sygonix®

GB Operating Instructions

RFID/code lock IP66

Item No. 3214306

CE

1 Table of contents

GB

2 Introduction

Thank you for purchasing this product.

For technical queries, please contact: www.conrad.com/contact

3 Downloading the operating instructions

You can download the complete operating instructions (or new/updated versions if available) by using the link www.conrad.com/downloads or by scanning the QR code. Follow the instructions on the website.

4 Intended use

The product is primarily designed to secure access to doors or gates. It has two separate relay outputs (e.g. one for a door and another for a gate of private property) that are controlled independently. They can be controlled either via suitable transponders or numerical codes.

Holding a programmed transponder in front of the code lock or entering a numerical code stored in the system activates one of the two outputs (potential-free changeover contacts); for contact rating, see “Technical data”. In this way, you can control, for example, a door opener.

The product can store information about up to 1010 users. Relay output 1 supports up to 1000 users (numerical codes and/or transponders), and relay output 2 supports up to 10 users (numerical codes or transponders).

Each relay output can be assigned a separate key as an exit key.

You can also connect a door magnet to recognise the door status and a loudspeaker, chime or doorbell to the code lock.

The code lock also features an optical tamper alarm.

The product is designed for use in indoor and outdoor environments (IP66).

Using the product for purposes other than those described above may damage the product. Improper product use can cause a short circuit, fire, electric shock, other hazards.

This product complies with statutory national and European regulations. For safety and approval purposes, you must not rebuild and/or modify the product.

Read the operating instructions carefully and store them in a safe place. Always provide these operating instructions when giving the product to a third party.

5 Features and functions

- Power supply with DC and AC voltage (12 – 24 V)
- Supports up to 1010 users with codes and/or transponders
- Code length 2 to 6 digits
- Supports commercially available EM transponders operating at 125 kHz
- 2 potential-free relay outputs (NO, NC, COM) that can be controlled independently; adjustable activation time
- Suitable for connecting a door magnet
- Suitable for connecting a loudspeaker/chime/doorbell
- Integrated tamper alarm with optical detection
- Housing made of a sturdy die-cast zinc alloy
- Illuminated keypad (blue)
- IP66-rated enclosure suitable for outdoor use

6 Delivery content

- Code lock
- Mounting hardware (4x screws, 4x plugs, 1x hexagon socket screw with matching L-shaped spanner)
- Drill templates
- 2x 1N5399 rectifier diodes
- 2x piezoresistors
- Operating instructions

7 Explanation of symbols

The following symbols appear on the product/device or in the text:

This symbol warns of hazards that can lead to injury.

8 Safety instructions

Read the operating instructions carefully and especially observe the safety information. If you do not follow the safety instructions and information on proper handling, we assume no liability for any resulting personal injury or damage to property. Such cases will invalidate the warranty/ guarantee.

8.1 General information

- This product is not a toy. Keep it out of the reach of children and pets.
- Do not leave packaging material lying around carelessly. It may become a dangerous plaything for children.
- Should you have any questions or concerns after reading this document, please contact our technical support or a professional technician.
- Maintenance, modification and repair work must only be done by a skilled technician or a specialist repair centre.

8.2 Handling

- Please handle the product carefully. Impact, shocks or a fall even from a low height can damage the product.

8.3 Operating environment

- Do not expose the product to any mechanical stress.
- Protect the product from extreme temperatures, strong jolts, flammable gases, vapours and solvents.
- Protect the product from high humidity and moisture.
- Never operate the product in direct proximity to strong magnetic or electromagnetic fields, transmitter aerials or HF generators. Otherwise, the product may not function properly.

8.4 Operation

- Consult an expert when in doubt about the operation, safety or connection of the device.
- If it is no longer possible to operate the product safely, stop using it and prevent unauthorised use. DO NOT attempt to repair the product yourself. Safe operation can no longer be guaranteed if the product:
  - is visibly damaged,
  - is no longer working properly,
  - has been stored in poor ambient conditions for extended periods or
  - has been subjected to any serious transport-related stress.

9 Product overview

9.1 Code lock

A 2 status LEDs
Left LED: green/orange
Right LED: green/orange

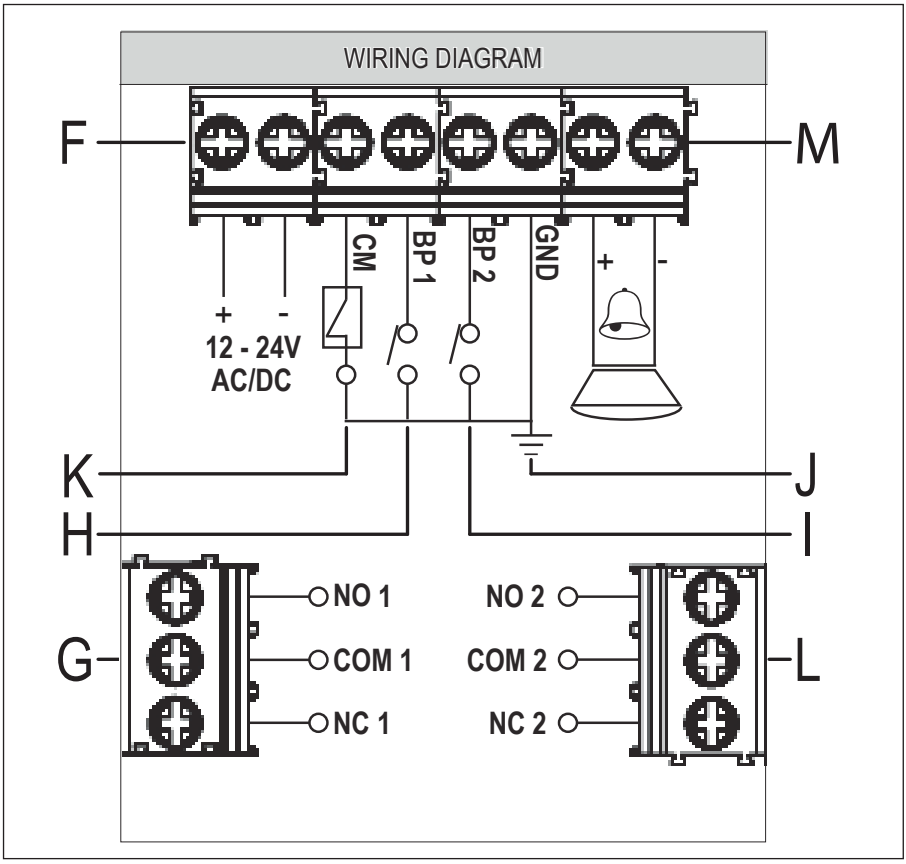
B Keypad

C Star key (can also be used as a bell key)

D RFID sensor

E Hexagon socket screw to secure the code lock to the wall mount

9.2 Wiring diagram



F Power supply 12 – 24 V/DC or AC
for DC: observe the polarity (+/plus and -/minus)
for AC: the polarity is irrelevant

G Relay output #1
COM 1: relay supply
NO 1: is activated when the relay is energised
NC 1: is activated in standby mode

H **BP 1**: relay output #1 key supply (exit key)

I **BP 2**: relay output #2 key supply (exit key)

J **GND**: relay output #1 key/relay output #2 key/door magnet grounding

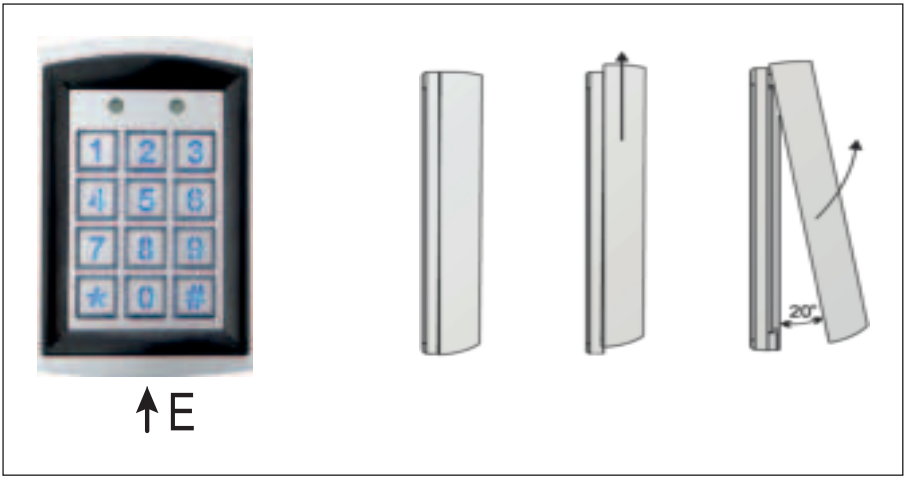
K **CM**: door magnet supply

L Relay output #2
COM 2: relay supply
NO 2: is activated when the relay is energised
NC 2: is activated in standby mode

M Loudspeaker/doorbell/chime wiring
observe the polarity (+/plus and -/minus)

10 Installation and connection

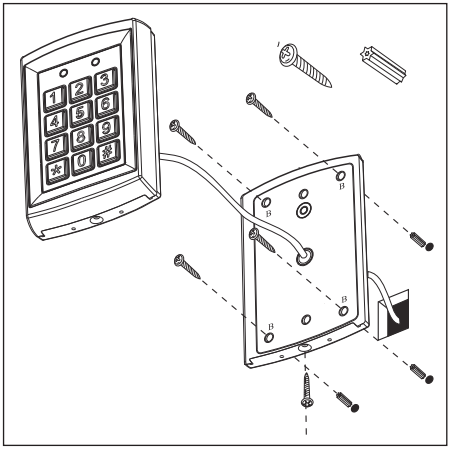
10.1 Preparing for installation



- Use the supplied L-shaped hex key to unscrew the locking screw on the underside of the code lock **(E)**.
- Slide the code lock up and out of the wall mount.
- Remove the code lock from the wall mount.

10.2 Mounting the code lock

- Find a suitable place to install the code lock.
- Stick the drill template to the wall exactly where you want to install the code lock.
- The hole in the centre serves as a cable entry. It must be at least 25 mm in diameter.
- If wall plugs are required for installation (depending on the type of wall used, e.g. masonry), you will also need to drill four external holes. Each of these holes must have a diameter of 6 mm.
- Now fit the wall mount to the wall, using the screws and, if necessary, the wall plugs supplied.



The wall mount must be fitted so that the opening for the locking screw **(E)** faces downwards.

Ensure that no cables or wires are damaged when drilling holes or tightening screws.

You may need to seal the cable entry in the wall after installation.

- Feed the cables through the centre hole.
- Connect the individual cables as per the wiring diagram. You will find the wiring diagram in the next chapter.

When connecting the power supply cables, pay attention to the correct polarity (plus/+ and minus/-). Observe the contact load capacity for all outputs.

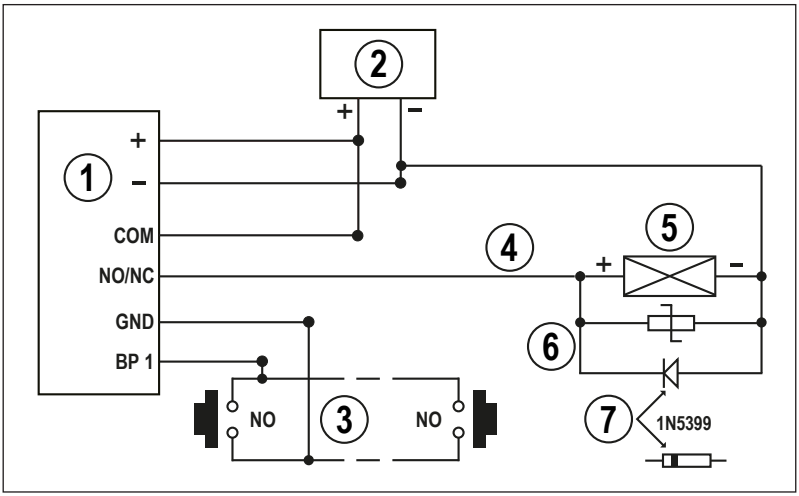
Attention!

Never connect a mains voltage to any of the outputs or terminals on the code lock. There is a risk of fatal electric shock!

- Fit the code lock into the top of the wall mount first and then fold it down. When doing so, ensure that the cable is not pinched.
- Use the locking screw **(E)** you removed earlier to secure the code lock to the wall mount.

10.3 Wiring diagram

Electric door lock/door opener wiring



1 Code lock

2 Power supply (12 – 24 V/DC or AC)

3 Door opener key in the home, exit key, etc.; if necessary, connect several keys in parallel; connection to "**BP 1**" **(H)** or "**BP 2**" **(I)** depending on the relay output used; connection to "**GND**" **(J)**

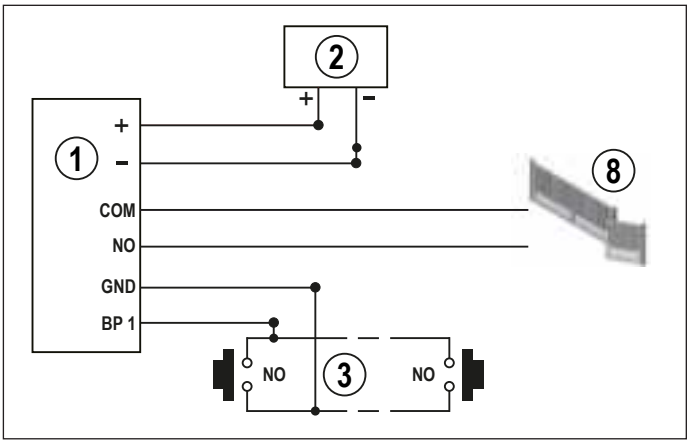
4 Door opener connection to "**NO**" of the relay used for a fail-secure door opener and to "**NC**" for a fail-safe door opener

5 Door opener

6 A piezoresistor (polarity is irrelevant) or a protection diode (see point 7 for polarity) must be installed near the door opener to protect the code lock from damage

7 Position of the cathode of the required protection diode

Electric gate wiring



8 Gate connection to "**NO**" of the relay output used and to "**COM**"; it may also be useful to use both relay outputs, e.g. relay output #2 for the gate and relay output #1 for the door connected.

11 Getting started

- Once you have finished mounting the product (see Chapter 10 for details), turn on the power supply.
- This will activate the keypad illumination. The status LED **(A)** at the top right of the code lock lights up green.
- You can now start programming, as described in Chapter 13.

All data and configuration settings are retained even in the event of a power failure.

The door opener keys in the home or the exit key or similar, which are connected to "**BP 1**" **(H)** or "**BP 2**" **(I)**, are fully independent of any programming for safety reasons. Pressing any of these keys activates the respective relay.

Important!

A master code or master card is always required to activate the programming mode. The default master code is "**1234**". You must always enter it twice to enable the programming mode. If you wish to activate programming mode with the master card, it only needs to be swiped once.

You must change the master code to operate the code lock securely.

If you have forgotten the master code, proceed as described in Chapter 13.3.4.

Attention!

Master code and user codes can consist of 2 to 6 digits; codes with a mixed number of digits are not possible. By default, all codes consist of 4 digits.

If you change the code length, the master code will be adjusted accordingly to match the selected length. For example, the default master code is "**12**" for a 2-digit code length and "**123456**" for a 6-digit code length.

Therefore, the first thing you should do is to adjust the code length, if necessary.

12 Preparing for programming

Attention!

In this manual, the terms “transponder card” and “transponder” are used interchangeably. They always refer to all types of transponders that are compatible with the code lock.

12.1 Criteria for numerical codes and transponders

12.1.1 Numerical codes

Numerical codes include the master code and user codes. All these codes must be unique. Using the same code for more than one function is not allowed.

All codes can consist of 2 to 6 digits. The code length can be adjusted.

12.1.2 Transponder cards/transponders

None of the transponders can be programmed for more than one function.

The cards used in this system are 125 kHz transponder EM cards.

12.2 Security

The code lock offers various security options to control access.

12.2.1 Transponder cards or user codes

Access is controlled by swiping a card or entering a code which opens the door. This option offers moderate security yet is user-friendly.

12.2.2 Transponder card + user code

To open the door, you need to swipe a transponder card and enter the correct user code using the code lock. This prevents unauthorised persons from unlocking the door using a stolen or lost card. A card with its own user code is ideal for use in areas where high security is paramount.

Important!

The transponder card and numerical code function is only available for relay output #1. Using this option deactivates relay output #2.

12.2.3 Other security functions

- You must use different transponder cards and user codes for the two outputs.
- Entering an incorrect code three times in succession locks the keypad for 60 seconds. All key entries are invalid within this time.

12.3 LED indicators

The two LEDs on the front panel **(A)** have the following functions:

Left LED:

- The left LED is off in standby mode.
- If the code/transponder entered to open the door has been accepted, it is lit green for as long as the respective output is activated.
- When beep tones are disabled, the LED flashing replaces the beeps. Pressing a key causes the left LED to flash orange briefly.

Right LED:

- The right LED is lit green in standby mode.
- It emits various signals during programming. For more details, please refer to the relevant chapter.

12.4 Beep tones

- The code lock emits beep tones during programming. For more details, please refer to the relevant chapter.
- In standby mode, the code lock beeps when you press a button (e.g. when entering a user code).
- If you enter an incorrect code or use a wrong transponder card, the code lock will produce four short beeps.
- Beep tones can be very annoying, especially if the code lock is used by many people or at night. You can disable beep tones to avoid being disturbed.

> When beep tones are disabled, the left LED takes over their function. In this case, pressing a key causes the left LED to flash orange briefly.

13 Programming

Attention!

Do not disconnect the code lock from the power supply during programming. Otherwise, the existing data or programming could be damaged.

All codes (e.g. master code and user codes) can consist of 2 to 6 digits. Codes with a mixed number of digits are not possible. The selected code length always applies to all codes.

Each code must be unique. For example, the master code cannot be the same as the user code.

The pause between each key press must not exceed 10 seconds; otherwise, the code lock will beep four times to indicate an error.

13.1 Activating/exiting programming mode

For programming, it is always necessary to set the code lock to programming mode.

When the code lock is in standby mode, the right LED at the top of the code lock must be lit green.

- Enter the master code twice (factory default is "**1234**", i.e. "**12341234**").
- The programming mode can also be activated using the master transponder card. It must be programmed first, as described in Chapter 13.3.1.

The master code "**1234**" is not a permanently programmed code and should be changed for safety reasons after the initial start-up (see Chapter 13.3.3).

The master code can only be used for programming and cannot activate a relay.

If you have forgotten your master code, reset the master code to the factory setting "**1234**" as described in Chapter 13.3.4.

After the code lock has recognised the correct master code, it emits a long beep and then goes into programming mode. The right LED at the top of the code lock is lit orange permanently.

- You can now configure the desired settings (refer to the instructions on the following pages for details).
- Press the key # briefly to exit the programming mode.

  The code lock emits a short beep and then returns to standby mode. The right LED at the top of the code lock lights up green again.
- If you do not press any keys within about 50 seconds, the code lock automatically exits the programming mode.

  The code lock emits four short beeps and then goes into standby mode. The right LED at the top of the code lock lights up green again.

13.2 Changing the code length

Attention!

Changing the code length is the first programming step. You cannot simply change it later, as all codes are based on the preset code length. Changing the code length deletes all previously programmed codes.

Each code can consist of 2 to 6 digits. The default setting is 4 digits.

Proceed as follows:

- Set the code lock to programming mode:
  Enter the master code "**1234**" twice (i.e. "**12341234**").
  → The code lock emits a long beep, and the right LED changes from green to orange.
- General input to configure the code length:

Programming code	Programming code	Code length	Confirm
* 9	0 4	2 - 6	# #

- **Programming code**: Enter the programming code * 9.
  → The right LED flashes orange.
- **Programming code**: Enter the programming code 0 4.
  → The code lock emits a long beep, and the right LED lights up orange again.
- **Code length:**
  Enter the required code length by pressing the corresponding digit 2 to 6.

Code length	Master code	Code length	Master code
2	12	5	12345
3	123	6	123456
4	1234	--	--

  → The code lock emits a long beep.
- **Confirm:** Confirm your entry by with the keys # # (press the hash key twice).
  → The right LED lights up green again.

13.3 Programming/changing the master transponder card/master code

13.3.1 Programming the master transponder card

The master transponder card can only be used to activate the programming mode (see Chapter 13.1). The master transponder card cannot be used to activate any of the outputs. The system only allows one master transponder card.

Proceed as follows:

- Set the code lock to programming mode:
  Enter the master code "**1234**" twice (i.e. "**12341234**").
  → The code lock emits a long beep, and the right LED changes from green to orange.
- General input to configure master transponder cards:

Programming code	Card	Confirm
* 7	Swipe the card	# #

- **Programming code**: Enter the programming code * 7.
  → The right LED flashes green.
- **Card:** Swipe the transponder card you want to use as the master transponder card once.
  → The code lock emits a long beep, and the right LED turns orange.
- **Confirm:** Confirm your entry by with the keys # # (press the hash key twice).
  → The right LED lights up green again.

13.3.2 Changing the master transponder card

Before you can use a new master transponder card, you must first remove the old one.

Proceed as follows:

- Set the code lock to programming mode:
  Enter the master code "**1234**" twice (i.e. "**12341234**") or swipe the master transponder card once.
  → The code lock emits a long beep, and the right LED changes from green to orange.
- General input to change the master transponder cards:

Programming code	Delete	Card	Confirm
* 7	* *	Swipe the card	# #

- **Programming code**: Enter the programming code * 7.
  → The right LED lights up red.
- **Delete**: Press the keys * * (press the star key twice).
  → The right LED flashes green.
- **Card:** Swipe the transponder card you want to use as the new master transponder card once.
  → The code lock emits a long beep, and the right LED turns orange.
- **Confirm:** Confirm your entry by with the keys # # (press the hash key twice).
  → The right LED lights up green again.

13.3.3 Changing the master code

The master code can only be used to activate the programming mode (see Chapter 13.1). The master code cannot be used to activate any of the outputs. The system only allows one master code. The master code must be different from the user codes.

Proceed as follows:

- Set the code lock to programming mode:

  Enter the master code "**1234**" twice (i.e. "**12341234**") or swipe the master transponder card once.

  → The code lock emits a long beep, and the right LED changes from green to orange.
- General input to configure master transponder cards:

Program-ming code	Numerical code	Confirm
* 3	Enter the new master code twice	# #

- **Programming code**: Enter the programming code * 3.

  → The right LED flashes red.
- **Numerical code:** Enter the new master code twice. Depending on the code length used, the new master code must match that code length.

  → The code lock emits a long beep, and the right LED turns orange.
- **Confirm:** Confirm your entry by with the keys # # (press the hash key twice).

  → The right LED lights up green again.

13.3.4 Resetting the master code to factory defaults

If you have forgotten the master code and need to configure a new one, you can easily reset the master code to factory default.

Depending on the preset code length, the reset master code will also have the respective code length. For example, when using a 6-digit code length, the default master code is "**123456**".

- Switch off the power supply to the code lock.

  → All LEDs go out.
- Press and hold down the key # to switch the power supply to the code lock back on. Press and hold down the key # for three more seconds.

  → The code lock emits a short beep, and the right LED lights up green again.

This will reset the master code to factory default ("**1234**" if a 4-digit code length is used). Make sure you change the master code straight away.

13.4 Adding and deleting transponder cards/user codes

Output #1 has a total of 1000 memory locations for user codes and/or transponder cards.

Output #2 has 10 memory locations for user codes or transponder cards.

> We recommend drawing up a table and recording all access data accurately (user ID, user code, user name, activation time for output #1). This will help you to monitor registered users and access permissions.
>
> It will also make it easier to delete users and the corresponding user codes.
>
> **Important!**
>
> You must use different transponder cards and user codes for the two outputs.
>
> When using the transponder card and numerical code option for relay 1, relay 2 is deactivated.

13.4.1 Transponder card or user code - relay output #1

Depending on the access option selected for the respective user, you can access the system by scanning the transponder or entering the user code.

> This programming involves two different programming codes. It should be noted that the second programming code can only be used in conjunction with the respective first programming code.

Proceed as follows:

- Set the code lock to programming mode:

  Enter your master code twice ("**1234**" by default) or swipe the master transponder card once.

  → The code lock emits a long beep, and the right LED changes from green to orange.
- General input to configure transponder cards or user codes:

Programming code	Programming code	User ID	Card/numerical code	Confirm
* 0	0 1	0 0 0 - 9 9 9	Swipe the card/ enter the user code	# #
* 9	0 2	0 0 0 - 9 9 9	Enter the user code	# #

Programming code *0/01

- **Programming code**: Enter the programming code * 0.

  → The right LED flashes orange.
- **Programming code**: Enter the programming code 0 1.

Programming code *9/02

- **Programming code**: Enter the programming code * 9.

  → The right LED flashes orange.
- **Programming code**: Enter the programming code 0 2.

→ The code lock emits a long beep, and the right LED lights up orange again.

- **User ID:** Now enter the required three-digit user ID 0 0 0 to 9 9 9.

  → The left LED lights up green, and the right LED flashes orange.

- **Card/numerical code:**

  If you use a transponder card to access the system, you should swipe the card once.

  If the user code option is used instead, you must enter the code. Make sure you enter the correct number of digits.

  → The code lock emits a long beep, the left LED remains lit green, and the right LED flashes orange.
- **Confirm:** Confirm your entry by with the keys [#] [#] (press the hash key twice).

  → The left LED goes out and the right LED lights up green again.

Programming example: transponder card only - relay output #1

- Set the code lock to programming mode by entering the master code twice ("**1234**" by default) or swiping the master transponder card once.

Programming:

[*] [0] [0] [1] [0] [0] [0] **Swipe the card** [#] [#]

(a) **(b)** **(c)** **(d)** **(e)**

(a) Enter programming code ***0**

(b) Enter programming code **01**

(c) Enter user ID "**000**" (possible range for relay output #1: 000 to 999)

(d) Swipe the transponder card; scanning is confirmed with a long beep

(e) Save changes (the left LED goes out, and the right LED lights up green again)

Function in standby mode:

Swipe the card

(a)

(a) Swipe the transponder card (the code lock emits a long beep, relay output #1 is activated, and the left LED is lit green for as long as the output is activated)

Programming example: user code only - relay output #1

- Set the code lock to programming mode by entering the master code twice ("**1234**" by default) or swiping the master transponder card once.

Programming:

[*] [0] [0] [1] [0] [0] [0] [1] [1] [1] [1] [#] [#]

(a) **(b)** **(c)** **(d)** **(e)**

(a) Enter programming code ***0**

(b) Enter programming code **01**

(c) Enter user ID "**000**" (possible range for relay output #1: 000 to 999)

(d) Enter user code "**1111**"; your entry is confirmed with a long beep

(e) Save changes (the left LED goes out, and the right LED lights up green again)

Function in standby mode:

[1] [1] [1] [1]

(a)

(a) Enter the user code (the code lock emits a long beep, relay output #1 is activated, and the left LED is lit green for as long as the output is activated)

13.4.2 Transponder card and user code - relay output #1

You can only access the system by swiping the transponder and entering the respective user code.

Proceed as follows:

- Set the code lock to programming mode:
  Enter your master code twice ("**1234**" by default) or swipe the master transponder card once.
  → The code lock emits a long beep, and the right LED changes from green to orange.
- General input to configure transponder cards and user codes:

Programming code	Programming code	User ID	Card/numerical code	Confirm
[*] [0]	[0] [2]	[0] [0] [0] - [9] [9] [9]	Swipe the card + enter the user code	[#] [#]

- **Programming code**: Enter the programming code [*] [0].
  → The right LED flashes orange.
- **Programming code**: Enter the programming code [0] [2].
  → The code lock emits a long beep, and the right LED lights up orange again.
- **User ID:** Now enter the required three-digit user ID [0] [0] [0] to [9] [9] [9].
  → The left LED lights up green, and the right LED flashes orange.

- **Card/numerical code:**

  First, swipe the user's transponder card once.

  → The code lock emits a long beep, and the right LED flashes orange.

  Now enter the user code you want to use. Again, make sure you enter the correct number of digits.

  → The code lock emits a long beep, and the right LED turns orange.
- **Confirm:** Confirm your entry by with the keys [#] [#] (press the hash key twice).

  → The right LED lights up green again.

Programming example: Transponder card and user code - relay output #1

- Set the code lock to programming mode by entering the master code twice ("**1234**" by default) or swiping the master transponder card once.

Programming:

[*] [0] [0] [2] [0] [0] [0] **Swipe the card** [2] [2] [2] [2] [#] [#]

(a) **(b)** **(c)** **(d)** **(e)** **(f)**

(a) Enter programming code ***0**

(b) Enter programming code **02**

(c) Enter user ID "**000**" (possible range for relay output #1: 000 to 999)

(d) Swipe the transponder card; scanning is confirmed with a long beep

(e) Enter user code "**2222**"; your entry is confirmed with a long beep

(f) Save changes (the right LED lights up green again)

Function in standby mode:

Swipe the card [2] [2] [2] [2]

(a) **(b)**

(a) Swipe the transponder card (code lock emits a beep)

(b) Enter the user code (the code lock emits a long beep, relay output #1 is activated, and the left LED is lit green for as long as the output is activated)

13.4.3 Transponder card or user code - relay output #2

> This programming involves two different programming codes. It should be noted that the second programming code can only be used in conjunction with the respective first programming code.

Proceed as follows:

- Set the code lock to programming mode:
  Enter your master code twice ("**1234**" by default) or swipe the master transponder card once.
  → The code lock emits a long beep, and the right LED changes from green to orange.
- General input to configure transponder cards or user codes:

Programming code	Programming code	User ID	Card/numerical code	Confirm
* 4	--	0 0 - 0 9	Swipe the card/ enter the user code	# #
* 9	0 3	0 0 - 0 9	Enter the user code	# #

Programming code *4

- **Programming code**: Enter the programming code * 4.
  → The right LED flashes orange.

Programming code *9/03

- **Programming code**: Enter the programming code * 9.
  → The right LED flashes orange.
- **Programming code**: Enter the programming code 0 3.
  → The code lock emits a long beep, and the right LED lights up orange again.

- **User ID:** Now enter the required two-digit user ID between 0 0 and 0 9.
  → The left LED lights up green, and the right LED flashes orange.
- **Card/numerical code:**
  If you use a transponder card to access the system, you should swipe the card once.
  If the user code option is used instead, you must enter the code. Make sure you enter the correct number of digits.
  → The code lock emits a long beep, the left LED remains lit green, and the right LED flashes orange.
- **Confirm:** Confirm your entry by with the keys # # (press the hash key twice).
  → The left LED goes out and the right LED lights up green again.

Programming example: transponder card only - relay output #2

- Set the code lock to programming mode by entering the master code twice ("**1234**" by default) or swiping the master transponder card once.

Programming:

(a) **(b)** **(c)** **(d)**

(a) Enter programming code ***4**

(b) Enter user ID "**00**" (possible range for relay output #2: 00 to 09)

(c) Swipe the transponder card; scanning is confirmed with a long beep

(d) Save changes (the left LED goes out, and the right LED lights up green again)

Function in standby mode:

Swipe the card

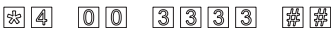
(a)

(a) Swipe the transponder card (the code lock emits a long beep, relay output #2 is activated, and the left LED is lit green for as long as the output is activated)

Programming example: user code only - relay output #2

- Set the code lock to programming mode by entering the master code twice ("**1234**" by default) or swiping the master transponder card once.

Programming:



(a) **(b)** **(c)** **(d)**

(a) Enter programming code ***4**

(b) Enter user ID "**00**" (possible range for relay output #2: 00 to 09)

(c) Enter user code "**3333**"; your entry is confirmed with a long beep

(d) Save changes (the left LED goes out, and the right LED lights up green again)

Function in standby mode:

(a)

(a) Enter the user code (the code lock emits a long beep, relay output #2 is activated, and the left LED is lit green for as long as the output is activated)

13.4.4 Programming multiple transponder cards - relay output #1

This function enables you to configure multiple transponder cards simultaneously.

The user IDs must be consecutive for the number of cards. The user IDs are created automatically.

Proceed as follows:

- Set the code lock to programming mode:
  Enter your master code twice ("**1234**" by default) or swipe the master transponder card once.
  → The code lock emits a long beep, and the right LED changes from green to orange.
- General input to configure transponder cards or user codes:

Programming code	Programming code	User ID	Quantity	Card	Confirm
* 9	0 1	0 0 0 - 9 9 9 e.g. 0 2 0	0 0 0 e.g. 0 1 0	Swipe the card	# #

- **Programming code**: Enter the programming code * 9.
  → The right LED flashes orange.
- **Programming code**: Enter the programming code 0 1.
  → The code lock emits a short beep, and the right LED lights up orange again.
- **User ID:** Next, enter the position of the first three-digit user ID between 0 0 0 and 9 9 9, e.g. 0 2 0.
  → The code lock emits a long beep, and the right LED turns orange.
- **Quantity:** Enter the three-digit quantity of transponders to be added, e.g. 0 1 0.
  → The code lock emits a short beep, and the right LED lights up orange.
- **Card:** Now, swipe all the transponder cards one after the other.
  → The code lock emits a long beep after each card, and the right LED turns orange.
- **Confirm:** After scanning all the transponder cards, confirm your entry by with the keys # # (press the hash key twice).
- The right LED lights up green again.

Programming example: multiple transponders - relay output #1

- Set the code lock to programming mode by entering the master code twice ("**1234**" by default) or swiping the master transponder card once.

Programming:

* 9	0 1	0 0 0	0 0 0	Swipe the card	# #
(a)	**(b)**	**(c)**	**(d)**	**(e)**	**(f)**

(a) Enter programming code ***9**

(b) Enter programming code **01**

(c) Enter user ID "**000**" (possible range for relay output #1: 000 to 999), e.g. 020

(d) Enter quantity "**000**", e.g. 010

(e) Swipe one transponder card after the other; each swipe is confirmed with a short beep

(f) Save changes (the right LED lights up green again)

13.4.5 Programming multiple transponders (with consecutive serial numbers) - output #1

It is possible to add multiple transponders with consecutive serial numbers at once by programming the transponder with the lowest serial number.

The user IDs must be consecutive for the number of cards. The user IDs are created automatically.

Proceed as follows:

- Set the code lock to programming mode:

  Enter your master code twice ("**1234**" by default) or swipe the master transponder card once.

  → The code lock emits a long beep, and the right LED changes from green to orange.
- General input to configure multiple transponders with consecutive serial numbers:

Programming code	Programming code	User ID	Quantity	Card	Confirm
* 9	0 5	0 0 0 - 9 9 9 e.g. 1 2 0	0 0 0 e.g. 0 1 0	Swipe the card/ transponder	# #

- **Programming code**: Enter the programming code * 9.

  → The right LED flashes orange.
- **Programming code**: Enter the programming code 0 5.

  → The code lock emits a short beep, and the right LED lights up orange again.
- **User ID:** Enter a free three-digit user ID between 0 0 0 and 9 9 9, e.g. 1 2 0.

  → The code lock emits a long beep, and the right LED turns orange.
- **Quantity:** Enter the three-digit quantity of transponders to be added, e.g. 0 1 0.

  → The code lock emits a short beep, and the right LED lights up orange.
- **Card:** Now, swipe the transponder with the lowest serial number.

  → The code lock emits a short beep again, and the right LED keeps glowing orange.

  All other transponders are added automatically.
- **Confirm:** Confirm your entry by with the keys # # (press the hash key twice).

  → The right LED lights up green again.

Programming example: multiple transponders (with consecutive serial numbers) - relay output #1

- Set the code lock to programming mode by entering the master code twice ("**1234**" by default) or swiping the master transponder card once.

Programming:

* 9	0 5	0 0 0	0 0 0	Swipe the card	# #
(a)	(b)	(c)	(d)	(e)	(f)

(a) Enter programming code ***9**

(b) Enter programming code **05**

(c) Enter user ID "**000**" (possible range for relay output #1: 000 to 999), e.g. 120

(d) Enter quantity "**000**", e.g. 010

(e) Swipe the first transponder card with the lowest serial number; the swipe is confirmed with a short beep
All other transponders are added automatically.

(f) Save changes (the right LED lights up green again)

13.4.6 Deleting a user - relay output #1

This function allows you to delete a user along with the programmed user code or transponder card.

Proceed as follows:

- Set the code lock to programming mode:
  Enter your master code twice ("**1234**" by default) or swipe the master transponder card once.
  → The code lock emits a long beep, and the right LED changes from green to orange.
- General input to delete a user for relay output #1:

User ID	Delete	Confirm
0 0 0 - 9 9 9	* *	# #

- **User ID:** Now, enter the three-digit user ID between 0 0 0 and 9 9 9 that you want to delete.
  → The left LED lights up red, and the right LED flashes orange.
- **Delete:** To delete the user, press the keys * * (press the star key twice).
  → The left LED lights up green, and the right LED flashes orange.
- **Confirm:** Confirm your entry by with the keys # # (press the hash key twice).
  → The left LED goes out and the right LED lights up green again.

Programming example: Deleting a user - relay output #1

- Set the code lock to programming mode by entering the master code twice ("**1234**" by default) or swiping the master transponder card once.

Programming:

0 0 0 * * # #

(a) **(b)** **(c)**

(a) Enter user ID "**000**" to be deleted (possible range for relay output #1: 000 to 999)

(b) Delete the user

(c) Save changes (the left LED goes out, and the right LED lights up green again)

13.4.7 Deleting a user - relay output #2

This function allows you to delete a user along with the programmed user code or transponder card.

Proceed as follows:

- Set the code lock to programming mode:

  Enter your master code twice ("**1234**" by default) or swipe the master transponder card once.

  → The code lock emits a long beep, and the right LED changes from green to orange.
- General input to delete a user for relay output #2:

Programming code	User ID	Delete	Confirm
* 4	0 0 - 0 9	* *	# #

- **Programming code**: Enter the programming code * 4.

  → The right LED flashes orange.
- **User ID:** Now, enter the two-digit user ID between 0 0 and 0 9 that you want to delete.

  → The left LED lights up red, and the right LED flashes orange.
- **Delete:** To delete the user, press the keys * * (press the star key twice).

  → The left LED lights up green, and the right LED flashes orange.
- **Confirm:** Confirm your entry by with the keys # # (press the hash key twice).

  → The left LED goes out and the right LED lights up green again.

Programming example: Deleting a user - relay output #2

- Set the code lock to programming mode by entering the master code twice ("**1234**" by default) or swiping the master transponder card once.

Programming:

* 4 0 0 * * # #

(a) **(b)** **(c)** **(d)**

(a) Enter programming code ***9**

(b) Enter user ID "**00**" to be deleted (possible range for relay output #2: 00 to 09)

(c) Delete the user

(d) Save changes (the left LED goes out, and the right LED lights up green again)

13.4.8 Deleting all users

This function allows you to delete all users for both outputs along with the programmed user codes or transponder cards.

Proceed as follows:

- Set the code lock to programming mode:
  Enter your master code twice ("**1234**" by default) or swipe the master transponder card once.
  → The code lock emits a long beep, and the right LED changes from green to orange.
- General input to delete all users:

Programming code	Delete	Confirm
* 8	8 8	# #

- **Programming code**: Enter the programming code * 8.
  → The right LED flashes orange.
- **Delete:** Enter the programming code 8 8.
  → The code lock emits a long beep, and the right LED keeps flashing orange.
- **Confirm:** Confirm your entry by with the keys # # (press the hash key twice).
  → The right LED lights up green again.

Programming example: Deleting all users

- Set the code lock to programming mode by entering the master code twice ("**1234**" by default) or swiping the master transponder card once.

Programming:

* 8 8 8 # #
(a) **(b)** **(c)**

(a) Enter programming code ***8**

(b) Delete the users; your entry is confirmed with a long beep

(c) Save changes (the right LED lights up green again)

13.5 Configuring the activation time for the relay outputs

By default, the activation time for both relay outputs is 1 second when using a valid user code or transponder card.

The activation time can be adjusted between 1 and 99 seconds if required.

The output can also operate in toggle mode. This means that you can activate the output permanently or deactivate it again. This mode can be used to open the door or gate for a certain time or to control (enable/disable) an alarm system.

> In toggle mode, the relay output remains activated until you deactivate it again. Each valid user code or transponder card toggles the status of the respective output.
>
> We recommend that you only use toggle mode in combination with an alarm system or a fail-safe door opener.
>
> "Fail-Safe" door openers release the latch when the power is removed (non-standard door opener type, used for emergency exit doors so that the door opens in the event of a power cut).
>
> "Fail-Secure" door openers (releases the latch when power is supplied; used for normal front doors) may overheat when the output is permanently enabled.

13.5.1 Configuring the activation time for relay output #1

To change the activation time for output #1, proceed as follows:

- Set the code lock to programming mode:

  Enter your master code twice ("**1234**" by default) or swipe the master transponder card once.

  → The code lock emits a long beep, and the right LED changes from green to orange.

- General input to change the activation time for relay output #1:

Programming code	Activation time	Confirm
[*] [1]	[0] [1] - [9] [9] or [0] [0]	[#] [#]

- **Programming code**: Enter the programming code [*] [1].

  → The right LED flashes orange.

- **Activation time:** Now enter the two-digit activation time in seconds between [0] [1] and [9] [9]. Enter [0] [0] to set the output to toggle mode.

  → The code lock emits a long beep, and the right LED lights up orange again.

- **Confirm:** Confirm your entry by with the keys [#] [#] (press the hash key twice).

  → The right LED lights up green again.

13.5.2 Configuring the activation time for relay output #2

To change the activation time for output #2, proceed as follows:

- Set the code lock to programming mode:
  Enter your master code twice ("**1234**" by default) or swipe the master transponder card once.
  → The code lock emits a long beep, and the right LED changes from green to orange.
- General input to change the activation time for relay output #1:

Programming code	Activation time	Confirm
* 5	0 1 - 9 9 or 0 0	# #

- **Programming code**: Enter the programming code * 5.
  → The right LED flashes orange.
- **Activation time:** Now enter the two-digit activation time in seconds between 0 1 and 9 9. Enter 0 0 to set the output to toggle mode.
  → The code lock emits a long beep, and the right LED lights up orange again.
- **Confirm:** Confirm your entry by with the keys # # (press the hash key twice).
  → The right LED lights up green again.

13.5.3 Programming example: Activation time for the relay outputs

- Set the code lock to programming mode by entering the master code twice ("**1234**" by default) or swiping the master transponder card once.

Programming:

```
* 1   0 0   # #
* 5   0 0   # #
 (a)   (b)   (c)
```

(a) Enter programming code ***1** for output #1 or ***5** for output #2

(b) Activation time in seconds (you can select between 01 and 99 seconds) or 00 for toggle mode; your entry is confirmed with a long beep

(c) Save changes (the right LED lights up green again)

13.6 Enabling/disabling backlight

If the backlight function is enabled (default), the keypad is illuminated permanently.

If the backlight function is disabled, the keypad illumination turns on automatically when you press a key. If no key is pressed within 30 seconds, the keypad illumination turns off automatically.

13.6.1 Enabling the backlight (default setting)

To activate the backlight, proceed as follows:

- Set the code lock to programming mode:
  Enter your master code twice ("**1234**" by default) or swipe the master transponder card once.
  → The code lock emits a long beep, and the right LED changes from green to orange.
- General input to activate the backlight:

Programming code	Programming code Backlight	Confirm
* 2	0 2	# #

- **Programming code**: Enter the programming code * 2.
  → The right LED flashes orange.
- **Backlight programming code**: To activate the backlight, enter the programming code 0 2.
  → The code lock emits a long beep, and the right LED lights up orange again.
- **Confirm:** Confirm your entry by with the keys # # (press the hash key twice).
  → The right LED lights up green again.

13.6.2 Disabling the backlight

To deactivate the backlight, proceed as follows:

- Set the code lock to programming mode:
  Enter your master code twice ("**1234**" by default) or swipe the master transponder card once.
  → The code lock emits a long beep, and the right LED changes from green to orange.
- General input to deactivate the backlight:

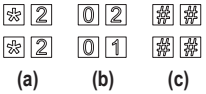
Programming code	Programming code Backlight	Confirm
* 2	0 1	# #

- **Programming code**: Enter the programming code * 2.
  → The right LED flashes orange.
- **Backlight programming code**: To deactivate the backlight, enter the programming code 0 1.
  → The code lock emits a long beep, and the right LED lights up orange again.
- **Confirm:** Confirm your entry by with the keys # # (press the hash key twice).
  → The right LED lights up green again.

13.6.3 Programming example: Enabling/disabling backlight

- Set the code lock to programming mode by entering the master code twice ("**1234**" by default) or swiping the master transponder card once.

Programming:



(a) Enter programming code ***2**

(b) Enter programming code **02** to activate the backlight or programming code **01** to deactivate it; your entry is confirmed with a long beep

(c) Save changes (the right LED lights up green again)

13.7 Enabling/disabling beep tones

In standby mode, the code lock beeps when you press a button (e.g. when entering a user code). If you enter an incorrect code or use a wrong transponder card, the code lock will produce four short beeps.

Beep tones are designed to confirm key presses (four short beeps indicate incorrect unlock attempts).

Beep tones can be very annoying, especially if the code lock is used by many people or at night. You can disable beep tones to avoid being disturbed.

> When beep tones are disabled, the left LED takes over their function. In this case, pressing a key causes the left LED to flash orange briefly.

13.7.1 Enabling beep tones (default setting)

To activate beep tones, proceed as follows:

- Set the code lock to programming mode:
  Enter your master code twice ("**1234**" by default) or swipe the master transponder card once.
  → The code lock emits a long beep, and the right LED changes from green to orange.
- General input to activate beep tones:

Programming code	Programming code Beep tones	Confirm
* 2	0 3	# #

- **Programming code**: Enter the programming code * 2.
  → The right LED flashes orange.
- **Programming code for beep tones**: To activate beep tones, enter the programming code 0 3.
  → The code lock emits a long beep, and the right LED lights up orange again.
- **Confirm:** Confirm your entry by with the keys # # (press the hash key twice).
  → The right LED lights up green again.

13.7.2 Disabling beep tones

To deactivate beep tones, proceed as follows:

- Set the code lock to programming mode:
  Enter your master code twice ("**1234**" by default) or swipe the master transponder card once.
  → The code lock emits a long beep, and the right LED changes from green to orange.
- General input to deactivate beep tones:

Programming code	Programming code Beep tones	Confirm
* 2	0 4	# #

- **Programming code**: Enter the programming code * 2.
  → The right LED flashes orange.
- **Programming code for beep tones**: To deactivate beep tones, enter the programming code 0 4.
  → The left LED flashes orange, and the right LED lights up orange again.
- **Confirm:** Confirm your entry by with the keys # # (press the hash key twice).
  → The left LED flashes orange, and the right LED lights up green again.

13.7.3 Programming example: Enabling/disabling beep tones

- Set the code lock to programming mode by entering the master code twice ("**1234**" by default) or swiping the master transponder card once.

Programming:

* 2 0 3 # #
* 2 0 4 # #

(a) **(b)** **(c)**

(a) Enter programming code ***2**

(b) Enter programming code **03** to activate beep tones; your entry is confirmed with a long beep; enter programming code **04** to deactivate beep tones; your entry is confirmed by the left LED flashing orange

(c) Save changes (the right LED lights up green again)

13.8 Enabling/disabling tamper protection

The integrated tamper protection visually monitors the back of the code lock to check for unauthorised removal. With the tamper protection function activated, when the code lock is removed from the wall mount, it emits a beep, and the loudspeaker/doorbell/chime **(M)** emits a siren tone.

13.8.1 Activating tamper protection

To activate the tamper protection function, proceed as follows:

- Set the code lock to programming mode:

  Enter your master code twice ("**1234**" by default) or swipe the master transponder card once.

  → The code lock emits a long beep, and the right LED changes from green to orange.
- General input to activate tamper protection:

Programming code	Programming code Tamper protection	Confirm
* 6	0 2	# #

- **Programming code**: Enter the programming code * 6.

  → The right LED flashes orange.
- **Tamper protection programming code**: To activate tamper protection, enter the programming code 0 2.

  → The code lock emits a long beep, and the right LED lights up orange again.
- **Confirm:** Confirm your entry by with the keys # # (press the hash key twice).

  → The right LED lights up green again.

13.8.2 Deactivating tamper protection (default setting)

To deactivate the tamper protection function, proceed as follows:

- Set the code lock to programming mode:

  Enter your master code twice ("**1234**" by default) or swipe the master transponder card once.

  → The code lock emits a long beep, and the right LED changes from green to orange.
- General input to deactivate tamper protection:

Programming code	Programming code Tamper protection	Confirm
* 6	0 1	# #

- **Programming code**: Enter the programming code * 6.

  → The right LED flashes orange.
- **Programming code**: To deactivate tamper protection, enter the programming code 0 1.

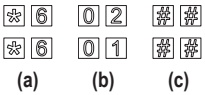
  → The code lock emits a long beep, and the right LED lights up orange again.
- **Confirm:** Confirm your entry by with the keys # # (press the hash key twice).

  → The right LED lights up green again.

13.8.3 Programming example: Enabling/disabling tamper protection

- Set the code lock to programming mode by entering the master code twice ("**1234**" by default) or swiping the master transponder card once.

Programming:



(a) Enter programming code ***6**

(b) Enter programming code **02** to activate tamper protection or programming code **01** to deactivate it; your entry is confirmed with a long beep

(c) Save changes (the right LED lights up green again)

13.9 Resetting the code lock to factory defaults

This function allows you to reset the code lock to factory defaults.

> **Attention!**
>
> This function erases all user IDs, user codes, transponder cards, the master code, master transponder card and all other settings and resets them to factory defaults.
>
> The reset master code is "**1234**".

Proceed as follows:

- Set the code lock to programming mode:

  Enter your master code twice ("**1234**" by default) or swipe the master transponder card once.

  → The code lock emits a long beep, and the right LED changes from green to orange.
- General input to reset the code lock to factory defaults:

Programming code	Programming code Factory defaults	Confirm
* 8	9 9	# #

- **Programming code**: Enter the programming code * 8.

  → The right LED flashes orange.
- **Programming code for factory defaults**: To reset the code lock to factory defaults, enter the programming code 9 9.

  → The code lock emits a long beep, and the right LED keeps flashing orange.

> The reset is already done when you press the key 9 for the second time.

- **Confirm:** Confirm your entry by with the keys # # (press the hash key twice).

  → The right LED lights up green again.

Programming example: Resetting to factory defaults

- Set the code lock to programming mode by entering the master code twice ("**1234**" by default) or swiping the master transponder card once.

Programming:

* 8 9 9 # #

(a) **(b)** **(c)**

(a) Enter programming code ***8**

(b) Reset the code lock to factory defaults; your entry is confirmed with a long beep

(c) Save changes (the right LED lights up green again)

14 Programming example

For easier understanding, we would like to give you a programming example in this chapter. The following specifications are to apply in this example:

- To ensure particularly secure access, you should use a 6-digit code length.
- Besides the master code, you will also need a master transponder card for programming.
- Two users should be given access to the back door via different user codes.

  Four other people should have access to the back door via a transponder card.

  The back door opener is connected to relay output #1.
- Two more people should also be given access to the entry gate. One of them should use a user code, the other a transponder card.

  The entry gate opener is connected to relay output #2.
- The activation time for relay output #1 should be 3 seconds. The activation time for relay output #2 should be 5 seconds.
- Beep tones and keypad backlight should be deactivated in standby mode.

14.1 Configuring the settings

Step 1: Turn on the power supply

If you have not already done so, connect the code lock to the power supply. Wait briefly until the code lock returns to standby mode. The right LED lights up green. The code lock is ready.

> Before configuring any settings, the code lock must always be set to programming mode first. The procedure is always the same from step 5 onwards.

Step 2: Change the code length

Before you proceed with setup, you must first change the code length if you do not want to use the default setting (4-digit code).

- Set the code lock to programming mode:

  By default, the master code is "**1234**". Enter this code twice in succession to activate the programming mode.

  1 2 3 4 1 2 3 4

  → The code lock emits a long beep, and the right LED changes from green to orange.
- Now enter the programming code "***9**" and then the programming code "**04**"; your entry will be confirmed with a long beep. Then, enter the code length "6" (confirmed with a long beep) and confirm your selection by pressing the hash key twice (##).

  * 9 0 4 6 # #

Step 3: Programming the master transponder card

- Set the code lock to programming mode:

  Enter the master code twice in succession to activate the programming mode. As the 6-digit code length has been set, the master code must also have 6 digits.

  [1][2][3][4][5][6] [1][2][3][4][5][6]

  → The code lock emits a long beep, and the right LED changes from green to orange.

- Enter the programming code "***7**" and then swipe the transponder card. The code lock confirms with a long beep. Confirm your selection by pressing the hash key twice (##).

  [*][7] **Swipe the card** [#][#]

Step 4: Change the master code

The default master code must be changed when you set up the code lock.

- Set the code lock to programming mode:

  Enter the master code twice in succession to activate the programming mode. As an option, swipe the master transponder card once.

  [1][2][3][4][5][6] [1][2][3][4][5][6] or **swipe the master transponder card**

  → The code lock emits a long beep, and the right LED changes from green to orange.

- Enter the programming code "***3**" and then enter the new master code twice. In our example, we use the master code "**987654**". The code lock confirms the entry with a long beep. Confirm your selection by pressing the hash key twice (##).

  [*][3] [9][8][7][6][5][4] [9][8][7][6][5][4] [#][#]

Step 5: Create two different user codes for relay output #1

- Set the code lock to programming mode:

  Enter the master code twice in succession to enter the programming mode. As an option, swipe the master transponder card once. As the master code has been changed, you must enter the new 6-digit master code.

  [9][8][7][6][5][4] [9][8][7][6][5][4] or **swipe the master transponder card**

  → The code lock emits a long beep, and the right LED changes from green to orange.

- Enter the following key combination:

  [*][0] [0][1] [0][0][0] [1][1][1][1][1][1] [#][#]

  (a) **(b)** **(c)** **(d)** **(e)**

  (a) Enter programming code ***0**

  (b) Enter programming code **01**

  (c) Enter user ID "**000**" (possible range for relay output #1: 000 to 999)

  (d) Enter user code "**111111**"; your entry is confirmed with a long beep

  (e) Save changes (the left LED goes out, and the right LED lights up green again)

- Again, set the code lock to programming mode.
- Enter the following key combination:

(a) **(b)** **(c)** **(d)** **(e)**

(a) Enter programming code ***0**

(b) Enter programming code **01**

(c) Enter user ID "**001**" (possible range for relay output #1: 000 to 999)

(d) Enter user code "**222222**"; your entry is confirmed with a long beep

(e) Save changes (the left LED goes out, and the right LED lights up green again)

Step 6: Create four different transponder cards for relay output #1

- Set the code lock to programming mode.
- Enter the following key combination:

(a) **(b)** **(c)** **(d)** **(e)** **(f)**

(a) Enter programming code ***9**

(b) Enter programming code **01**

(c) Enter user ID "**002**" for the first transponder card; your entry is confirmed with a long beep

(d) Enter the number of transponder cards to be programmed „**004**"; your entry is confirmed with a short beep

(e) Swipe all four cards one after the other; each card is confirmed with a long beep

(f) Save changes (the left LED goes out, and the right LED lights up green again)

Step 7: Create a user code for relay output #2

- Set the code lock to programming mode.
- Enter the following key combination:

(a) **(b)** **(c)** **(d)**

(a) Enter programming code ***4**

(b) Enter user ID "**00**" (possible range for relay output #2: 00 to 09)

(c) Enter user code "**333333**"; your entry is confirmed with a long beep

(d) Save changes (the left LED goes out, and the right LED lights up green again)

Step 8: Create a transponder card for relay output #2

- Set the code lock to programming mode.
- Enter the following key combination:

(a) **(b)** **(c)** **(d)**

(a) Enter programming code ***4**

(b) Enter user ID "**01**" (possible range for relay output #2: 00 to 09)

(c) Swipe the transponder card; your entry is confirmed with a long beep

(d) Save changes (the left LED goes out, and the right LED lights up green again)

Step 9: Change the activation time for relay output #1

- Set the code lock to programming mode.
- Enter the following key combination:

(a) **(b)** **(c)**

(a) Enter programming code ***1**

(b) Activation time is 3 seconds (you can select between 01 and 99 seconds) or "**00**" for toggle mode; your entry is confirmed with a long beep

(c) Save changes (the right LED lights up green again)

Step 10: Change the activation time for relay output #2

- Set the code lock to programming mode.
- Enter the following key combination:

(a) **(b)** **(c)**

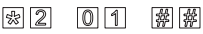
(a) Enter programming code ***5**

(b) Activation time is 5 seconds (you can select between 01 and 99 seconds) or "**00**" for toggle mode; your entry is confirmed with a long beep

(c) Save changes (the right LED lights up green again)

Step 11: Deactivate the keypad backlight

- Set the code lock to programming mode.
- Enter the following key combination:



(a) **(b)** **(c)**

(a) Enter programming code ***2**

(b) Enter programming code **01** to deactivate the keypad backlight; your entry is confirmed with a long beep

(c) Save changes (the right LED lights up green again)

Step 12: Deactivate beep tones

- Set the code lock to programming mode.
- Enter the following key combination:

(a) **(b)** **(c)**

(a) Enter programming code ***2**

(b) Enter programming code 04, to deactivate beep tones; your entry is confirmed with a long beep

(c) Save changes (the right LED lights up green again)

14.2 Using the code lock

After completing the programming steps described in Chapter 14.1, the code lock is ready for use. The right LED lights up green to indicate that the code lock is in standby mode. The code lock is waiting for code entry.

User #1 (ID 000) or User #2 (ID 001) wants to access the back door using their user code

- The user code “111111” has been programmed for User #1. They must press the following keys in sequence to activate relay output #1:

  1 1 1 1 1 1

  → The code lock emits a long beep and relay output #1 is activated for 3 seconds. The left LED is lit green for as long as the output is activated.
- User #2 must enter their unique code to activate output #1:

  2 2 2 2 2 2

User #3 (ID 002), User #4 (ID 003), User #5 (ID 004) or User #6 (ID 005) wants to access the back door using their transponder card

- A transponder card has been programmed for User #3. They only need to hold the transponder card against the code lock to activate relay output #1:

  Swipe the card

  → The code lock emits a long beep and relay output #1 is activated for 3 seconds. The left LED is lit green for as long as the output is activated.
- Users #4, #5 and #6 must also hold their transponder card against the code lock to activate output #1.

User #7 (ID 00) wants to access the entry gate using their user code

- The user code “333333” has been programmed for User #7. They must press the following keys in succession to activate relay output #2:

  3 3 3 3 3 3

  → The code lock emits a long beep and relay output #2 is activated for 5 seconds. The left LED is lit green for as long as the output is activated.

User #8 (ID 01) wants to access the entry gate using their transponder card

- A transponder card has been programmed for User #7. They only need to hold the transponder card against the code lock to activate relay output #2:

  Swipe the card

  → The code lock emits a long beep and relay output #2 is activated for 5 seconds. The left LED is lit green for as long as the output is activated.

15 Troubleshooting

Preprogrammed settings are not affected by a power cut.

However, the code lock will not work during a power cut and the outputs cannot be activated.

> For safety reasons, we recommend using an uninterruptible power supply for the code lock (as in the case of an alarm system), depending on the intended use.

Problem	Cause	Remedy
The door opener does not work	Power supply is inadequate or missing	Outputs #1 and #2 are regular relays. The door opener must be supplied from the code lock or an external source.
	The door opener is connected in reverse	If the door opener has polarity markings (plus/+ and minus/-), ensure that it is connected to the code lock in the correct polarity.
	Wrong user code is used	Enter the correct user code.
The code lock emits no warning beeps	Beep tones are disabled	Enable beep tones, as described in Chapter 13.7.
User codes do not work	A different code length is used	Changing the code length is the first programming step. You cannot simply change it later, as all codes are based on the preset code length. Changing the code length deletes all previously programmed codes. Each code can consist of 2 to 6 digits. The default setting is 4 digits. Reconfigure the code length.
	Time to enter the code is exceeded	The pause between each key press must not exceed 10 seconds, or the code lock will return to home mode.
The code lock cannot be programmed	The code lock is not in programming mode	Always use the master code first to activate the programming mode (default setting "**1234**" must be changed during setup). After completing programming, press the key # # (press the hash key twice) to leave the programming mode.
	You have forgotten the master code	If you have forgotten the master code, follow the instructions in Chapter 13.3.4.
	Time to enter the code is exceeded	The pause between each key press must not exceed 10 seconds, or the code lock will return to home mode.
Other functionality issues	Reset the code lock to factory defaults (see Chapter 13.9) and reconfigure it. Write down all of the settings so that you can reconfigure them again if needed.	
	Check that the cables of the code lock are connected correctly.	

16 Instructions

In addition to this detailed user manual, you can download the programming overview and the quick guide in six languages from our download area if they are not included.

Please refer to Chapter 3 “Downloading the operating instructions” of this manual.

17 Cleaning and care

Important:

- Do not use aggressive cleaning agents, rubbing alcohol or other chemical solutions. They can damage the housing and can cause the product to malfunction.
- Do not submerge the product in water.
- Never point a garden hose or a high-pressure cleaner at the code lock.

1. Disconnect the product from the power supply.
2. Clean the product with a dry, lint-free cloth.

18 Disposal

This symbol must appear on any electrical and electronic equipment placed on the EU market. This symbol indicates that this device should not be disposed of as unsorted municipal waste at the end of its service life.

Owners of WEEE (Waste from Electrical and Electronic Equipment) shall dispose of it separately from unsorted municipal waste. Spent batteries and accumulators, which are not enclosed by the WEEE, as well as lamps that can be removed from the WEEE in a non-destructive manner, must be removed by end users from the WEEE in a non-destructive manner before it is handed over to a collection point.

Distributors of electrical and electronic equipment are legally obliged to provide free take-back of waste. Conrad provides the following return options **free of charge** (more details on our website):

- in our Conrad offices
- at the Conrad collection points
- at the collection points of public waste management authorities or the collection points set up by manufacturers or distributors within the meaning of the ElektroG

End users are responsible for deleting personal data from the WEEE to be disposed of.

It should be noted that different obligations about the return or recycling of WEEE may apply in countries outside of Germany.

19 Declaration of Conformity (DOC)

Conrad Electronic SE, Klaus-Conrad-Straße 1, D-92240 Hirschau, herewith declares that this product conforms to the 2014/53/EU directive.

- Click on the following link to read the full text of the EU declaration of conformity:
  www.conrad.com/downloads

Enter the product item number in the search box. You can then download the EU declaration of conformity in the available languages.

20 Technical data

20.1 Power supply

Power supply ..... 12 – 24 V/AC or DC

Current consumption ..... Standby max. 30 mA; max. 160 mA

20.2 Code lock

Connection ..... via the integrated screw terminals on the back of the product

Suitable transponders..... commercially available EM transponders for frequency 125 kHz

Memory locations ..... 1010 in total
Relay output 1: 1000 (codes and/or transponders)
Relay output 2: 10 (numerical codes or transponders)

Code length ..... 2 to 6 digits

Output..... 2 potential-free contacts (NO, NC, COM);
activation time can be adjusted separately (0 to 99 seconds);
contact rating max. 30 V/DC for each output, max. 4 A (resistive load)

Additional outputs..... loudspeaker/chime/doorbell; 8 Ohm, 0.5 W
door magnet to recognise door status

Tamper alarm..... optical detection

Keypad backlight ..... yes, blue

Data retention in case of
power failure ..... yes

Mounting location ..... indoors/outdoors

Protection class IP66

20.3 Wireless module

Standard ..... RFID

Frequency..... 125 kHz

Transmission power..... 32 dBm

Range ..... max. 5 cm

20.4 Ambient conditions

Operating/storage temperature .... -30 to +70 °C

Other information

Dimensions (W x H x D) ..... approx. 76 x 119 x 21 mm

Weight ..... approx: 451 g

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