

The SZW-02 code lock is designed to control the alarm system, electric strike, electromagnetic lock or another device.

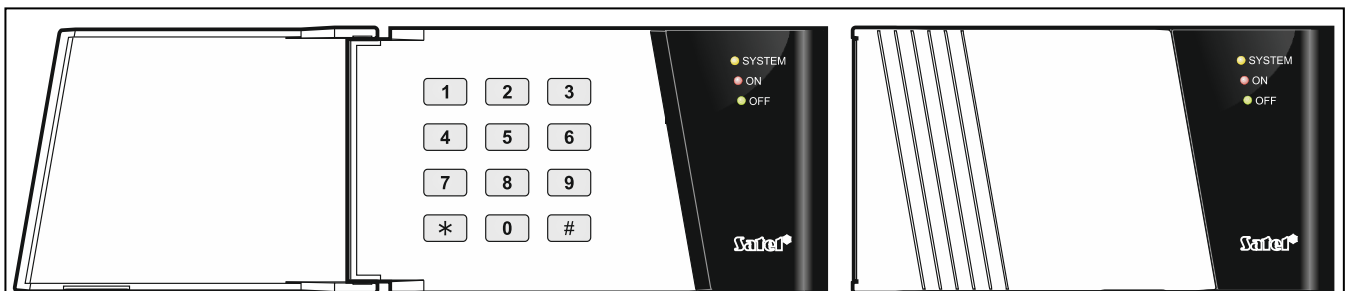


Fig. 1: SZW-02 code lock with open and closed flip cover.

## 1 Features

- Relay output for control of devices with current consumption up to 2 A.
  - output type: NO or NC,
  - operating mode: bistable or monostable.
- ALM output (OC type) turned on when an invalid code is entered three times.
- Ability to change the code by the user.
- LED indicators.
- Control input for the LED.
- 12 keys with backlighting.
- Built-in piezoelectric transducer for acoustic signaling.
- Tamper protection against enclosure opening and removal from the wall.

## 2 Installation



**The lock should be installed by qualified personnel.**

**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 users.

1. Place the enclosure base on the wall and mark the location of mounting holes.
2. Drill the holes for wall plugs (anchors).
3. Run the wires through the opening in the enclosure base.
4. Using wall plugs (anchors) and screws, fasten the enclosure base to the wall. Select wall plugs specifically intended for the mounting surface (different for concrete or brick wall, different for drywall, etc.).
5. Connect the wires for device control to the C terminals (relay output).
6. You can connect the ALM terminals to the alarm control panel zone.
7. You can connect the TMP terminals to the alarm control panel zone.

- 8. Connect the power wires to the +12V and GND terminals.
- 9. Close the enclosure.
- 10. Turn the power on.

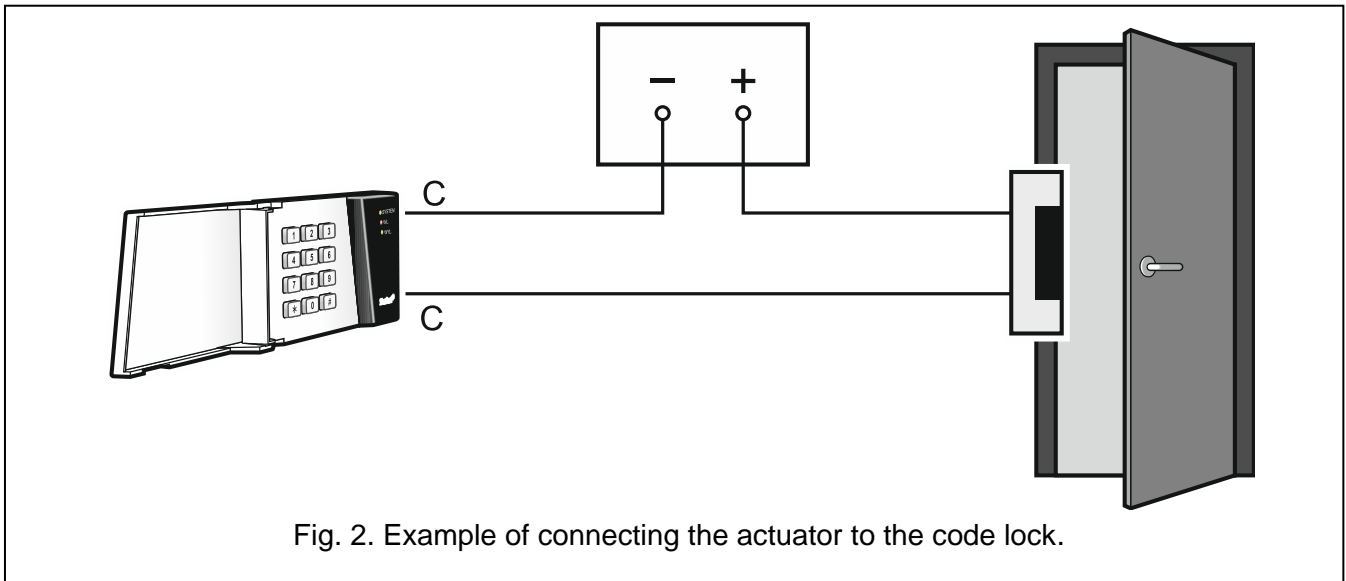


Fig. 2. Example of connecting the actuator to the code lock.

### 2.1 Terminals

- GND** – common ground
- C** – relay output
- +12V** – power input
- TMP** – tamper output (NC)
- ALM** – output indicating that invalid code has been entered three times (OC type output – shorted to common ground when active)
- +LD, -LD** – control input for the SYSTEM LED

## 3 Using

### 3.1 LED indicators

LED	Color	Description
SYSTEM	yellow	function determined by the installer
ON	red	relay output turned on
OFF	green	relay output turned off

### 3.2 Code

In order to be able to use the lock, enter the code on the numerical keypad.  
 By factory default, the following codes are programmed in the code lock:

**service code: 12345**

**user code: 1234**



**Change the factory default codes before you start using the code lock.**

**Do not make your code available to other people.**

Entering an invalid code is indicated by two beeps. After an invalid code is entered three times, the ALM output will turn on. The ALM output will be turned off when the valid code is entered.

### 3.3 Controlling the relay output

Enter the code and press . The output will be turned on for a preset time (monostable mode) or switched (bistable mode).

### 3.4 Changing the user code

1. Enter the code and press . The red and green LEDs will start flashing.
2. Enter the new code (from 1 to 12 digits) and press . The change of code will be confirmed by four short and one long beep.



*A secure code should contain at least 4 digits.*

### 3.5 Service mode

#### Starting the service mode from keypad

1. Enter the service code.
2. Press .

#### Starting the service mode from pins

1. Power down the code lock.
2. Put a jumper on the RESET pins.
3. Power on the code lock.
4. Remove the jumper from the RESET pins.

Starting the service mode will be confirmed by four short and one long beep. When the lock operates in the service mode, the green and red LEDs are flashing alternately and short intermittent beeps are generated.

#### Service functions

Starting of a function is confirmed by three short beeps. Exiting the function after confirmation of changes is indicated by four short and one long beep.

If no key is pressed for 45 seconds after the function was called, the lock will exit the function without saving the changes.

Pressing  will exit the function without saving the changes.

- |   |   |
|---|---|
| <input type="button" value="0"/> <input type="button" value="#"/> | <b>exit service mode</b>  |
| <input type="button" value="1"/> <input type="button" value="#"/> | <b>change service code</b> – after the function is started, the red LED will be flashing rapidly. Enter the new code (1...12 digits) and press <input type="button" value="#"/> .   |
| <input type="button" value="2"/> <input type="button" value="#"/> | <b>relay output operating mode</b> – after the function is started, the LED indicating the current configuration will go on (green – bistable mode; red – monostable mode). Change the configuration by pressing:<br><input type="button" value="1"/> – bistable mode;<br><input type="button" value="2"/> – monostable mode.<br>Press <input type="button" value="#"/> to confirm changes. |
| <input type="button" value="3"/> <input type="button" value="#"/> | <b>relay output type</b> – after the function is started, the LED indicating the current configuration will go on (green – NO; red – NC). Change the configuration by pressing:<br><input type="button" value="1"/> – NO (contacts open);<br><input type="button" value="2"/> – NC (contacts closed).   |

Press  to confirm changes.

**operating time in monostable mode** – after the function is started, the green LED will be flashing rapidly. Use the keypad to enter the length of time for which the relay output is to remain in the monostable mode (1...999 seconds). Press  to confirm changes.

**keypad backlighting mode** – after the function is started, press:

– always off;

– automatically on (after pressing any key);

– always on.

Press  to confirm changes.

**restore default settings**

## 4 Factory default settings

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Factory default codes:

- user: 1234,
- service: 12345.

Relay output operating mode: monostable.

Relay output type: NO.

Operating time in monostable mode: 5 seconds.

Keypad backlighting mode: automatic.

## 5 Specifications

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Supply voltage .....	9...16 VDC
Standby current consumption .....	18 mA
Maximum current consumption .....	58 mA
ALM output (OC type).....	30 mA / 12 VDC
Relay output .....	2 A / 28 VDC
Weight .....	156 g

The declaration of conformity may be consulted at [www.satel.eu/ce](http://www.satel.eu/ce)