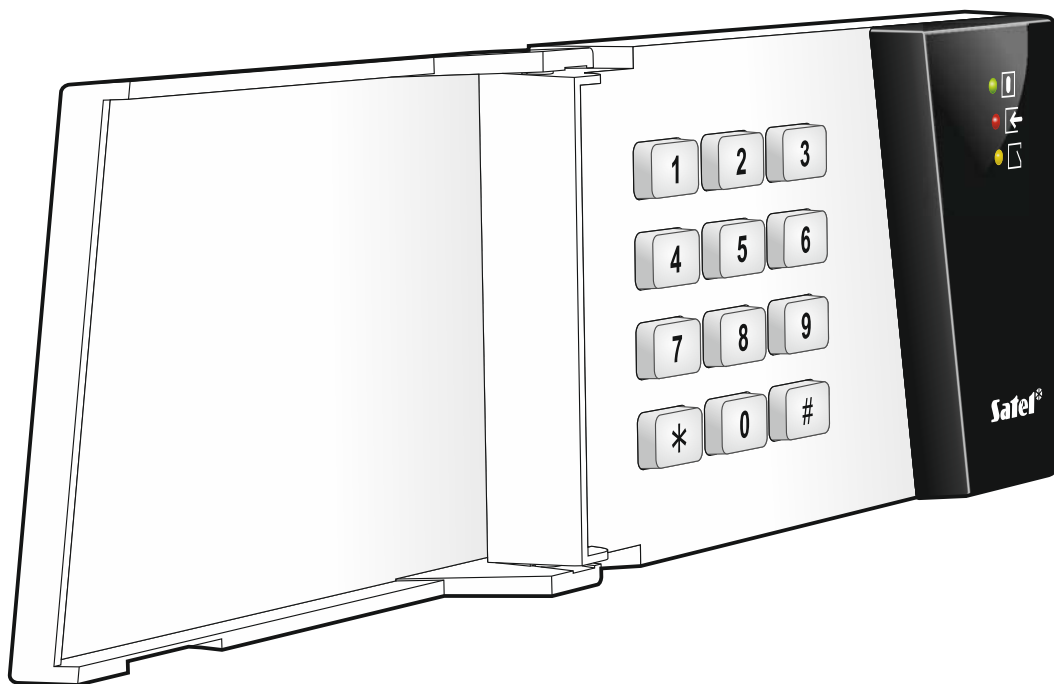


Code lock INT-SZK



Firmware version 2.00

WARNINGS

The device should be installed by qualified personnel.

Read carefully this manual before proceeding to installation.

Changes, modifications or repairs not authorized by the manufacturer shall void your rights under the warranty.

The SATEL's goal is to continually upgrade the quality of its products, which may result in alterations of their technical specifications and firmware. The current information on the introduced modifications is available on our website.

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The following symbols may be used in this manual:

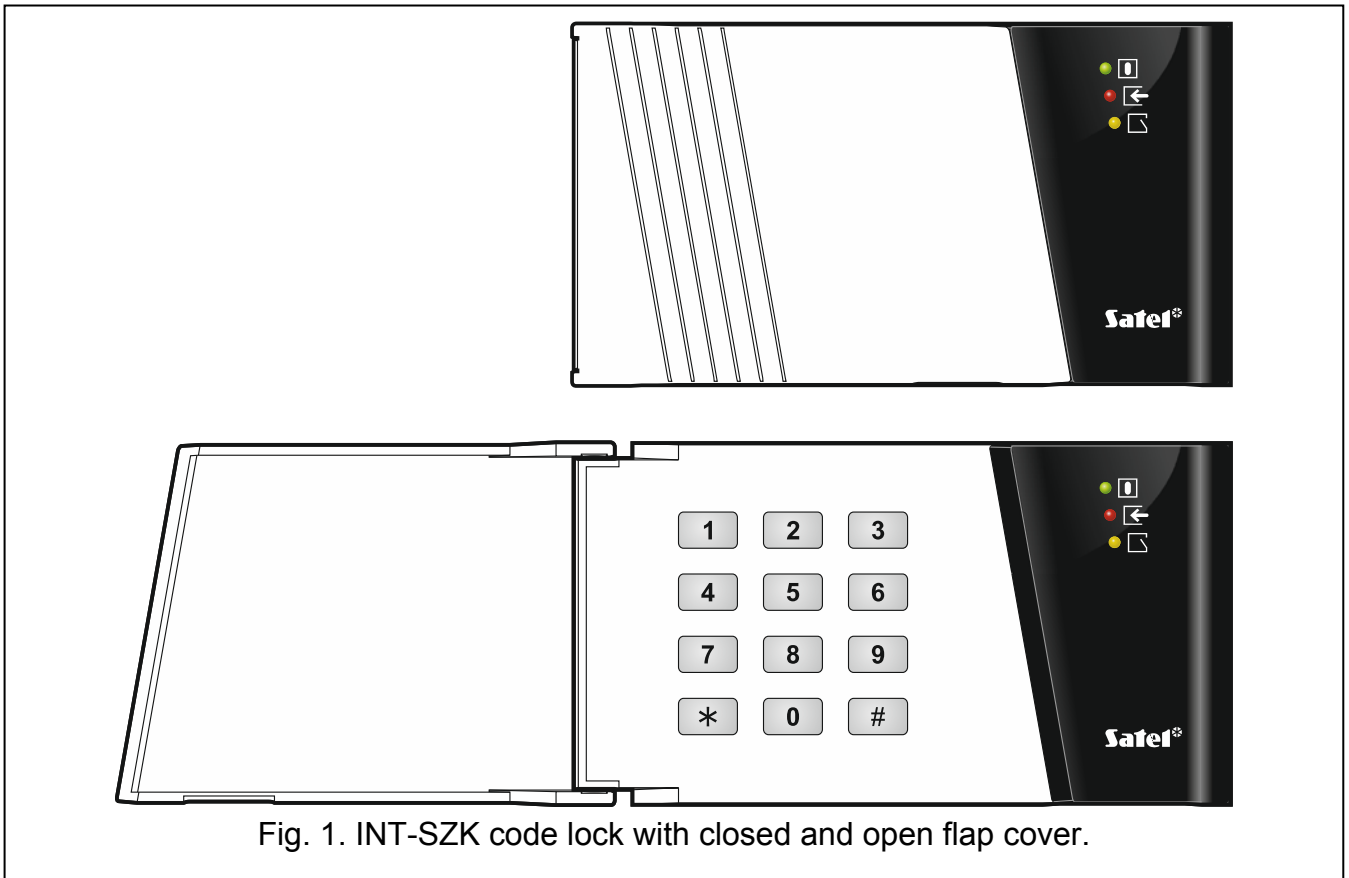


- note;



- caution.

The INT-SZK code lock provides access control features. The device can be used in conjunction with the INTEGRA and INTEGRA Plus control panels.



1. Features

- Access control functions:
 - single door control,
 - relay output for control of electric strike, electromagnetic lock or another door actuator,
 - dedicated input for connecting a door opening sensor.
- Capability of triggering alarm from the keypad.
- Control of 24. MONO SWITCH and 25. BI SWITCH type outputs.
- The ability to change access code by the user.
- LEDs indicating the lock and door status.
- 12 keys with backlighting.
- Built-in sounder.
- Tamper contact reacting to the enclosure opening or removing from the wall.

2. Installation

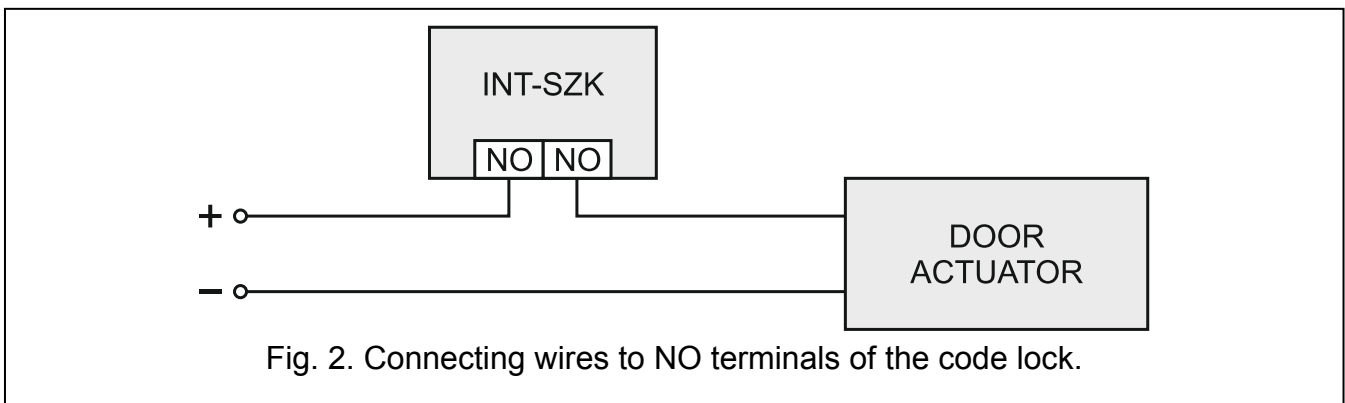


Disconnect power before making any electrical connections.

The code lock is designed for indoor installation. The place of installation should be readily accessible to the system users.

1. Open the code lock enclosure.
2. Set the code lock address (see “Setting address”).

3. Place the enclosure base on the wall and mark the location of mounting holes.
4. Drill the holes for wall plugs (screw anchors).
5. Run the wires through the opening in the enclosure base.
6. Using wall plugs (screw anchors) and screws, fasten the enclosure base to the wall.
7. Connect the CLK, DTA and COM terminals to the appropriate terminals of the control panel expander bus (see the control panel installer manual). It is recommended that an unshielded non-twisted cable be used for making the connection. If you use the twisted-pair type of cable, remember that CLK (clock) and DTA (data) signals must not be sent through one twisted-pair cable. The wires must be run in one cable.
8. Connect the wires for control of electric strike, electromagnetic lock or another door actuator to the NO terminals (see Fig. 2). It is not recommended that the door actuator be powered from the same source as the code lock.



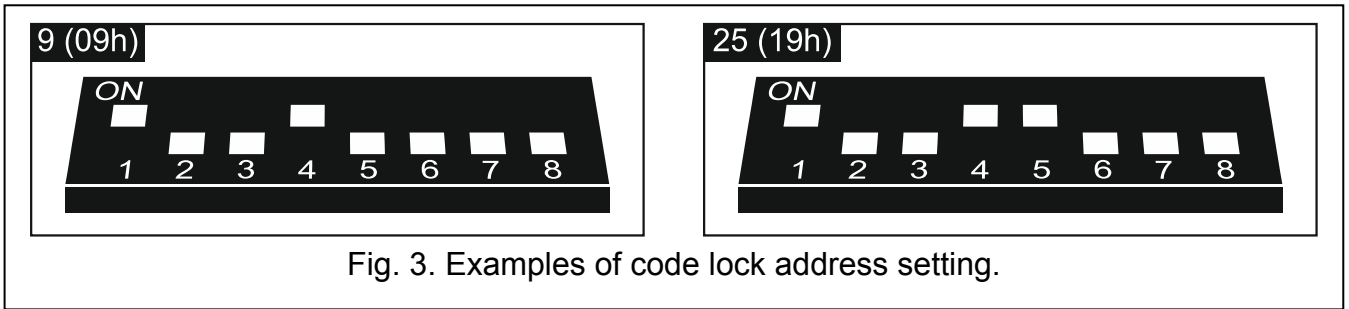
9. Connect the wires of door status sensor to the IN and COM terminals. If the door status is not to be monitored, connect the IN terminal to the code lock COM terminal or, when configuring the code lock, set value 0 for the MAX. DOOR OPEN TIME parameter.
10. Connect the power wires to the +12V and COM terminals. The code lock may be powered directly from the control panel, from an expander with power supply or from a power supply unit.
11. Close the enclosure.
12. Power on the alarm system.
13. Start the identification function in the control panel (see the control panel installer manual). The code lock will be identified as "INT-SZ/SZK".

2.1 Setting address

To set address, use the switches 1-5 of the DIP-switch package. A numerical value is assigned to each switch. In OFF position, the value is 0. Numerical values assigned to individual switches in ON position are shown in Table 1. The sum of numerical values assigned to switches 1-5 means the address set on the module. The address must be different from that on the other modules connected to the communication bus of the control panel.

DIP-switch number	1	2	3	4	5
Numerical value	1	2	4	8	16

Table 1.



2.2 Description of terminals

- NO** - relay output
- IN** - door status monitoring input (NC)
- COM** - common ground
- +12V** - power input
- DTA** - data (expander communication bus)
- CLK** - clock (expander communication bus)

3. Configuration

Parameters and options of the code lock can be configured using:

- LCD keypad: ►SERVICE MODE ►STRUCTURE ►HARDWARE ►EXPANDERS ►SETTINGS ►[name of code lock],
- DLOADX program: →“Structure” window →“Hardware” tab →“Expansion modules” branch →[name of code lock].

3.1 Description of parameters and options

Shown in square brackets are the names of parameters and options as they are presented on the LCD keypad display.

Name – individual name of the device (up to 16 characters).

Partition – partition to which the code lock belongs (alarms will be triggered in this partition).

Lock features [Lock function] – relay operating mode after entering the code and pressing * or #:

Fixed ON time [ON time] – the relay is active for the duration of RELAY ON TIME.

Fixed ON time – OFF if door open [ON, open→off] – the relay is active until the door is opened (the door status monitoring input disconnected from common ground), but not longer than for the duration of RELAY ON TIME.

Fixed ON time – OFF if door closed [ON, close→off] – the relay is active until the door is closed (the door status monitoring input reconnected to common ground), but not longer than for the duration of RELAY ON TIME.

Relay ON time – the time period during which the relay can be active. You can enter from 1 to 255 seconds.

Relay [Relay type] – status of the deactivated relay:

NO [Normal.open NO] – the relay contacts are open (they close on activating the relay).

NC [Normal.closed NC] – the relay contacts are closed (they open on activating the relay).

Authorization control [Unauth. event] – if this option is enabled, unauthorized opening of the door will save the event to the control panel memory.

Alarm on unauth. access [Unauth. alarm] – if this option is enabled, unauthorized opening of the door when the partition is armed will trigger an alarm. The option is available if the AUTHORIZATION CONTROL option is enabled.

Max. door open time – the maximum period of time during which the door can be open (the door status monitoring input can be disconnected from common ground). If the door is open longer, audible alarm will be triggered in the code lock, and the event will be saved to the control panel memory. You can enter from the 0 to 255 seconds. If value 0 is programmed, the door status will not be monitored.

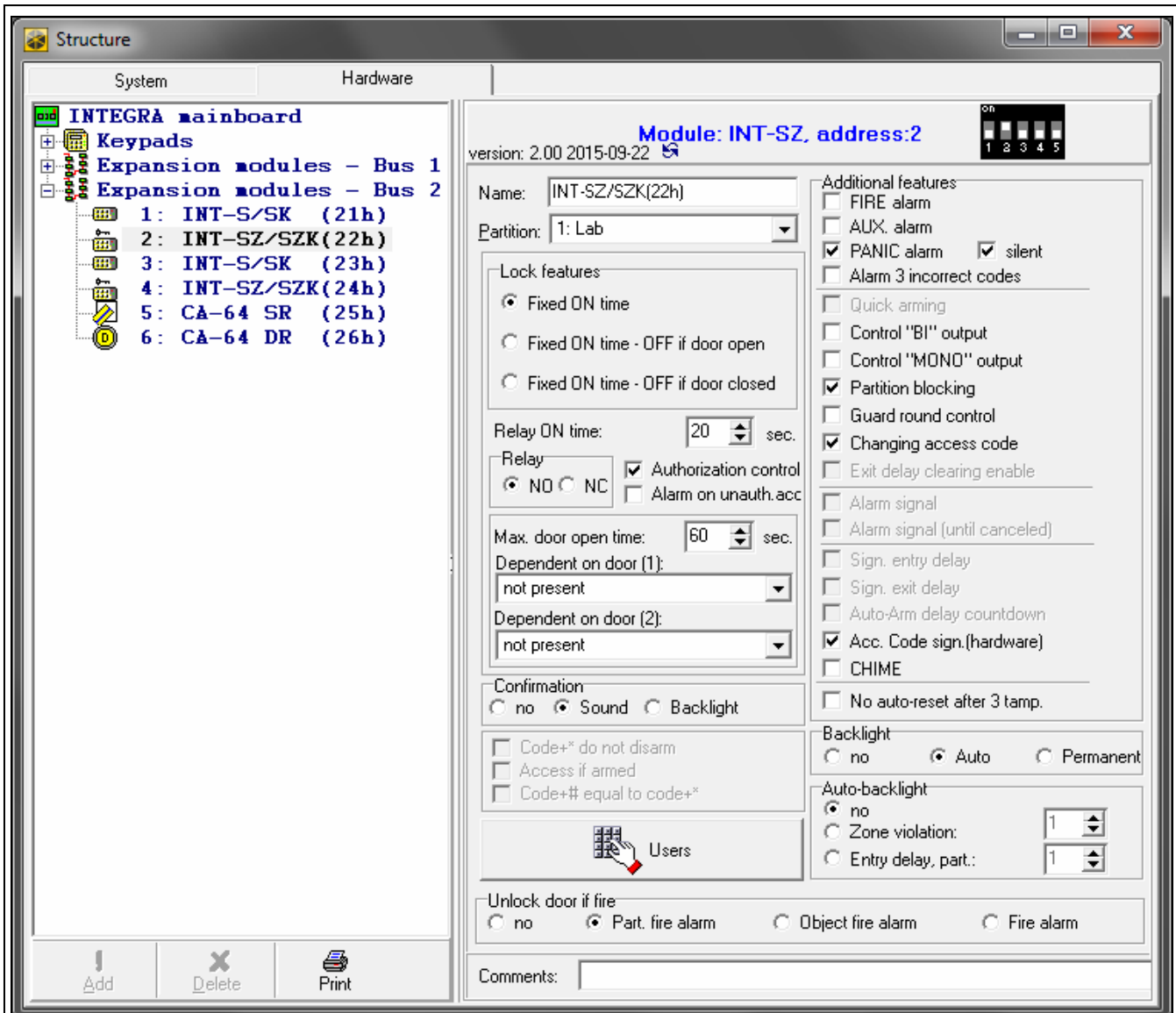


Fig. 4. DLOADX program: parameters and options of code lock.

Dependent on door (1) / Dependent on door (2) – you may define the door that must be closed to be able to unlock the door controlled by the code lock (to activate the relay). You may define a door supervised by another expander or alarm system zone programmed as type 57 TECHNICAL – DOOR OPEN.

Confirmation – you can select whether and how the code lock is to communicate with the user during operation:

No – the code lock will not inform the user in any way about execution of or refusal to execute an operation.

Sound – the code lock will inform the user audibly about execution of or refusal to execute an operation.

Backlight – the code lock will inform the user by blinking key backlight about execution of or refusal to execute an operation.

Users [Master users / Users] – define the master users (administrators) and users authorized to use the device.

FIRE alarm – if this option is enabled, pressing and holding for 3 seconds will trigger the fire alarm.

AUX. alarm [Medical alarm] – if this option is enabled, pressing and holding for 3 seconds will trigger the medical alarm.

PANIC alarm – if this option is enabled, pressing and holding for 3 seconds will trigger the panic alarm.

silent [Silent panic] – if this option is enabled, the panic alarm triggered from the keypad will be a silent alarm (without audible alarm signal). This option is available, if the PANIC ALARM option is enabled.

Alarm 3 incorrect codes [3 wrong codes] – if this option is enabled, entering a wrong code three times will trigger an alarm.

Control “BI” output [BI outs ctrl.] – if this option is enabled, the code lock accepts the “BI” OUTPUT OPERATING type of codes.

Control “MONO” output [MONO outs ctr.] – if this option is enabled, the code lock accepts the “MONO” OUTPUT OPERATING type of codes.

Partition blocking [Part.blocking] – if this option is enabled, entering the BLOCKING PARTITION or GUARD type of code will temporarily block the partition when armed (violating a zone belonging to the partition will not trigger any alarm). The time of blocking should be defined for the partition or the code (of the BLOCKING PARTITION type).

Guard round control [Guard control] – if this option is enabled, entering the GUARD type of code will be recorded as completion of a guard round.

Changing access code [Changing code] – if this option is enabled, the user can change own code from the code lock.

Acc. code sign. (hardware) [Code entered] – if this option is enabled, the code lock will confirm with a single beep that the code has been entered. This signal is useful where a time lag occurs between entering the code and generating the audible signal after verification of the code by the control panel.

CHIME [Chime zones] – if this option is enabled, the code lock will audibly signal violation of zones with CHIME IN MODULE option enabled, belonging to the same partition as code lock.

No auto-reset after 3 tamp. [No autorst.3t.] – if this option is enabled, the feature reducing the number of tamper alarms from the module to three is disabled (the feature prevents multiple logging of the same events and applies to successive uncleared alarms).

Backlight – you can define how the key backlight will operate:

No – OFF.

Auto – goes on automatically after any key is pressed. Additionally, it can be turned on if a specific event occurs (see the AUTO-BACKLIGHT parameter). The backlight goes on for about 40 seconds from pressing the key / occurrence of the event.

Permanent – ON.

Auto-backlight – if the key backlight comes on automatically, you can additionally define whether and what event will turn the backlight on:

No – the key backlight will only go on after pressing any key.

Zone violation – the key backlight will additionally go on if a selected zone is violated.

Entry delay, part. – the key backlight will additionally go on if entry delay countdown starts in the selected partition.

Unlock door if fire [Doors on fire] – you can define whether and when the fire alarm will unlock the door controlled by the code lock (i.e. will activate the relay):

No [no open] – the door will not be unlocked in the event of fire alarm.




Part. fire alarm [on partit. fire] – the door will be unlocked in the event of fire alarm in the partition to which the code lock belongs.

Object fire alarm [on object fire] – the door will be unlocked in the event of fire alarm in the object to which the code lock belongs.

Fire alarm [on any fire] – the door will be unlocked in the event of fire alarm in the alarm system.

4. Operation

4.1 Description of LED indicators

LED	Color	Description of indications
	green	ON – code lock is operated by the control panel
	red	ON – door unlocked
	yellow	blinking – door open



All LEDs blinking in turn indicate that there is no communication with the control panel.

4.2 Description of audible signaling

4.2.1 Beeps generated when operating



Audible signaling can be disabled or replaced with blinking of the key backlight (see section "Configuration").

1 short beep – pressing of any number key or confirmation that code has been entered.

4 short and 1 long beeps – confirmation of door unlocking or execution of another function.

3 pairs of short beeps – the user should change his/her code.

2 long beeps – unknown code.

3 long beeps – unavailable function.

4.2.2 Signaling events



You can define which events will be audibly signaled (see section "Configuration").

5 short beeps – zone violation (CHIME).

Very short beeps – door open too long.

4.3 Code

Most functions are only available after entering the code using the number keys (authorization by means of the code). By factory default, the following codes are programmed in the control panel:

service code: 12345

object 1 master user (administrator) code: 1111



The factory default codes should be changed before you start using your alarm system

Do not make your code available to other people.

4.4 Available functions

4.4.1 [Code] * / [Code]

Depending on the type and rights of the user and code lock settings, entering the code and pressing * or # will result in:

- unlocking the door (activating the relay),
- toggling the status of 25. BI SWITCH type outputs,
- activating the 24. MONO SWITCH type outputs,
- confirming guard round,
- temporarily blocking the partition.

4.4.2 Triggering the alarm from keypad



Triggering the alarm from the keypad is possible, if respective options are enabled in the code lock settings.

Fire alarm – press and hold the * key for about 3 seconds.

Medical (auxiliary) alarm – press and hold the 0 key for about 3 seconds.

Panic alarm – press and hold the # key for about 3 seconds. It depends on the code lock settings whether the loud panic alarm (with loud alarm signal) or the silent panic alarm (without loud alarm signal) will be triggered.

4.4.3 Code changing



The user can change their code, if the CHANGING ACCESS CODE [CHANGING CODE] option is enabled.

1. Press and hold the 1 key for about 3 seconds.
2. When the I and ← LEDs start blinking alternately, enter the old code and press #.
3. When the I and □ LEDs start blinking alternately, enter the new code and press #.

5. Specifications

Supply voltage	12 V DC ±15%
Standby current consumption	35 mA
Maximum current consumption	55 mA
Relay output rating (resistive load)	2 A / 24 V DC

Environmental class according to EN50130-5	II
Operating temperature range.....	-10 °C...+55 °C
Maximum humidity	93±3%
Dimensions	144 x 80 x 27 mm
Weight.....	160 g