PinCode Keypad (offline)

Manual

31.08.2020

SimonsVoss technologies

Contents

1 General safety instructions

Signal word (ANSI Z535.6)	Possible immediate effects of non-compliance
DANGER	Death or serious injury (likely)
WARNING	Death or serious injury (possible, but unlikely)
CAUTION	Minor injury
IMPORTANT	Property damage or malfunction
NOTE	Low or none

WARNING

Blocked access

Access through a door may stay blocked due to incorrectly fitted and/or incorrectly programmed components. SimonsVoss Technologies GmbH is not liable for the consequences of blocked access such as access to injured or endangered persons, material damage or other damage!

Blocked access through manipulation of the product

If you change the product on your own, malfunctions can occur and access through a door can be blocked.

- Modify the product only when needed and only in the manner described in the documentation.

CAUTION

Fire hazard posed by batteries

The batteries used may pose a fire or burn hazard if handled incorrectly.

1. Do not try to charge, open, heat or burn the batteries.
2. Do not short-circuit the batteries.

IMPORTANT

Damage resulting from electrostatic discharge (ESD)

This product contains electronic components that may be damaged by electrostatic discharges.

1. Use ESD-compliant working materials (e.g. Grounding strap).
2. Ground yourself before carrying out any work that could bring you into contact with the electronics. For this purpose, touch earthed metallic surfaces (e.g. door frames, water pipes or heating valves).

Damage resulting from liquids

This product contains electronic components that may be damaged by liquids of any kind.

- Keep liquids away from the electronics.

Damage resulting from aggressive cleaning agents

The surface of this product may be damaged as a result of the use of unsuitable cleaning agents.

- Only use cleaning agents that are suitable for plastic or metal surfaces.

Damage as a result of mechanical impact

This product contains electronic components that may be damaged by mechanical impacts of any kind.

1. Avoid touching the electronics.
2. Avoid other mechanical influences on the electronics.

Damage due to polarity reversal

This product contains electronic components that may be damaged by reverse polarity of the power source.

- Do not reverse the polarity of the voltage source (batteries or mains adapters).

Failure of operation due to different discharged batteries

This product uses one or more batteries for power supply. The batteries are discharged at approximately the same rate.

- Always replace all batteries at the same time.

Operational malfunction due to radio interference

This product may be affected by electromagnetic or magnetic interference.

- Do not mount or place the product directly next to devices that could cause electromagnetic or magnetic interference (switching power supplies!).

Communication interference due to metallic surfaces

This product communicates wirelessly. Metallic surfaces can greatly reduce the range of the product.

- Do not mount or place the product on or near metallic surfaces.

NOTE

Intended use

SimonsVoss-products are designed exclusively for opening and closing doors and similar objects.

- Do not use SimonsVoss products for any other purposes.

Battery contact malfunction due to grease film

When touching batteries, leave a thin film of skin grease on the batteries. This film deteriorates the contact between the electronics and the batteries.

1. Do not touch the contacts of the new batteries with your hands.
2. Use clean and grease-free gloves.

Dispose of the batteries as per local and country-specific regulations.

Function error due to poor battery contact

If the contact surface to the battery is too small, then the battery connection may not create a stable connection to the battery.

- Only use batteries that are approved by SimonsVoss.

Qualifications required

The installation and commissioning requires specialized knowledge.

- Only trained personnel may install and commission the product.

Modifications or further technical developments cannot be excluded and may be implemented without notice.

The German language version is the original instruction manual. Other languages (drafting in the contract language) are translations of the original instructions.

Read and follow all installation, installation, and commissioning instructions. Pass these instructions and any maintenance instructions to the user.

2 Product-specific safety instructions

IMPORTANT

Master PIN loss

The Master PIN is an essential, integral part of the security concept. No more administrative changes can be made to the device if the Master PIN is lost.

1. Keep the Master PIN in a safe place.
2. Make the Master PIN visible for authorized persons at any time.

3 General information

3.1 Intended use

The PIN code keypad can be used to activate SimonsVoss locking devices *such as locking cylinders, SmartHandles or SmartRelays,* by entering a numerical code.

The PIN code keypad is integrated into the locking system using the corresponding locking system software.

- The PIN code keypad can store up to 3 User PINs, which can be regarded as 3 separate transponders.
- User PINs may contain between 4 and 8 characters.
- You can configure User PINs directly on the PIN code keypad by entering the Master PIN first.

4 How it works

The PIN code keypad is a digital key that opens SimonsVoss locking devices via radio once the correct PINs have been entered. The PIN code keypad uses one of the three integrated transponders for this purpose.

To configure the system, at least one PIN must be programmed (see *Programming PINs [▸ 13]*)) and the associated integrated transponder must be programmed to match the desired locking device (see *Programming the transponders [▸ 16]*).

The PIN code keypad is IP65 protected and therefore also suitable for outdoor use. Due to the battery supply, it can be installed wirelessly independently of existing power connections. It can be programmed with the LSM software and used seamlessly in the System 3060.

4.1 Overview

The PIN code keypad consists of two components:

- PIN code input field with evaluation
- Integrated transponders

If the PIN entered in the input field is recognised as correct, the input field triggers the corresponding integrated transponder.

With the PIN code keypad, you can operate all SimonsVoss locking devices (such as SmartRelays, cylinders, SmartHandles and activation units, etc.) with the PIN code keypad at any time. You can create up to three independent user groups. If you carry out a reprogramming that only affects one user group, you only have to inform this user group.

If you use SimonsVoss locking devices with ZK function (access and time zone control), you can also grant a person or user group temporary rights to the locking device. You can also log which PIN was used when to operate a locking device.

You can operate the same locking device with different User PINs. Since you give each user group a different User PIN, you can grant the user groups different access rights.

Conversely, it is not possible to control different locking devices with the same PIN code keypad via different User PINs, as the signal is sent to all locking devices simultaneously. This does not ensure that the locking device that matches the User PIN entered is addressed. In this case, the locking device is not operated although the correct User PIN has been entered.

4.2 Operating modes

The PIN code keypad differentiates between four operating modes.

Status	Explanation
Standby	Sleep mode. The PIN code keypad consumes very little energy.
Opening	Active mode. The PIN code keypad checks the input and, if the input is correct, actuates the locking device via radio (see *How it works [▸ 8]* and *Operation [▸ 9]*).
Programming	PIN programming: The individual PINs (max. three) are programmed/ reset directly via the keyboard (see PIN programming). *Programming PINs [▸ 13]*).
	Transponder programming: The associated integrated transponders (max. three) are programmed/reset via the LSM software (see *Programming the transponders [▸ 16]*).
Battery warning	Low battery. A two-stage battery warning system signals you in good time when you need to change the battery (see *Signal [▸ 21]* und *Battery replacement [▸ 23]*).

NOTE

Locked programming with low battery

If the battery warning is active, you cannot change the programming of the PIN code keypad. You cannot change or delete any User PIN.

1. Replace the batteries (see *Battery replacement [▸ 23]*).
2. Perform the desired change.

4.3 Operation

Once you have put the PIN code keypad into operation and programmed it, the PIN code keypad, together with a SimonsVoss locking device, forms a so-called "mental lock" in System 3060.

You programme the PINs directly on the PIN code keypad, while you programme the integrated transponders with the LSM software and thus integrate them into the System 3060.

4.3.1 Opening

You open the locking device to which the integrated transponder has been assigned as follows:

✓ At least one PIN programmed.
✓ At least one integrated transponder assigned to the locking device.

- Enter a previously programmed PIN.

NOTE

Duration of input

A too long period of time between the entries terminates the entry.

- Enter the digits less than five seconds apart.

  ↳ If you have entered a correct PIN, the PIN code keypad signals with two green flashes and beeps that the entry was correct.

↳ Integrated transponder activates the locking device.

5 Initial operation

Initial operation is performed in three steps.

1. Change the master PIN (see *Changing of the Master PIN [▸ 12]*).
2. Programme one or more PINs (see *Programming PINs [▸ 13]*).
3. Authorise the assigned transponders on the locking device (*Programming the transponders [▸ 16]*).

6 PINs

The PIN code keypad distinguishes between one Master PIN and up to three User PINs. With the Master PIN it is possible to make changes to the programming of the PIN code keypad, with the User PINs it is possible to operate the assigned locking device.

NOTE

Enter the numbers consecutively. The PIN code keypad only signals the pressing of the keys, but not completion of the individual steps in the process.

Cancellation of actions

All actions can be cancelled by not making any further inputs. The PIN code keypad will cancel the action after a waiting period.

Battery warning locks programming

If one of the two battery warning levels is active, the programming cannot be changed.

1. Replace the batteries (see *Battery replacement [▸ 23]*).
2. Change the programming as required.

6.1 Changing of the Master PIN

The Master PIN is only used to change the programming on the PIN code keypad. You cannot operate any locking devices with the Master PIN.

IMPORTANT

Master PIN loss

The Master PIN is an essential, integral part of the security concept. No more administrative changes can be made to the device if the Master PIN is lost.

1. Keep the Master PIN in a safe place.
2. Make the Master PIN visible for authorized persons at any time.

You only have to change the Master PIN during initial operation, after which the change is optional.

1. Enter the number sequence 0000.
2. Enter the old Master PIN (factory setting: 12345678).
3. Enter the new Master PIN.

NOTE

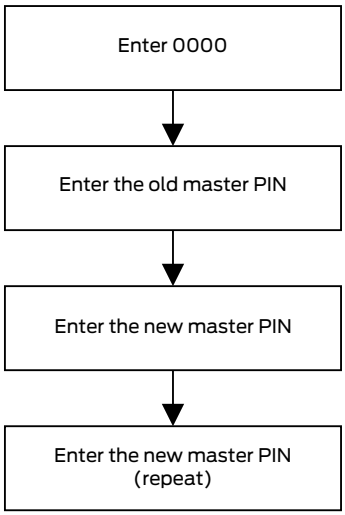
Requirements for the Master PIN

The Master PIN must be secure. It must therefore meet the following requirements.

1. The Master PIN must consist of eight characters.
2. The digits of the Master PIN must not be consecutive.
3. The Master PIN must not begin with 0.

4. Enter the new Master PIN again.
   ↳ PIN code keypad beeps and flashes green twice.

↳ Master PIN is changed.



6.2 Programming PINs

You can programme up to three User PINs in the PIN code keypad.

Each User PIN behaves like its own transponder. The individual User PINs must therefore be programmed separately in the respective transponders.

If you do not want to use all User PINss, leave them unprogrammed.

1. Enter the number sequence 0.
2. Enter the Master PIN.
3. Enter the number of the User PIN (for example, 1 for User PIN no. 1).
4. Specify the number that determines the length of the User PIN (for example, 4 for a four-digit User PIN).
5. Enter the new User PIN.

NOTE

Requirements for the User PIN

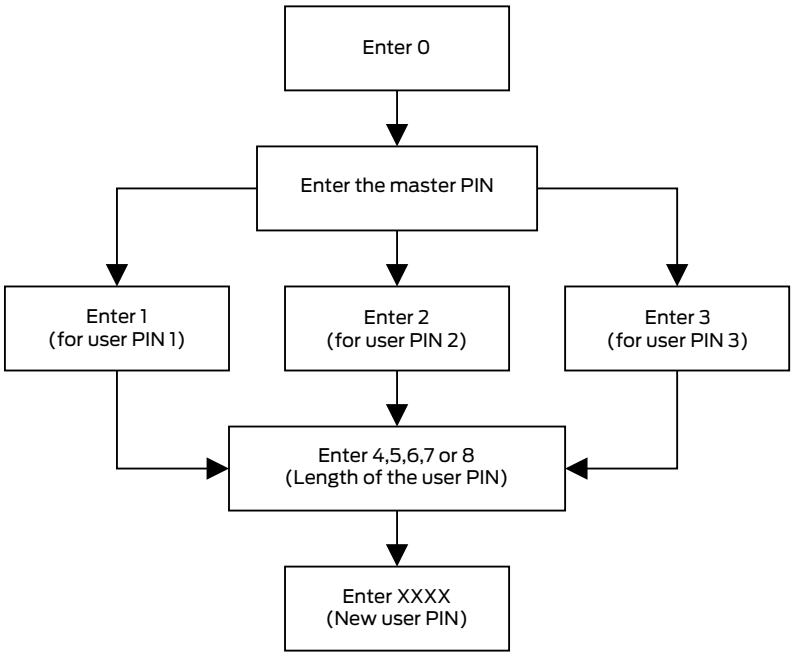
The User PIN must be secure. It must therefore meet the following requirements:

1. The User PIN must consist of four to eight characters.
2. The digits of the User PIN must not be consecutive.
3. The digits of the User PIN may not be identical.
4. The User PIN must not begin with 0.
5. The User PINs may not be identical.

↳ PIN code keypad beeps and flashes green twice.

↳ User PIN is programmed.

Repeat the process to programme other User PINs in the PIN code keypad.



6.3 Deleting PINs

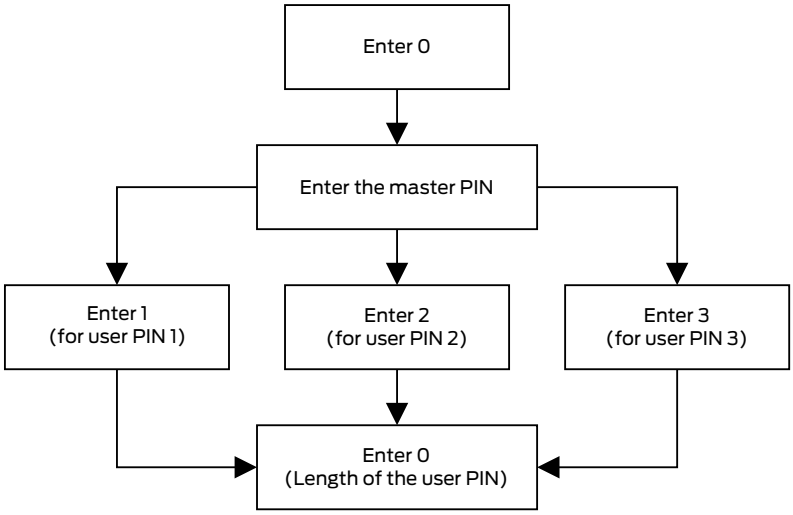
You can delete a User PIN by setting the length of the User PIN to zero.

1. Enter the number sequence 0.
2. Enter the Master PIN.
3. Enter the number of the User PIN (for example, 1 for User PIN no. 1).
4. Specify the number that determines the length of the User PIN (0 in this case).
   ↳ PIN code keypad beeps and flashes green twice.

↳ User PIN is deleted.

Deleted User PINs can no longer be used to operate the locking device.

If you do not want to use all User PINss, leave them unprogrammed.



7 Transponder

Each User PIN is assigned to one of the three integrated transponders. If you want to use and differentiate between the different User PINs, you must programme the integrated transponders individually (see *Programming the transponders [▸ 16]*).

Each of the three integrated transponders has its own transponder ID (TID). This TID is stored in the locking device when a ZK (access and time control) locking device is activated. This allows you to see which PIN operated which locking device and when.

NOTE

Enter the numbers consecutively. The PIN code keypad only signals the pressing of the keys, but not completion of the individual steps in the process.

Cancellation of actions

All actions can be cancelled by not making any further inputs. The PIN code keypad will cancel the action after a waiting period.

Battery warning locks programming

If one of the two battery warning levels is active, the programming cannot be changed.

1. Replace the batteries (see *Battery replacement [▸ 23]*).
2. Change the programming as required.

7.1 Programming the transponders

Each PIN is assigned to one of the three integrated transponders.

PIN	Transponder
User PIN 1	Transponder 1
User PIN 2	Transponder 2
User PIN 3	Transponder 3

NOTE

No access due to incorrect assignment

If you do not observe the assignment, a user may not be able to use their User PIN.

1. When programming, select the correct number of the corresponding User PIN!
2. Check the assignment after programming by activating a locking device (see *Opening [▸ 10]*).

Create entry for the User PIN

1. In the LSM software (same locking plan), click on the button New transponder .
   ↳ The window "New transponder" opens.
2. In the dropdown menu ▼ Type select the entry "G1 Pin code".
3. Click on the OK button.
   ↳ Window closes.

↳ The entry for User PIN is created.

Repeat these steps for all other User PINs that you want to create.

Programming PIN code keypad

1. Select the User PIN entry in the matrix.
2. Open the context menu by right-clicking on the entry of the User PIN in the matrix.
3. Select the context menu entry Programming.
   ↳ The window "Transponder Programming" opens.
4. Enter the number sequence 00.
5. Enter the Master PIN.
6. Click on the Programming button.
7. Enter the number of the User PIN (for example, 1 for User PIN no. 1).

NOTE

Radio error

If you hold the transponder too close to the programming device or activate the transponder too early, the radio link cannot be established.

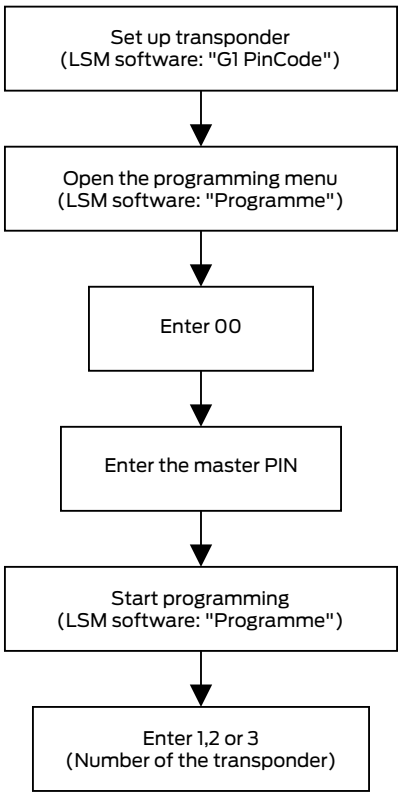
1. Keep a distance of about 20 cm!
2. Do not activate the transponder until you are prompted in the LSM software to press the transponder button.

   ↳ Programming is performed.
   ↳ PIN code keypad beeps and flashes green twice.

↳ "Programming successful" window is displayed.
↳ User PIN was linked to the entry in the matrix.

Repeat the programming for all other User PINs that you want to assign.

If you do not want to use all User PINss, leave them unprogrammed.



7.2 Reading out the transponders

You can read out the integrated transponders.

1. Click the button Read transponder.
   ↳ The window "Programming" opens.
2. Enter the User PIN whose transponder you want to read out.

NOTE

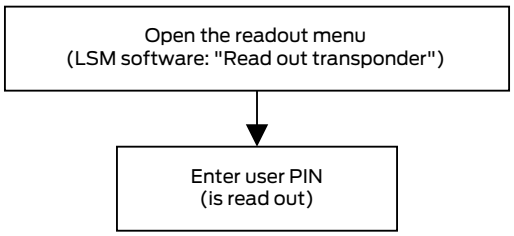
Radio error

If you hold the transponder too close to the programming device or activate the transponder too early, the radio link cannot be established.

1. Keep a distance of about 20 cm!
2. Do not activate the transponder until you are prompted in the LSM software to press the transponder button.

   ↳ The transponder is read out.
   ↳ PIN code keypad beeps and flashes green twice.

↳ The window "Read transponder data" opens.



7.3 Resetting transponders

You can reset the integrated transponders at any time using the LSM software.

1. Read out the transponder that you want to reset (see *Reading out the transponders [▸ 18]*).
2. Enter the number sequence 00.
3. Enter the Master PIN.
4. Click on the Reset button.
   ↳ The window "LockSysMgr" opens.
5. Click on the Yes button.
   ↳ Window closes.
6. Enter the number of the User PIN (for example, 1 for User PIN no. 1).
   ↳ PIN code keypad beeps and flashes green twice.

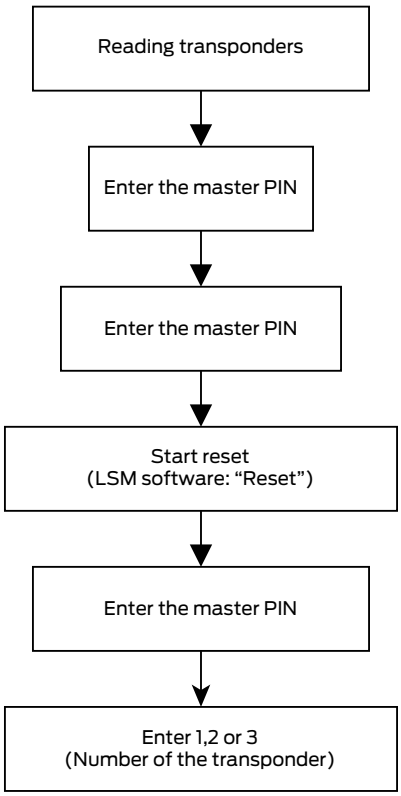
NOTE

Radio error

If you hold the transponder too close to the programming device or activate the transponder too early, the radio link cannot be established.

1. Keep a distance of about 20 cm!
2. Do not activate the transponder until you are prompted in the LSM software to press the transponder button.

↳ The window "Programming" opens.
↳ The transponder is reset.


Reading transponders
Enter the master PIN
Enter the master PIN
Start reset
(LSM software: “Reset”)
Enter the master PIN
Enter 1,2 or 3
(Number of the transponder)

8 Signal

LED flashing	beeper	Meaning	Cause
1 x green, short	1×	Number entry	You have entered a number.
2 x green, short	2×	Transponder, active	You have entered a correct PIN.
		Programming successful	You have successfully programmed an integrated transponder.
		Reset successful	You have successfully reset an integrated transponder.
		Master PIN changed	You have successfully changed the Master PIN.
1× red, long	1× long	Incorrect entry	You have entered an incorrect User PIN or the incorrect Master PIN.
Yellow (1 Hz)	beeping (1 Hz) Duration: 10 s	Battery Warning Level 1	The batteries PIN code keypad are low. The PIN code keypad operates the locking device only after a delay of ten seconds. Replace the batteries (see *Battery replacement [▸ 23]*). Changes to the programming are no longer possible until the battery is changed.

LED flashing	beeper	Meaning	Cause
Yellow (1 Hz)	beeping (1 Hz) Duration: 20 s	Battery Warning Level 2	The batteries PIN code keypad are very low. The PIN code keypad operates the locking device only after a delay of twenty seconds. Change the batteries immediately (see *Battery replacement [▸ 23]*), otherwise the PIN code keypad may not function. Changes to the programming are no longer possible until the battery is changed.
Red (1 Hz)	beeping (1 Hz) Duration: 60 s	Multiple incorrect entry	You have entered an incorrect User PIN or the incorrect Master PIN multiple times. The PIN code keypad beeps and flashes red for 60 seconds. You cannot make any entries during this time. Then enter a correct User PIN or one that Master PIN.

9 Battery replacement

To change the batteries, you must open the housing of the PIN code keypad. For this you need a Torx screwdriver size 6 (not included in delivery)!

IMPORTANT

Damage to the electronics due to fluids or static discharge

Do not touch electronics/components; do not allow them to come into contact with oil, paint, moisture, alkali or acids.

NOTE

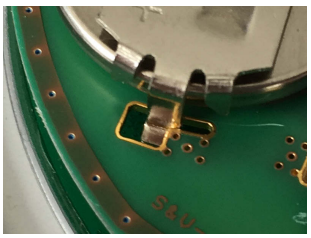
Do not touch the contacts on the new batteries with your hands when replacing the old ones. Use cotton gloves free of fat or grease.

1. Unscrew the two screws in the bottom of the housing completely.
2. Remove the front of the housing.
3. Using a screwdriver, slide one side of the battery brackets into the designated opening.

IMPORTANT

The spring tension of the clamps causes the clamps to jump out.

The clamps are under tension. They can jump out and get lost when you release them.



4. Remove the battery.
5. Remove all other batteries in the same way.

NOTE

All batteries are discharged at approximately the same rate. Therefore, replace all batteries at the same time.

6. Insert the new batteries with the positive pole facing upward (Murata, Panasonic or Varta CR2032 (3V) batteries).

7. Carefully hook the battery clips back into the circuit board.
8. Replace the front of the housing.
9. Screw the two screws back in the bottom of the housing completely.

↳ The batteries have been replaced.

10 Special functions

10.1 Double-click simulation (block lock operation on block lock 3066)

You can use the PIN code keypad for activating SimonsVoss activation units (VdS block lock 3066). If a correct PIN has been entered, the activation unit is addressed. The block lock then activates or deactivates the alarm system. You can meet the requirements of VdS Class C to SG6 with the integration of a so-called mental lock.

The VdS-certified SimonsVoss activation units require a double opening protocol for activation/deactivation (= double click if a transponder is to be used to activate or deactivate). The PIN code keypad can simulate this double-click and thus perform activation/deactivation operations. The double-click simulation is not activated by default.

For this, you must mount the PIN code keypad within the transmitting range of the activation unit. You can then activate the double-click simulation.

IMPORTANT

Malfunctions due to double-click simulation

The double-click simulation is only intended for operation with a Simons-Voss 3066 block lock. It may cause other components to malfunction.

- Only activate the double-click simulation if you are using a SimonsVoss 3066 block lock!

NOTE

Cancellation of actions

All actions can be cancelled by not making any further inputs. The PIN code keypad will cancel the action after a waiting period.

Enter the numbers consecutively. The PIN code keypad only signals the pressing of the keys, but not completion of the individual steps in the process.

Battery warning locks programming

If one of the two battery warning levels is active, the programming cannot be changed.

1. Replace the batteries (see *Battery replacement [▸ 23]*).
2. Change the programming as required.

Activate double-click simulation

1. Enter the number sequence 000.
2. Enter the Master PIN.

3. Enter the number sequence 92.
   ↳ PIN code keypad beeps and flashes green twice.

↳ Double-click simulation is activated.

Deactivate double-click simulation

1. Enter the number sequence 000.
2. Enter the Master PIN.
3. Enter the number sequence 91.
   ↳ PIN code keypad beeps and flashes green twice.

↳ Double-click simulation is deactivated.

10.2 Other information

The following transponder functions are not available with the PIN code keypad:

- Quasiproximity
- Validity mode
- Expiry mode

11 Technical specifications

Dimensions:	96 mm × 96 mm × 14 mm
Batteries:	2× CR 2032 (3V) *Always replace all batteries with new, approved, brand-name batteries when changing them!*
Approved battery manufacturers:	■ Murata ■ Varta ■ Panasonic
Battery life:	Up to 100,000 operations or up to 10 years on standby
Distance to cylinder:	Max. 20 cm to 40 cm (depending on type)
Distance to Smart-Handle:	Max. 40 cm
Distance to SmartRelay:	Max. 120 cm
Protection class:	IP 65
Operating temperature:	-20 °C to +50 °C
Signal elements:	Different colour LEDs (red, green, yellow) + audible signals
Marking:	PHI number (physical hardware identifier)
Colour (housing):	■ Silver ABS plastic housing similar to RAL 9007 acc. to form. 19900841 ■ semi-transparent rear panel/base plate
Colour (key labelling):	Anthracite grey similar to RAL 7016

Radio emissions		
SRD	24.50 kHz - 25.06 kHz	-20 dBµA/m (10 m distance)

There are no geographical restrictions within the EU.

12 Declaration of conformity

The company SimonsVoss Technologies GmbH hereby declares that article TRA.PINCODE, MK.TRA.PINCODE complies with the following guidelines:

- 2014/53/EU "Radio equipment"
- 2014/30/EU "EMC"
- 2011/65/EU "RoHS"
- 2012/19/EU "WEEE"
- and regulation (EG) 1907/2006 "REACH"

The full text of the EU Declaration of conformity is available at the following internet address: *https://www.simons-voss.com/en/certificates.html*.

CE

13 Help and other information

Information material/documents

You will find detailed information on operation and configuration and other documents under Informative material/Documents in the Download section on the SimonsVoss website (*https://www.simons-voss.com/en/downloads/documents.html*).

Declarations of conformity

You will find declarations of conformity for this product in the Certificate section on the SimonsVoss website (*https://www.simons-voss.com/en/certificates.html*).

Information on disposal

- Do not dispose the device (TRA.PINCODE, MK.TRA.PINCODE) in the household waste. Dispose of it at a collection point for electronic waste as per European Directive 2012/19/EU.
- Recycle defective or used batteries in line with European Directive 2006/66/EC.
- Observe local regulations on separate disposal of batteries.
- Take the packaging to an environmentally responsible recycling point.

Hotline

If you have any questions, the SimonsVoss Service Hotline will be happy to help you on +49 (0)89 99 228 333 (German fixed network; call charges vary depending on the operator).

Email

You may prefer to send us an email.

support-simonsvoss@allegion.com (System 3060, MobileKey)

FAQs

You will find information and help for SimonsVoss products in the FAQ section on the SimonsVoss website (*https://faq.simons-voss.com/otrs/public.pl*).

Address

SimonsVoss Technologies GmbH
Feringastrasse 4
85774 Unterföhring
Germany

This is SimonsVoss

SimonsVoss is a technology leader in digital locking systems.

The pioneer in wirelessly controlled, cable-free locking technology delivers system solutions with an extensive product range for SOHOs, SMEs, major companies and public institutions.

SimonsVoss locking systems unite intelligent functions, optimum quality and award-winning German-made design. As an innovative system provider, SimonsVoss attaches great importance to scalable systems, effective security, reliable components, high-performance software and simple operation.

Our commercial success lies in the courage to innovate, sustainable thinking and action, and heartfelt appreciation of employees and partners. With its headquarters in Unterföhring, near Munich, and its production site in Osterfeld, eastern Germany, the company employs around 300 staff in eight countries.

SimonsVoss is a company in the ALLEGION Group, a globally active network in the security sector. Allegion is represented in around 130 countries worldwide (www.allegion.com).

ALLEGION

SimonsVoss technologies