. ➤ Insert dowels in both holes.
3. ➤ Feed the taut wire into the empty conduit.
4. ➤ Carefully remove the reader housing. To do this, press lightly against the reader housing from below until the reader housing folds open to the front.

Select and install reader

5. ▶ Connect the connector of the reader unit with the mating connector of the connection cable.

⇒ The reader unit is connected with the connection cable of the relay connection.

6. ▶ Feed the cable carefully through the empty conduit using the taut wire.

7. ▶



NOTICE!
Damage to the reader unit and periphery!

Screw on the reader unit by hand.

8. ▶ Place the reader housing on the exposed reader unit and engage.

⇒ The reader unit is mounted.

Power supply wiring

9. ▶



NOTICE!
Faulty power supply due to incomplete wiring!

Only activate the power supply once the wiring has been completed in full.

10. ▶



NOTICE!
Damage to the contacts caused by switching inductive loads!

Install the suppressor diode (freewheeling diode) supplied to protect the contacts parallel to the load.

11. ▶



NOTICE!
Destruction of the reader due to increased voltage!

Use a regulated powerpack supply with an output voltage of 12 V.

12. ▶



WARNING!
Personal injury due to electrical voltage!

Check for deenergised state.

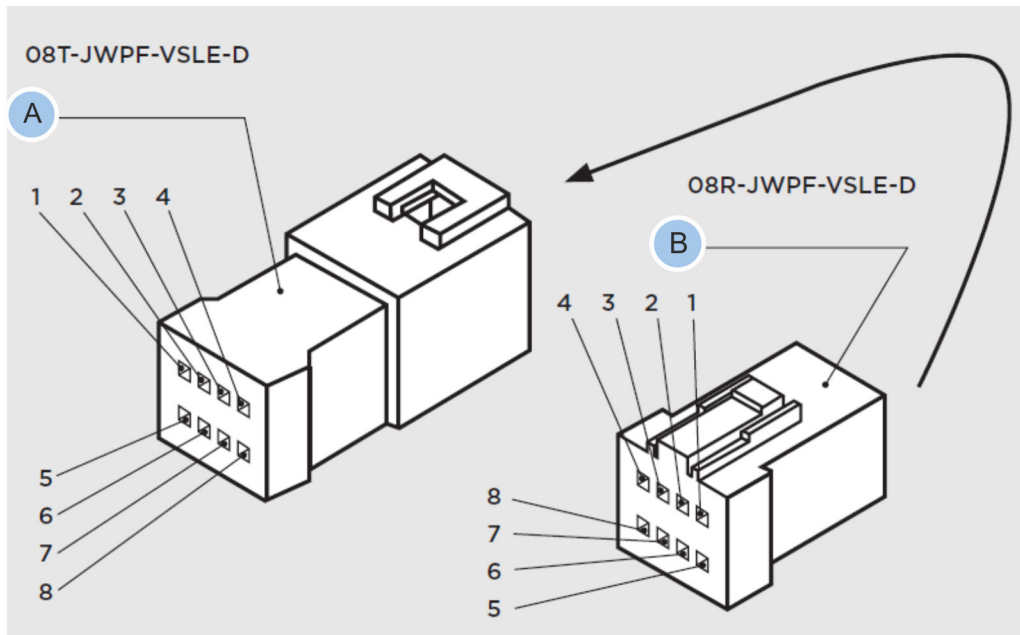


Fig. 49: Pin assignment on the connector

- A Socket of the reader unit
- B Connector on door or wall

13. Connect the relay of the reader with the connector on the door or wall.

Select and install reader

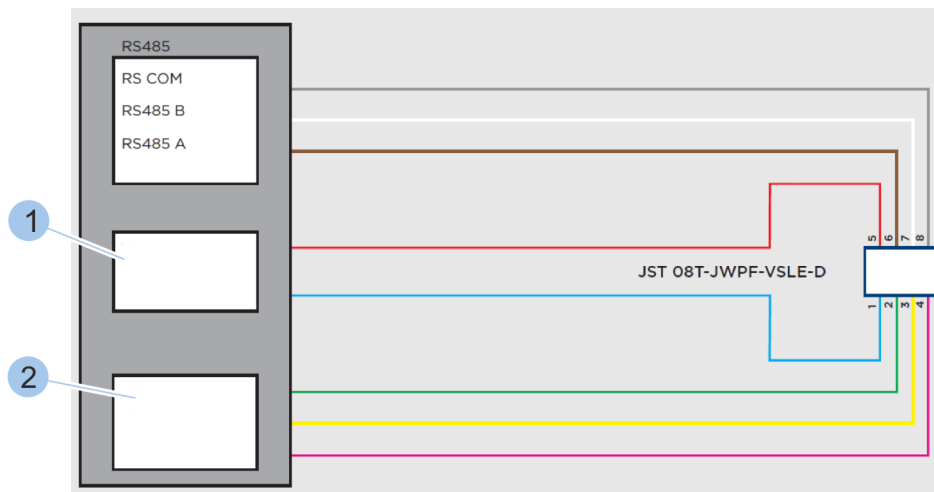


Fig. 50: Wire the reader unit

- 1 Supply voltage
- 2 Leads are connected

14. Connect the reader unit to the control unit.

The communication between the reader unit and control unit takes place via a RS-485 interface:

- A shielded cable must be used for RS-485 data lines of the reader unit and the inputs of the control unit.
- For cable lengths over 3 m, terminate the BUS close to the cable ends with a resistor between A and B. Suitable values are between 470 and 220 Ohm ($\geq 1/8$ W).
- Connect the shielding to earth potential at a point. If the control unit is installed in a distribution or flush-mounted box, only voltages below 40 V must be present there.

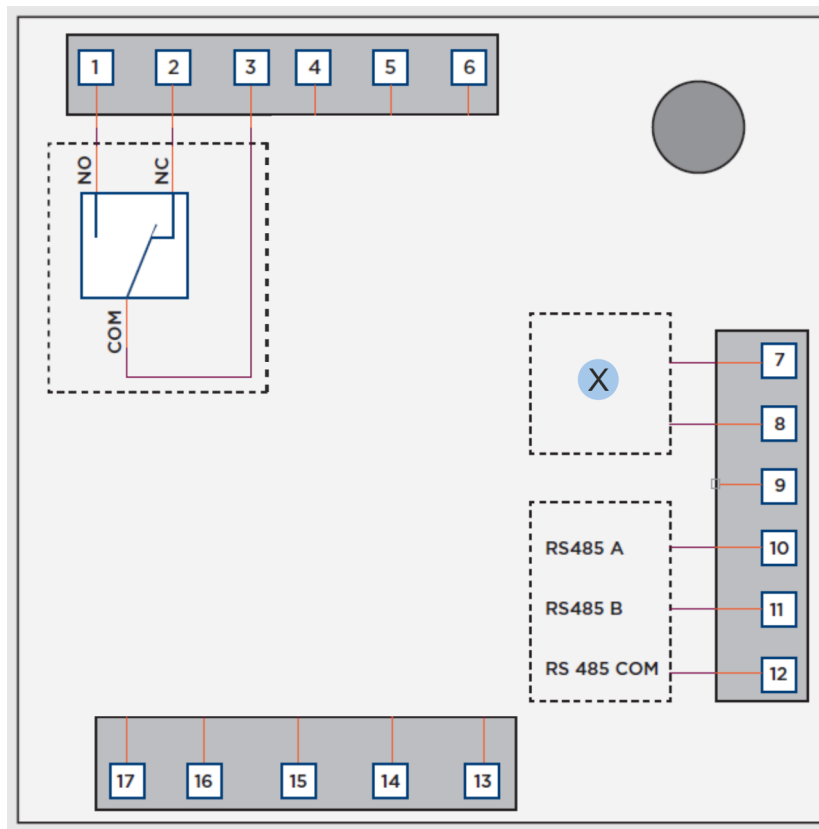


Fig. 51: Terminal assignment on the control unit

X Voltage

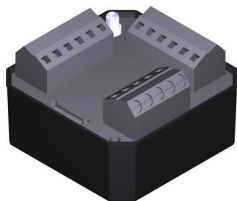


Fig. 52: Control unit

15. Use a circuit diagram for wiring the control unit internally.



Wiring the terminals on the control unit

Terminals 4, 5, 6 and 13 to 17 are not used on the blueCompact reader and must not be wired!

The table provides an overview of the wiring of the terminals:

Terminal	Assignment
1	Relay NO
2	Relay NC
3	Relay COM
4 - 6	-
7	V1
8	V2

Terminal	Assignment
9	Ground
10	RS 485 A
11	RS 485 B
12	RS 485 COM
13 - 17	-

- 16.** ▶ Connect the periphery to the relay outputs of the reader unit.

Information on wiring the power supply ↗ *“Reader BOTE” on page 187*

The following options are available for connecting the relay outputs to the reader:

- Relay connection NO = normal open, working side
- Relay connection NC = normal closed, idle side
- Relay connection COM = common, centre connection

When the relay is released, COM is switched to NO.

When the relay is blocked, COM is switched to NC.

Complete the electrical installation

- 17.** ▶ Once the reader cable has been wired with the external control unit internally, connect the external control unit to the power supply.

- 18.** ▶ Activate the power supply.

⇒ If the power supply is wired correctly, the left LED of the reader unit flashes yellow.

↗ *Chapter 1.6 “Reader” on page 27*

6 Install app



The app is free of charge.

Prerequisites:

- The user is registered in Google Play.
- There is an Internet Connection with your smartphone.

Install app on the smartphone



1. ➤ Open Google Play.
2. ➤ Search for “Winkhaus”.
3. ➤ Download blueCompact App.
4. ➤ Accept the app permissions.
5. ➤ Install blueCompact App.
 - ⇒ The blueCompact App is shown on the display and can be launched.

Fig. 53: QR code from Google Play

Install app

7 Manage locking system

7.1 Initialise Masterkey

The components in the locking system are managed with the Masterkey. You need to establish/initialise an active key as the Masterkey to do so.



WARNING!

Missing locking authorisation due to time shift in different time zones!

During the initialisation of the Masterkey, the time zone selected on the smartphone is applied. Locking authorisations for a specific period of time and specific days only apply to the relevant time zone. Doors which do not open may result in death in hazardous situations.

- The locking system must only be managed in one time zone.

Precondition:

- Smartphone Bluetooth link has been switched on.

Select Masterkey

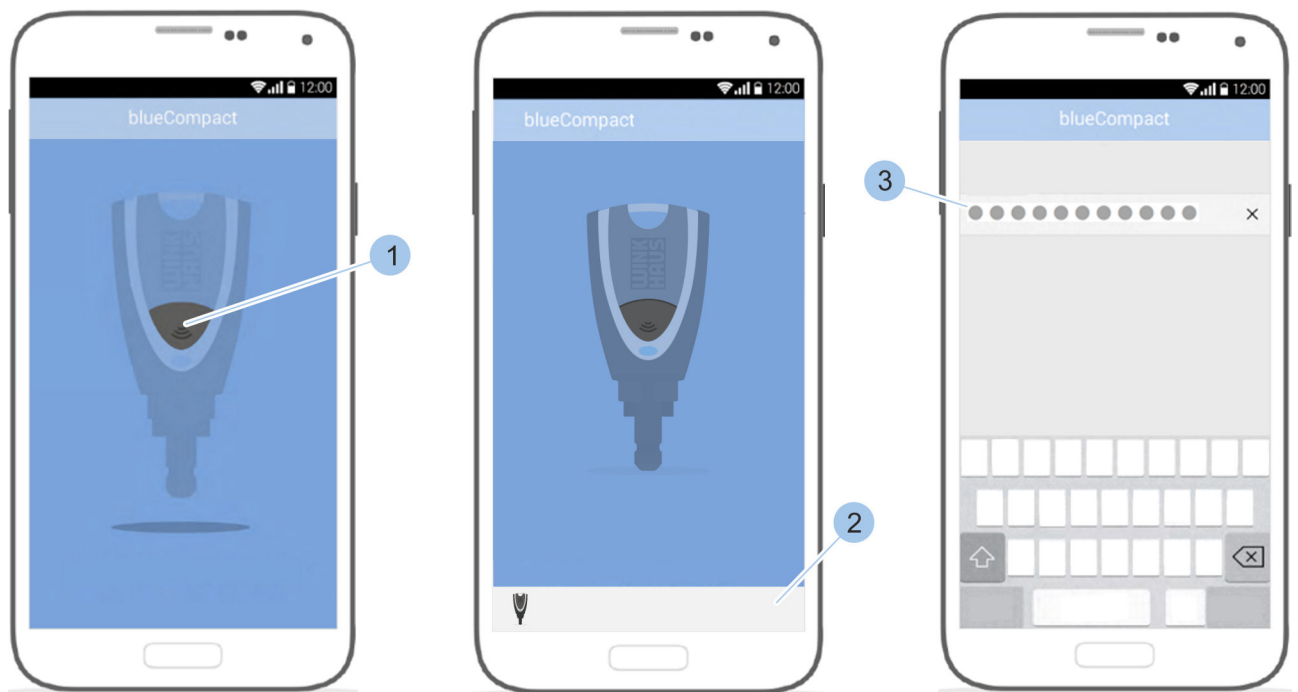


Fig. 54: Initialise Masterkey

1. Launch app.
2. Press the push button for the active key (1) to be used as a Masterkey.

3. ▶ Select active key (2).
⇒ The active key is activated and connected to the app. The key can be initialised.
4. ▶ Enter PUK code (3).

Enter activation card and password

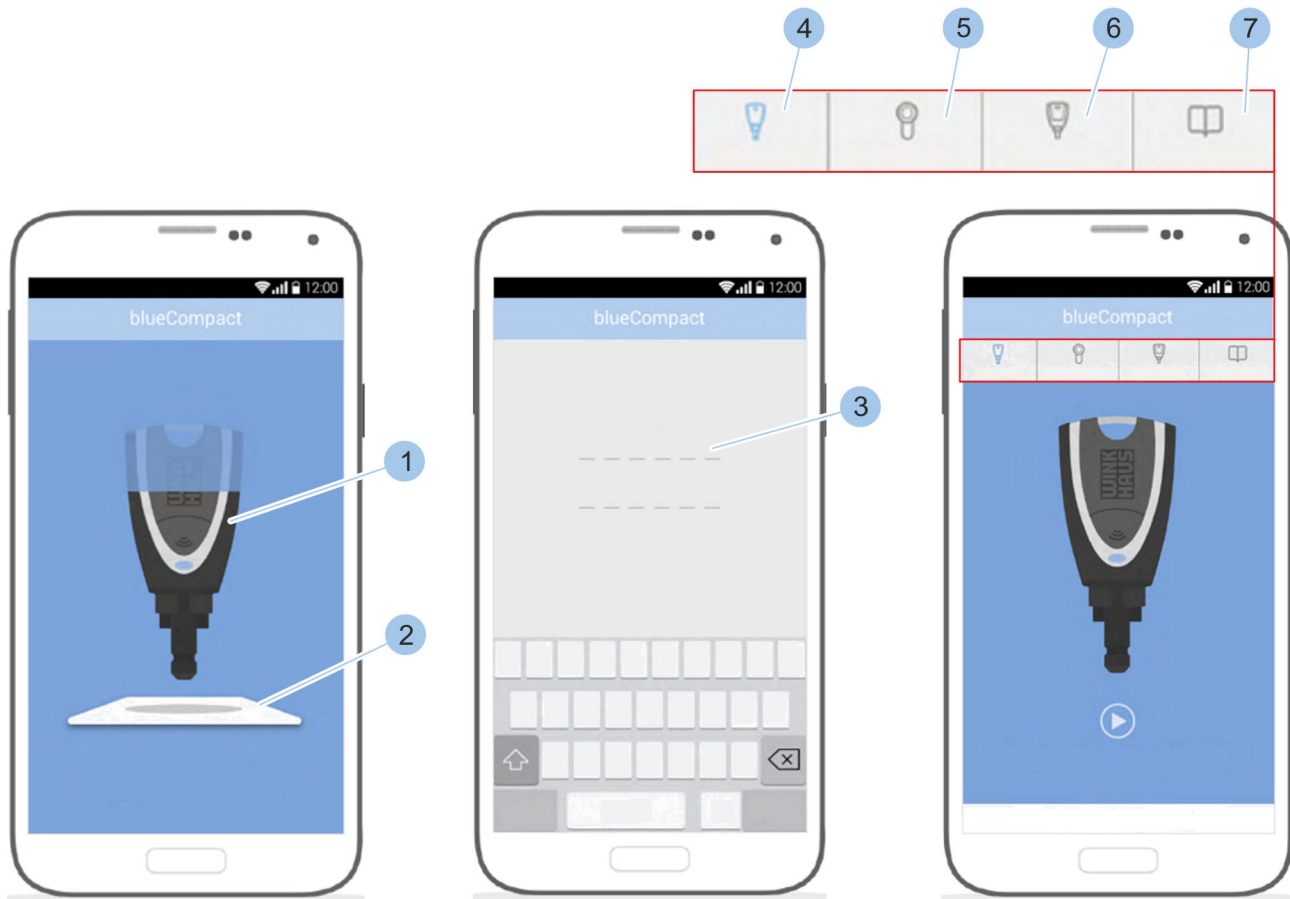


Fig. 55: Enter password

5. ▶ Place Masterkey (1) on the centre of the activation card (2) and hold in place.
6. ▶ Confirm the PUK code entry.

7. Generate own password (3) and confirm.



The password must meet the following requirements:

- *The password must have a minimum of six digits and a maximum of 16 digits.*
- *The password must include at least one lower case letter.*
- *The password must include at least one upper case letter.*
- *The password must include at least one number.*




After setting the password, you have the option of activating a locking plan reminder and selecting an e-mail address for notification and a file format for this purpose.

Following activation, you are informed automatically of any changes in the locking plan authorisations and thus also have the descriptions for the individual keys.

If the Masterkey is lost, the keys are listed without descriptions, which is why we recommend activating the locking plan reminder.


 Chapter 7.8.1 "Forward locking plan manually" on page 126

 Chapter 7.8.2 "Create a locking plan change reminder" on page 129

- ⇒ The Masterkey has been activated and the *Key menu* (4), *Cylinder menu* (5), *Master key menu* (6) *Instructions menu* (7) can be opened in the menu bar.

7.2 Register

Prerequisites:

- Smartphone Bluetooth link has been switched on.
- Masterkey has been initialised.
 -  *Chapter 7.1 "Initialise Masterkey" on page 77*
- The Masterkey used and the smartphone were recently connected with each other.

Further requirements for logging in with fingerprint:

- The smartphone has a fingerprint scanner.
- The fingerprint scanner was activated in the *Settings* menu on the smartphone and fingerprints have been saved.
- Log-in must have taken place once with the password.

Register Masterkey

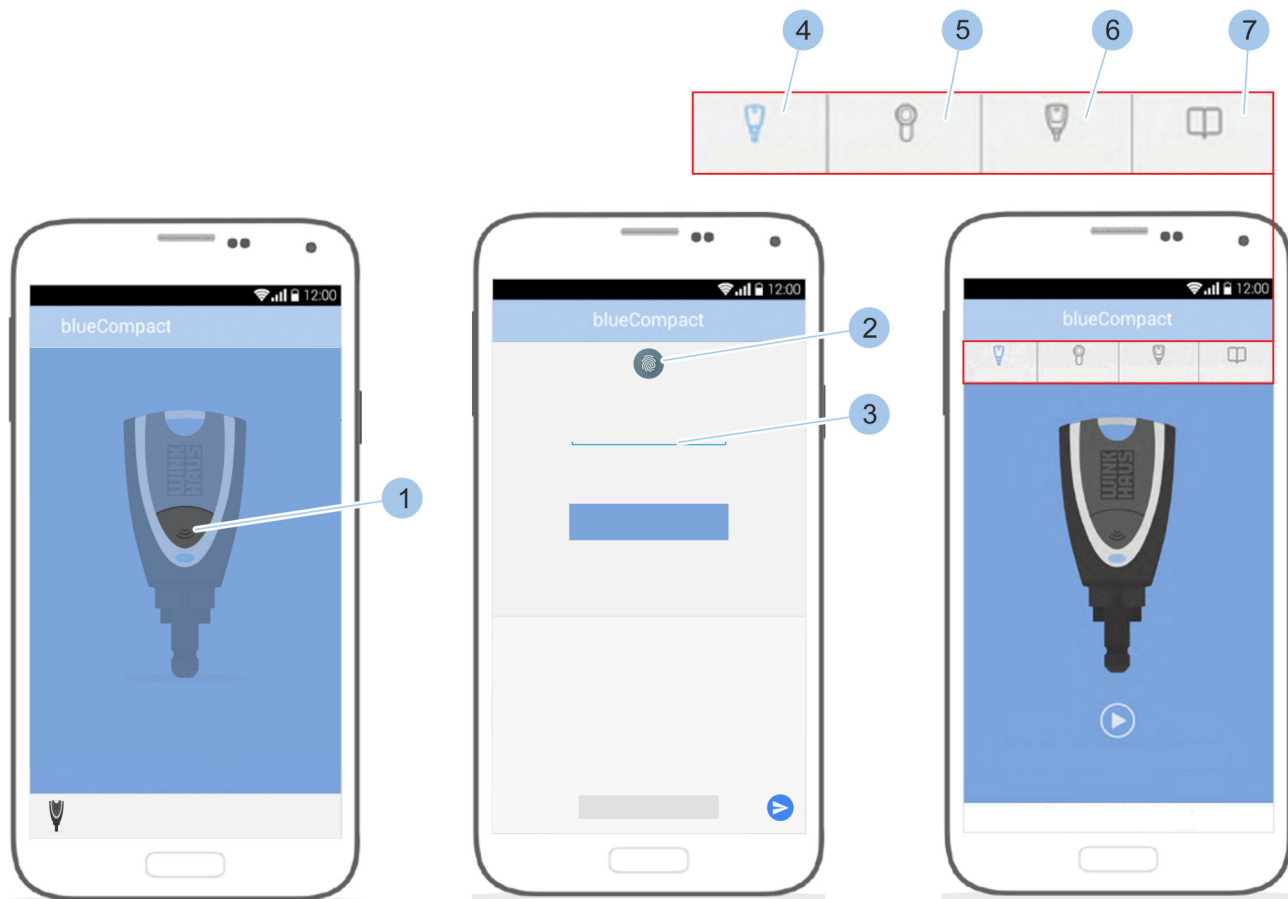


Fig. 56: Register

1. ➤ Launch app.
2. ➤ Press button (1).
 - ⇒ The Masterkey is activated and connected to the app.

3. ➔



The symbol (2) is only shown if a fingerprint scanner is present and activated.

Place the finger on the fingerprint scanner (2) of the smartphone. Alternatively, enter the password (3).

⇒ The Masterkey is connected to the app and the *Key menu* (4), *Cylinder menu* (5), *Master key menu* (6) *Instructions menu* (7) can be opened in the menu bar.

7.3 Add and manage key

7.3.1 Add key to locking system

Incorporate key

Precondition:

- Masterkey has been linked to the app.
- 🔗 Chapter 7.2 “Register” on page 79

Link key with Masterkey

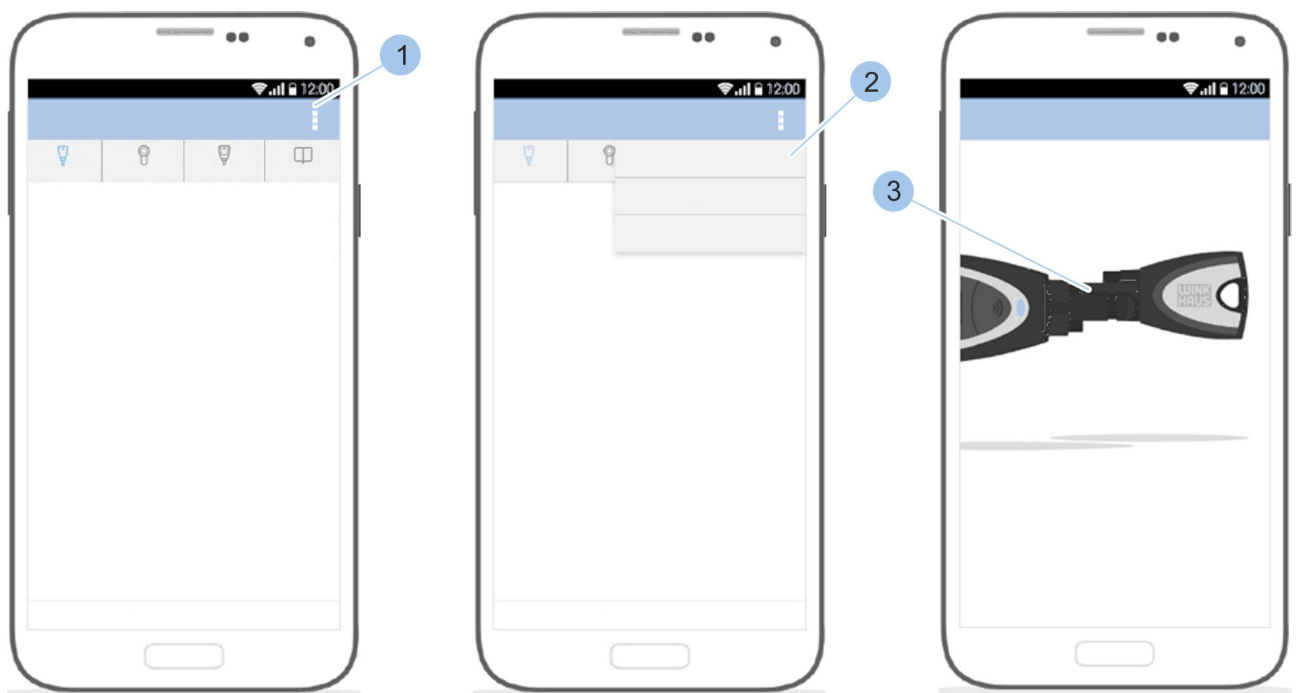


Fig. 57: Incorporate key

1. ➔ Call up the *Key menu* menu.
2. ➔ In the *Key menu*, touch the *Options menu* (1).
3. ➔ Touch *Add key* (2).

4. ▶ Insert Masterkey and key into the adapter (3).

Enter key specifications

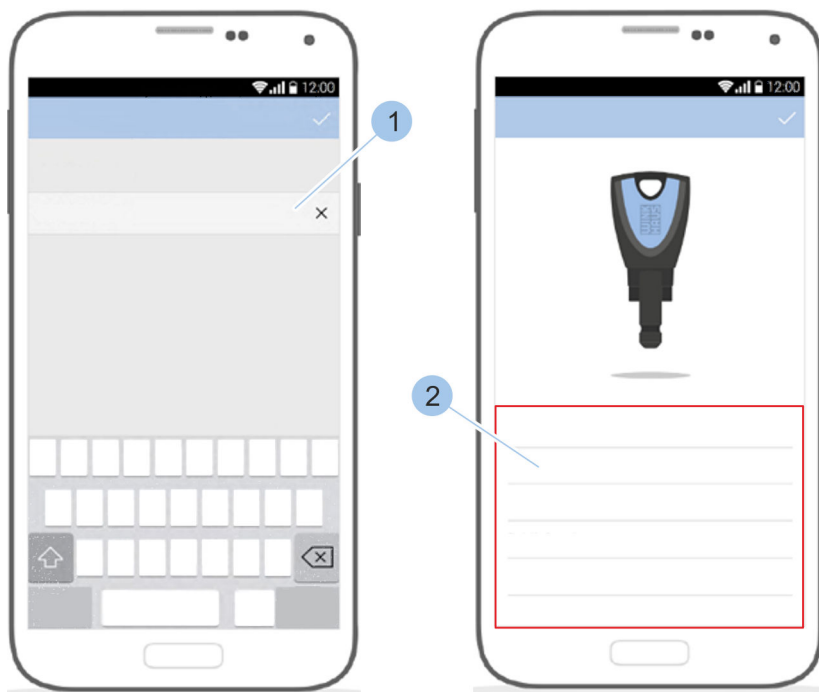


Fig. 58: Name key

5. ▶ Name key (1).

6. ▶ Check information (2) about key.

⇒ The key has been added to the locking system.

7.3.2 Manage key

Precondition:

- User is in the *Key menu*.

Select key

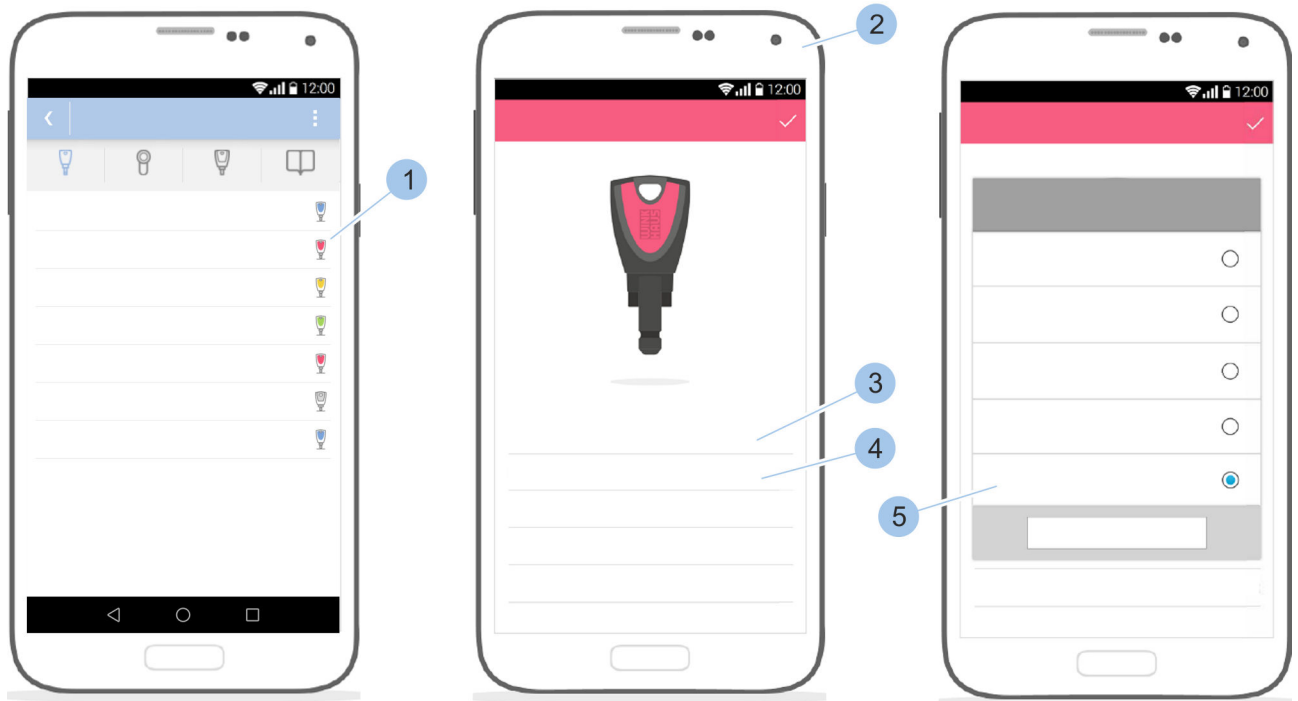


Fig. 59: Manage key

1. ➔



Key groups give you a better oversight of key management. Key groups can be used to organise keys for specific groups such as family or company employees.

A higher level locking rights allocation is not possible with these key groups.

Active keys are indicated with the relevant symbol.

Select key (1).

⇒ The key details are displayed (2).

2. ➔ Touch the key (3) name.

3. ➔ Change key name.

4. ➔ Touch the colour of the key (4).

5. ➔ Select the colour of the key (5).

Precondition:

- User is in the *Key menu*.

Show locking rights

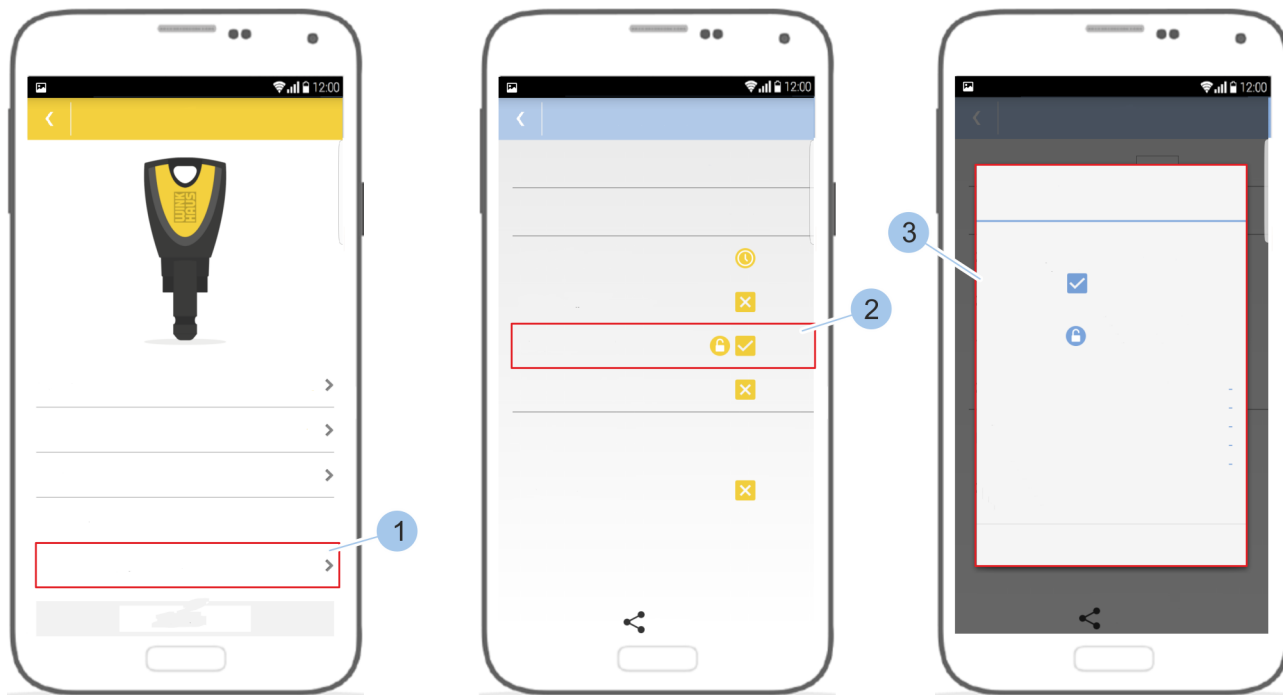


Fig. 60: Add to locking rights

1. Touch *Authorisation overview* (1).
⇒ The locking rights of the key for the cylinders and readers present in the system are shown.
2. The following locking rights can be selected:
 - ✓: The key is fully authorised.
 - ✕: The key is not authorised to lock.
 - ⌚: The key is authorised via a time profile.
 - ⌚: The key is authorised to activate and deactivate the permanent release on the reader.
3. Tap on a cylinder or reader name (2).
⇒ The authorisation details (3) are shown.

7.3.3 Identify key

You can identify the key if you do not know which key it is or what locking rights it holds. The information about the key is displayed once it is identified.

Precondition:

- Masterkey has been linked to the app.
- ↪ Chapter 7.2 "Register" on page 79

Display key



Fig. 61: Identify key

1. ➤ Call up the *Key menu* menu.
2. ➤ In the *Key menu*, touch the *Options menu* (1).
3. ➤ Touch *Identify key* (2).
4. ➤ Insert Masterkey (3) and key (4) into the adapter.
 - ⇒ The key's specifications are shown after the key has been scanned, such as the battery status.

7.3.4 Delete key

Prerequisites:

- User is in the *Key menu*.
- Key no longer has any locking authorisations.
 - ↪ *Chapter 7.4.5 “Issue and withdraw locking authorisations on the cylinder” on page 91*

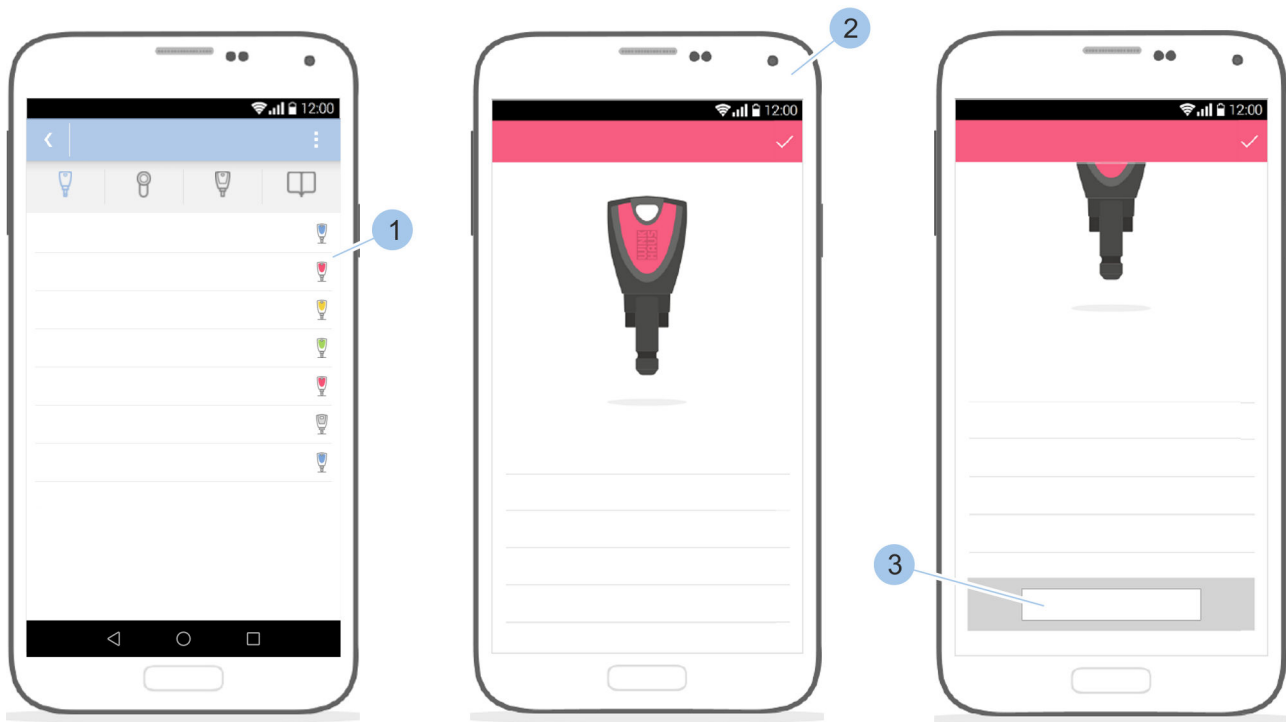


Fig. 62: Delete key

1. ➤ Select key (1).
 - ⇒ The key details are displayed (2).
2. ➤ Scroll down in the details for the key (2).
3. ➤ Touch *Delete* (3).
 - ⇒ The key is deleted.

7.4 Add and manage cylinder

7.4.1 Add cylinder to locking system

Precondition:

- Masterkey has been linked to the app.
 - ↪ Chapter 7.2 "Register" on page 79

Link cylinder with Masterkey

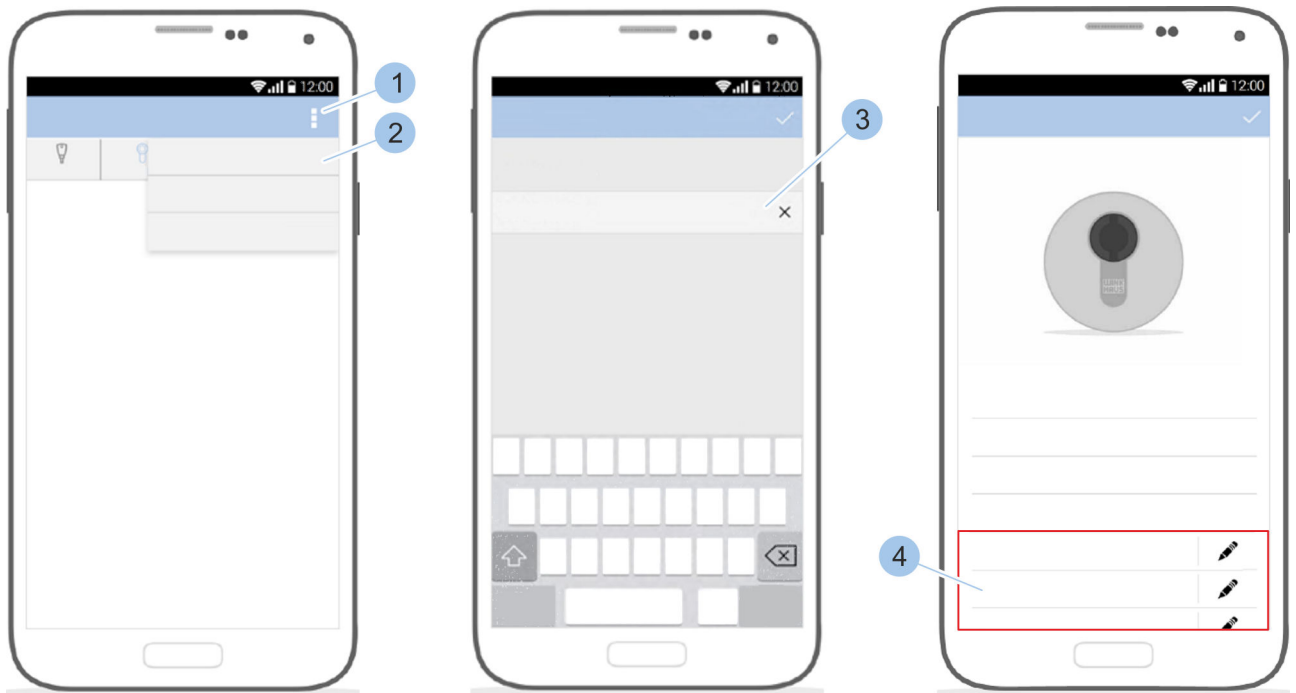


Fig. 63: Add cylinder

1. ➤ Call up the *Cylinder menu*.
2. ➤ In the *Cylinder menu*, touch the *Options menu* (1).
3. ➤ Insert Masterkey in the cylinder.
4. ➤ Touch *Add cylinder* (2).
5. ➤ Name cylinder (3).
6. ➤ Issue access authorisations (4).

Enter cylinder specifications

7.4.2 Change cylinder name

Prerequisites:

- Masterkey has been linked to the app.
 - ↪ *Chapter 7.2 "Register" on page 79*
- User is in the *Cylinder menu*.

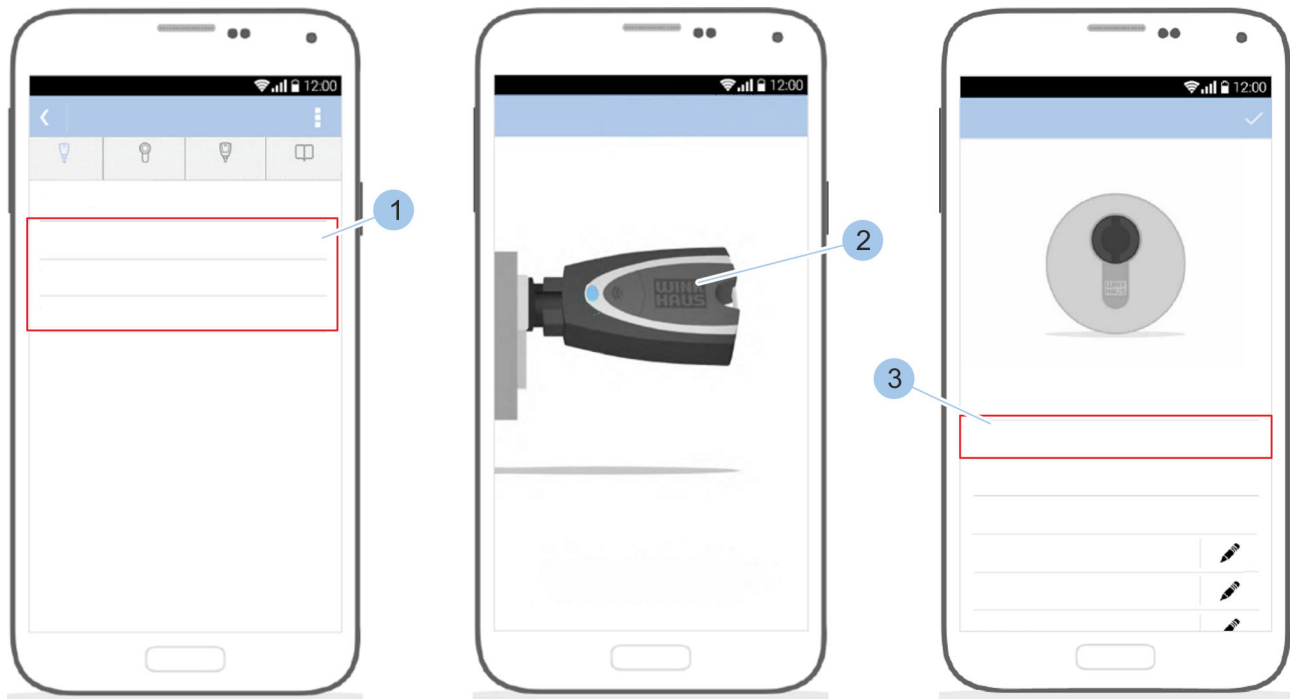


Fig. 64: Select cylinder

1. ➤ Select cylinder (1).
2. ➤ Insert Masterkey (2) in cylinder.
 - ⇒ The Masterkey (2) is linked to the cylinder.
3. ➤ Touch the cylinder (3) name.
4. ➤ Change cylinder name.

7.4.3 Identify cylinder

You can identify the cylinder if you do not know which cylinder it is. The information about the cylinder is displayed once it is identified.

Precondition:

- Masterkey has been linked to the app.
- ↪ Chapter 7.2 "Register" on page 79

Show cylinder

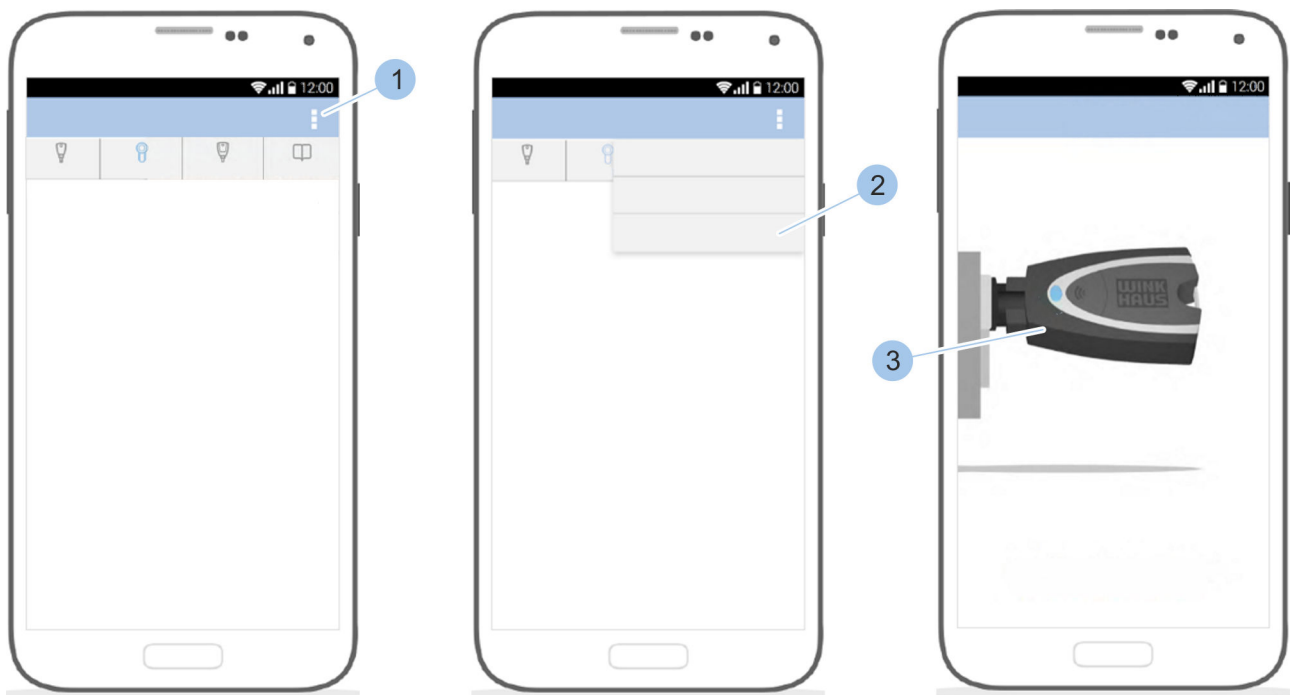


Fig. 65: Identify cylinder

1. ➤ Call up the *Cylinder menu*.
2. ➤ In the *Cylinder menu*, touch the *Options menu* (1).
3. ➤ Touch *Identify* (2).
4. ➤ Insert Masterkey (3) in the cylinder.
⇒ The cylinder specifications are shown after the key has been scanned.

7.4.4 Check the cylinder battery charge status

Prerequisites:

- Masterkey has been linked to the app.
 - ↪ *Chapter 7.2 "Register" on page 79*
- User is in the *Cylinder menu*.

Open cylinder overview

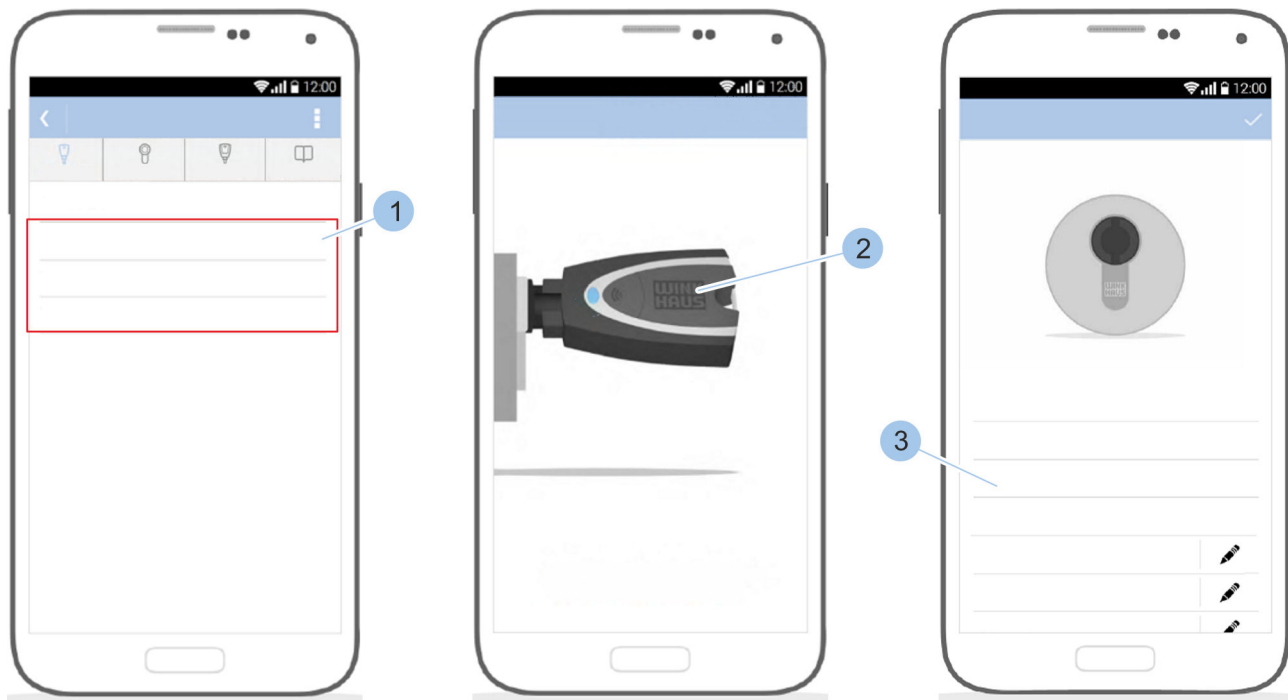


Fig. 66: Check the cylinder battery charge status

1. ➤ Select cylinder (1).
2. ➤ Insert Masterkey (2) in the cylinder.
 - ⇒ The Masterkey (2) is linked to the cylinder and the cylinder overview is shown.
3. ➤ Check the cylinder battery charge status (3). Replace the cylinder battery if the display says *low* or *replace*.
 - ↪ *Chapter 10.3.1 "Replace the battery in an active key" on page 156*

7.4.5 Issue and withdraw locking authorisations on the cylinder

Prerequisites:

- Masterkey has been linked to the app.
 - ↪ Chapter 7.2 "Register" on page 79
- User is in the *Cylinder* menu.

Connect Masterkey to cylinder

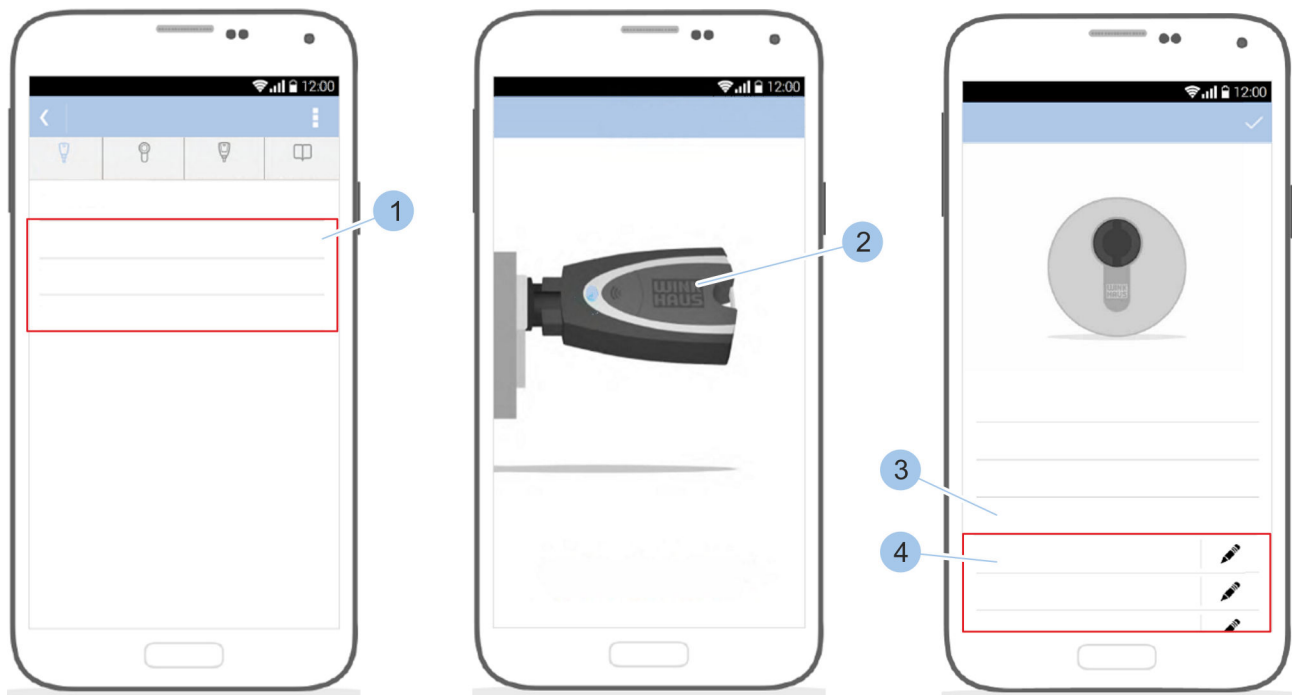


Fig. 67: Select cylinder

1. ➤ Select cylinder (1).
2. ➤ Insert Masterkey (2) in the cylinder.
 - ⇒ The Masterkey (2) is linked to the cylinder and the cylinder overview shown.
3. ➤ Touch the required key group (4) in *Access authorisations* (3).

Manage locking authorisations

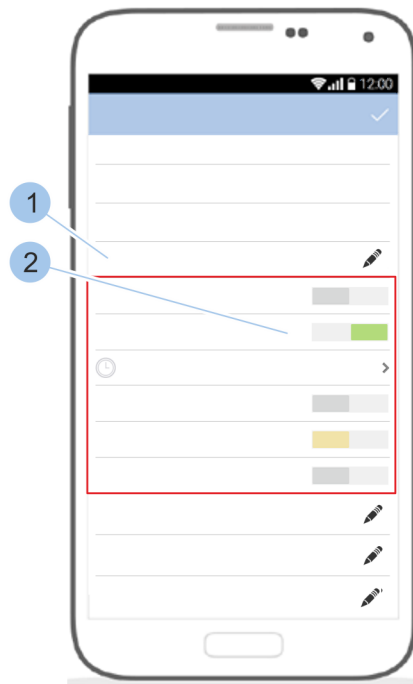


Fig. 68: Adjust locking authorisations

4. Assign or withdraw locking authorisations for the keys (2) of the key group (1).

Issue locking authorisations with time restriction



This function can be used to issue a locking authorisation for keys on the relevant cylinder for a defined period of time.

This function requires software version 200 or newer.

Prerequisites:

- Masterkey has been linked to the app.
 - Chapter 7.2 "Register" on page 79
- User is in the *Cylinder* menu.

Connect Masterkey to cylinder

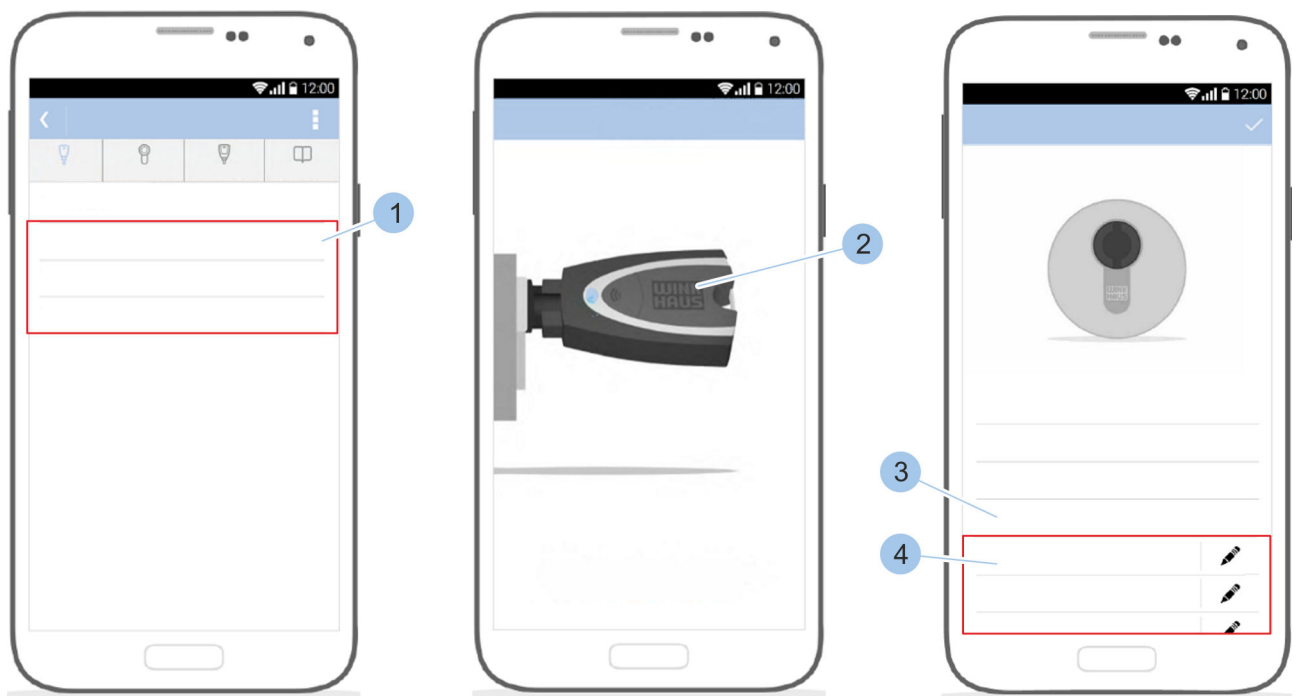


Fig. 69: Select cylinder

1. Select cylinder (1).
2. Insert Masterkey (2) in the cylinder.
 - ⇒ The Masterkey (2) is linked to the cylinder and the cylinder overview shown.
3. Touch the required key group (4) in *Access authorisations* (3).

Manage locking authorisations

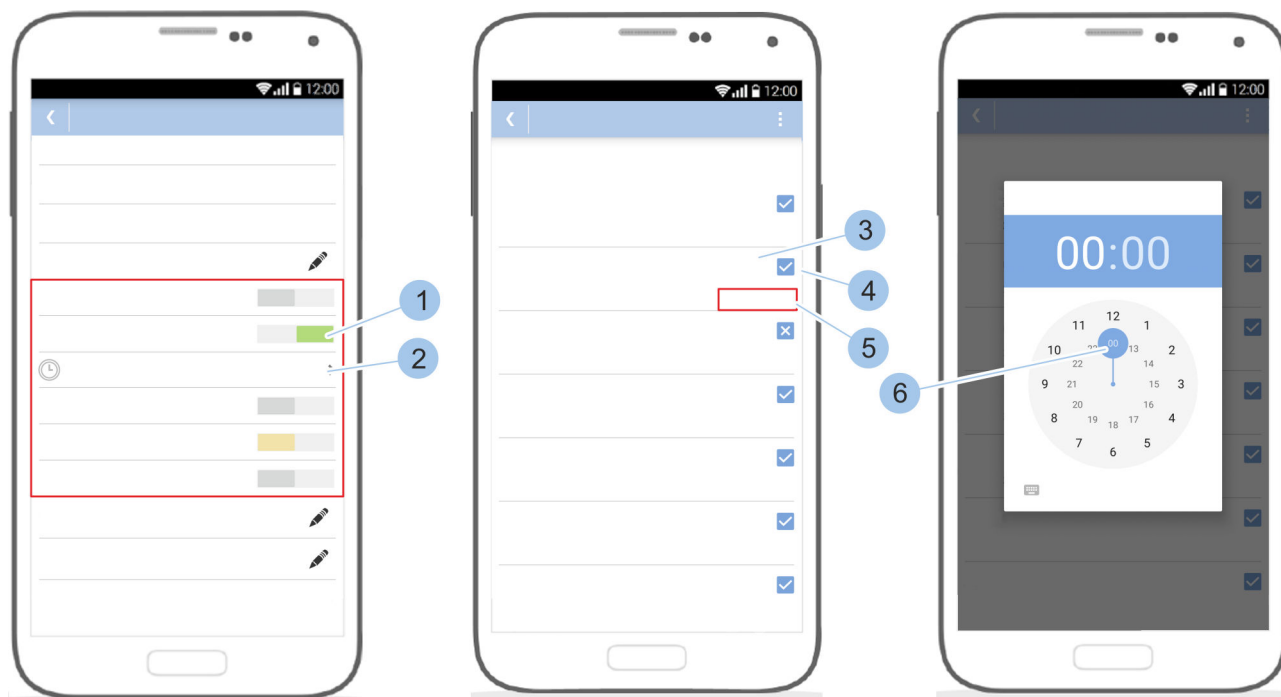


Fig. 70: Set time profiles

4. ▶ Issue locking authorisations for the key (1).
5. ▶ Touch the *Time profiles* (2) menu.
 - ⇒ The weekdays (3) are shown with the relevant authorisation symbol (4) and the authorisation status (5).
 - ✓ + *always*: The key is always authorised to lock on these days.
 - 🕒 + *08:00 - 18:00 h*: The key is authorised to lock for a specific period of time on this day.
 - ✗ + *not*: The key is not authorised to lock on this day.
6. ▶ Touch the authorisation status (5).
7. ▶ Set the period for the locking authorisation (6).
8. ▶ Touch the authorisation symbol (4) to switch between *always* and *not*.

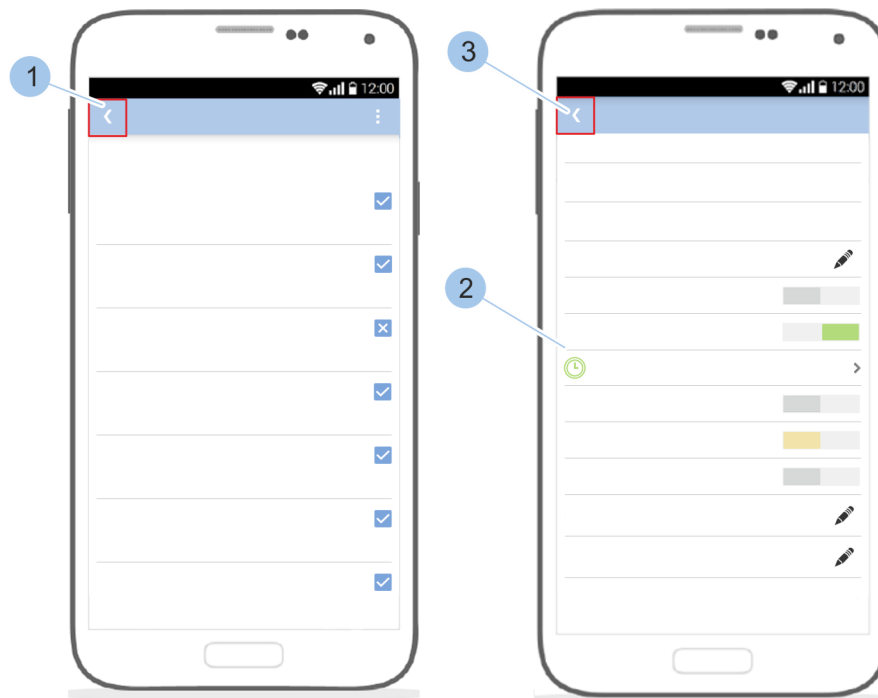


Fig. 71: Confirm changes

9. ➤ Confirm information (1).
 ⇒ The time profile is saved and active. The *Time profiles* (2) menu in the *Cylinder menu* is shown in the colour of the key.
10. ➤ Confirm change to *Access authorisations* (3).

Use quick administration



The quick administration function can be used to implement frequently made changes in the access authorisations easily.

Prerequisites:

- Masterkey has been linked to the app.
 - [Chapter 7.2 "Register"](#) on page 79
- User is in the *Cylinder menu*.

Connect Masterkey to cylinder

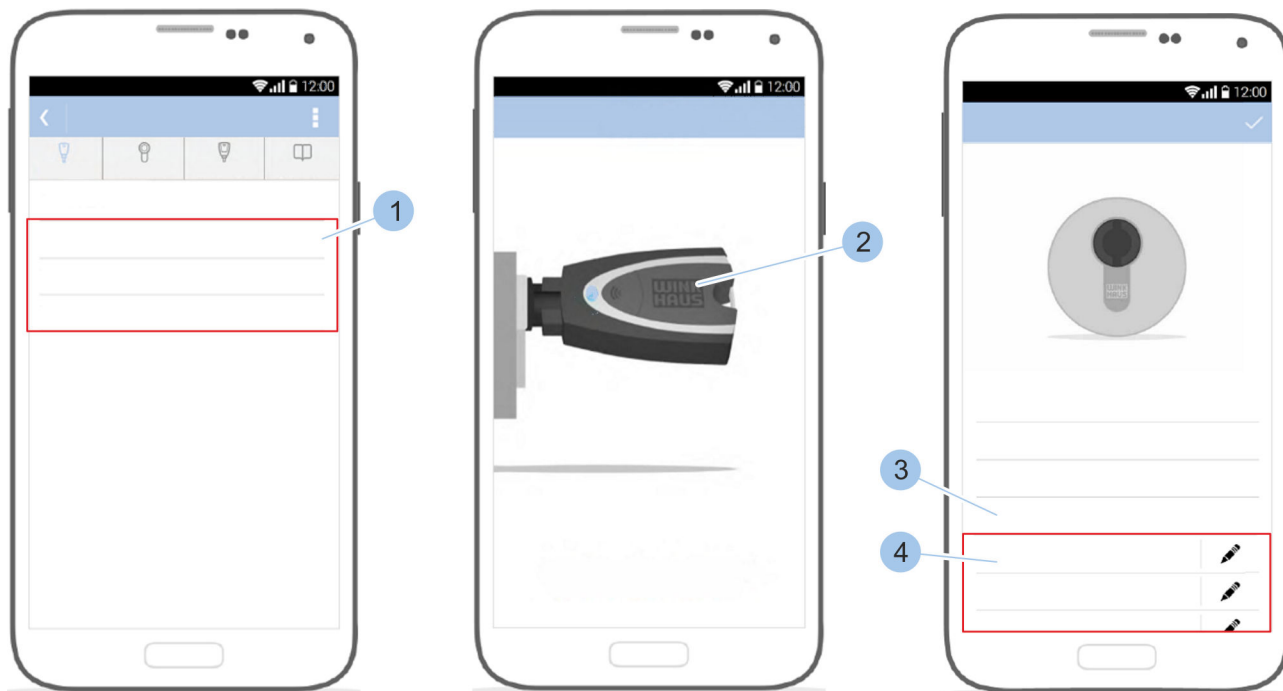


Fig. 72: Select cylinder

1. ➤ Select cylinder (1).
2. ➤ Insert Masterkey (2) in the cylinder.
 - ⇒ The Masterkey (2) is linked to the cylinder and the cylinder overview shown.
3. ➤ Touch the required key group (4) in *Access authorisations* (3).

Manage locking authorisations



Fig. 73: Use quick administration

4. ➤ Issue locking authorisations for the key (1).
5. ➤ Touch the *Time profiles* (2) menu.
6. ➤ Touch the *Options menu* (3).
 - ⇒ The *Quick administration* (4) opens.
7. ➤ To issue the key locking authorisations on all weekdays, touch *always* (5).
 - To withdraw the locking rights from the key on all weekdays, touch *not* (6).
 - To use the same time profile as Monday for every weekday, touch *Every day like Monday* (7).
 - To use the last time profile set with this smartphone, touch *Keep most recent* (8).

7.4.6 Delete cylinder

Prerequisites:

- Masterkey has been linked to the app.
 - ↪ *Chapter 7.2 "Register" on page 79*
- User is in the *Cylinder menu*.

Connect Masterkey to cylinder

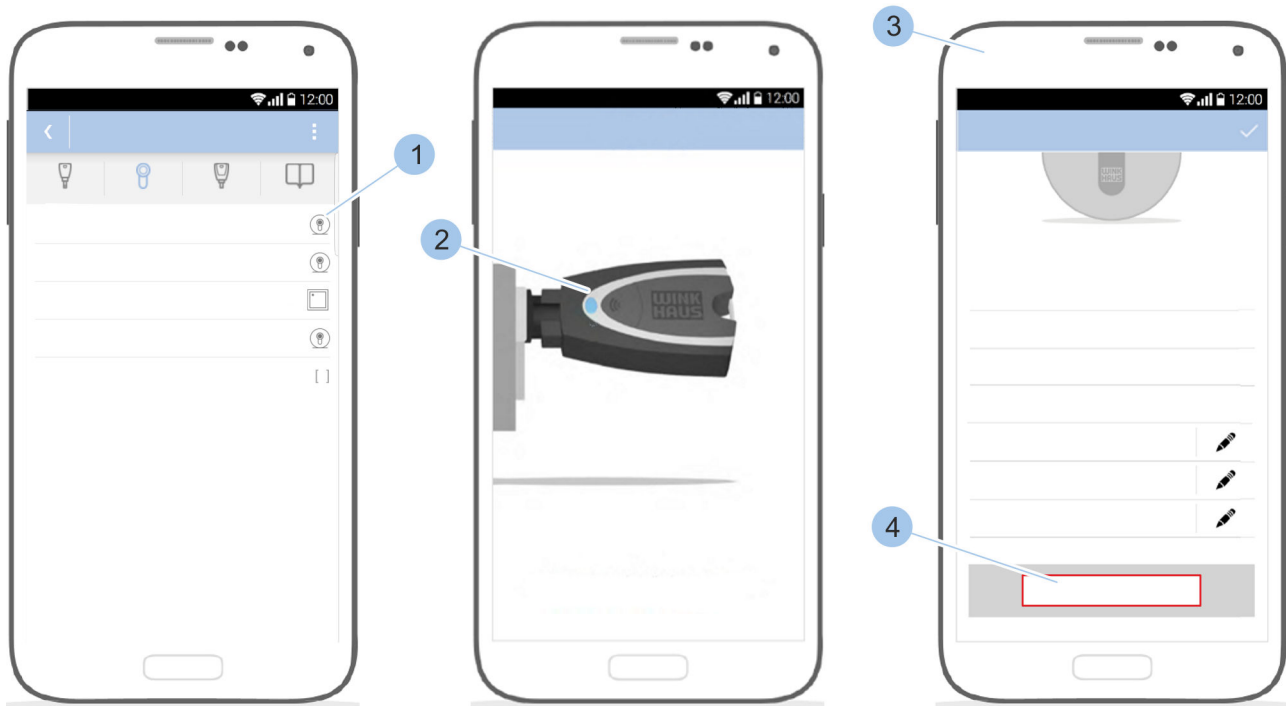


Fig. 74: Select cylinder

1. ➤ Select cylinder (1).
2. ➤ Insert Masterkey (2) in the cylinder.
 - ⇒ The cylinder details are displayed (3).
3. ➤ Scroll down in the cylinder details.
4. ➤ Touch *Delete* (4).

Delete cylinder

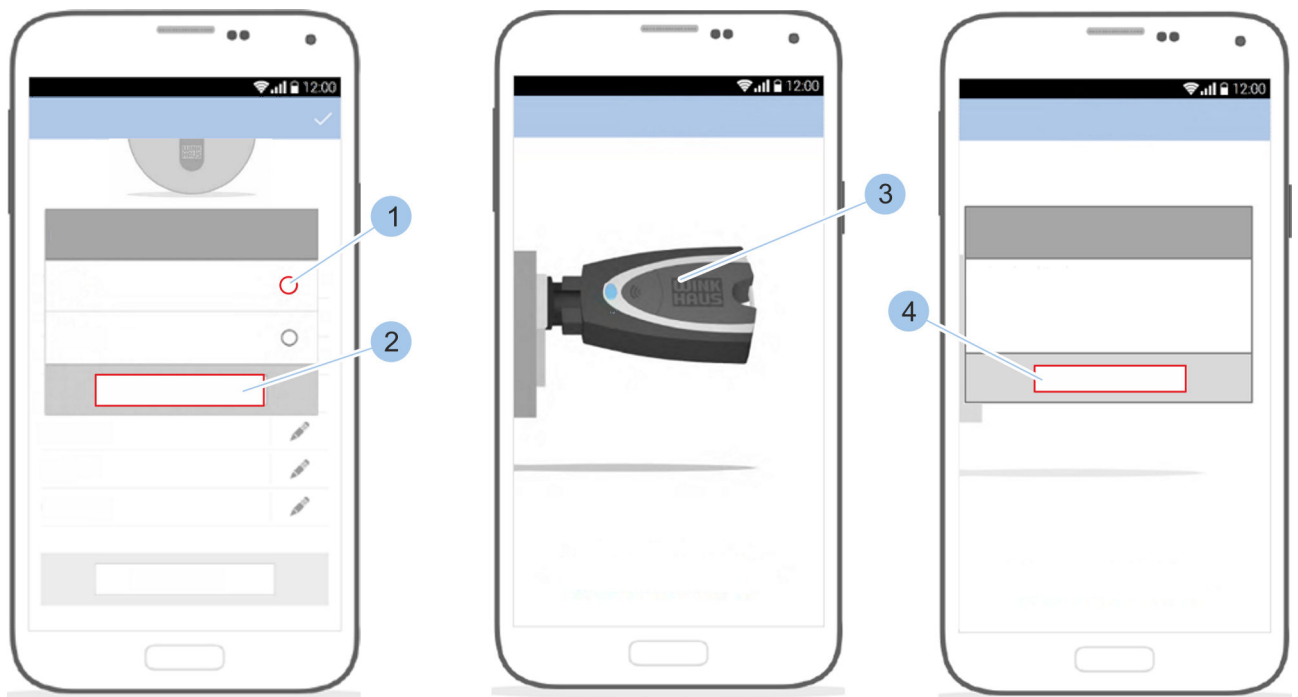


Fig. 75: Delete cylinder

5. ➤ Acknowledge prompt by pressing Yes (1) and Confirm (2).
6. ➤ Leave Masterkey (3) in the cylinder.
7. ➤ Press OK (4) to complete cylinder deletion.

Delete defective cylinder from the system



Defective cylinders must be deleted from the system. Cylinders with an electronic defect can be deleted without linking to the Masterkey.



If a functional cylinder is deleted without contact to the Masterkey, authorised keys can still lock on this cylinder.

7.5 Add and manage reader



To code the reader, the Masterkey must be held in the centre in front of the reader. For longer programming processes, particularly for carrying out any necessary software updates, the supplied programming adapter can be used.

🔗 “Function of the programming adapter” on page 28

7.5.1 Add reader to locking system

Precondition:

- Masterkey has been linked to the app.
🔗 7.2 “Register” on page 79

Link cylinder with Masterkey

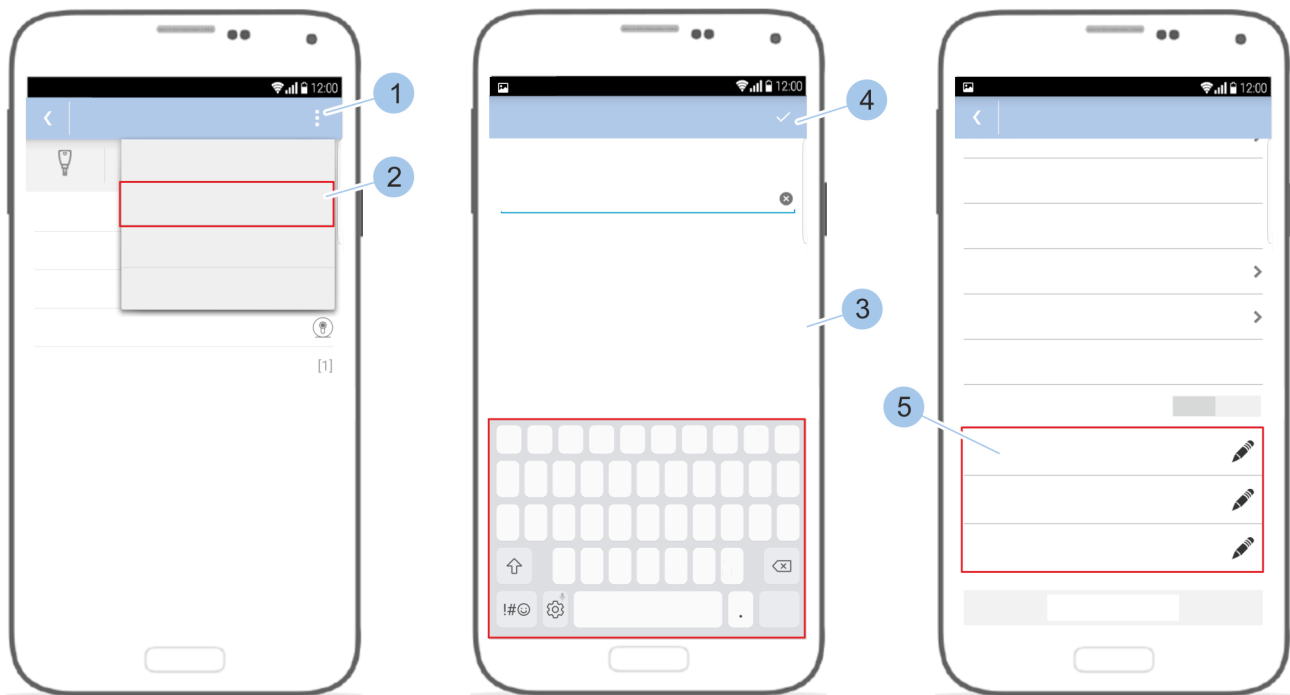


Fig. 76: Add reader to locking system

1. ➤ Call up the *Cylinder menu*.
2. ➤ In the *Cylinder menu*, touch the *Options menu* (1).
3. ➤ Bring Masterkey to the reader.

Enter reader specifications

4. ➤ Touch *Add reader* (2).
5. ➤ Name reader (3).
6. ➤ Confirm information (4).
7. ➤ Issue access authorisations (5).

7.5.2 Rename reader

Precondition:

- Masterkey has been linked to the app.
 🔗 7.2 "Register" on page 79

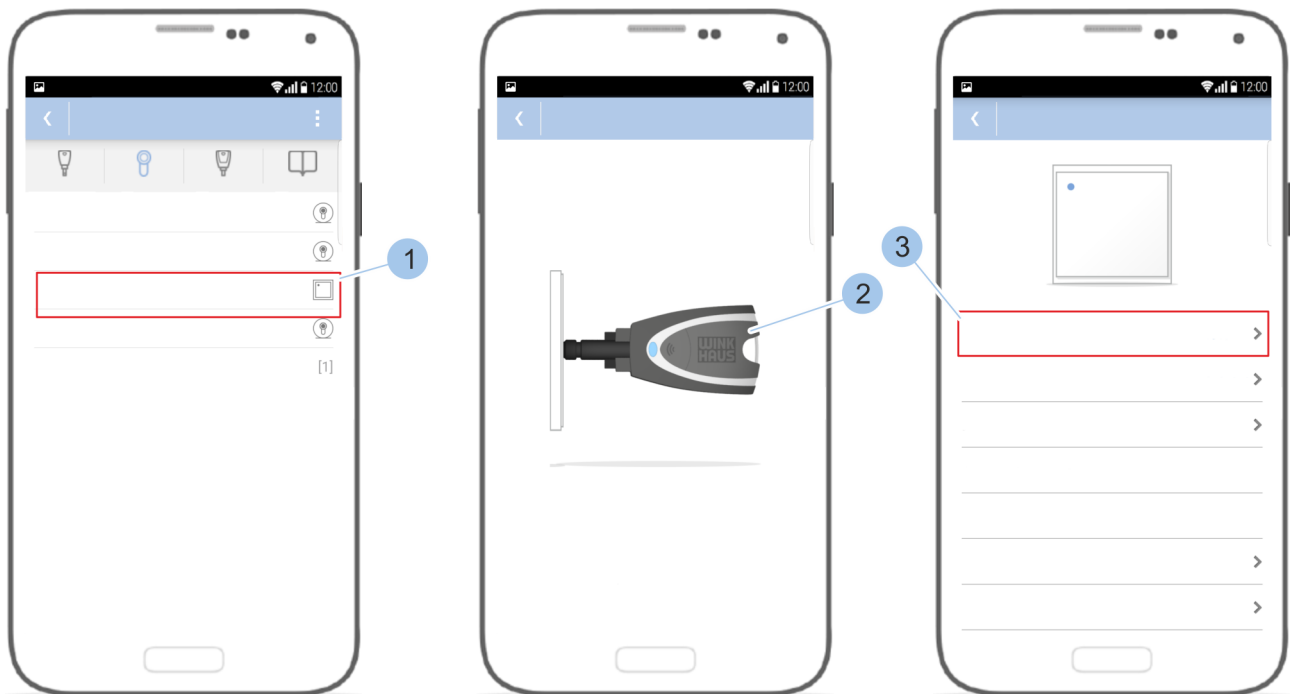


Fig. 77: Select reader

Link cylinder with Masterkey

1. ➤ Call up the *Cylinder menu*.
2. ➤ Select reader (1).
3. ➤ Bring Masterkey (2) to the reader.
 ⇨ The Masterkey (2) is linked to the reader.

Rename reader

4. ➤ Touch the reader (3) name.

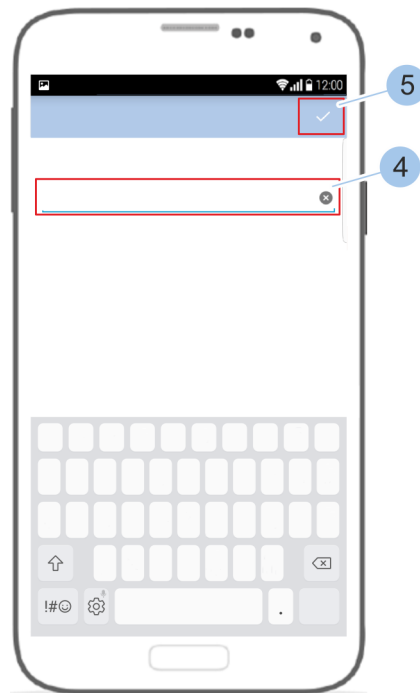


Fig. 78: Rename reader

- 5. ➤ Rename reader (4).
- 6. ➤ Confirm (5) input.

7.5.3 Identify reader

You can identify the cylinder if you do not know which reader it is. The information is shown after the reader has been identified.

Precondition:

- Masterkey has been linked to the app.
 ↳ 7.2 "Register" on page 79

Show cylinder

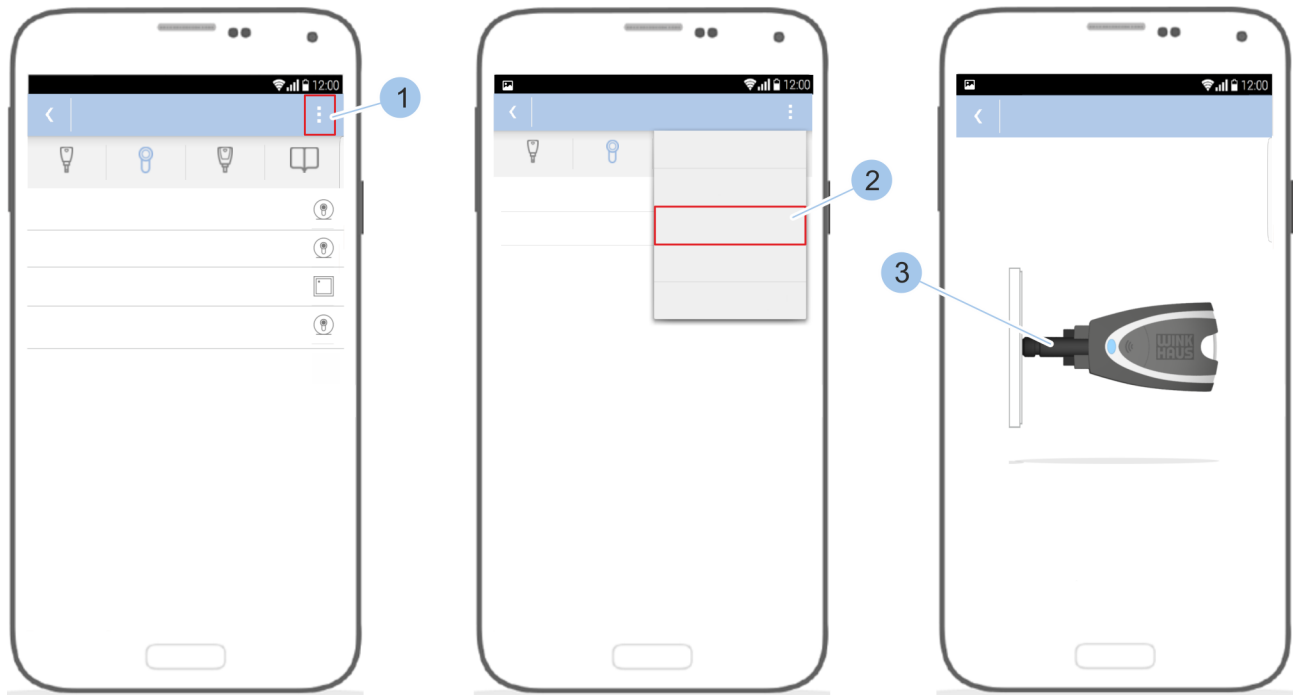


Fig. 79: Identify reader

1. ➤ Call up the *Cylinder menu*.
2. ➤ In the *Cylinder menu*, touch the *Options menu* (1).
3. ➤ Touch *Identify* (2).
4. ➤ Bring Masterkey (3) to the reader.
 ⇒ The information is shown after the reader has been identified.

7.5.4 Issue and withdraw locking authorisations on the reader

Manage locking authorisation

Prerequisites:

- Masterkey has been linked to the app.
↳ 7.2 “Register” on page 79
- User is in the *Cylinder menu*.

Connect Masterkey to the reader

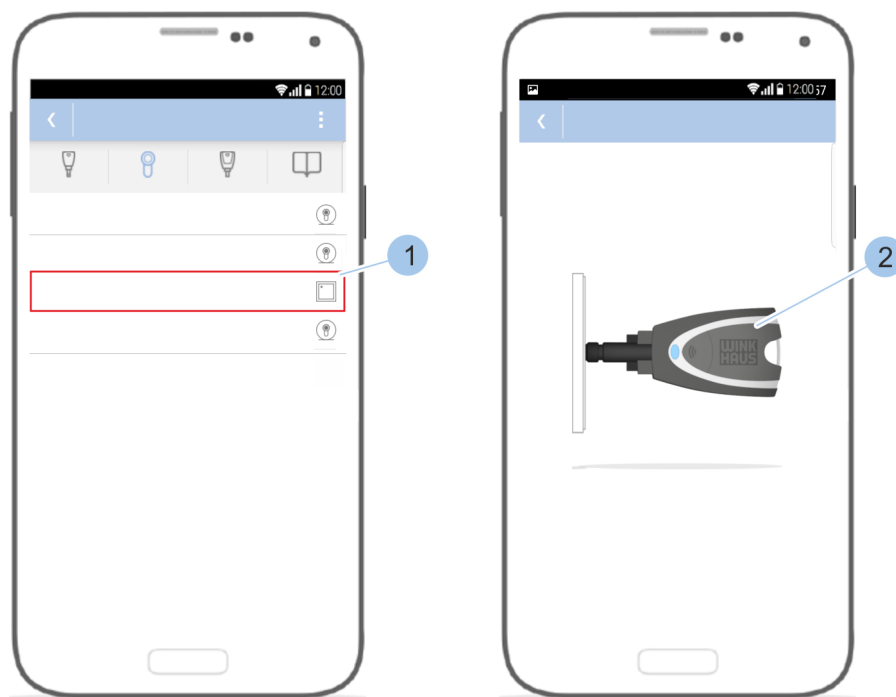


Fig. 80: Connect Masterkey to the reader

1. Select reader (1).
2. Bring Masterkey (2) to the reader.
 - ⇒ The Masterkey (2) is linked to the reader and the reader overview is shown.

Manage locking authorisations

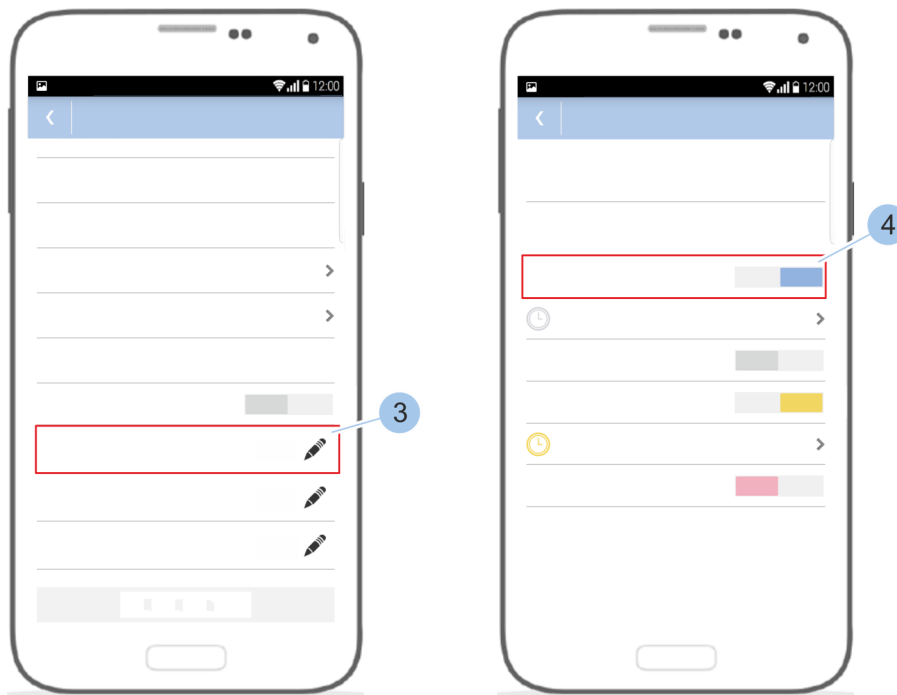


Fig. 81: Manage locking authorisations on the reader

- 3.** Touch the required key group (4) in *Access authorisations* (3).
- 4.** Assign or withdraw locking authorisations for the keys in the selected key group (4).

Issue locking authorisations with time restriction

Prerequisites:

- Masterkey has been linked to the app.
↳ 7.2 "Register" on page 79
- User is in the *Cylinder* menu.

Connect Masterkey to the reader

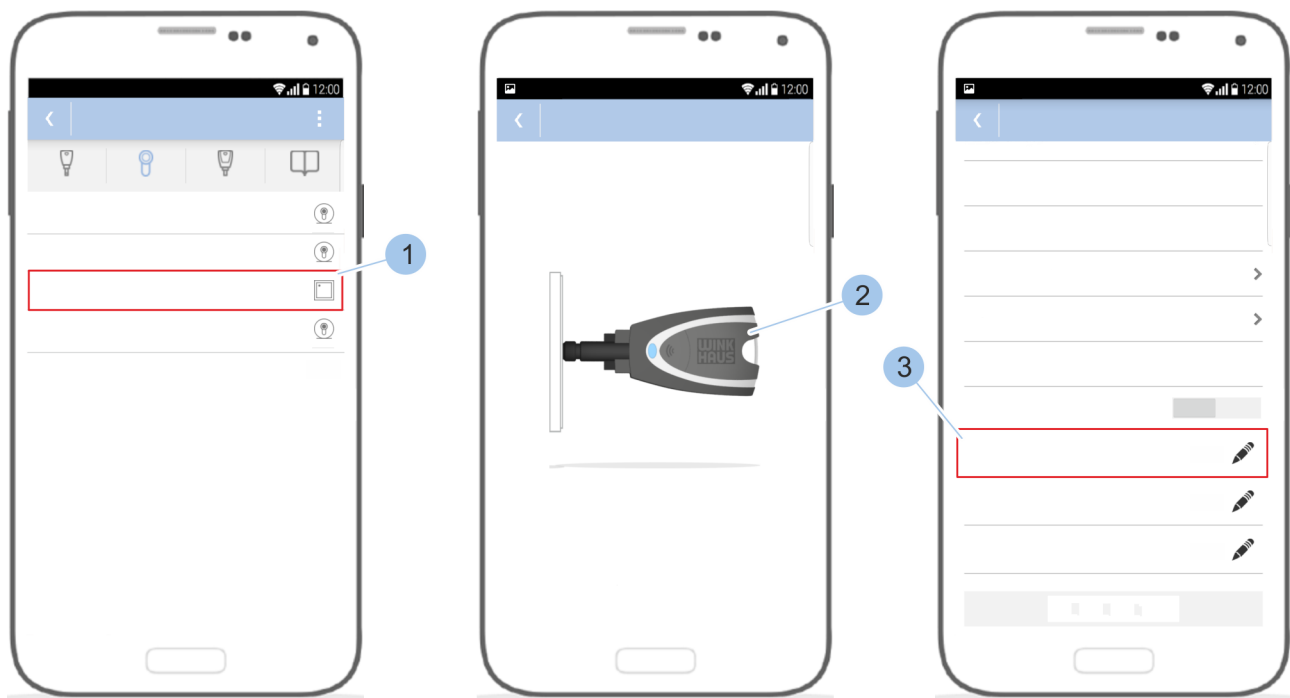


Fig. 82: Select key group

1. Select reader (1).
2. Bring Masterkey (2) to the reader.
⇒ The Masterkey (2) is linked to the reader and the reader overview is shown.
3. Touch the required key group in *Access authorisations* (3).

Issue locking authorisations

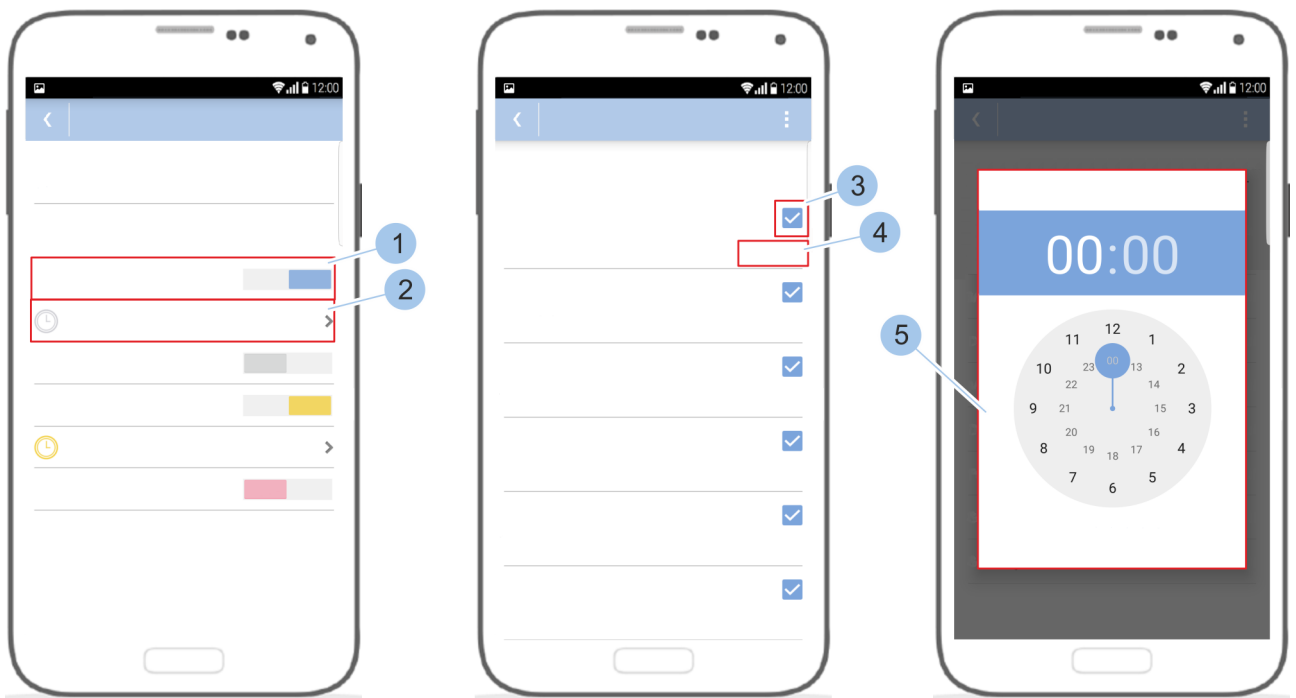


Fig. 83: Set time profiles

4. ➤ Issue locking authorisations (1) for the key.
5. ➤ Touch the *Time profiles* (2) menu.
 - ⇒ The weekdays are shown with the relevant authorisation symbol (3) and the authorisation status (4).
 - + *always*: The key is always authorised to lock on these days.
 - + *08:00 – 18:00 h*: The key is authorised to lock for a specific period of time on this day.
 - + *not*: The key is not authorised to lock on this day.
6. ➤ Touch the authorisation status (4).
7. ➤ Set the period for the locking authorisation (5).
8. ➤ Touch the authorisation symbol (3) to switch between *always* and *not*.
 - ⇒ The time profile is saved and active. The *Time profiles* (2) menu in the *Cylinder menu* is shown in the colour of the key.

Use quick administration



The quick administration function can be used to implement frequently made changes in the access authorisations easily.

Prerequisites:

- Masterkey has been linked to the app.
🔗 7.2 "Register" on page 79
- User is in the *Cylinder* menu.

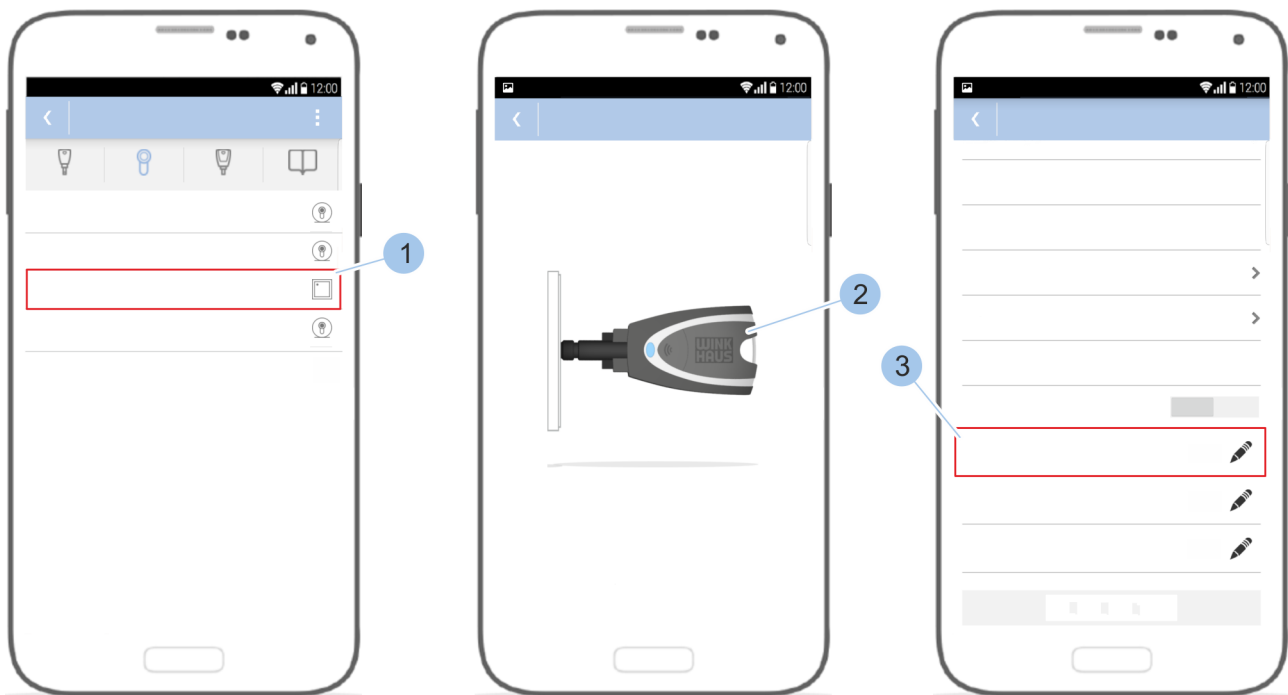


Fig. 84: Select reader

1. ➤ Select reader (1).
2. ➤ Bring Masterkey (2) to the reader.
⇒ The Masterkey (2) is linked to the reader and the reader overview is shown.
3. ➤ Touch the required key group in *Access authorisations* (3).

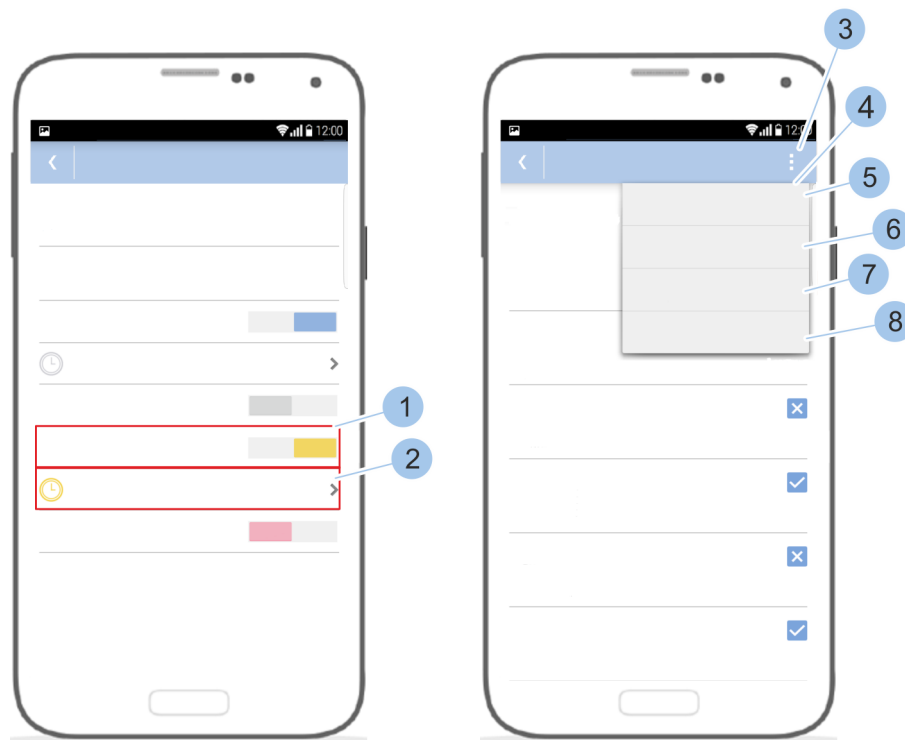


Fig. 85: Use quick administration

4. ➤ Issue locking authorisation (1) for the keys in the selected key group.
5. ➤ Touch the *Time profiles* (2) menu.
6. ➤ Touch the options menu (3).
 - ⇒ The Quick administration (4) opens.
 - To issue the key locking authorisations on all weekdays, touch *Every day: always* (5).
 - To withdraw the locking rights from the key on all weekdays, touch *Every day: not* (6).
 - To adopt the time restriction that was set for Monday for every weekday, touch *Every day like Monday* (7).
 - To use the last time profile set with this smartphone, touch *Use last* (8).

Issue and withdraw permanent release authorisation



A key with permanent release authorisation can be used to activate or deactivate the permanent release on the reader by presenting the key for an extended period of time. If the permanent release is activated on the reader, the switching mechanism is permanently switched.

Prerequisites:

- Masterkey has been linked to the app.
↳ 7.2 "Register" on page 79
- User is in the *Cylinder* menu.

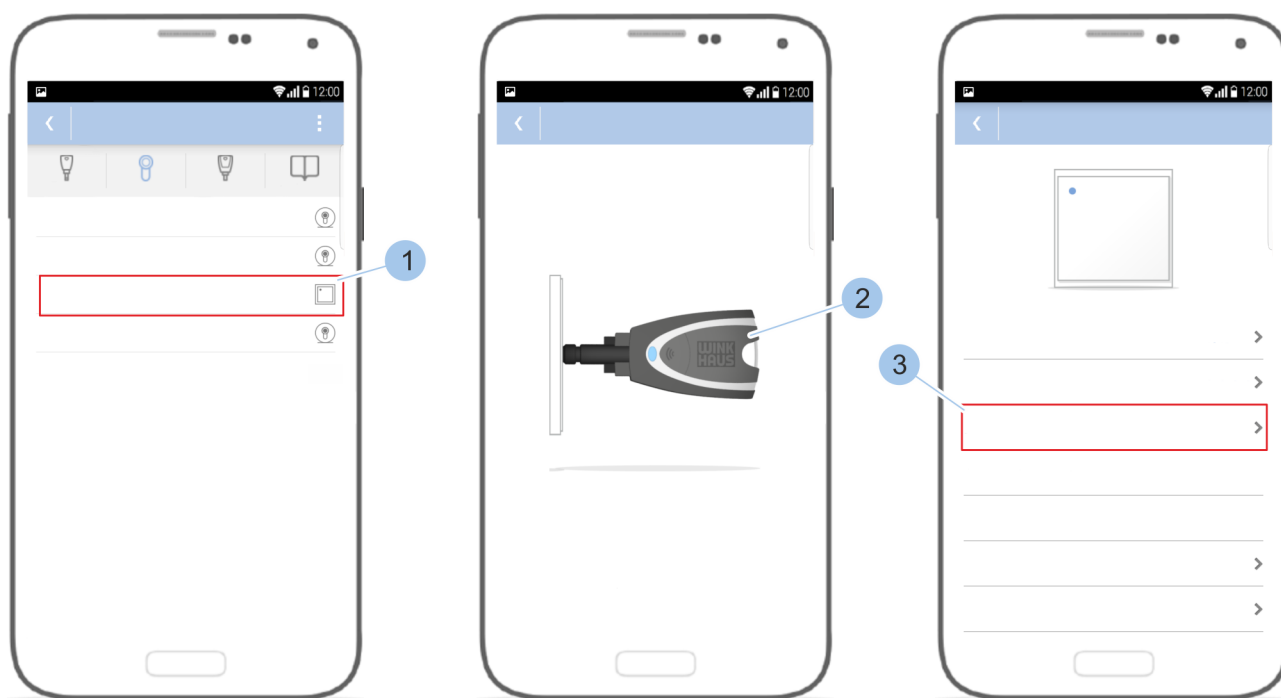


Fig. 86: Select reader

1. Select reader (1).
2. Bring Masterkey (2) to the reader.
⇒ The Masterkey (2) is linked to the reader. The reader overview is shown.
3. Select *Settings* (3).

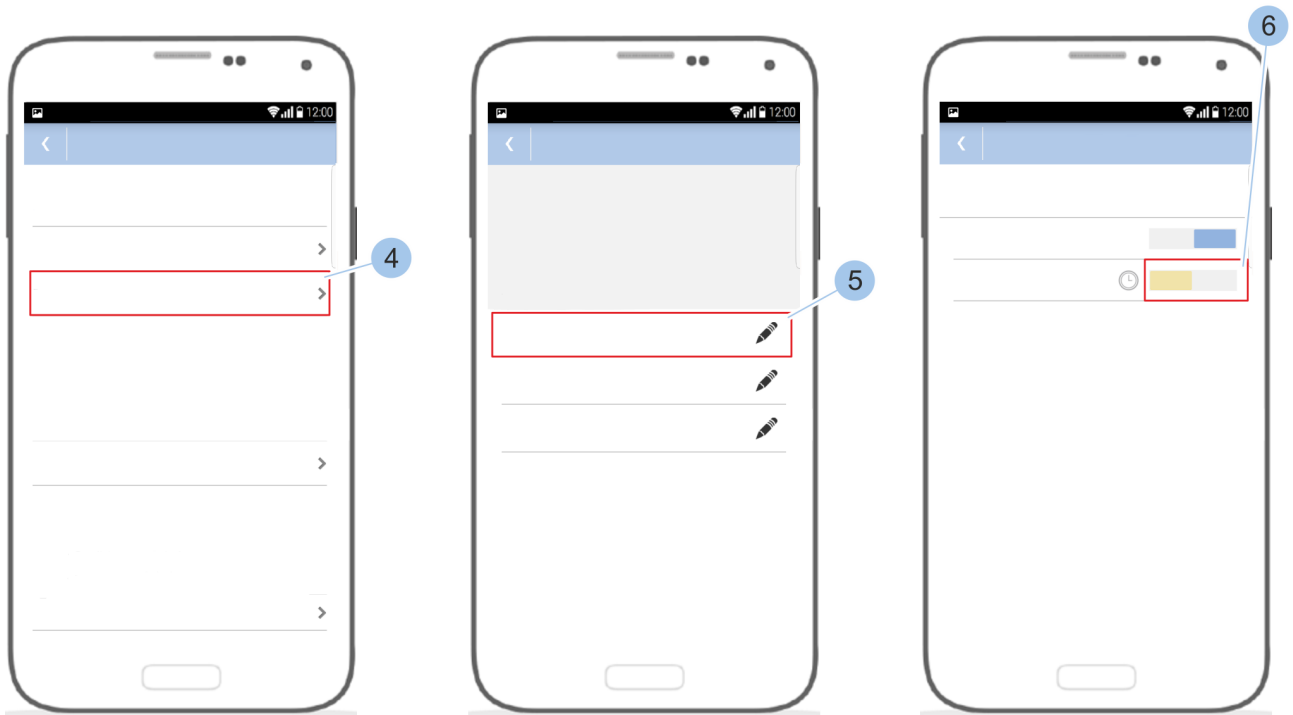


Fig. 87: Issue and withdraw permanent release authorisation

4. ➔



Only keys that are authorised on this reader are shown.

Touch *Authorised keys* (4).

5. ➔

Touch the required key group (5).

6. ➔

Issue authorisation for the key (6).

7.5.5 Manage reader settings

Manage automatic deactivation of the permanent release



A weekday-specific time can be defined for each reader, at which the permanent release is deactivated automatically.

Prerequisites:

- Masterkey has been linked to the app.
↳ 7.2 “Register” on page 79
- User is in the *Cylinder* menu.

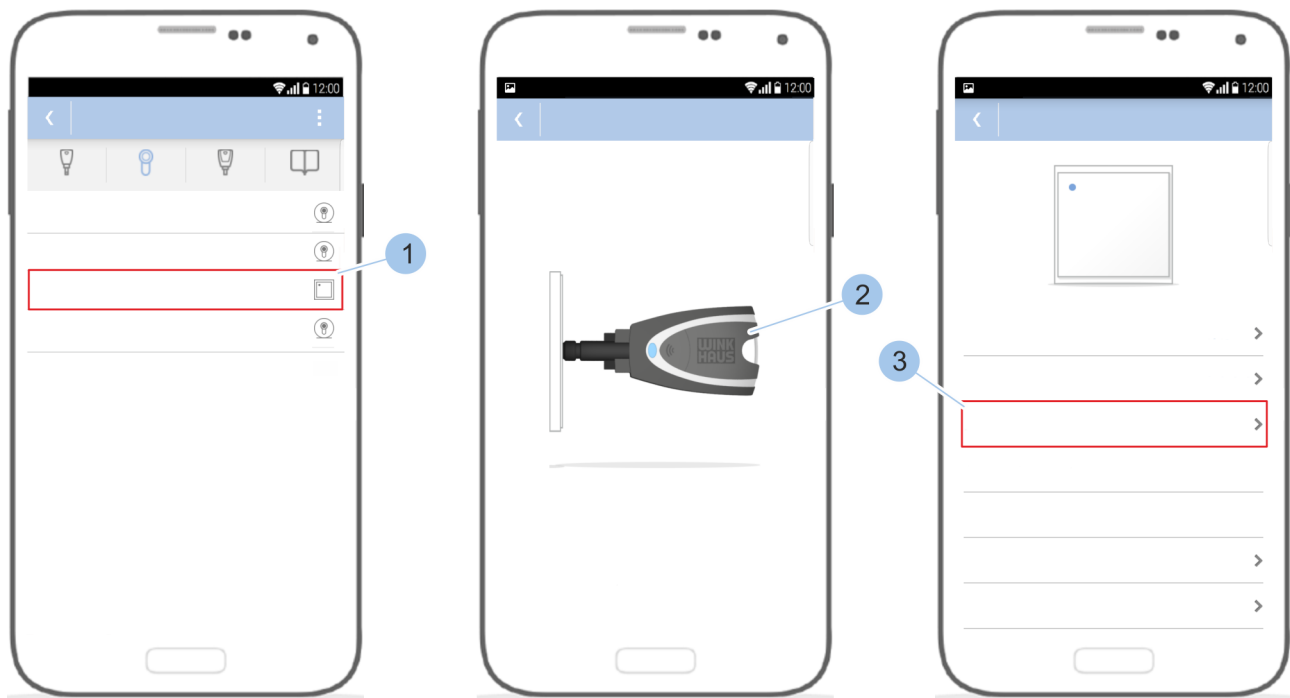


Fig. 88: Select reader

1. ➤ Select reader (1).
2. ➤ Bring Masterkey (2) to the reader.
⇒ The Masterkey (2) is linked to the reader. The reader overview is shown.
3. ➤ Select *Settings* (3).

Manage permanent release

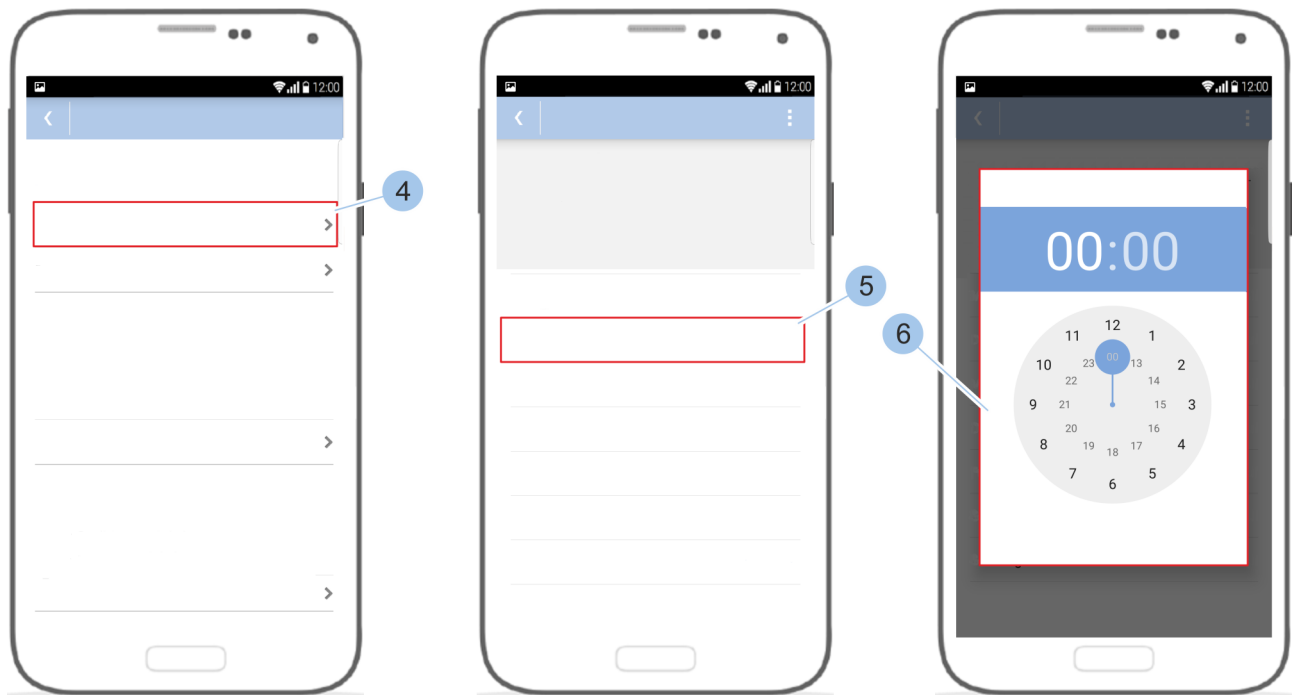


Fig. 89: Manage automatic deactivation of the permanent release

4. ➤ Touch *Automatic deactivation* (4).
 ⇒ The weekdays with the relevant deactivation times (5) are shown.
5. ➤ Select day of the week (5).
6. ➤ Set the time for automatic deactivation (6).

Use quick administration



The quick administration function can be used to implement frequently made changes in the access authorisations easily.

Prerequisites:

- Masterkey has been linked to the app.
 ↳ 7.2 “Register” on page 79
- User is in the *Cylinder* menu.

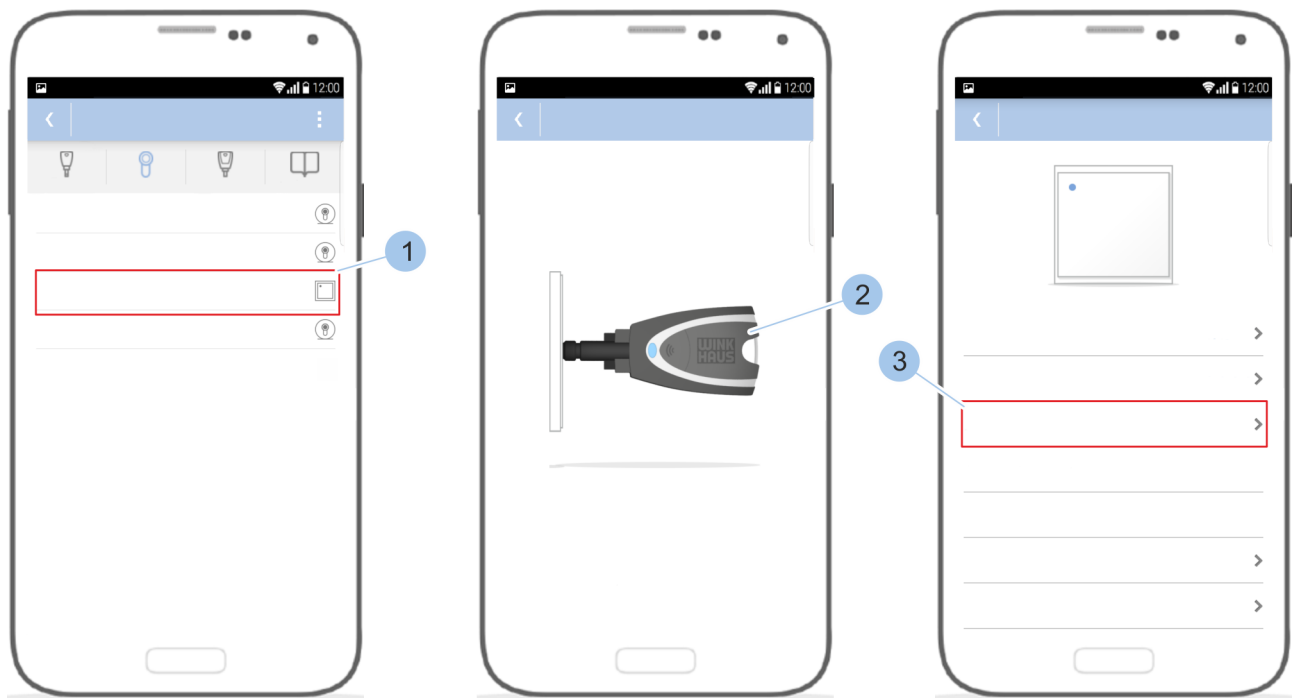


Fig. 90: Select reader

1. ➤ Select reader (1).
2. ➤ Bring Masterkey (2) to the reader.
⇒ The Masterkey (2) is linked to the reader and the reader overview is shown.
3. ➤ Select *Settings* (3).

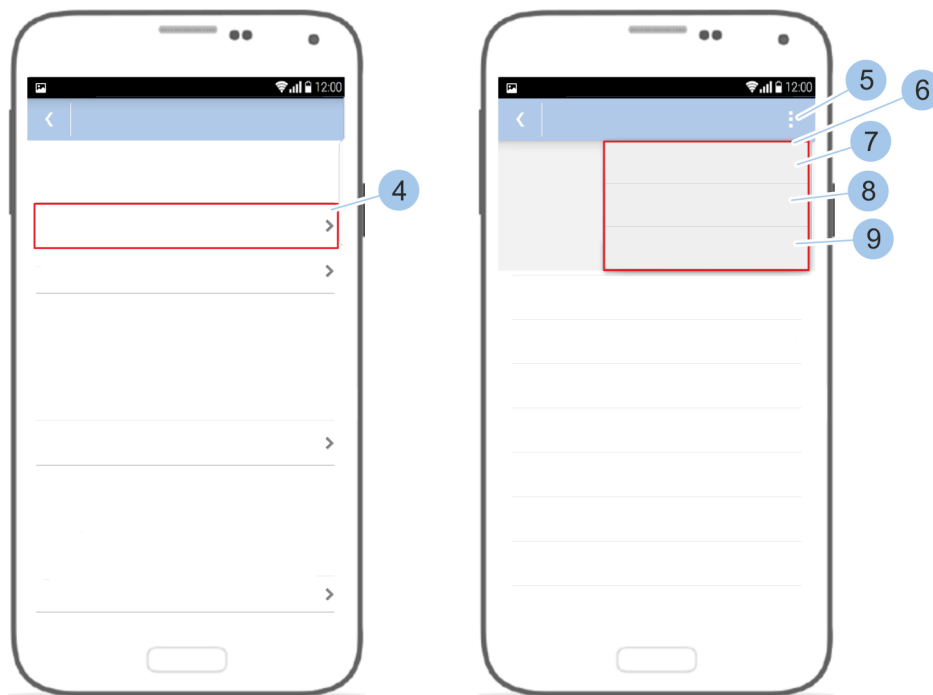


Fig. 91: Use quick administration

4. ➤ Touch *Automatic deactivation* (4).
 - ⇒ The weekdays with the relevant deactivation times are shown.
5. ➤ Touch the options menu (5).
 - ⇒ The Quick administration (6) opens.
 - To deactivate the automatic deactivation on all days of the week, touch *Every day: manual only* (7).
 - To adopt the time set for Monday for all days of the week, touch *Every day like Monday* (8).
 - To use the last deactivation times set with this smartphone, touch *Use last* (9).

Query or change permanent release

Prerequisites:

- Masterkey has been linked to the app.
 🔗 7.2 “Register” on page 79
- User is in the *Cylinder menu*.

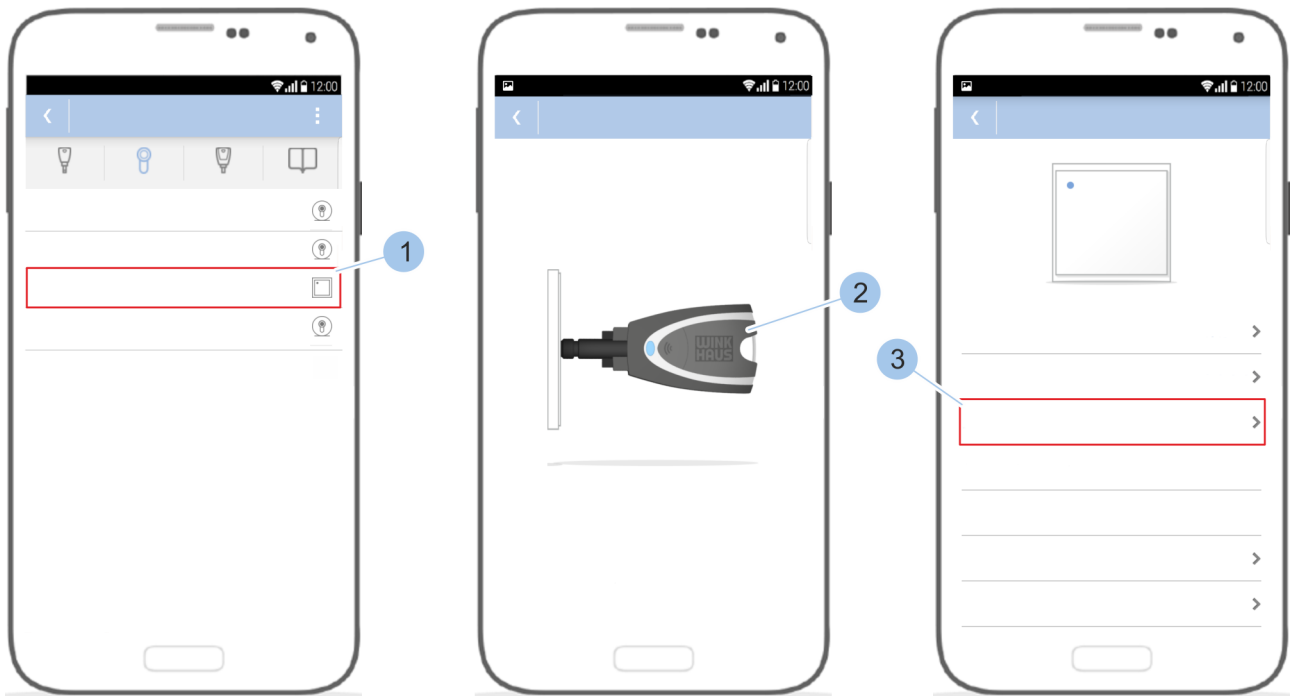


Fig. 92: Select reader

1. ➤ Select reader (1).
2. ➤ Bring Masterkey (2) to the reader.
⇒ The Masterkey (2) is linked to the reader and the reader overview is shown.
3. ➤ Select *Settings* (3).



Fig. 93: Change status of permanent release

4. ➤ Touch Query current status (4).
⇒ The current status of the permanent release (5) is shown.
5. ➤ Change status of the permanent release (6).

Set the release time for the reader



The release time is the time for which the switching mechanism of the reader is activated after an authorised key has been presented. This time can be set between 3 and 63 seconds. The standard time is 5 seconds.

Prerequisites:

- Masterkey has been linked to the app.
 ↳ 7.2 "Register" on page 79
- User is in the Cylinder menu.

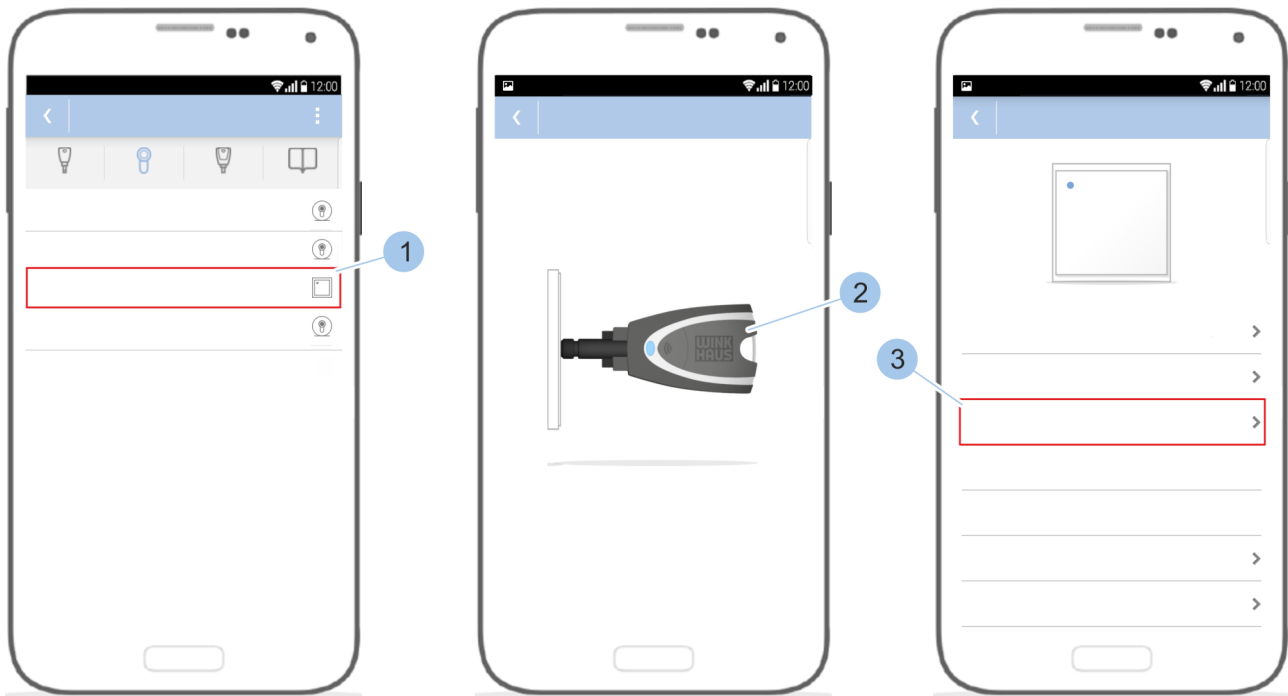


Fig. 94: Select reader

1. ➤ Select reader (1).
2. ➤ Bring Masterkey (2) to the reader.
⇒ The Masterkey (2) is linked to the reader and the reader overview is shown.
3. ➤ Select *Settings* (3).

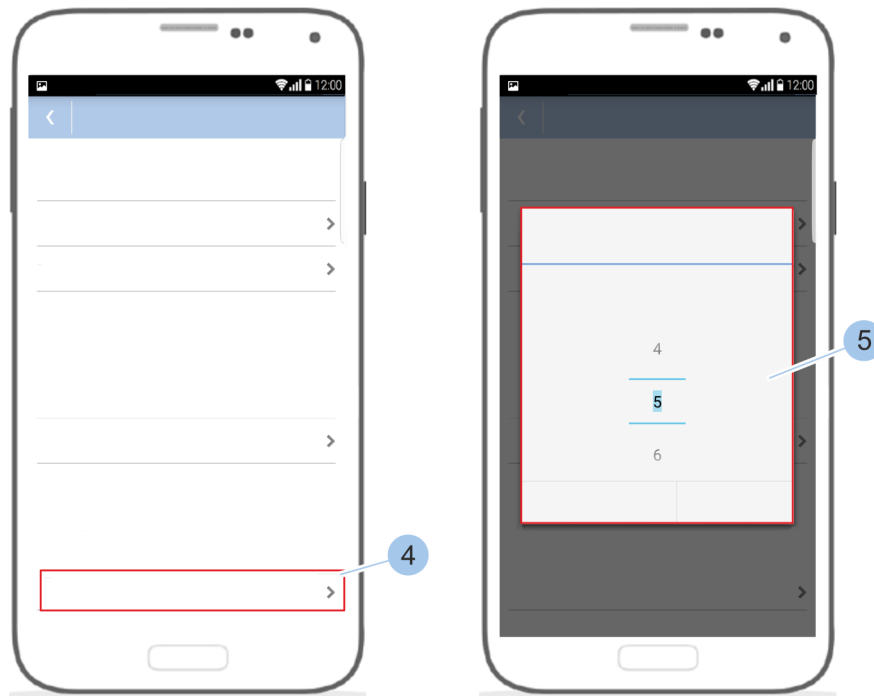


Fig. 95: Set the release time for the reader

4. ➤ Touch *Release time in seconds* (4).
5. ➤ Set and save the release time (5).

7.5.6 Delete reader

Prerequisites:

- The Masterkey is connected to the app.
 ↳ 7.2 "Register" on page 79
- User is in the *Cylinder menu*.

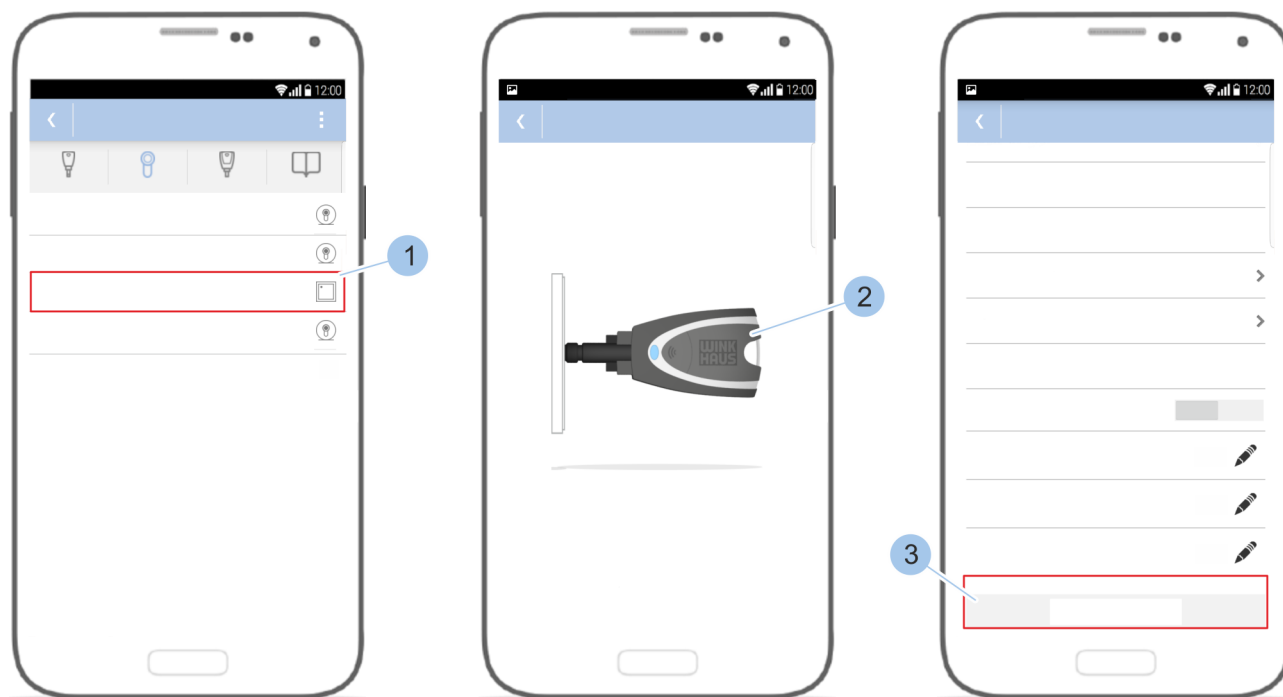


Fig. 96: Select reader

1. ➤ Select the reader (1) in the cylinder menu.
2. ➤ Bring Masterkey (2) to the reader.
 - ⇒ The Masterkey is linked to the reader. The reader overview is shown.
3. ➤ Scroll to the bottom in the reader details.
4. ➤ Touch *delete* (3).

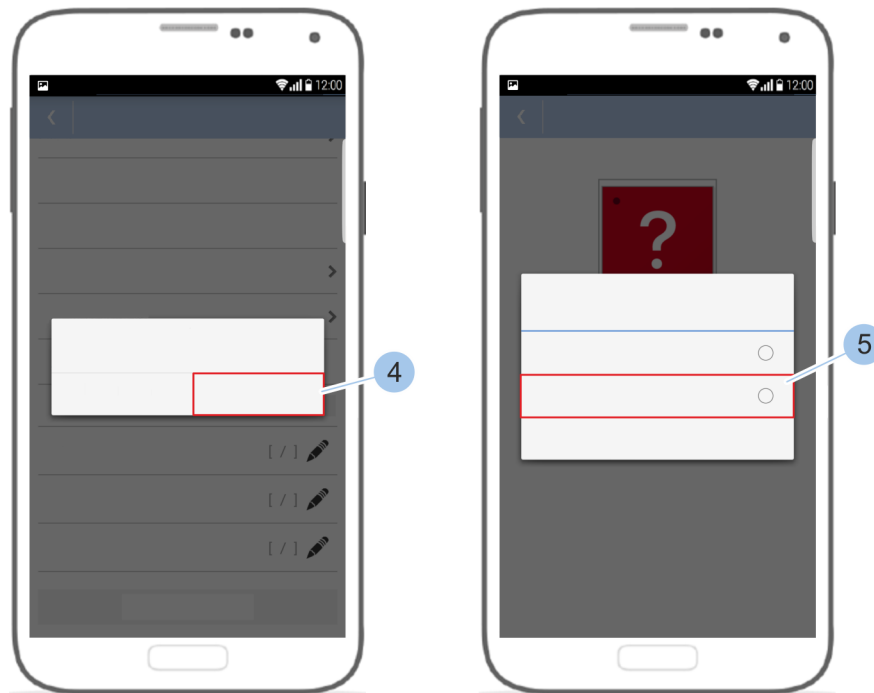


Fig. 97: Delete reader

5. ▶ Leave the Masterkey (4) in front of the reader.
6. ▶ Confirm message by pressing *Delete* (5).
 - ⇒ The reader is deleted.

Defective readers must be deleted from the system.
Readers with an electronic defect can be deleted without linking to the Masterkey.

If a reader with external control unit is deleted, the control unit must be connected with the reader.

If a functional reader is deleted without contact to the Masterkey, authorised keys can still use this reader.

7.6 Show and send locking events



The last 2,000 events are saved onto a ring buffer. This means that the latest locking events are written over the oldest ones when the number of events surpasses 2,000.

Prerequisites:

- Masterkey has been linked to the app.
 - Chapter 7.2 "Register" on page 79
- User is in the Cylinder menu.

Connect Masterkey to cylinder

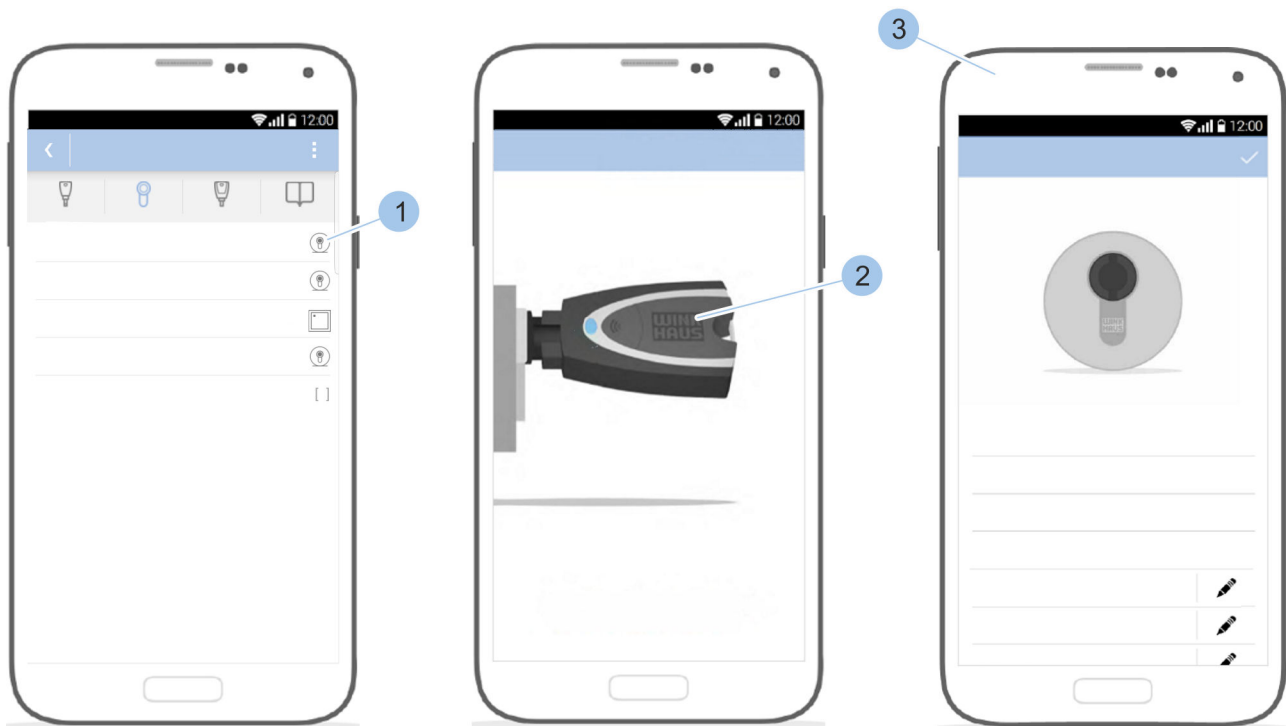


Fig. 98: Display locking events

1. Select cylinder (1).
2. Insert Masterkey (2) in the cylinder.
 - ⇒ The Masterkey (2) is linked to the cylinder and the cylinder overview (3) is shown.

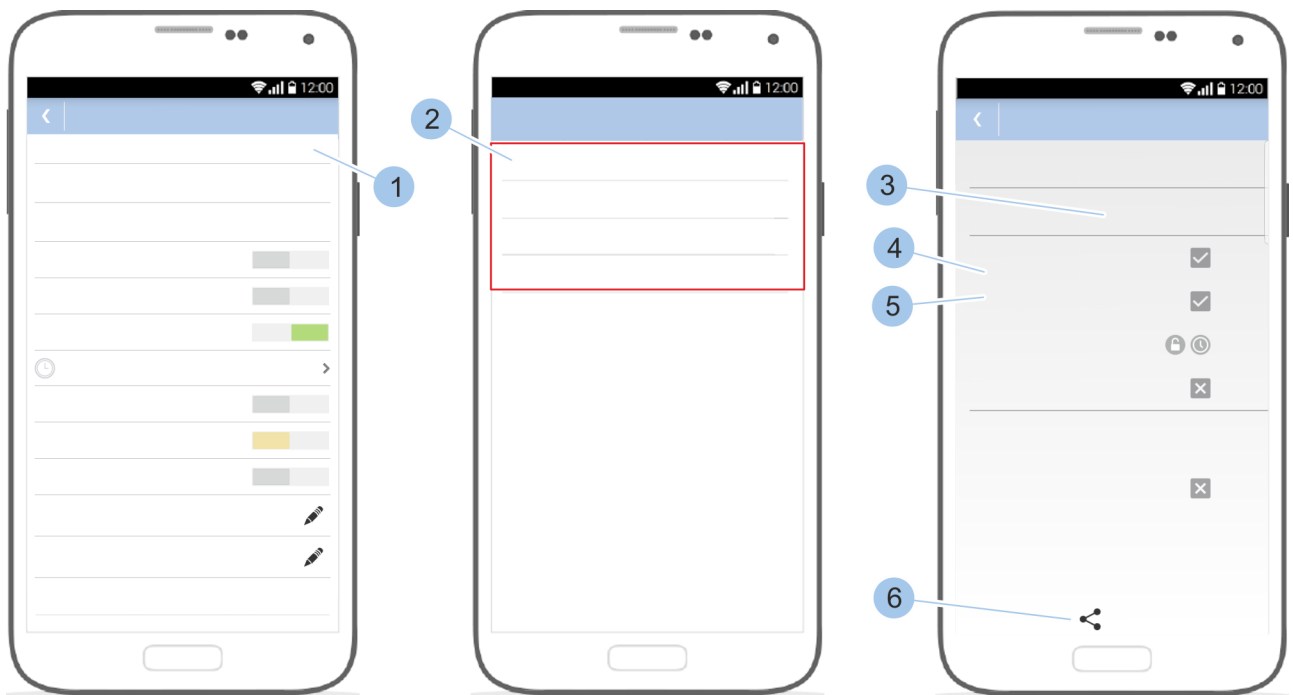


Fig. 99: Open locking events

3. ➤ Touch the *Share* (1) symbol.
⇒ The selection of intervals (2) for locking events will appear.
4. ➤ Select required interval (2).
5. ➤ The locking events are displayed with their respective key (3), date (4) and time (5).

The type of locking authorisation is still shown:

- ✓ The key was authorised to lock.
- ✗ The key was not authorised to lock.
- ⊗ The key was generally authorised to lock via a time profile, but not at this time.
- 🔒 The permanent release has been activated on the reader.
- 🔓 The permanent release has been deactivated on the reader.
- 🔓 The permanent release has been deactivated automatically on the reader.

Send locking events

6. ➤ Touch the *Parts button* (6).
⇒ The locking events can be forwarded in the same way as the locking plan.

🔗 *Chapter 7.8.1 "Forward locking plan manually" on page 126* - 🔗 *Chapter 7.8.2 "Create a locking plan change reminder" on page 129*

7.7 Open system information



The following information can be found in the system information:

- The Masterkey battery charge status
- The Masterkey software version
- Number of cylinders
- Number of keys

Precondition:

- Masterkey has been linked to the app.
 - [Chapter 7.2 "Register" on page 79](#)

View system information

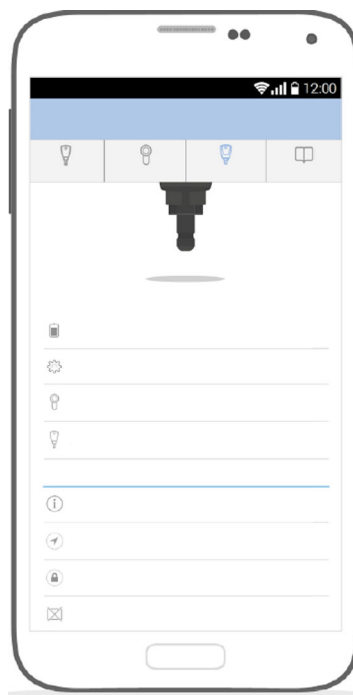


Fig. 100: System information

➔ Open Master key menu.

- ⇒ In the Master key menu, information is shown on the system and on the Masterkey, such as the battery charge status.

7.8 Open and forward locking plan

The locking plan shows the overview of the locking authorisations, including key group, the key, the cylinder group and the cylinder.

Prerequisites:

- Masterkey has been linked to the app.
 - Chapter 7.2 "Register" on page 79
- User is in the *Master key menu*.

Open system overview



Fig. 101: Locking plan

1. Touch *Locking plan* (1).

2. Touch *View locking plan* (2).

⇒ The overview of the locking authorisations is shown with the key group (3), the key (4), the cylinder group (5) and the cylinder (6).

The relevant authorisation symbols are still shown:

- ✓ The key is authorised to lock.
- ✗ The key is not authorised to lock.
- 🕒 The key is authorised to lock via a time profile.
- 🔒 The key is authorised to activate and deactivate the permanent release on the reader.

3. The following information is also shown:

- Touching an authorisation symbol (7) shows detailed information on this authorisation.
- Touching a key (8) shows the key name and number.
- Touching a cylinder or reader (9) shows detailed information on the cylinder or reader.

7.8.1 Forward locking plan manually

Forward and secure data



In addition to passing on information on changed locking authorisations, forwarding the locking plan also serves as a precautionary measure for loss of the Masterkey.

When cylinders are read after the Masterkey is lost, the keys are listed without names and only the Winkhaus UID is displayed. The Winkhaus UID is the specific identification for components provided by Aug. Winkhaus GmbH & Co. KG which allows precise identification. The key names can be found in the forwarded locking plan. The locking plan should be forwarded on a weekly basis.

Prerequisites:

- Masterkey has been linked to the app.
 - Chapter 7.2 "Register" on page 79
- User is in the *Master key* menu.

Open locking plan

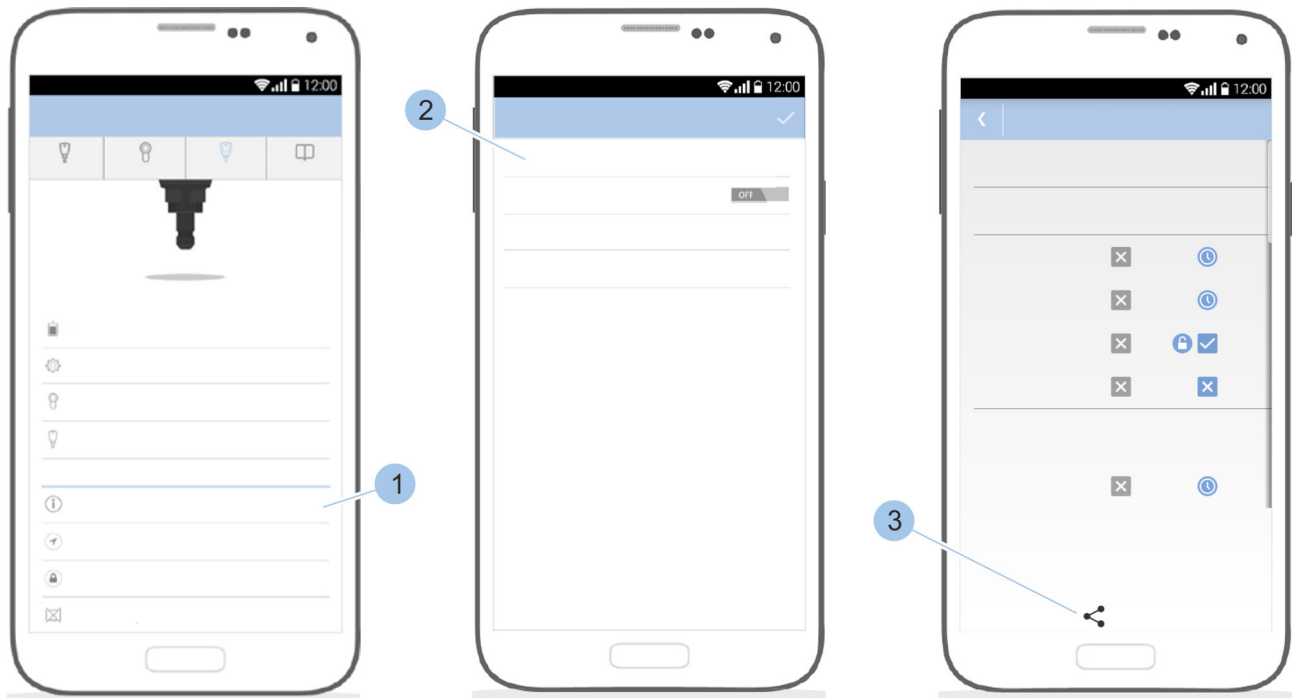


Fig. 102: Forward locking plan manually

1. Touch *Locking plan* (1).
2. Touch *View locking plan* (2).
 - ⇒ The overview of the locking authorisations is shown.
3. Touch the *Share* (3) symbol.

Forward locking plan

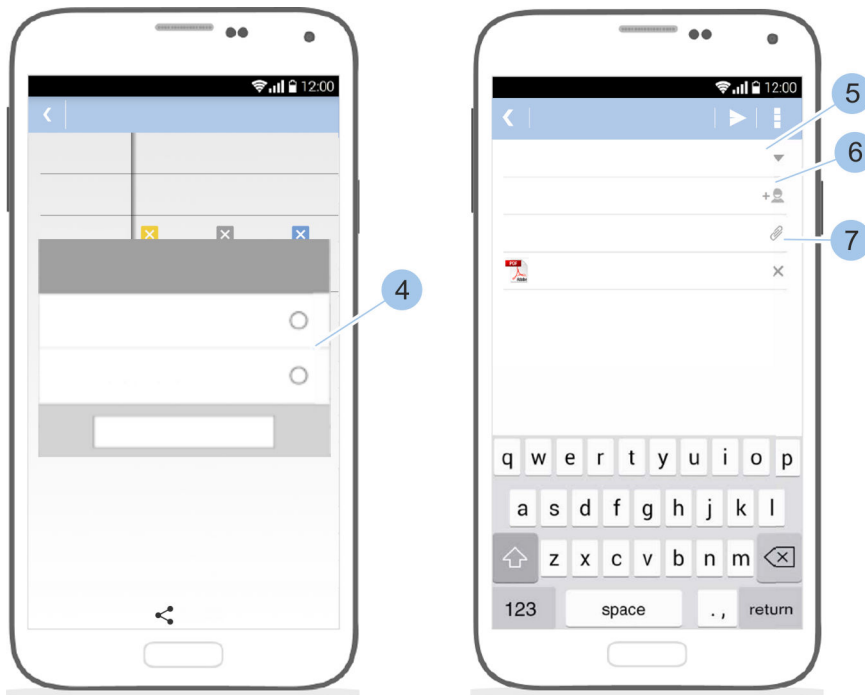


Fig. 103: Select and forward format

4. ▶ Select format (4).
5. ▶ Enter email address (5), CC email address(es) (6) and subject (7).
6. ▶ Send email.

7.8.2 Create a locking plan change reminder



If this setting is enabled, the user is reminded of the change to the locking plan, so that they export the change manually.

Prerequisites:

- Masterkey has been linked to the app.
 - Chapter 7.2 "Register" on page 79
- User is in the *Master key* menu.

Activate locking plan change reminder

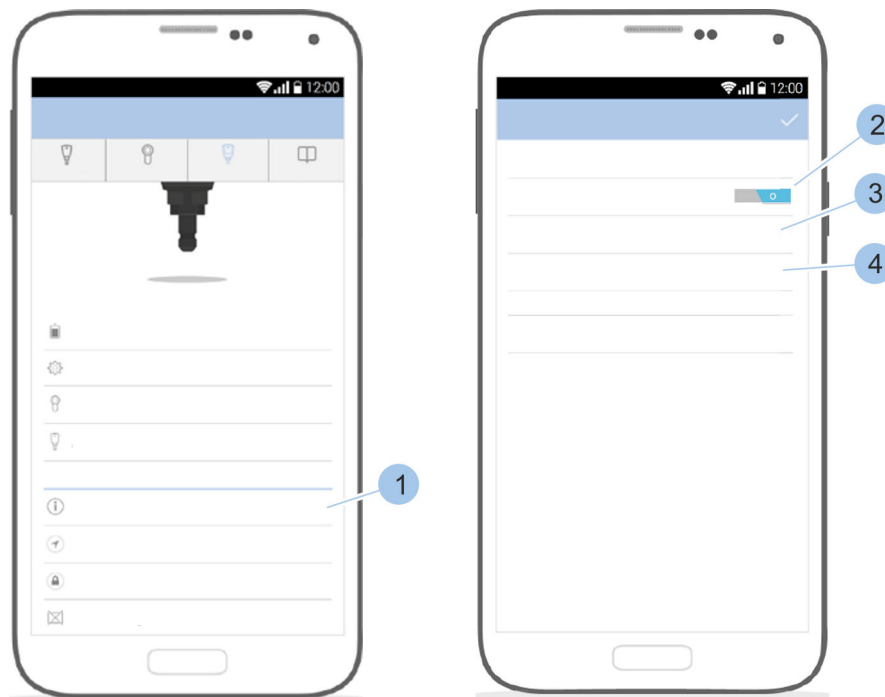


Fig. 104: Locking plan change reminder

1. Touch *Locking plan* (1).
 2. Activate reminder (2).
 3. Save or change email address(es) (3).
 4. Determine file format (4).
- ⇒ The user is advised of the locking plan change within the app in the event of changes to locking authorisations. The Masterkey symbol is given a red mark and a red line of text appears.

7.9 Issue remote authorisation

Remote authorisation enables the owner to issue locking authorisations to a deposited key in the event of need. The locking rights expire once the established validity period comes to an end.

Application example

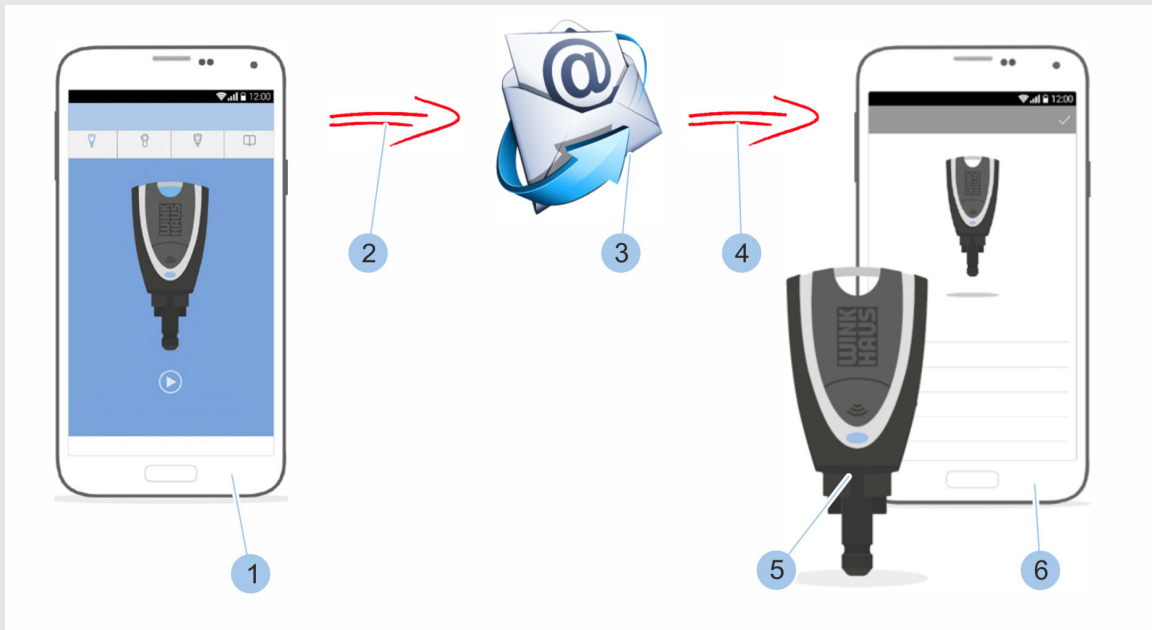


Fig. 105: Send remote authorisation

- | | |
|---|--------------------------------------|
| 1 Homeowner's smartphone | 4 Locking authorisations received |
| 2 Forward locking authorisations | 5 Neighbour has active deposited key |
| 3 Email with locking authorisation (highly encrypted dataset) | 6 The neighbour's smartphone |

A homeowner is on holiday with their family. They have left an active key in deposit with their neighbour (5), but the key does not have a locking authorisation for the house. While on holiday, the owner is contacted by the neighbour, who reports that the light is on in several rooms.

The homeowner can now send a time-limited locking authorisation (maximum validity 31 days) for the active key using the app on their smartphone (1). The neighbour receives the locking authorisation (3) via the app and can then turn off the light in the rooms concerned.

The following prerequisites must be met, so that the neighbour can access the remote authorisation:

- The locking system administrator has the Masterkey and their smartphone ready to hand.
- Deposited key is an active key and belongs to the system.

- Administrator and recipient both have installed the Winkhaus blueCompact App and have access to the Internet on their smartphones.
- The administrator and recipient have an email account.

Additional requirement:

- User is in the *Master key menu*.

Send remote authorisation

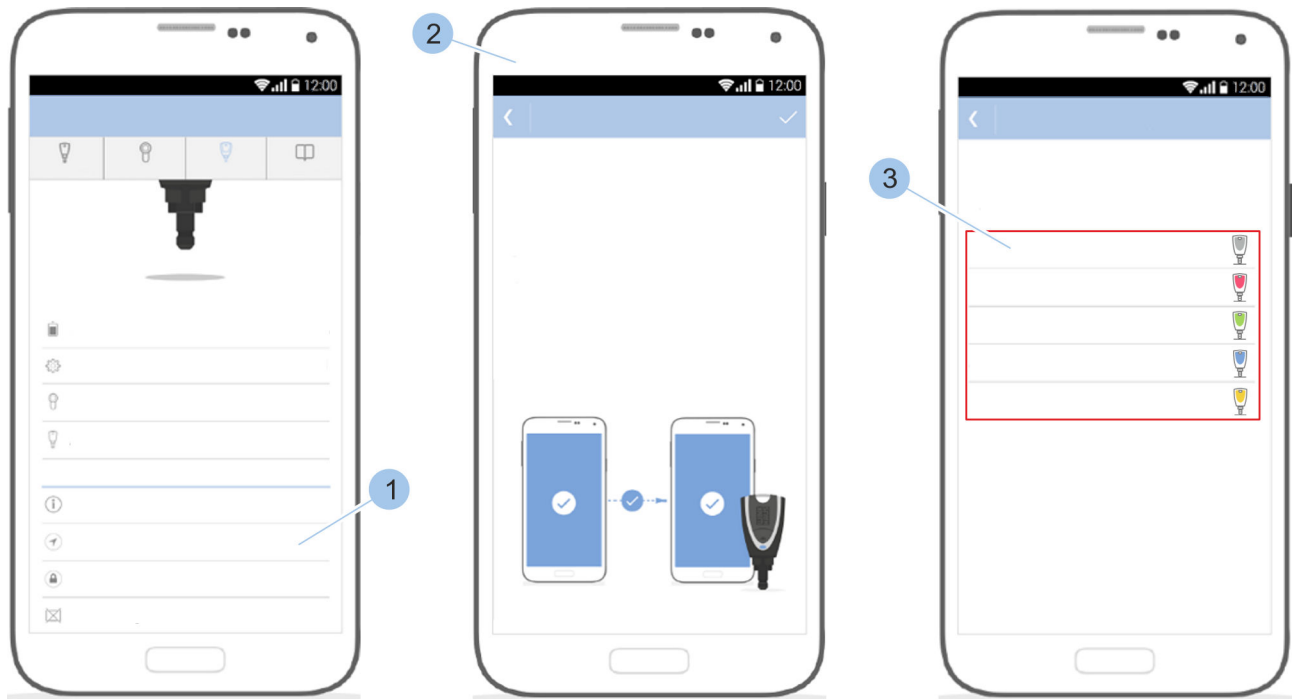


Fig. 106: Select key

1. Touch *Remote authorisation* (1).
2. Read notifications (2).
3. Select deposited key (3).

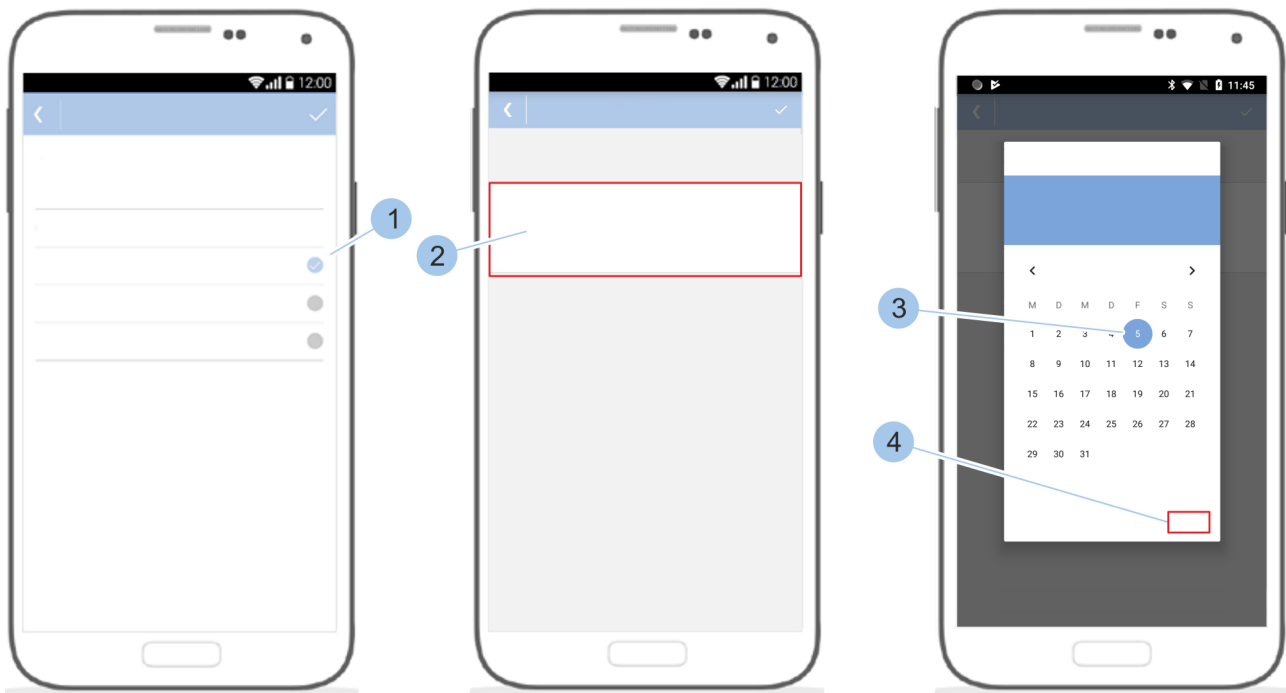


Fig. 107: Select cylinder or reader and establish locking authorisation

4. ▶ Select cylinder or reader (1) for which the locking authorisation should be issued.
5. ▶ Touch in the relevant date field (2).
6. ▶ Select the date (3) and confirm with OK (4).

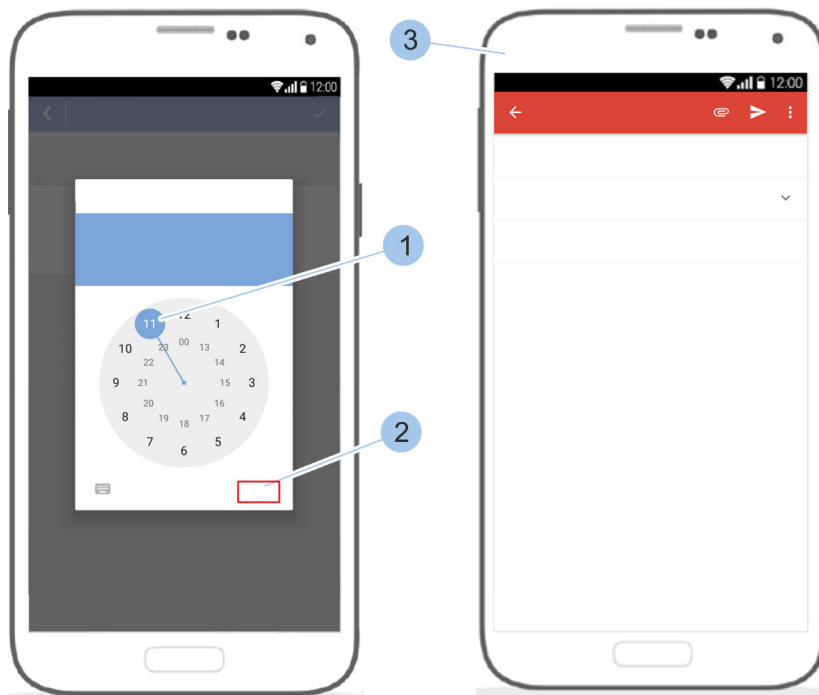


Fig. 108: Forward locking authorisation

7. ➤ Select the time (1) and confirm with *OK* (2).
 ⇨ The e-mail (3) for sending the remote authorisation is generated automatically.
8. ➤ Enter the recipient's email address or select from the contact list.
9. ➤ Send email.

Receive remote authorisation

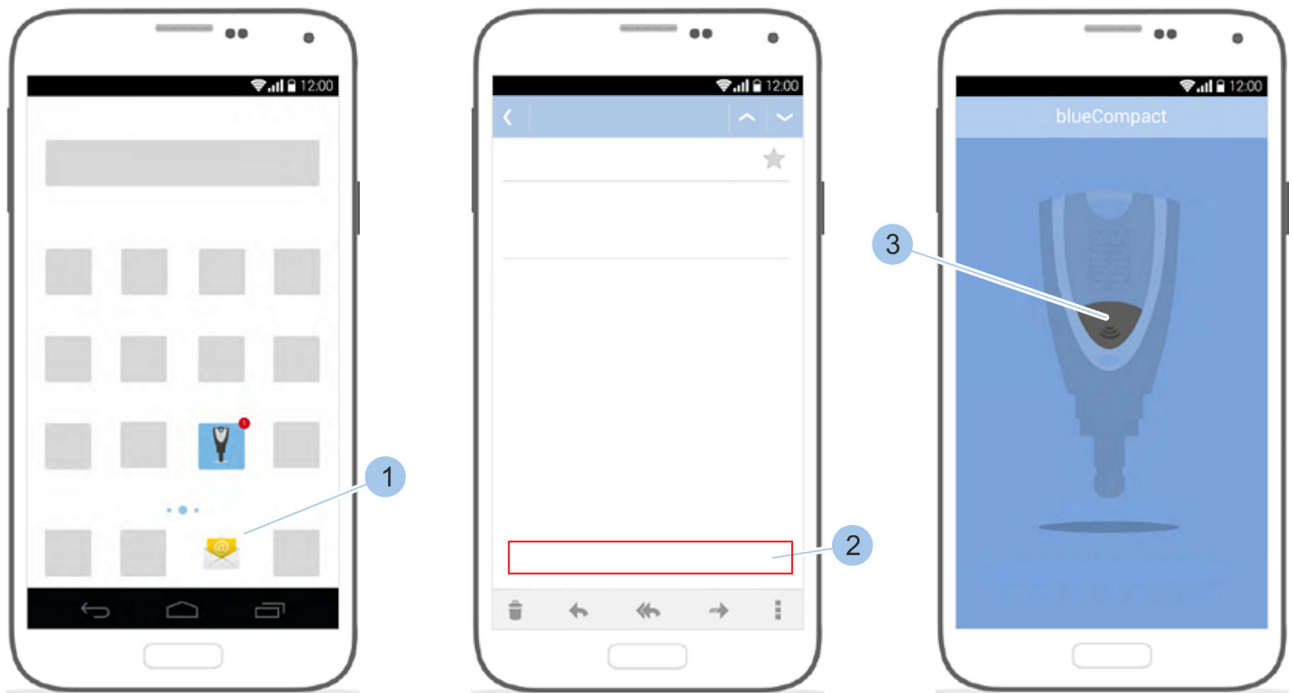


Fig. 109: Receive remote authorisation

10. ➤ Open email account (1).
11. ➤ Touch the link (2) to activate the remote authorisation.
 ⇨ The app starts.
12. ➤ Press button (3).

Log on key

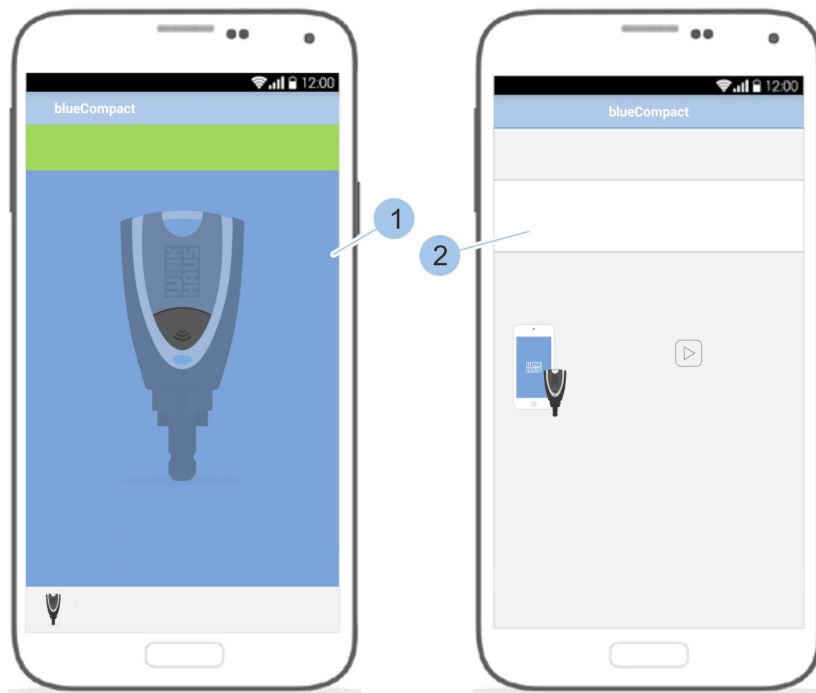


Fig. 110: Select active key

- 13.** ▶ Select the active key (1) for which the remote authorisation is intended from the list based on the Winkhaus-UID.
- ⇒ The active key is authorised to lock for the specified period (2).



The information on the period of time for the locking authorisation requires Firmware version 200 or newer.

7.10 Reset Masterkey



If the Masterkey is lost and found again or if a Masterkey was initialised incorrectly, the Masterkey can be reset to the factory settings. Following the reset, the former Masterkey can be added to the system as an active key.

Precondition:

- User is in the *Master key menu*.

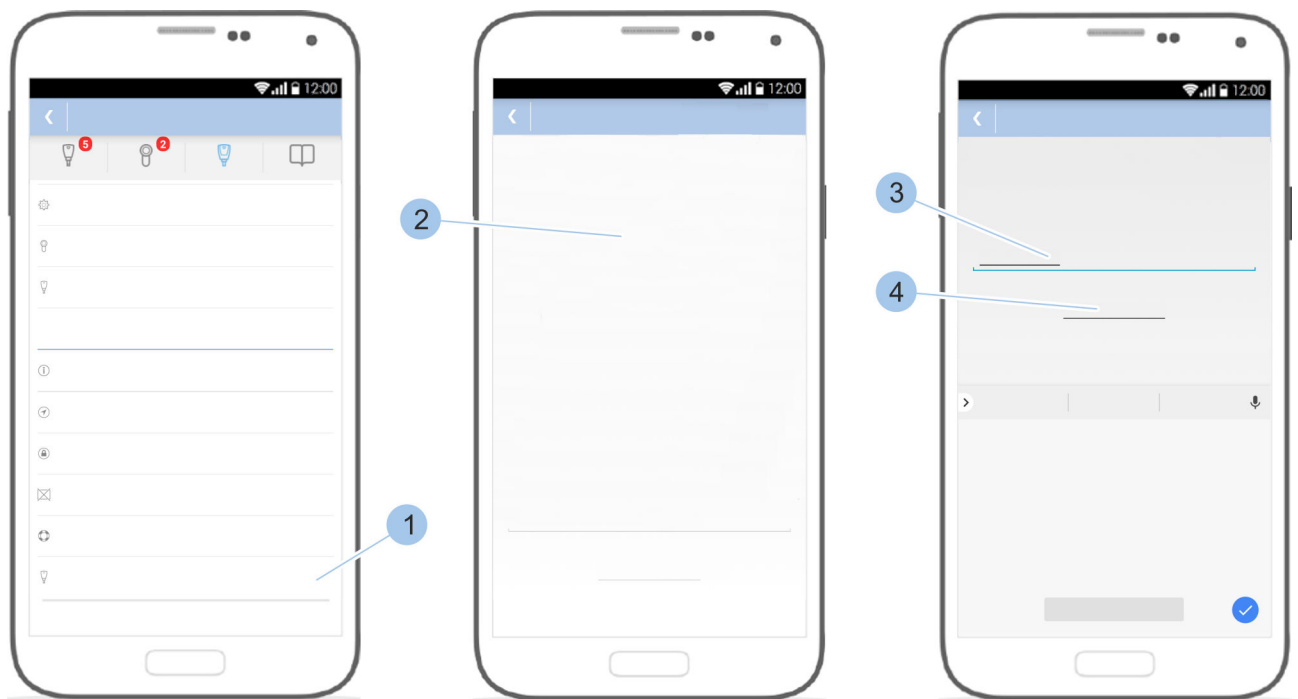


Fig. 111: Reset Masterkey

1. Touch *Reset Masterkey* (1).
2. Read the notes (2) and scroll down.
3. Enter *Reset* (3).
4. Touch *Reset now* (4).
 - ⇒ The Masterkey is reset and the Bluetooth connection is ended. The former Masterkey can now be added to the system as an active key.

8 Lock

8.1 Lock on the cylinder

Unlock

Prerequisites:

- The administrator has instructed key holders on how to use the locking system.
- The key is authorised to lock.

1. ➤ Insert the key into the cylinder as far as it will go.
2. ➤ Ensure that the key's side struts fully fit into the cylinder slot.
3. ➤ Turn the key up to 720° to the right.
⇒ The door is open.

4. ➤



NOTICE!

Damage caused by pulling out keys incorrectly.

Pull the key out straight.

5. ➤



NOTICE!

Damage caused by trying to pull the door open with the key.

Open door with the door handle or knob.

Locking procedure

Prerequisites:

- The administrator has instructed key holders on how to use the locking system.
- The key is authorised to lock.

1. ➤ Insert the key into the cylinder as far as it will go.
2. ➤ Ensure that the key's side struts fully fit into the cylinder slot.
3. ➤ Turn key to the left 360° (single-turn cylinder) or 720° (two-turn cylinder).
⇒ The door is locked.

4. ➤



NOTICE!

Damage caused by pulling out keys incorrectly.

Pull the key out straight.

8.2 Lock on the reader

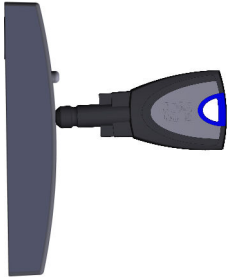


Fig. 112: Lock on the reader

Prerequisites:

- The administrator has instructed key holders on how to use the locking system.
 - The key is authorised to lock.
 - ↳ *Chapter 7.5.4 “Issue and withdraw locking authorisations on the reader” on page 104*
- Hold the key in the centre in front of the reader.
- Presenting the key for a short time opens the door once for the duration of the release time. An authorised locking is indicated with a short beep and a green LED light.
 - Presenting the key for an extended period of time activates or deactivates the permanent release.

9 Install software updates

9.1 Transfer data to the Masterkey



A software update can install optimisations on the Masterkey, cylinder, reader and all active keys.

The required data are provided via the app. The data are transferred to the Masterkey. The Masterkey is then used to transfer the data to the cylinders and the active keys.

If, it is detected during the initialisation of the Masterkey or during login that the software of the Masterkey is out of date, the software update can be carried out.



NOTICE!

Damage caused by outdated software.

Outdated software can lead to malfunctions and reduced burglary protection.

- Import software updates onto all components in the locking system.
 - ↪ Chapter 9.1 "Transfer data to the Masterkey" on page 139

Precondition:

- Software update has been displayed and executed in Google Play.

Install software update on the Masterkey

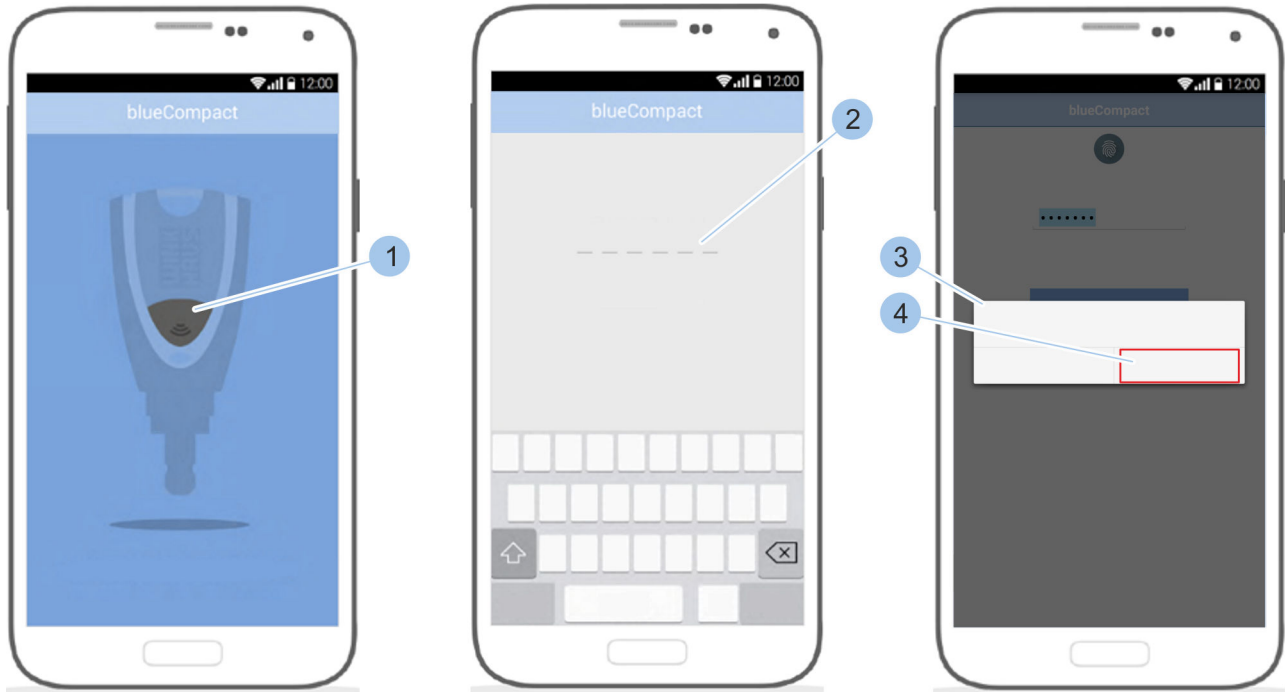


Fig. 113: Install software update on the Masterkey

1. ➤ Launch app.
2. ➤ Activate Masterkey by pressing on the button (1).
3. ➤ Enter password (2).
 - ⇒ The Masterkey is connected to the app. If the software is out of date, a prompt appears (3) asking whether the firmware should be updated.
4. ➤ Confirm prompt (3) by pressing *Update* (4).

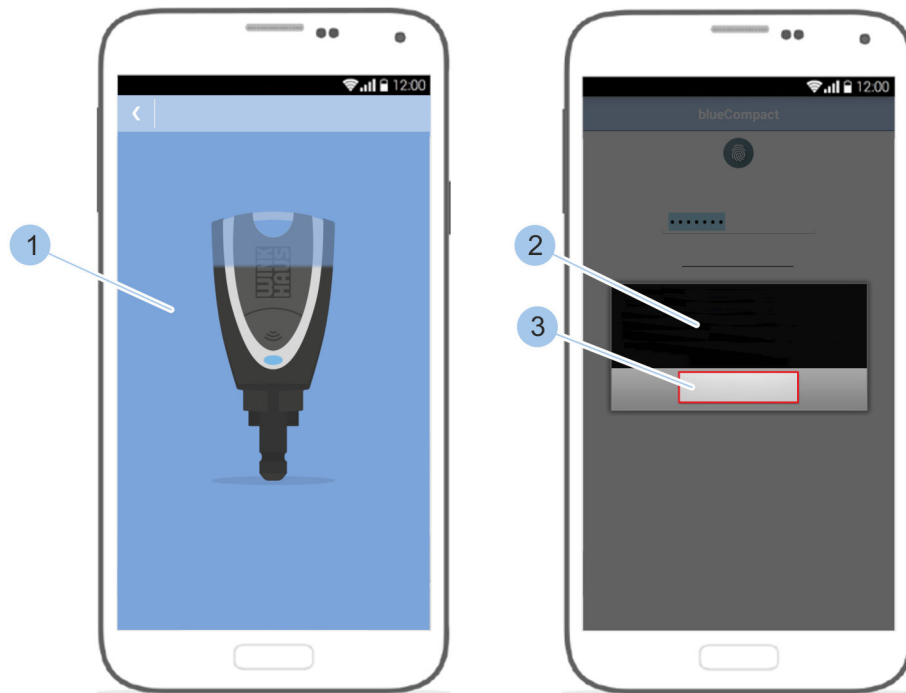


Fig. 114: Complete software update

5. ➤ After the software update has been installed (1), confirm the message (2) with **OK** (3).
 - ⇒ Once the installation is complete, the Masterkey switches off automatically.
6. ➤ Wait a few seconds.
7. ➤ Activate Masterkey by pressing on the button.
 - ⇒ The Masterkey flashes yellow for a few seconds.
8. ➤ Wait until the Masterkey flashes blue.
 - ⇒ The Masterkey can be connected to the app again.



A second part of the update may have to be installed as described. This is indicated after logging in with the password again.

9.2 Transfer data to the active key



A software update can install optimisations on the Masterkey, cylinder, reader and all active keys.

The required data are provided via the app.

If it is detected during the identification of the active key or when adding in the locking system that the software of the active key is out of date, the software update can be carried out.



NOTICE!

Damage caused by outdated software.

Outdated software can lead to malfunctions and reduced burglary protection.

- Import software updates onto all components in the locking system.
 - ↪ Chapter 9.1 "Transfer data to the Masterkey" on page 139

Prerequisites:

- Software update has been displayed and executed in the Google Play Store.
- Software updates have been installed on the Masterkey.
 - ↪ 9.1 "Transfer data to the Masterkey" on page 139



Fig. 115: Install software update on active keys



Once the update of the Masterkey is complete, the menu bar shows which locking system components (1) the software update can be installed on.

A software update is available for active keys marked in red in the Key menu (2).

Install software update on the active key

1. ➔ Use the adapter to connect Masterkey and active key.
2. ➔ Call up the *Key menu* (1).
3. ➔ Touch the active key concerned (2).

4. ➤ Confirm prompt (3) by pressing *Update* (4) and switch on the active key.

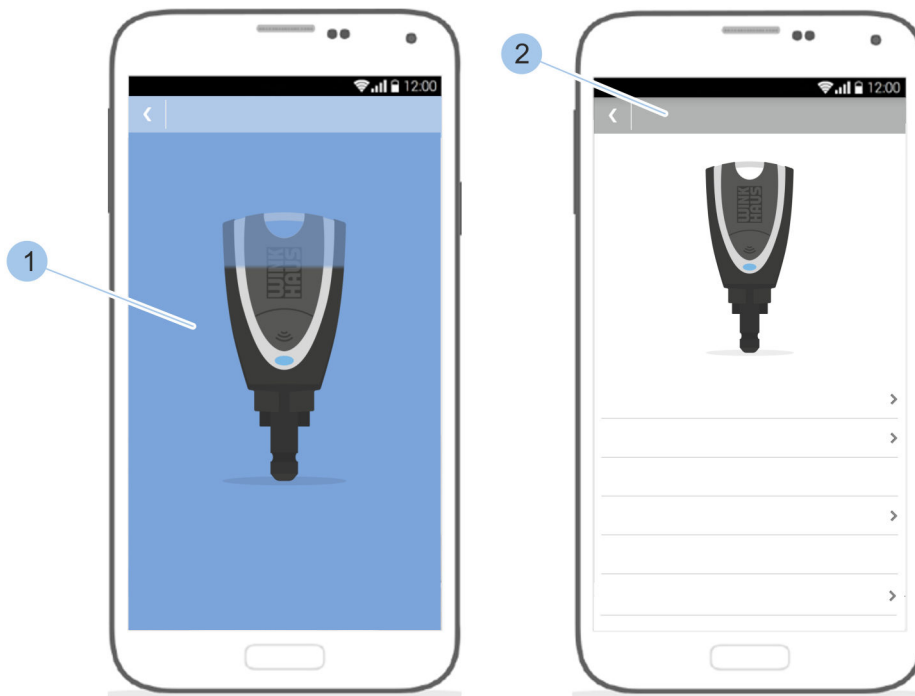


Fig. 116: Complete software update

- ⇒ The software update is installed (1).

The active key flashes yellow for a few seconds and the key details (2) are shown.

Once the installation is complete, the active key switches off automatically. The software update is complete.

9.3 Transfer data to cylinder



A software update can install optimisations on the Masterkey, cylinder, reader and all active keys.

The required data are provided via the app.

If it is detected during the identification of the cylinder or when adding in the locking system that the software of the cylinder is out of date, the software update can be carried out.

**NOTICE!****Damage caused by outdated software.**

Outdated software can lead to malfunctions and reduced burglary protection.

- Import software updates onto all components in the locking system.
 - ↪ Chapter 9.1 "Transfer data to the Masterkey" on page 139

Prerequisites:

- Software update has been displayed and executed in the Google Play Store.
- Software updates have been installed on the Masterkey.
 - ↪ 9.1 "Transfer data to the Masterkey" on page 139
- User is in the cylinder menu.

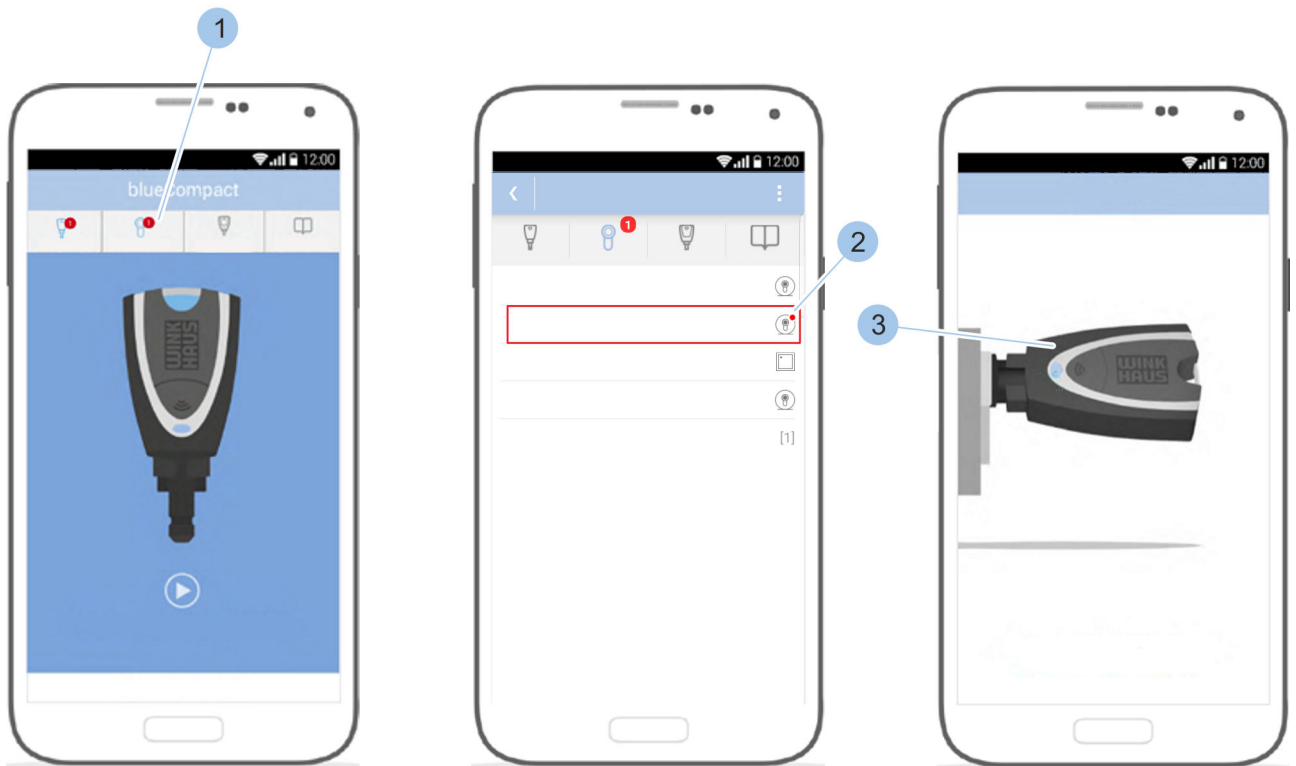


Fig. 117: Install software update on the cylinder



Once the update of the Masterkey is complete, the menu bar shows which locking system components (1) the software update can be installed on.

Cylinders (2) for which a software update is available are marked in red in the Cylinder menu menu.

Install software update on the cylinder

1. Call up the *Cylinder menu* (1).
2. Touch the cylinder concerned (2).
3. Insert Masterkey (3) in the cylinder.

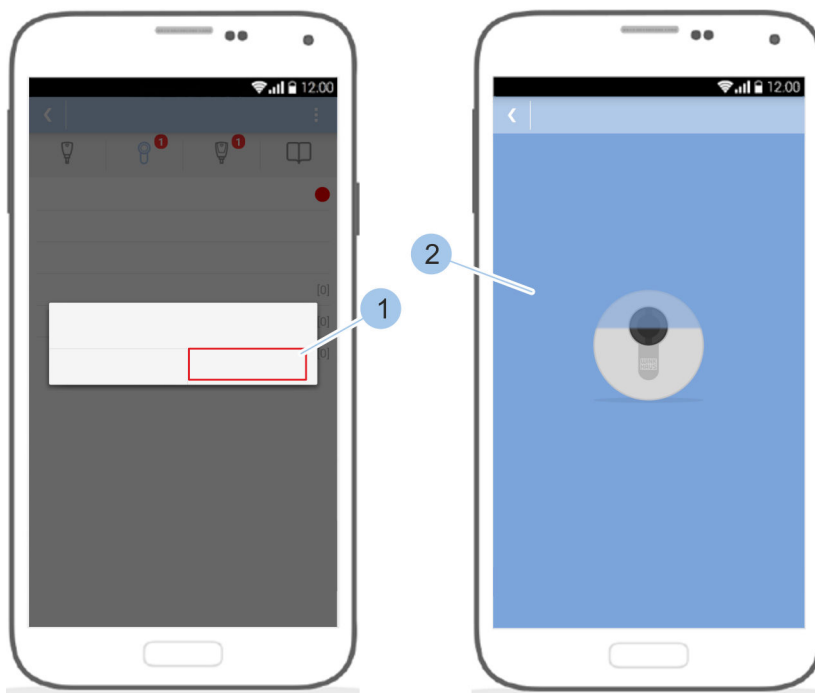


Fig. 118: Start installation

4. Press Yes (1) to start installing the software update.
⇒ The software update is installed (2) and completed.

9.4 Transfer data to reader



A software update can install optimisations on the Masterkey, cylinder, reader and all active keys.

The required data are provided via the app.

If it is detected during the identification of the reader or when adding in the locking system that the software of the reader is out of date, the software update can be carried out.



NOTICE!

Damage caused by outdated software.

Outdated software can lead to malfunctions and reduced burglary protection.

- Import software updates onto all components in the locking system.
 - ↪ Chapter 9.1 “Transfer data to the Masterkey” on page 139

Prerequisites:

- Software update has been displayed and executed in the Google Play Store.
- Software updates have been installed on the Masterkey.
 - ↪ 9.1 “Transfer data to the Masterkey” on page 139
- User is in the cylinder menu.

Prepare installation of software updates.

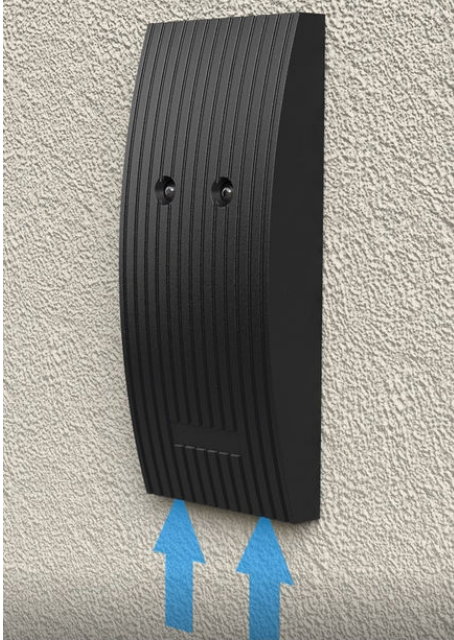


Fig. 119: Remove the reader housing

1. Carefully remove the reader housing. To do this, press against the reader housing from below until the reader housing folds open to the front.
2. Remove the reader housing.



Fig. 120: Hook in the programming adapter and insert the Masterkey

3. Hook the programming adapter into the relevant groove on the reader and insert the Masterkey in the programming adapter.
⇒ The reader is now prepared for the installation of the software update.

Install software update on the reader

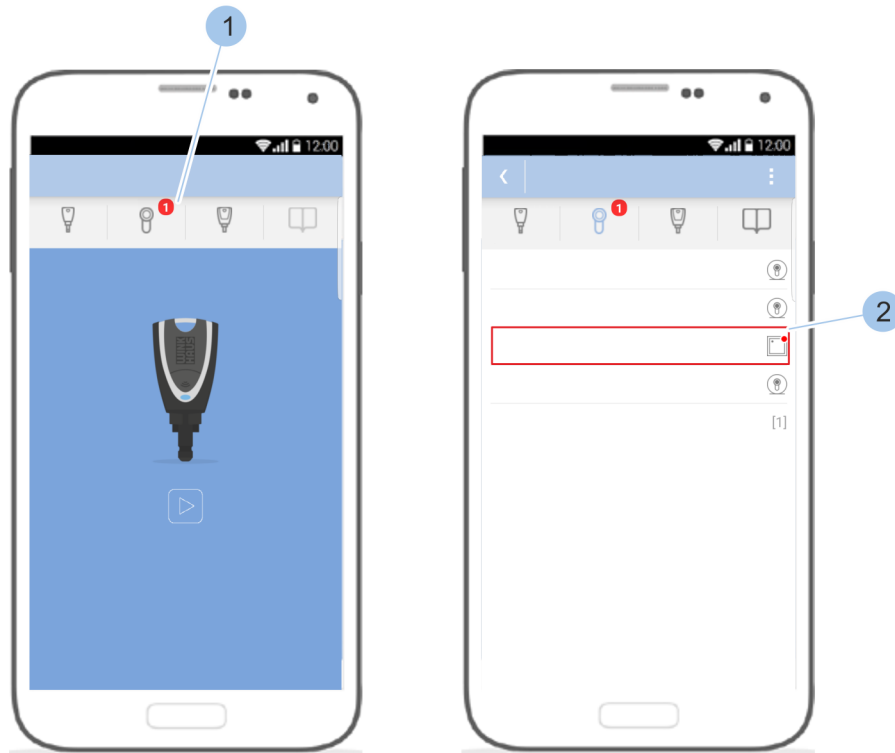


Fig. 121: Install software update on the reader



Once the update of the Masterkey is complete, the menu bar shows which locking system components (1) the software update can be installed on.

Readers (2) for which a software update is available are marked in red in the Cylinder menu.

1. ➔ Call up the *Cylinder menu* (1).
2. ➔ Select reader (2).



There are different ways of carrying out the further installation of the software update on the reader. Both installation options are described below. The prerequisites and preparation for the installation of the software update on the reader apply in both cases.

Install software updates

First installation option:

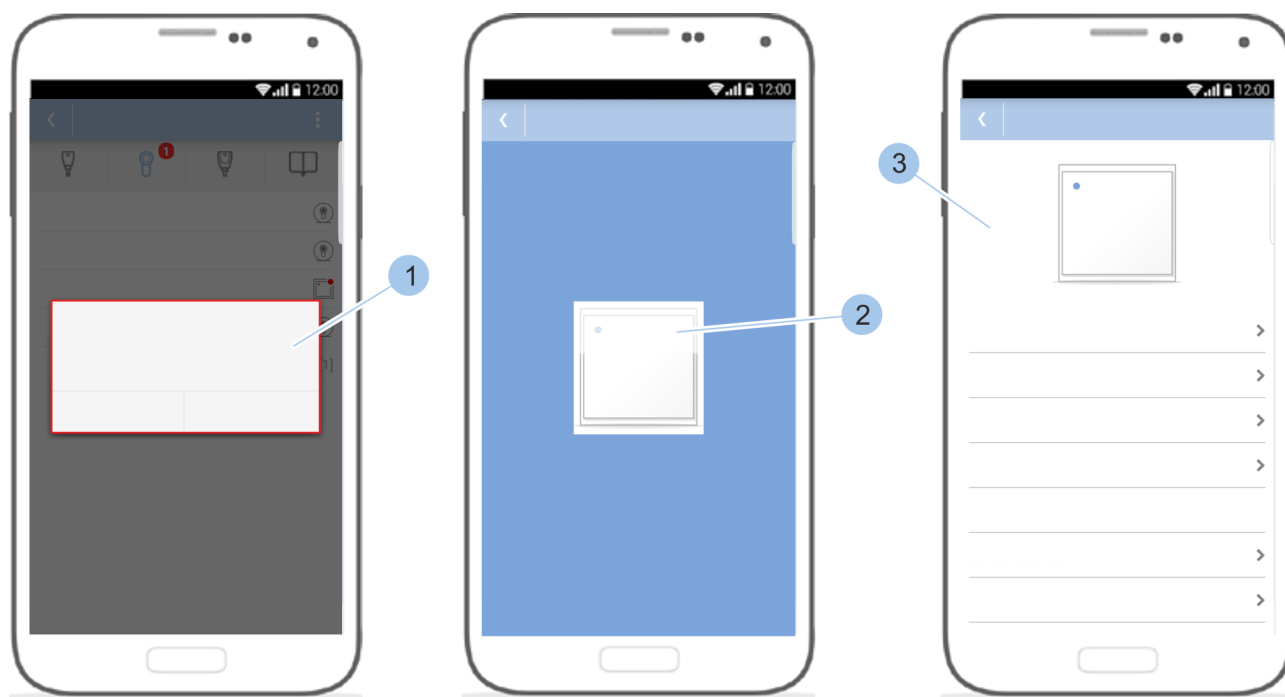


Fig. 122: Install software update

➔ Press Yes (1) to start installing the software update.



The data transfer between the Masterkey and reader can take several minutes during the software update.

⇒ The software update is installed (2) and completed (3).

Second installation option:

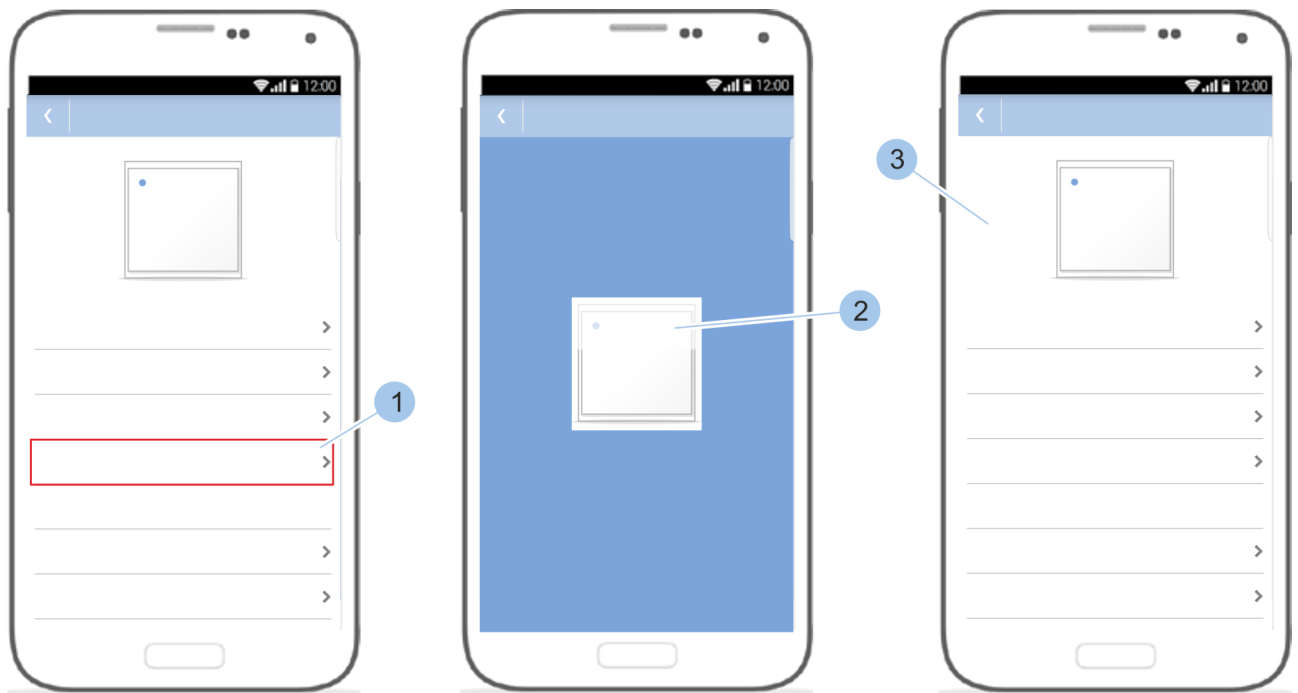


Fig. 123: Install software update

➔ Start the installation by touching the software version (1).



The data transfer between the Masterkey and reader can take several minutes during the software update.

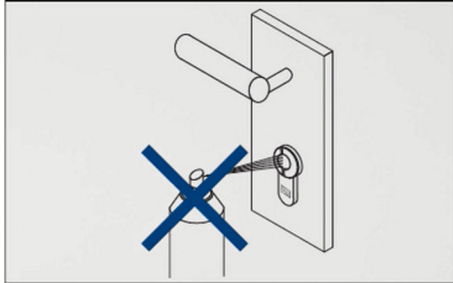
⇒ The software update is installed (2) and completed (3).

Complete the installation of the software update.

1. ➔ Remove the Masterkey from the programming adapter.
2. ➔ Remove the programming adapter from the reader.
3. ➔ Place the reader housing on the reader and engage.

10 Cleaning and maintenance

10.1 Test cylinder and clean key



NOTICE!

Damage caused by incorrect cleaning.

The cylinder does not need to be cleaned and it must not be lubricated. Applying oil to the cylinder can damage the built-in electronics beyond repair.

- Do not apply oil or grease to cylinders.
- Do not treat cylinders with graphite.
- Do not allow the cylinder to come into contact with paint or thinner.

Interval	Maintenance work
When required	Clean key with damp cloth.
Monthly	Check that the system cylinders and doors function correctly.
	Check the battery charge status in the locking system cylinders and replace batteries if they are low. <ul style="list-style-type: none"> ■ ↪ Chapter 10.3.1 "Replace the battery in an active key" on page 156

10.2 Clean and maintain the reader



NOTICE!

Damage caused by incorrect cleaning.

Incorrect cleaning can result in material damage on the reader.

- Do not use acid- or solvent-based cleaning agent to clean the reader.
- Do not clean the reader with direct hose water (e.g. garden hose or high-pressure cleaner).

Interval	Maintenance work
When required	Clean the reader with a damp cloth.
Monthly	Check the reader for correct function.
In case of stubborn dirt	Have the reader cleaned by a specialist in building technology.

10.3 Replace batteries

Damage and malfunctions caused by incorrectly inserted batteries



NOTICE!

Damage caused by batteries being replaced incorrectly.

Incorrectly or improperly inserted batteries may cause malfunctions or damage to the components.

- Never invert the battery terminals.
- Change battery/batteries and replace with approved batteries of the same type.
- Do not touch the battery contacts when replacing the batteries. Wear clean gloves.
- Do not use force to press batteries into the battery compartment.
- Only use Winkhaus original parts to replace batteries in cylinders.



If a cylinder with low battery charge level is read out with the Masterkey, this is shown in the app.

Example: Low cylinder battery charge status

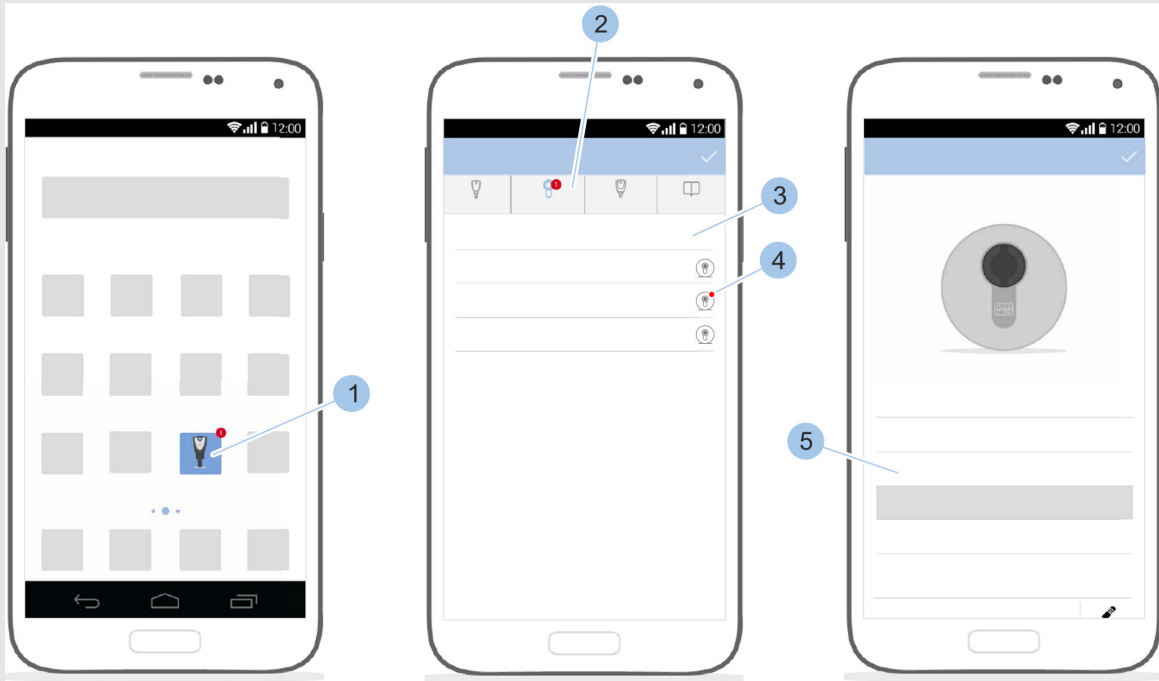


Fig. 124: Open message

Precondition:

- Masterkey has been linked to the cylinder.
 - ↪ Chapter 7.1 "Initialise Masterkey" on page 77

1. ➤ Launch app.

⇒ A message is displayed in the app overview (1) and in the main menu (2).

2. ➤ Open menu (2).

3. ➤ Touch the cylinder (3).

⇒ The battery charge status (4) *low* is highlighted in red.

4. ➤ Replace battery.

↪ Chapter 10.3.2 "Replacing the batteries in cylinder types 01, 04 MK and 05" on page 156- ↪ Chapter 10.3.6 "Replacing batteries in padlock 85" on page 165

10.3.1 Replace the battery in an active key

Replace the battery

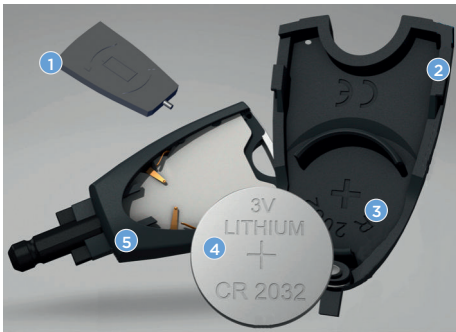


Fig. 125: Replace the battery

Precondition:

- New 3 V CR 2032-1HFE lithium cell is at hand.

1. ➤ Press down the lock pin with the tip of the tool (1) and keep it pressed and slide off the battery compartment cover (2).

2. ➤ Remove the used battery from the battery holder (3).

3. ➤



ENVIRONMENT!

Environmental damage is caused when you dispose of batteries incorrectly.

Dispose of used batteries (4) in the correct manner.

4. ➤ Insert new approved battery (4) into the battery holder (3) with the positive terminal facing downwards.

5. ➤ Slide the battery compartment cover (2) containing the newly inserted battery (4) onto the key (5). The lock pin clicks into place automatically.

⇒ The key battery has now been replaced.

10.3.2 Replacing the batteries in cylinder types 01, 04 MK and 05

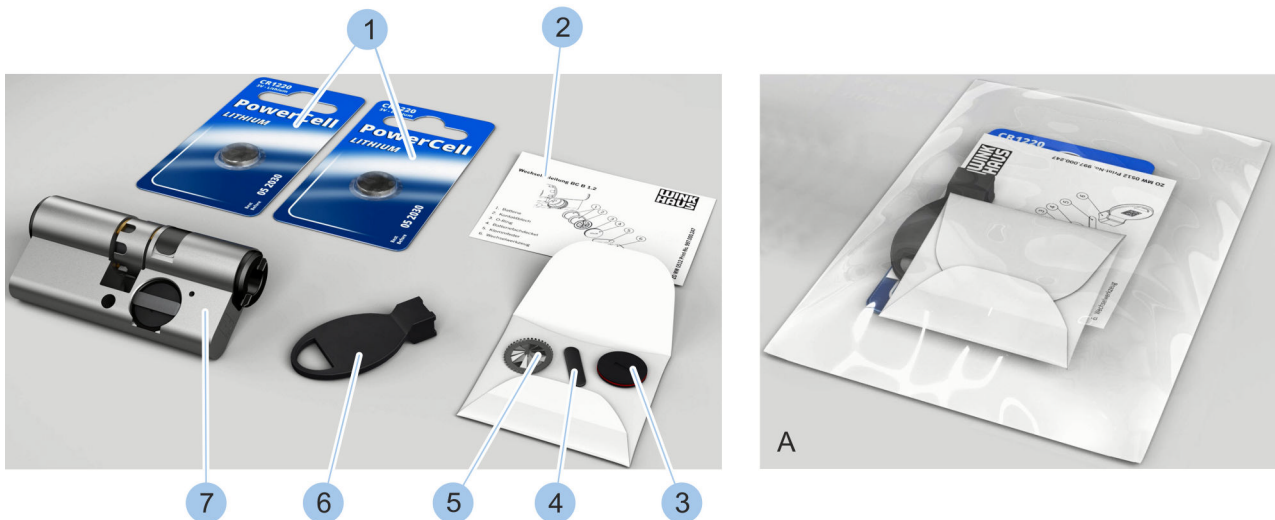


Fig. 126: Battery replacement set

- | | |
|---------------------------------------|--|
| 1 Batteries | 6 Replacement tool |
| 2 Replacement instructions | 7 Cylinder (not part of the battery replacement set) |
| 3 Battery compartment lid with O-ring | A Battery replacement set in packaging |
| 4 Retaining spring | |
| 5 Contact strip | |

The battery replacement set is supplied in a package (A) and contains the components in the photo (1 - 6).

Remove battery from the battery compartment

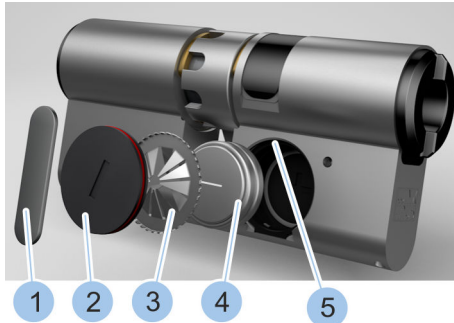


Fig. 127: Remove batteries

Precondition:

- Cylinder has been removed.
 - ↪ Chapter 4.1 "Dismount old cylinder" on page 48

1. ➤ Use replacement tool in the battery replacement set to twist retaining spring (1) out of the groove (5) in the battery compartment.
2. ➤ Remove retaining spring (1).
3. ➤ Remove battery compartment lid (2).
4. ➤ Remove contact strip (3).
5. ➤ Remove used batteries (4).

6. ➤



ENVIRONMENT!

Environmental damage is caused when you dispose of batteries incorrectly.

Dispose of retaining spring (1), battery compartment lid (2), contact strip (3) and batteries (4) in the correct manner.

Insert new batteries

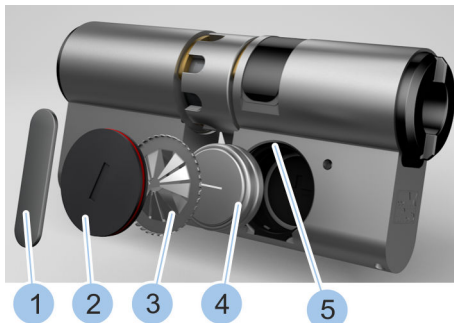


Fig. 128: Insert batteries

7. ➤ Insert two new batteries (4) from the battery replacement set with their positive terminal pointing downwards.
8. ➤ Insert new contact strip (3) into the battery compartment with toothed ring pointing outwards.
9. ➤ Insert battery compartment lid (2) into the battery compartment.
10. ➤ Insert retaining spring (1) into the battery compartment groove (5).
11. ➤ Place replacement tool onto the retaining spring (1).
12. ➤ Use the replacement tool to turn retaining spring (1) 90° in the groove (5).
 - ⇒ The batteries have now been replaced and secured in the battery compartment.
13. ➤ Fit cylinder.
 - ↪ Chapter 4.6 "Install cylinder type 01, type 02 and type 05" on page 57
14. ➤ Synchronise the time of the cylinder with the Masterkey.
 - ↪ Chapter 7.4.3 "Identify cylinder" on page 89

10.3.3 Replace batteries in cylinder type O2

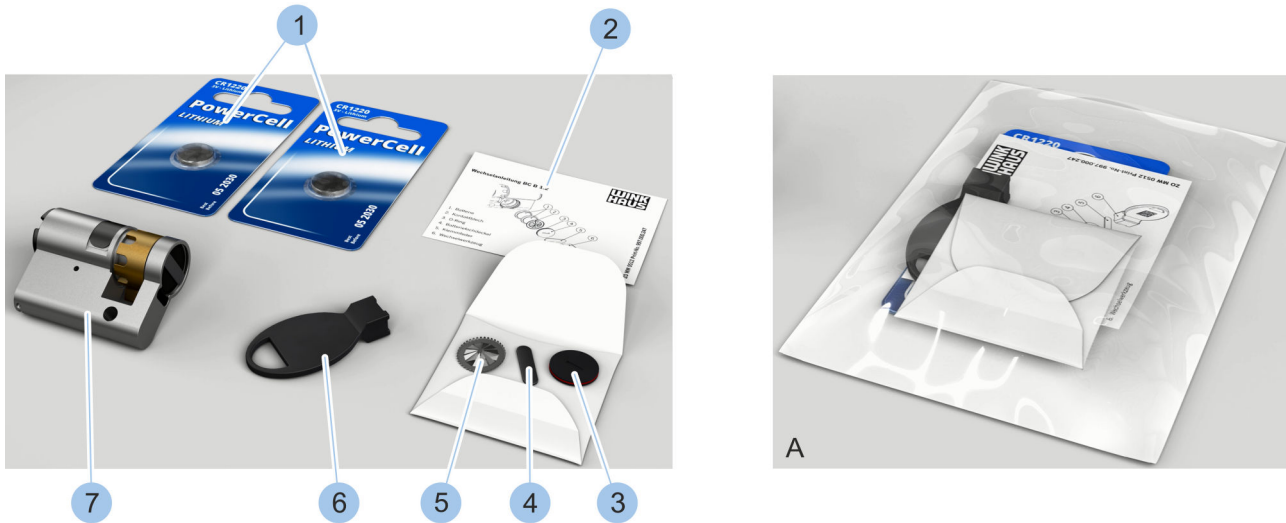


Fig. 129: Battery replacement set (type O2)

- | | |
|---------------------------------------|--|
| 1 Batteries | 6 Replacement tool |
| 2 Replacement instructions | 7 Cylinder (not part of the battery replacement set) |
| 3 Battery compartment lid with O-ring | A Battery replacement set in packaging |
| 4 Retaining spring | |
| 5 Contact strip | |

The battery replacement set is supplied in a package (A) and contains the components in the photo (1 - 6).

Precondition:

- Cylinder has been removed.
 - ↪ Chapter 4.1 "Dismount old cylinder" on page 48

Remove battery from the battery compartment

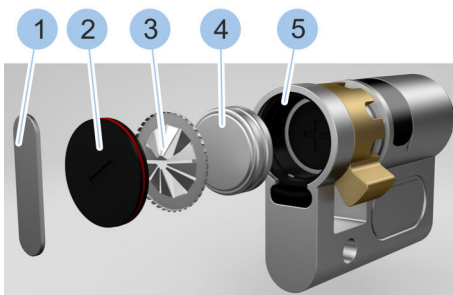


Fig. 130: Remove batteries

1. ➔ Use replacement tool in the battery replacement set to twist retaining spring (1) out of the groove (5) in the battery compartment.
2. ➔ Remove retaining spring (1).
3. ➔ Remove battery compartment lid (2).
4. ➔ Remove contact strip (3).
5. ➔ Remove used batteries (4).
6. ➔



ENVIRONMENT!

Environmental damage is caused when you dispose of batteries incorrectly.

Dispose of retaining spring (1), battery compartment lid (2), contact strip (3) and batteries (4) in the correct manner.

Insert new batteries

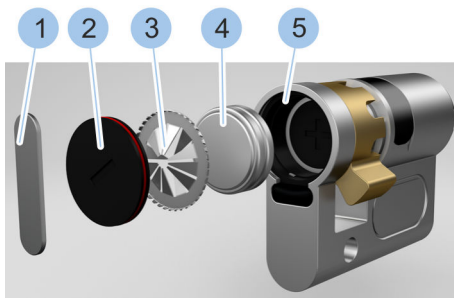


Fig. 131: Insert batteries

7. ➤ Insert two new batteries (4) from the battery replacement set with their positive terminal pointing downwards.
8. ➤ Insert new contact strip (3) into the battery compartment with toothed ring pointing outwards.
9. ➤ Insert battery compartment lid (2) into the battery compartment.
10. ➤ Insert retaining spring (1) into the battery compartment groove.
11. ➤ Place replacement tool onto the retaining spring (1).
12. ➤ Use the replacement tool to turn retaining spring (1) 90° in the groove (5).
 - ⇒ The batteries (4) have now been replaced and secured in the battery compartment.
13. ➤ Fit cylinder.
 - ↪ Chapter 4.6 "Install cylinder type 01, type 02 and type 05" on page 57
14. ➤ Synchronise the time of the cylinder with the Masterkey.
 - ↪ Chapter 7.4.3 "Identify cylinder" on page 89

10.3.4 Replace batteries in cylinder type 04

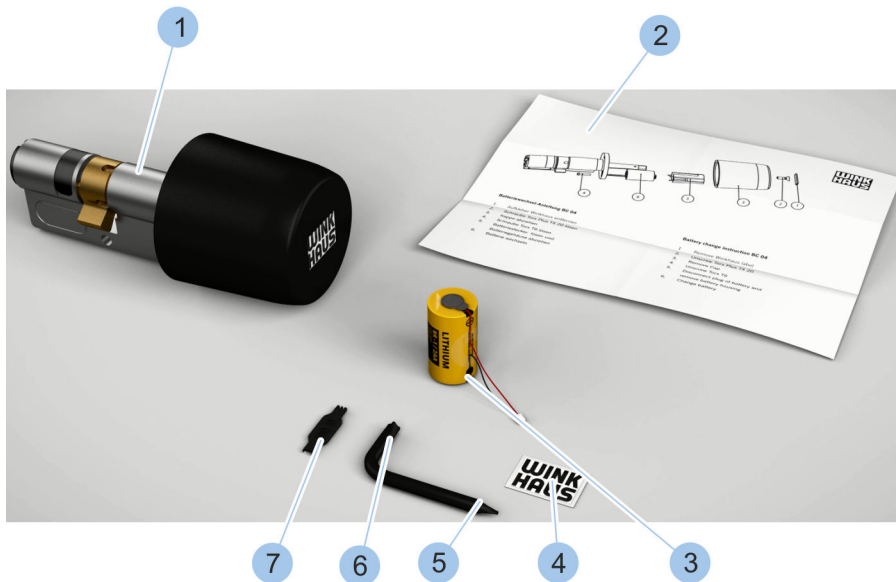


Fig. 132: Battery replacement set (type 04)

- | | | | |
|---|--|---|------------------|
| 1 | Cylinder (type 04) (not part of the battery replacement set) | 3 | Battery |
| 2 | Replacement instructions | 4 | Label |
| | | 5 | Screwdriver (T6) |

- 6 Screwdriver (TX 20)
- 7 Battery plug replacement tool

A Battery replacement set in packaging

The battery replacement set is supplied in a package (A) and contains the components in the photo (2 - 7).

Precondition:

- Cylinder has been removed.
 - ↪ Chapter 4.1 "Dismount old cylinder" on page 48

Remove knob

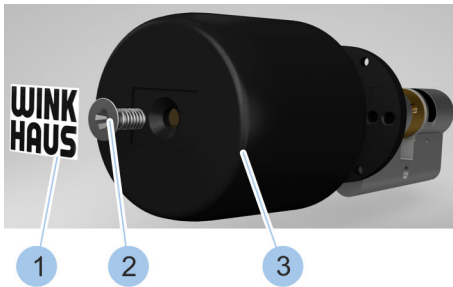
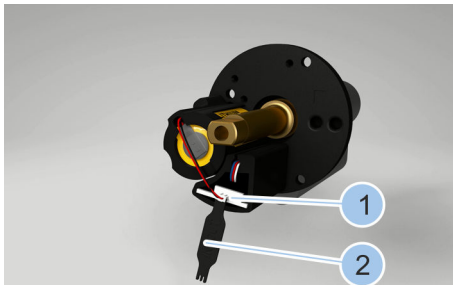


Fig. 133: Remove knob

1. ➤ Remove sticker (1) with slot screwdriver.
2. ➤ Unfasten screw (2) with enclosed screwdriver (TX 20).
3. ➤ Detach (3) thumb-turn.

Disconnect battery plug



4. ➤ Disconnect battery plug (1) with battery plug replacement tool (2).
5. ➤ Unfasten screw (3) with enclosed screwdriver (T6).

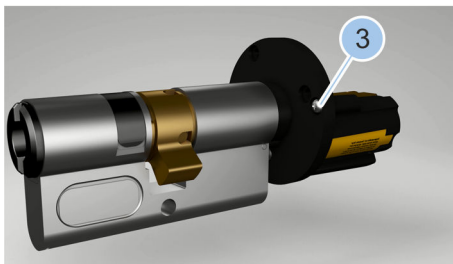


Fig. 134: Undo screw and battery plug

Remove battery

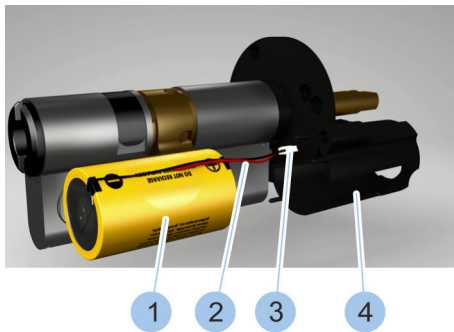


Fig. 135: Remove battery

6. ➤ Remove battery housing (4).
7. ➤ Take the used battery (1), including cable (2) and battery plug (3), from the battery housing (4).

8. ➤



ENVIRONMENT!

Environmental damage is caused when you dispose of batteries incorrectly.

Dispose of stickers and batteries in the correct manner.

Insert battery into battery housing

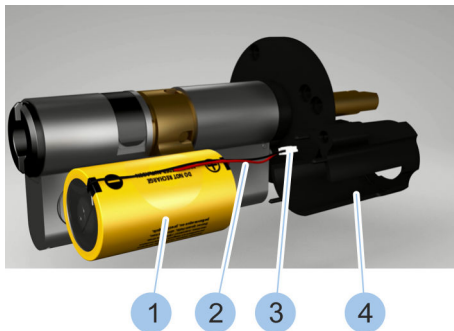


Fig. 136: Insert battery

9. ➤ Feed cable (2) and battery plug (3) through the battery housing (4).
10. ➤ Insert new battery (1) from the battery replacement set into the battery housing (4).

Fit battery housing

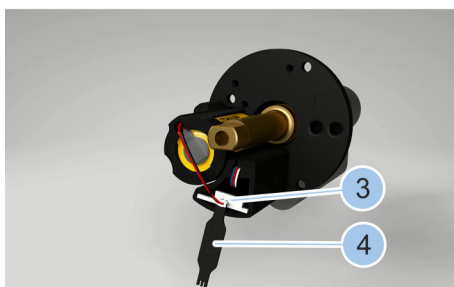
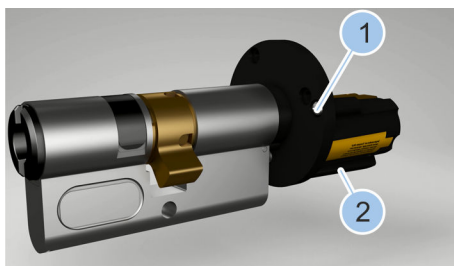


Fig. 137: Insert screw and battery plug

11. ➤ Place battery housing (2) in position.
12. ➤ Fasten screw (1) with enclosed screwdriver (T6).
13. ➤ Use replacement tool (4) to insert battery plug (3).

Attach knob

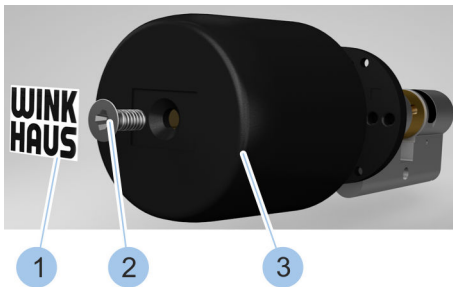


Fig. 138: Attach knob

14. ▶ Attach knob (3).
15. ▶ Fasten screw (2) with enclosed screwdriver (TX20).
16. ▶ Affix new sticker (1).
⇒ The battery has been changed.
17. ▶ Fit cylinder.
↳ Chapter 4.7 "Install cylinder type 04 and type 04 MK" on page 60
18. ▶ Synchronise the time of the cylinder with the Masterkey.
↳ Chapter 7.4.3 "Identify cylinder" on page 89

10.3.5 Replacing the batteries in cylinder types 21 and 22

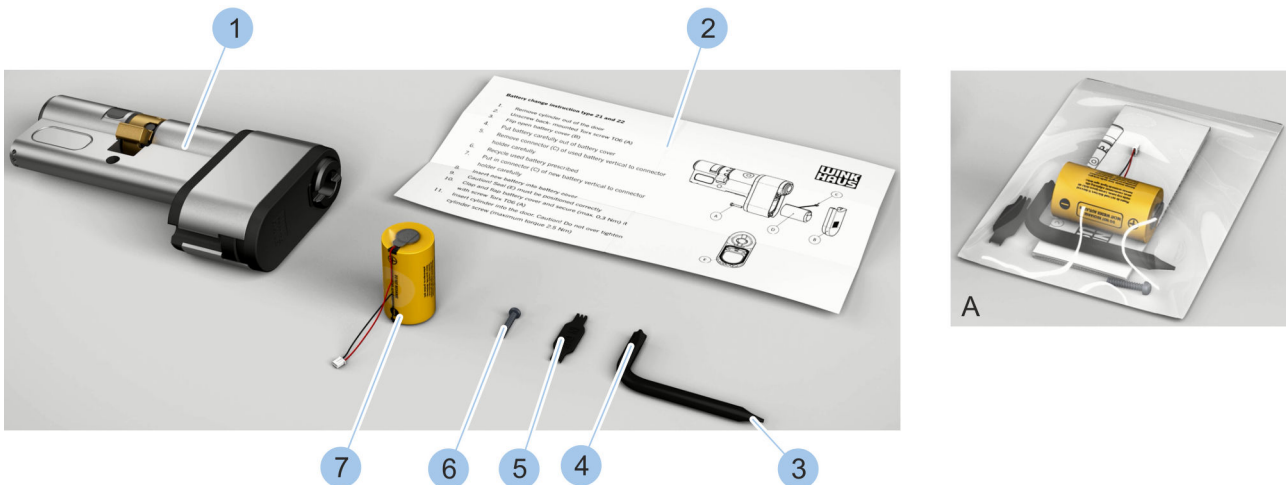


Fig. 139: Battery replacement set (type 21)

- | | | | |
|---|--|---|--------------------------------------|
| 1 | Cylinder (type 21) (not part of the battery replacement set) | 5 | Battery plug replacement tool |
| 2 | Replacement instructions | 6 | Screw |
| 3 | Screwdriver (T6) | 7 | Battery |
| 4 | Screwdriver (TX 20) | A | Battery replacement set in packaging |

The battery replacement set is supplied in a package (A) and contains the components in the photo (2 - 7).

Precondition:

- Cylinder has been removed.
 - [Chapter 4.1](#) "Dismount old cylinder" on page 48

Open battery compartment

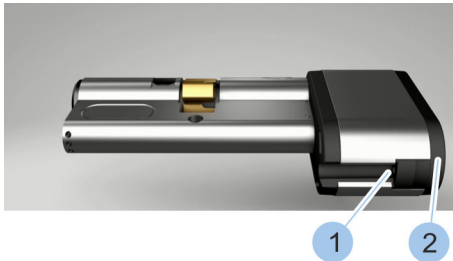


Fig. 140: Open battery compartment

1. ➤ Unfasten screw (1) with enclosed screwdriver (T6).
2. ➤ Open lid (2) of the battery compartment.

Remove battery

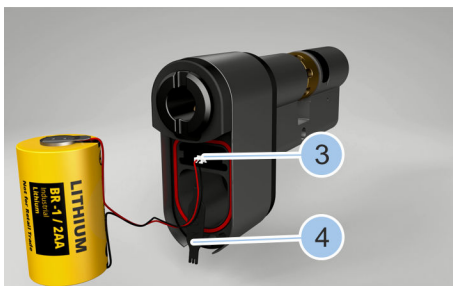


3. ➤ Take the used battery (2), including cable (1), out of battery compartment.
4. ➤ Use replacement tool (4) to remove battery plug (3).
5. ➤



ENVIRONMENT!

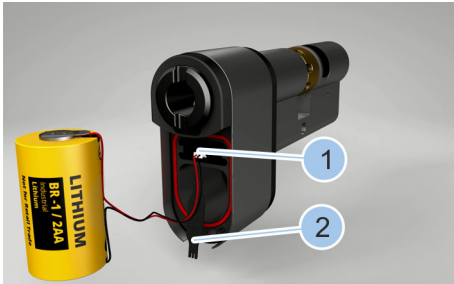
Environmental damage is caused when you dispose of batteries incorrectly.



Dispose of battery in the correct manner.

Fig. 141: Remove battery

Insert battery



6. ▶ Use replacement tool (2) to insert battery plug (1).
7. ▶ Insert new battery (4) from the battery set, including cable (3), into the battery compartment.



Fig. 142: Insert battery

Close battery compartment

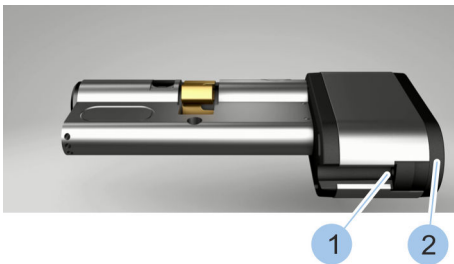


Fig. 143: Close battery compartment

8. ▶ Close lid (2) on the battery compartment.
9. ▶ Fasten screw (1) with enclosed screwdriver (T6).
⇒ The battery has now been replaced and secured in the battery compartment.
10. ▶ Fit cylinder.
↳ Chapter 4.8 "Install cylinder type 21 and type 22" on page 62
11. ▶ Synchronise the time of the cylinder with the Masterkey.
↳ Chapter 7.4.3 "Identify cylinder" on page 89

10.3.6 Replacing batteries in padlock 85

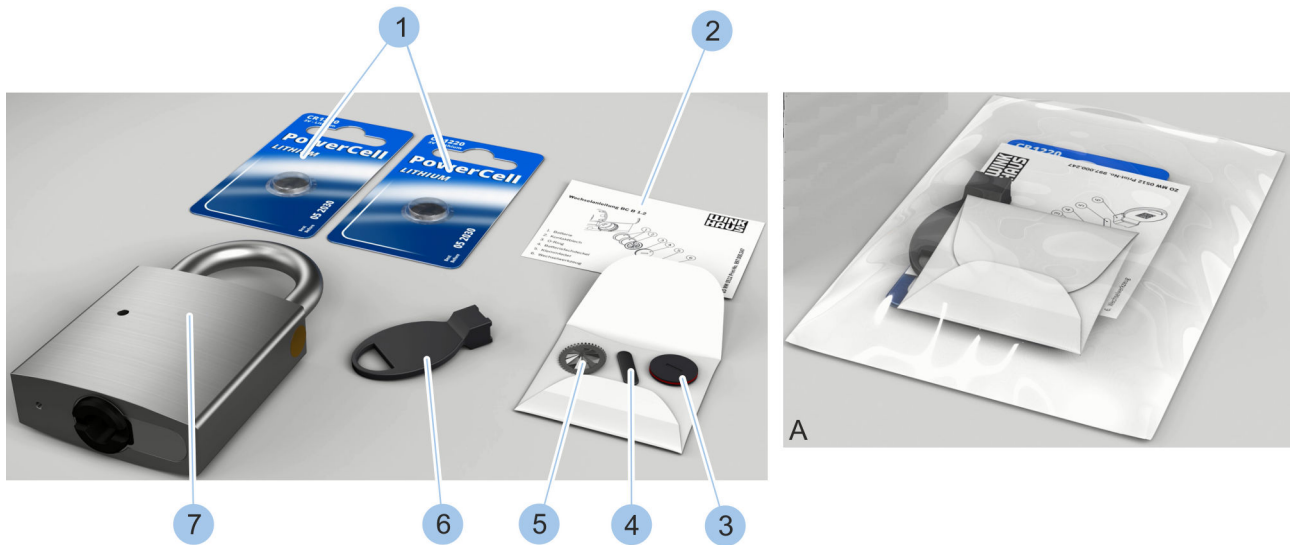


Fig. 144: Battery replacement set for type 85

- | | |
|---------------------------------------|---|
| 1 Batteries | 6 Replacement tool |
| 2 Replacement instructions | 7 Padlock (not part of the battery replacement set) |
| 3 Battery compartment lid with O-ring | A Battery replacement set in packaging |
| 4 Retaining spring | |
| 5 Contact strip | |

The battery replacement set is supplied in a package (A) and contains the components in the photo (1 - 6).

Activate key

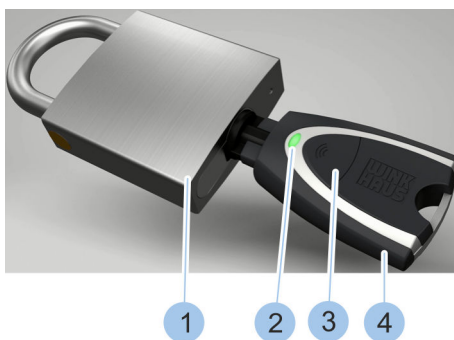


Fig. 145: Activate key

1. ➔ Insert active key (4) into the padlock (1) cylinder.
2. ➔ Activate active key (4) by pressing on the button (3).
 - ⇒ The LED display (2) on the active key lights up green and the cylinder can be locked.

Undo fixing screw

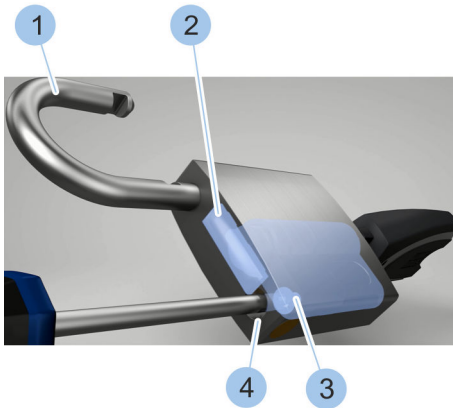


Fig. 146: Undo fixing screw

3. → Unlock cylinder.
⇒ The cross bar (2) releases the shackle (1) and the lock opens.
4. → Swing shackle (1) to the side.
5. → Undo fixing screw (3) and remove from the shackle hole (4).

Pull out cylinder

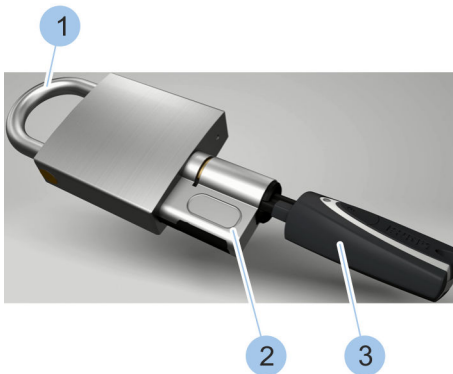


Fig. 147: Pull out cylinder

6. → Close shackle (1).
7. → Carefully remove cylinder (2) with inserted key (3).

Remove battery from the battery compartment

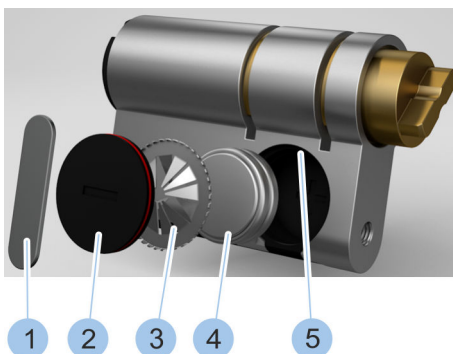


Fig. 148: Replace batteries

8. → Use replacement tool in the battery replacement set to twist retaining spring (1) out of the groove (5) in the battery compartment.
9. → Remove retaining spring (1).
10. → Remove battery compartment lid (2).
11. → Remove contact strip (3).
12. → Remove used batteries (4).
13. →



ENVIRONMENT!

Environmental damage is caused when you dispose of batteries incorrectly.

Dispose of retaining spring (1), battery compartment lid (2), contact strip (3) and used batteries (4) in the correct manner.

Insert new batteries

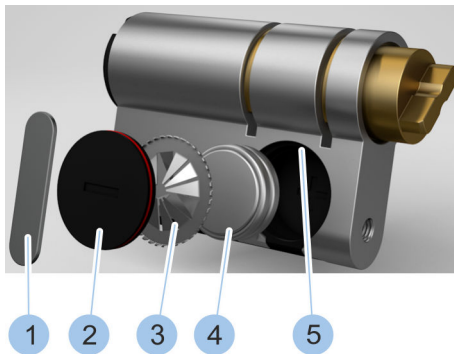


Fig. 149: Replace batteries

- 14. ▶ Insert two new batteries (4) from the battery replacement set with their positive terminal pointing downwards.
- 15. ▶ Insert new contact strip (3) into the battery compartment with toothed ring pointing outwards.
- 16. ▶ Insert battery compartment lid (2) into the battery compartment.
- 17. ▶ Insert retaining spring (1) into the battery compartment groove (5).
- 18. ▶ Place replacement tool onto the retaining spring (1).
- 19. ▶ Use the replacement tool to turn retaining spring (1) 90° in the groove (5).
 - ⇒ The batteries (4) have now been replaced and secured in the battery compartment.

Insert cylinder

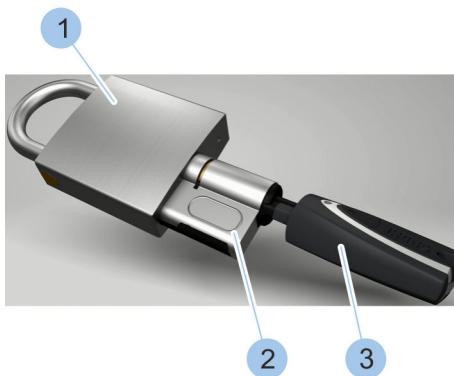


Fig. 150: Insert cylinder

- 20. ▶ Push cylinder (2) with inserted key (3) into the padlock (1).
- 21. ▶ Activate active key (3) by pressing on the button.
 - ⇒ The LED display on the active key lights up green and the cylinder can be locked.

Insert fixing screw

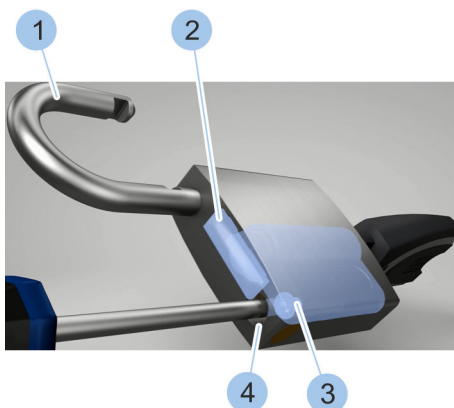


Fig. 151: Tighten fixing screw into position

- 22. ▶ Unlock cylinder.
 - ⇒ The cross bar (2) releases the shackle (1) and the lock opens.
- 23. ▶ Swing shackle (1) to the side.
- 24. ▶ Insert fixing screw (3) into the shackle hole (4) and screw firmly into place.

Lock padlock

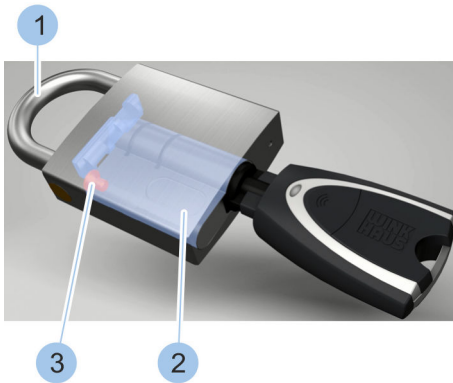


Fig. 152: Lock padlock

25. Close shackle (1).

⇒ The fixing screw (3) secures the cylinder (2) into place in the padlock.

26. Synchronise the time of the cylinder with the Masterkey.

↳ *Chapter 7.4.3 "Identify cylinder" on page 89*

11 Fault repair

11.1 Malfunctions in the locking process

Fault description	Cause	Remedy
Key can only be turned 45°.	The key could not be fully read.	Repeat locking process.
	Key has no locking authorisation.	Ask administrator for corresponding locking authorisations or, if possible, change the locking authorisations yourself <ul style="list-style-type: none"> ■ ↪ Chapter 7.3 “Add and manage key” on page 81
	The battery in the cylinder is flat.	<ul style="list-style-type: none"> ■ Replace the cylinder battery. <ul style="list-style-type: none"> - ↪ Chapter 10.3.1 “Replace the battery in an active key” on page 156 ■ Operate cylinder with internal power function in an active key. <ul style="list-style-type: none"> - ↪ Chapter 1.2.1.2 “Use internal power function” on page 20 ■ Operate cylinder with external power function in an active key. <ul style="list-style-type: none"> - ↪ Chapter 1.2.1.3 “Use external power function” on page 21 ■ Operate cylinder with the Masterkey.
Cylinder sticks during locking process.	Sticking during the locking process indicates that the cylinder’s battery is almost empty.	Replace the cylinder battery. <ul style="list-style-type: none"> ■ ↪ Chapter 10.3.1 “Replace the battery in an active key” on page 156
Key cannot be inserted into the keyway.	Keyway is blocked.	Carefully extract object with tweezers. Contact specialist company if this is not possible.
Cylinder cannot be operated.	The battery in the cylinder is flat.	<ul style="list-style-type: none"> ■ Replace the cylinder battery. <ul style="list-style-type: none"> - ↪ Chapter 10.3.1 “Replace the battery in an active key” on page 156 ■ Operate cylinder with internal power function in an active key. <ul style="list-style-type: none"> - ↪ Chapter 1.2.1.2 “Use internal power function” on page 20 ■ Operate cylinder with external power function in an active key. <ul style="list-style-type: none"> - ↪ Chapter 1.2.1.3 “Use external power function” on page 21 ■ Operate cylinder with the Masterkey.

Fault repair

Fault description	Cause	Remedy
Cylinder cannot be operated.	Reduced power of the batteries due to low temperatures.	<ul style="list-style-type: none"> ■ Operate cylinder with internal power function in an active key. <ul style="list-style-type: none"> - ↪ <i>Chapter 1.2.1.2 "Use internal power function" on page 20</i>
	Key has no locking authorisation.	Ask administrator for corresponding locking authorisations.
	Electronics in cylinder defective.	Contact specialist company.
	Mechanical system in cylinder defective.	Contact specialist company.
Cylinder cannot be inserted.	Wrong cylinder selected.	<p>Select suitable cylinder. Contact specialist company if you have questions.</p> <ul style="list-style-type: none"> ■ ↪ 4 <i>"Select and install cylinder" on page 45</i>
Cylinder cannot be screwed into position.	Wrong cylinder selected.	<ul style="list-style-type: none"> ■ Check A and B side of the cylinder to see it is in correct installation position. <ul style="list-style-type: none"> - ↪ <i>Chapter 4.5 "Prepare cylinder installation" on page 54</i> ■ Select suitable cylinder. Contact specialist company if you have questions. <ul style="list-style-type: none"> - ↪ 4 <i>"Select and install cylinder" on page 45</i>
Masterkey lost.		<p>Block and replace Masterkey.</p> <ul style="list-style-type: none"> ■ ↪ <i>Chapter 11.2 "Masterkey loss" on page 171.</i>
Permanent red LED lit on the reader.	Hardware fault or defect in the power supply.	Have the power supply checked by a qualified electrician.
Red flashing LED on the reader.	Error in the time setting on the reader.	<p>Synchronise the time of the cylinder.</p> <ul style="list-style-type: none"> ■ ↪ <i>Chapter 7.5.3 "Identify reader" on page 102</i>

11.2 Masterkey loss

Prerequisites:

- Masterkey has been lost.
- Active key which is to be converted into the Masterkey is ready at hand.
- Activation card is ready at hand.
- Active keys for the locking system are at hand.



The following keys can be converted into the Masterkey:

- New active key
- Active key in the locking system

Initialise Masterkey

1. ➔ Initialise Masterkey.

↳ Chapter 7.1 "Initialise Masterkey" on page 77

Add cylinder and key

2. ➔ Read the notes in the app on adding the cylinder, reader and key.

3. ➔



NOTICE!

Reduced burglary protection due to lost Masterkey, combined with newly configured cylinder!

Add all cylinders to locking system again. The key data is reconstructed automatically and does not need to be added again.

↳ Chapter 7.4 "Add and manage cylinder" on page 87



The keys are displayed with the Winkhaus UID only. The key names and any key groups must be taken from the old locking plan and added again.

4. ➔ Update active keys via the *Identify key* function.

↳ Chapter 7.3.3 "Identify key" on page 85

⇒ The active keys are shown in the app.

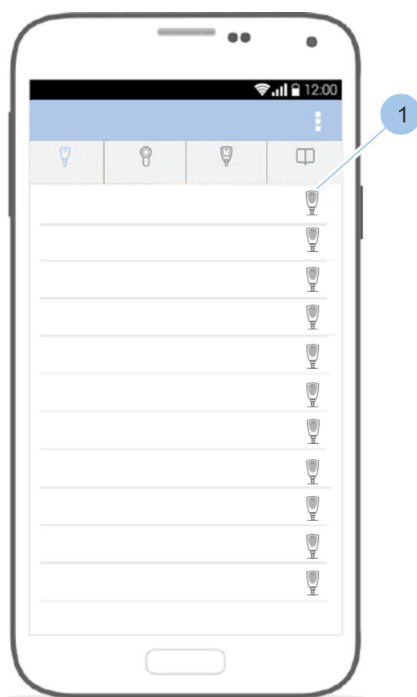


Fig. 153: Change key name

5. ▶ Select key (1).

6. ▶ Re-name key and assign a key colour.

↳ *Chapter 7.3 "Add and manage key" on page 81*

11.3 Activation card loss

Prerequisites:

- Activation card has been lost.
- Masterkey is linked to the app.
 - ↪ Chapter 7.1 "Initialise Masterkey" on page 77

Display reorder code and system number

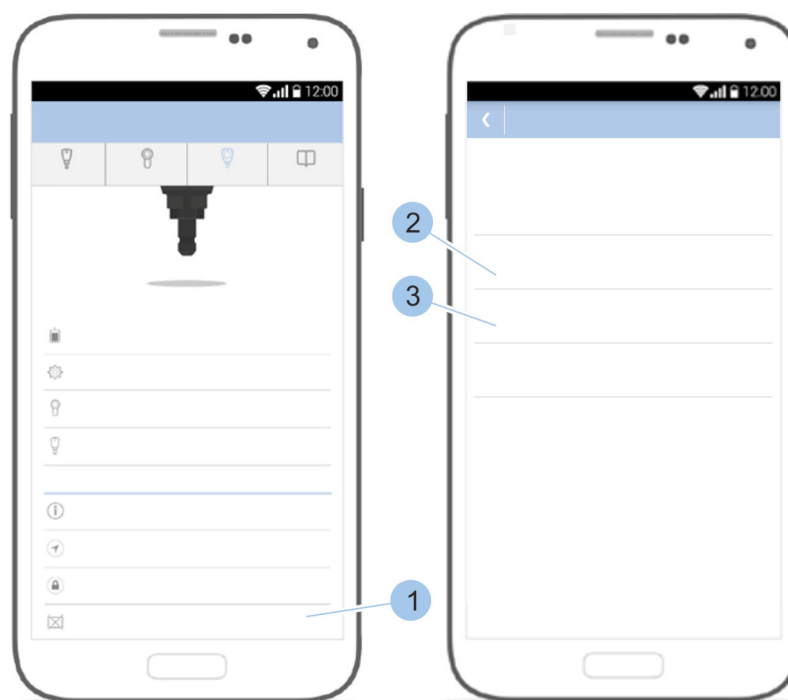


Fig. 154: Display reorder code and system number

1. ➤ Open *Master key* menu.
2. ➤ Scroll down in the menu.
3. ➤ Touch *Activation card lost* (1).
 - ⇒ The order code (2) and system number (3) are shown. You can use this information to order a new activation card from your specialist dealer. The new activation card (with new PUK card) is sent by post.

Read in new activation card

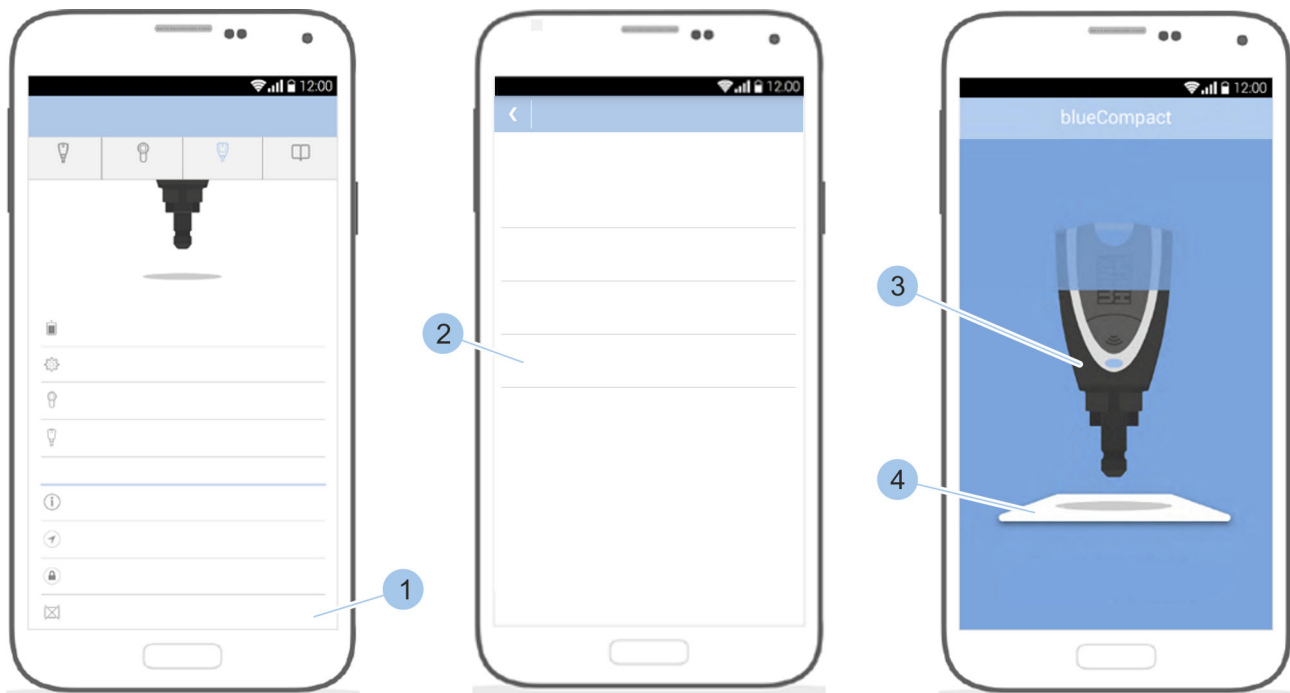


Fig. 155: Read in activation card

4. ▶ Open the *Master key menu*.
5. ▶ Scroll down in the menu.
6. ▶ Touch *Activation card lost* (1).
7. ▶ Touch *Read in new card* (2).
8. ▶ Place Masterkey (3) on the activation card (4).

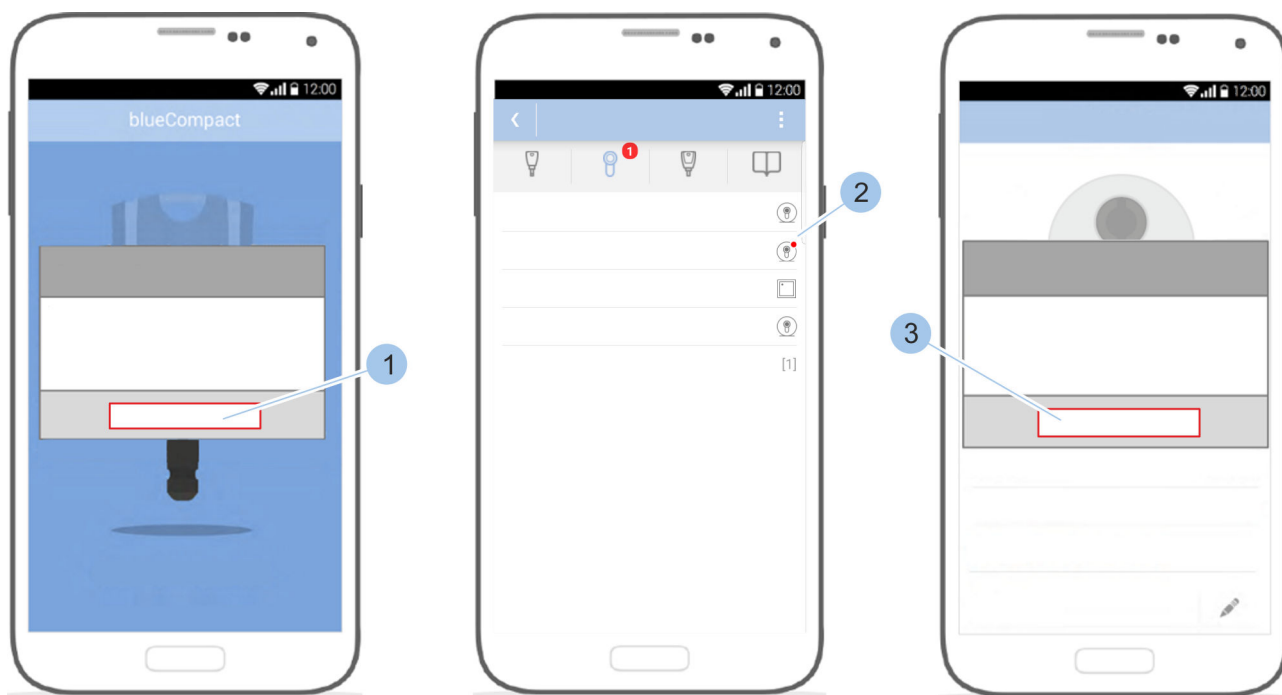


Fig. 156: Update cylinder

9. ➤ Confirm message by pressing *OK* (1).
⇒ The cylinder overview is shown.
10. ➤ Connect all cylinders highlighted in red (2) to the Masterkey.
11. ➤ Confirm message by pressing *OK* (3).
⇒ The new activation card has been incorporated successfully.

11.4 Time synchronisation on reader

Prerequisites:

- Masterkey has been linked to the app. ↪ *Chapter 7.1 "Initialise Masterkey" on page 77*
- User is in the cylinder menu.

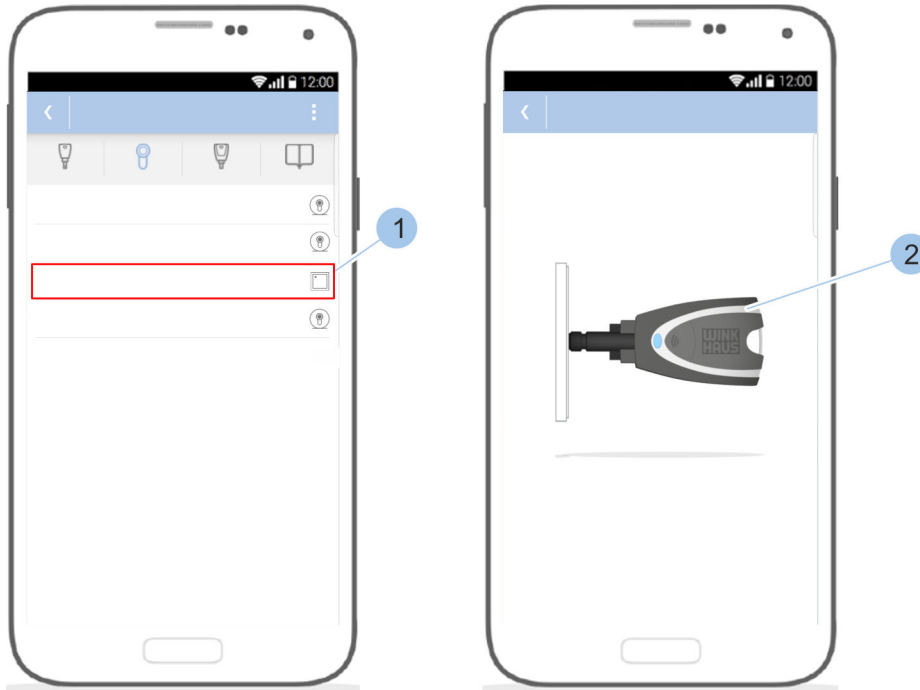


Fig. 157: Synchronise reader

1. ➤ Select reader (1).
2. ➤ Bring Masterkey (2) to the reader.
 - ⇒ The Masterkey is linked to the reader and the time is synchronised.

12 Spare parts and accessories

Spare part set

Name	for cylinder models/keys	Order number
Battery replacement set	<ul style="list-style-type: none"> ■ Type 01 ■ Type 02 ■ Type 04 MK ■ Type 05 ■ Type 85 	237 866 4
Battery Replacement Set 21	<ul style="list-style-type: none"> ■ Type 21 ■ Type 22 	493 423 3
Battery Replacement Set 04	<ul style="list-style-type: none"> ■ Type 04 	296 951 0
Active key battery replacement set	<ul style="list-style-type: none"> ■ BOA 	493 114 0
Programming adapter	<ul style="list-style-type: none"> ■ BOTI ■ BOTE 	507 170 9
Connection and connecting cable	<ul style="list-style-type: none"> ■ BOTI ■ BOTE 	505 473 6

13 Disposal

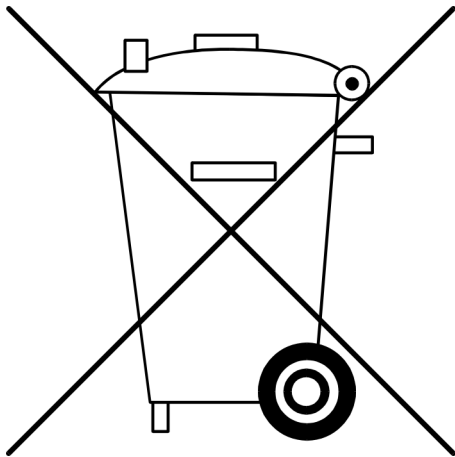


Fig. 158: Disassembly and disposal

**ENVIRONMENT!****Damage to the environment caused by batteries.**

Incorrect disposal can pose a risk to the environment.

- Do not dispose of batteries with normal domestic waste.
- Take to a local recycling collection point or have a waste management firm dispose of batteries.

Prerequisites:

- Cylinders have been dismantled and batteries have been removed.
 - ↪ Chapter 4.1 "Dismount old cylinder" on page 48
 - ↪ Chapter 10.3.1 "Replace the battery in an active key" on page 156
 - All components have been removed from the locking system.
1. ↪ Take batteries to a local recycling collection point or have a waste management firm dispose of them.
 2. ↪ Dispose of cylinders and active keys correctly with electronic waste.
 3. ↪ Dispose of components without batteries or electronic waste in household waste.

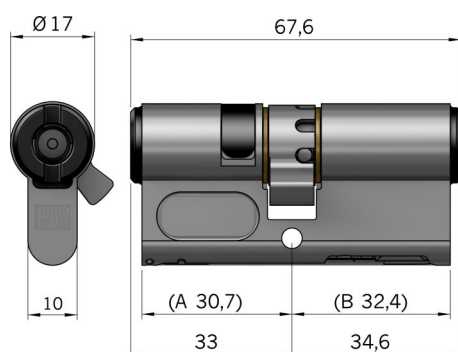
14 Technical specifications

Active key/Masterkey



Battery	Approved CR 2032-1HFE 3 V lithium cell
Operating temperature	
Min.	+5 °C
Max.	+55 °C
Storage temperature	
Min.	-25 °C
Max.	+70 °C
IP protection rating	IP 50

Cylinder type 01 and type 05

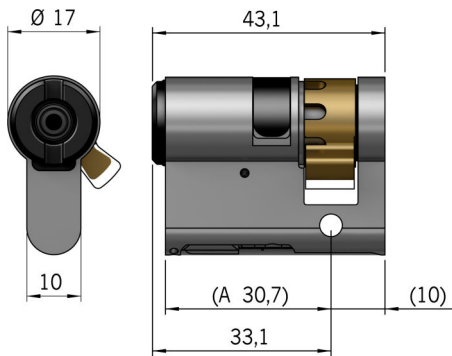


Dimensions	
Basic length	
Outside (A)	30.7 mm
Inside (B)	32.4 mm
Extensions	On both sides, increments of 5 mm
Total length, maximum	180 mm
Cam positions in key with- drawal position	EUR 8

Battery	Contained in the battery replacement set: ☞ <i>"Spare part set"</i> on page 177
Temperature at installation location	
Min.	+5 °C
Max.	+55 °C
IP protection rating	IP 54
VdS environmental class	EUR 2

Technical specifications

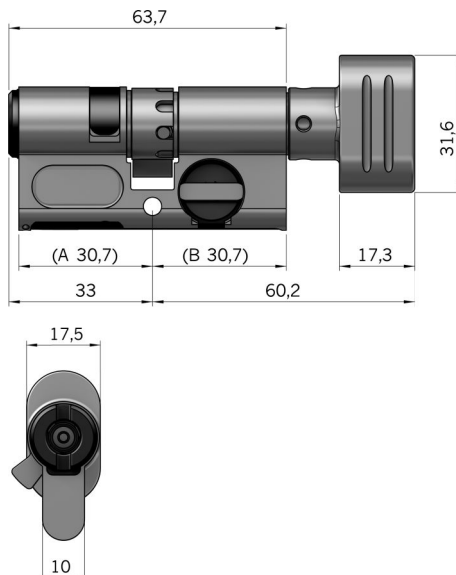
Cylinder type O2



Dimensions	
Basic length	30.7 mm
Extension	On one side, in 5 mm increments
Total length, maximum	80 mm
Cam positions in key with-drawal position	EUR 8

Battery	Contained in the battery replacement set: ↳ "Spare part set" on page 177
Temperature at installation location	
Min.	+5 °C
Max.	+55 °C
IP protection rating	IP 54
VdS environmental class	EUR 2

Cylinder type O4 MK

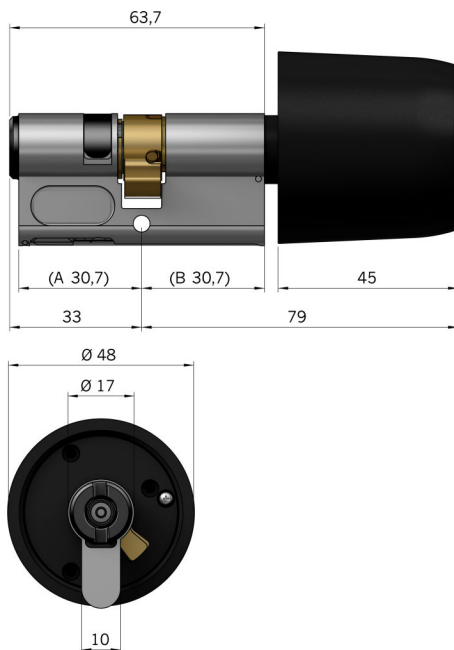


Dimensions	
Basic length	
Outside (A)	30.7 mm
Inside (B)	30.7 mm
Extension	On both sides, increments of 5 mm
Total length, maximum	180 mm
Cam positions in key with-drawal position	EUR 8

Battery	Contained in the battery replacement set: ↳ "Spare part set" on page 177
Temperature at installation location	

Min.	+5 °C
Max.	+55 °C
IP protection rating	IP 54
VdS environmental class	EUR 2

Cylinder type 04

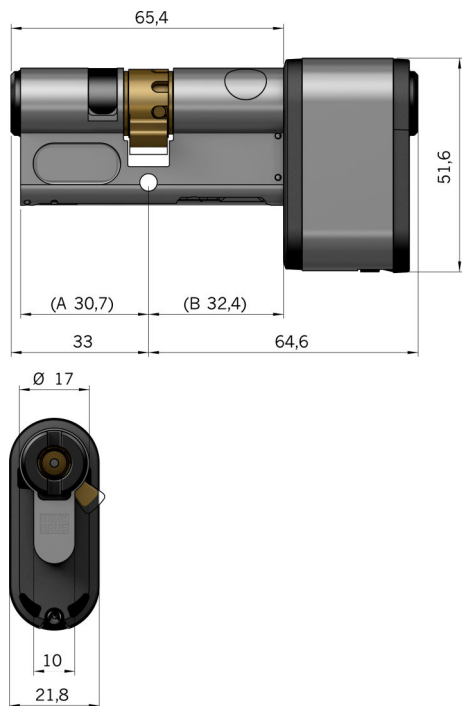


Dimensions	
Basic length	
Outside (A)	30.7 mm
Inside (B)	30.7 mm
Extension	On both sides, increments of 5 mm
Total length, maximum	180 mm
Cam positions in key withdrawal position	EUR 8

Battery	Contained in the battery replacement set: ↳ "Spare part set" on page 177
Temperature at installation location	
Min.	-25 °C
Max.	+65 °C
IP protection rating	IP 54
VdS environmental class	EUR 3

Technical specifications

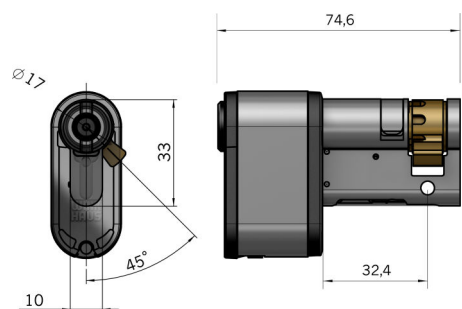
Cylinder type 21



Dimensions	
Basic length	
Outside (A)	30.7 mm
Inside (B)	32.4 mm
Extensions	On both sides, increments of 5 mm
Total length, maximum	180 mm
Cam positions in key with-drawal position	EUR 8

Battery	Contained in the battery replacement set: ↳ "Spare part set" on page 177
Temperature at installation location	
Min.	-25 °C
Max.	+65 °C
IP protection rating	IP 67
VdS environmental class	EUR 4

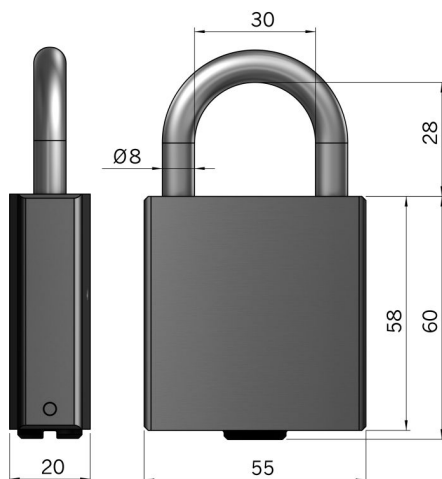
Cylinder type 22



Dimensions	
Basic length	
Extension	On one side, in 5 mm increments
Total length, maximum	80 mm
Cam positions in key with-drawal position	EUR 8

Battery	Contained in the battery replacement set: ↳ “Spare part set” on page 177
Temperature at installation location	
Min.	-25 °C
Max.	+65 °C
IP protection rating	IP 67
VdS environmental class	EUR 4

Padlock type 85



Dimensions	
Height	60 mm
Width	55 mm
Shackle height clearance	28 mm

Battery life

The battery lives specified refer to a release interval of 5 seconds at room temperature and ideal storage conditions. The battery life may vary, depending on the operating conditions.

At temperatures under 5 °C, the power of the installed batteries can reduce significantly even without a cylinder locking operation. In this case, it may no longer be possible to close the cylinder with a passive key.

■ ↳ Chapter 2.8 “Dangers to material goods” on page 37



You can use the app to determine the battery charge status in individual components.

↳ on page 124

Active keys also signal when batteries need replacing on the LED display.

↳ Chapter 1.2.1 “Active keys” on page 16

Technical specifications

Type 01	Up to 10,000 locking operations or up to 6 years on stand-by
Type 02	Up to 10,000 locking operations or up to 6 years on stand-by
Type 04 MK	Up to 10,000 locking operations or up to 6 years on stand-by
Type 05	Up to 10,000 locking operations or up to 6 years on stand-by
Type 85	Up to 10,000 locking operations or up to 6 years on stand-by
Type 04	Up to 120,000 locking operations or up to 10 years on stand-by
Type 21	Up to 120,000 locking operations or up to 10 years on stand-by
Type 22	Up to 120,000 locking operations or up to 10 years on stand-by

Active key/ Masterkey	30,000 locking operations as a user key or up to 4 years on standby
--------------------------	---

Fire resistance class

The locking system cylinders are suitable for installation in T30 - T90 resistance class fire doors.

Reader BOTI

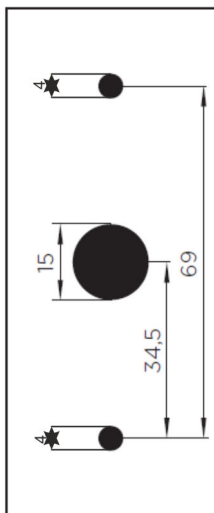
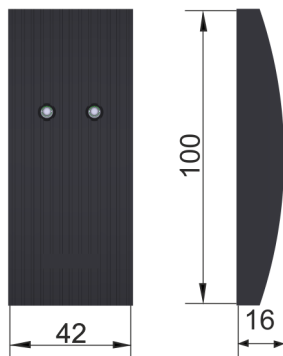


Fig. 159: Drilling pattern of the reader

Operating temperature at installation site	
Min.	0 °C
Max.	+50 °C
Supply voltage on V1 and V2	
	7 V to 25 V DC
	10 V to 18 V AC, 50 Hz
Maximum current consumption at 12 V DC	200 mA
Low Power Source	
Max.	8 A
Max.	100 VA
Switching current	Max. 1.5 A @ +20 °C

Switching voltage	Max. 30 V DC or 20 V AC, 50 Hz
IP protection rating	IP 54
read distances	Classic: 10 mm



Reader BOTE

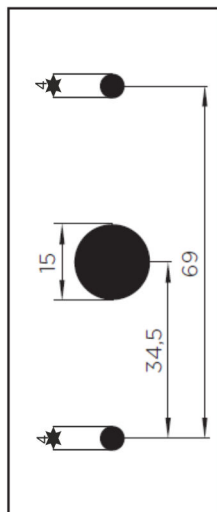


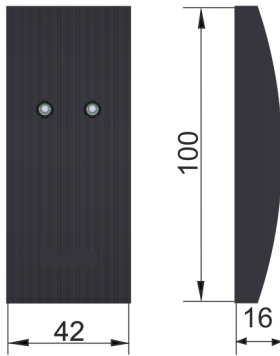
Fig. 160: Drilling pattern of the reader unit

Dimensions	
Height	100 mm
Width	42 mm
Maximum depth	16 mm

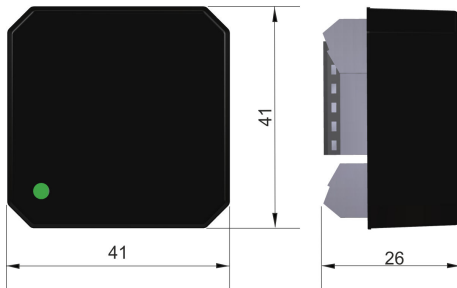
Operating temperature at installation site of the control unit	
Min.	0 °C
Max.	+50 °C
Operating temperature at installation site of the reader unit	
Min.	-25 °C
Max.	+70 °C
Supply voltage on V1 and V2	
	7 V to 25 V DC
	10 V to 18 V AC, 50 Hz
Maximum current consumption at 12 V DC	200 mA
Low Power Source	
Max.	8 A
Max.	100 VA
Switching current	Max. 1.5 A @ +20 °C
Switching voltage	Max. 30 V DC or 20 V AC, 50 Hz

Technical specifications

IP protection rating of the reader unit	IP 54
read distances	Typical: 10 mm



Dimensions reader unit	
Height	100 mm
Width	42 mm
Maximum depth	16 mm



Dimensions control unit	
Height	41 mm
Width	41 mm
Maximum depth	26 mm

Standards

Winkhaus access control systems are developed and produced in accordance with the applicable European standards for access control systems.

Standard	Short description
EN 50133-1	Functional requirements
EN 50133-7	Planning rules

Aug. Winkhaus GmbH & Co. KG hereby declares that the device complies with the fundamental requirements and other relevant regulations of directive 2014/53/EU. The extended version of the EU declaration of conformity is available at:

<https://www.winkhaus.com/de-de/eu-konformitaetserklaerungen>

15 Privacy Policy

1. General

We take the protection of your personal data very seriously and treat it in a confidential manner and in accordance with the statutory data protection regulations and this Privacy Policy. This Privacy Policy applies to our mobile iPhone and Android apps (hereafter "APP"). It explains the nature, purpose and scope of data collection during APP use. We point out that data transmission over the internet can have security breaches. A complete protection of the data prior to access by third parties is not possible.

Responsible body

The responsible body for data processing in the context of this APP is:

Aug. Winkhaus GmbH & Co. KG

August- Winkhaus- Straße 31

48291 Telgte

E-mail: info@winkhaus.de

Website: www.winkhaus.de

Tel.: +49 2504 921 0

Fax: +49 2504 921

"Responsible body" is the entity that collects, processes or uses personal data (e.g. names, e-mail addresses, etc.).

Data Protection Officer

Our Data Protection Officers can be reached at:

Aug. Winkhaus GmbH & Co. KG

August- Winkhaus- Straße 31

48291 Telgte

E-mail: datenschutz@winkhaus.de

Tel.: +49 2504 921 203

Fax: +49 2504 921 354

General storage duration of personal data

Unless otherwise specified or specified in this Privacy Policy, the personal information collected by this APP will be retained until you request that we delete it, revoke your consent to store it or omit you from the purpose of said data storage. If there is a legal obligation to store data or any other legally justified reason for storing the data (e.g. legitimate interest), the personal data concerned will not be deleted before the respective reason for data storage ceases.

Legal basis for the storage of personal data

The processing of personal data is only permitted if there is an effective legal basis for the processing of such data. If we process your data, this is done on a regular basis based on your consent according to Article 6 (1a) DSGVO (Data Protection Act) (e.g. if your data is entered voluntarily in the registration form or within the contact form), for the purpose of contractual fulfilment pursuant to Article 6 (1b) DSGVO (Data Protection Act) (e.g. when using in-app purchases or the use of other fee-based APP functions) or due to legitimate interests according to Article 6 (1f) DSGVO (Data Protection Act), which are always balanced with your interests (e.g. as part of advertising measures). The relevant legal bases may be specified in a separate place within the framework of this Privacy Policy.

Encryption

This APP uses encryption for security purposes and to protect the transmission of sensitive content, such as requests you send to us as an APP operator, or communication between APP users. This encryption prevents the data you submit from being read by unauthorised third parties.

Modifications to this Privacy Policy

We reserve the right to change this Privacy Policy at any time in accordance with legal requirements.

2. Your rights

For persons whose personal data is processed by us, the DSGVO (Data Protection Act) grants them with certain rights, which we would like to inform you of at this point:

Revocation of your consent to data processing

Many data processing operations are only possible with your consent. Consent will be obtained from us before the start of data processing. You can revoke this consent at any time. An informal message sent to us by e-mail is sufficient. The legality of the data processing operations carried out until the point of revocation remains unaffected by the revocation.

Right to object to data collection in special cases and with regard to direct advertising (Article 21 DSGVO (Data Protection Act)) If the data processing on the basis of Article 6 (1e or f) DSGVO (Data Protection Act), they have the right at any time, for reasons arising from their particular situation, to object to the processing of personal data concerning them; this also applies to profiling based on these provisions. the respective legal basis on which processing is based, included in this Privacy Policy. If you object, we will no longer process the personal data we have collected, unless we can demonstrate compelling legitimate grounds for processing it that outweigh your interests, rights and freedoms, or that serve to process the assertion, exercise or defence of legal claims , if your personal data is processed for the purposes of direct advertising, you have the right to

object at any time to the processing of your personal data for the purpose of such advertising; this also applies to profiling insofar as it is associated with such direct advertising. If you object, your personal data will no longer be used for the purposes of direct advertising.

Right of appeal to a supervisory authority

In the case of violations of the DSGVO (Data Protection Act), the persons concerned have a right of appeal to a supervisory authority. The right of appeal is without prejudice to any other administrative or judicial remedies.

Information, deletion and correction

You have the right to free information about your stored personal data, its origin and recipients and the purpose of the data processing, as well as a right to correct or deletion of this data. For more information on personal data you can contact us at any time at the address given in the imprint.

Right to restriction of processing

You have the right to request the restriction of the processing of your personal data. You can contact us at any time at the address given in the imprint. The right to restrict processing exists in the following cases:

- If you deny the accuracy of your personal information stored with us, we usually need time to verify this. For the duration of the verification, you have the right to request the restriction of the processing of your personal data.
- If the processing of your personal data is unlawful, you may request the restriction of data processing instead of its deletion.
- If we no longer need your personal data, but you need it in order to exercise, defend or enforce legal claims, you have the right to demand that your personal data be restricted instead of being deleted.
- If you have filed an objection pursuant to Article 21 (1) DSGVO (Data Protection Act), a balance must be established between your interests and our own. As long as it is not clear whose interests prevail, you have the right to demand the restriction of the processing of your personal data.

If you have restricted the processing of your personal data, this data may only be used with your consent - except for its storage - for the purposes of the assertion, exercise or defence of legal claims or to protect the rights of another natural or legal person or for reasons of important public interest of the European Union or a Member State.

Right to data portability

With regard to data that we process on the basis of your consent or in the context of contractual fulfilment, you have the right to have said data transferred to yourself or a third party in a standard, machine-readable format. If you require the direct transfer of data to another responsible person, this will only be done to the extent that it is technically feasible.

3. Access rights of the APP

In order to provide our services through the APP, we hereby inform you that we do not require access to your device.

4. Collection of personal data in the context of APP use

General

When you use our APP, we collect the following personal data from you:

- E-mail address (stored in the master, Winkhaus has no access to it).
- Bluetooth ID of the master is stored on the smartphone.

The processing of this personal data is necessary in order to ensure the APP functionality. The legal basis for this data processing is our legitimate interest within the meaning of Article 6 (1f) DSGVO (Data Protection Act), your consent within the meaning of Article 6 (1a) DSGVO (Data Protection Act) or - if a contract has been entered into - the fulfilment of our contractual obligations (Article 6 (1b) DSGVO (Data Protection Act)).

The storage period for the data acquired as a result is regulated as follows: E-mail address is stored in the master and can be deleted at any time.

Enquiries made within the APP, by e-mail, telephone or fax

If you contact us (e.g. using the contact form within the app, by e-mail, telephone or fax), your enquiry, including all resulting personal data (e.g. name, enquiry, asset number) is stored and processed by us for the purpose of processing your request. The processing of this data is based on Article 6 (1b) DSGVO (Data Protection Act), if your enquiry is related to the fulfilment of a contract or if it is necessary to carry out pre-contractual measures. In all other cases, the processing is based on your consent (Article 6 (1a) DSGVO (Data Protection Act)) and/or on our legitimate interests (Article 6 (1f) DSGVO (Data Protection Act)), since we have a legitimate interest in the effective processing of enquiries that are addressed to us. The data sent by you to us using the contact form remains with us until you ask us for its deletion, revoke your consent to storage or the purpose for the data storage is omitted (e.g. after completion of your enquiry). Mandatory statutory provisions - in particular statutory retention periods - remain unaffected. We will not share your information without first obtaining your consent.

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