PROXXY

Stand Alone Access Control
with transponder reader

 INSTALLATION INSTRUCTIONS

- Lighted and acoustic feedback
- Capacity to manage up to 200 users
- Does not require a remote unit
- Programmable from PC
- Dust and waterproof
- Simple and intuitive to use
- Tamper-proof system
- Antiscan signal
- Configurable auxiliary input and output
CONTENTS

1 - INTRODUCTION ................................................................. PAG. 3

2 - PACKAGE CONTENTS ....................................................... PAG. 3

3 - FEATURES ................................................................. PAG. 4

4 - INSTALLATION ................................................................. PAG. 4

  4.1 - ACCESS CONTROL UNIT DISASSEMBLY ......................... PAG. 5
  4.2 - CABLE SLEEVE SELECTION ........................................ PAG. 6
  4.3 - FASTENING TO A WALL ................................................ PAG. 6
  4.4 - TAMPER-PROOF PROTECTION ........................................ PAG. 7

5 - ELECTRICAL CONNECTIONS ............................................. PAG. 8

  5.1 - POWER SUPPLY CONNECTION DIAGRAM ....................... PAG. 8
  5.2 - RELAY OUTPUT CONNECTION DIAGRAM ......................... PAG. 9
  5.3 - AUXILIARY INPUT CONNECTION DIAGRAM (OPTIONAL) .... PAG. 9
  5.4 - AUXILIARY OUTPUT CONNECTION DIAGRAM (OPTIONAL) .... PAG. 9
  5.5 - ANTI-FORCING OUTPUT CONNECTION DIAGRAM (OPTIONAL) PAG. 10

6 - PROGRAMMING ............................................................. PAG. 10

  6.1 - USER MANAGEMENT ................................................ PAG. 11
  6.2 - CHANGING THE OPERATION PARAMETERS ....................... PAG. 12
  6.3 - LIGHT AND ACOUSTIC SIGNALS ................................... PAG. 15
  6.4 - PROGRAMMING VIA PC ............................................. PAG. 16

7 - DISPOSAL .......................................................................... PAG. 16

8 - FREQUENT OPERATIONS .................................................. PAG. 17

  8.1 - STARTUP OF THE APPARATUS AFTER INSTALLATION ............ PAG. 17
  8.2 - PROGRAMMING MODE ENTRY/EXIT ................................ PAG. 18
  8.3 - STANDARD USER STORAGE .......................................... PAG. 18
  8.4 - MASTER USER STORAGE ............................................. PAG. 19
  8.5 - STANDARD AND MASTER USER DELETION......................... PAG. 19
1 INTRODUCTION

The access control system allows to control and limit access to places or services to authorized persons only. It does not require a remote unit: despite its compact dimensions, it provides numerous functionalities working in a completely autonomous manner.

The recognition may occur bringing a previously stored keychain-transponder MOVHE MOOVY close to the peripheral MOVHE PROXXY.

The recognition of a valid or invalid user code is signalled acoustically and visually, through the lighting of the front LED (see Fig.3).

2 PACKAGE CONTENTS

- No.1 Access Control Unit
- No.1 IP68 Cable Sleeve
- No.1 Packet of screws and plugs including:
  - No.2 screws and plugs Ø6 for fastening the unit to a wall
  - No.2 self-threading screws 4.2x13 for fastening the unit on a panel or tubing
  - No.1 burglar-proof countersunk-head screw M3x8 Torx TX10 for frame fastening
- 10-15V DC / 12V AC power supply voltage with automatic selection.
- NO/NC Relay output contact with 5A-24V capacity.
- Bistable or monostable relay mode with programmable activation time.
- No.1 input configurable as opening push button.
- No.1 Open-Collector NPN output with maximum current 100 mA and configurable signal (valid or invalid code, relay status replication, antiscan, programming status, etc.).
- Transponder Tag reader
- Parameter programming through dip-switch on the board.
- Possibility to activate programming and deletion of users using a Master user code.
- Maximum number of users managed: 200. Each user can be a Master user with the possibility to activate user management.
- Antiscan function to signal attempts to force entry with invalid codes.
- Acoustic signalling with adjustable volume which can be turned off.
- Overvoltage and interference protection for all the board inputs and outputs.
- Overcurrent protection of the board outputs with self-resetting fuses.
- PC programming through MOVHEPROG programmer and Mini-USB connector.
- Maximum dimensions: Height 148 mm x Width 51 mm x Depth 34 mm (see Fig.3).
- Operating temperature: -10°C ÷ +50°C.
- Degree of protection: IP67 (using the appropriate cable sleeve provided)
- Max degree of humidity: 95%
4 INSTALLATION

4.1 ACCESS CONTROL UNIT DISASSEMBLY

To install and wire the access control unit, the plastic parts of the control unit must be disassembled. In reference to Figure 5, proceed as follows:

1 - Open the package and extract the access control unit (A)
2 - Unscrew the M3x8 countersunk socket-head screw (B) that fastens the frame (C) using a 2mm Allen key.
3 - Release the lower closing tooth of the frame (C) by turning it slightly upwards
4 - Extract the frame (C)
5 - Unscrew the 4 self-threading screws (D)
6 - Separate the complete electronics shell (E) from the base (F)

⚠️ Be careful not to remove the rubber gasket, which must remain united with the base (F), and the USB plug, which must remain united with the shell (E), from their appropriate seats.

Now you may proceed with the installation and wiring of the access control unit.
To reassemble the access control unit, follow the disassembly steps in the reverse order.
### 4.2 CABLE SLEEVE SELECTION

In reference to Figure 7, two types of cable sleeve can be applied to the base:

- **Cable sleeve “A”**
- **Cable sleeve “B”**

A - type “A” cable sleeve, provided already assembled on the base, to be drilled according to the cable dimension. This cable sleeve guarantees a moderate protection against dust but not water (IP54).

B - type “B” cable sleeve, provided in the package. This cable sleeve, if assembled properly, guarantees a perfect seal against dust and water (IP67).

For outdoor applications and in all cases in which a good water and dust seal is required, the type “B” cable sleeve must be assembled following the indications in Figure 7. The larger dimensions of this cable sleeve must be taken into consideration during installation. For indoor applications, the type “A” cable sleeve is sufficient.

### 4.3 FASTENING TO A WALL

Il controllo accessi è fornito di viti e tasselli per il fissaggio su muro, pannello o tubolare. Eseguire il fissaggio come da fig.8 (su muro) o 9 (su pannello o tubolare).

The access control unit, if fitted with an IP68 cable sleeve (see Section 4.2), can also be installed outdoors.
4.4 TAMPER-PROOF PROTECTION

The Movhe Access control unit is provided with an additional screw equipped with burglar-proof head impression. If you would like to guarantee a certain resistance to tampering attempts, replace the standard screw with the burglar-proof screw included in the package (see Fig.11). The screw must be tightened using the appropriate insert which is available separately as an accessory.
Before carrying out the wiring, make sure that the product's characteristics are compatible with the intended use, especially with regard to the power supply voltage and electrical load connected to the output relay.

Make the connection as indicated in Fig.13.

If a direct-current power supply is being used, strictly respect the polarities indicated. If an alternating-current power supply is being used, no specific polarity needs to be respected.
The appliance must have a maximum capacity of 5A/24V.

The relay output can be set as bistable or monostable with different activation times. See Section 6.2

The auxiliary input can be used, for example, to connect an opening push button (the closure of the contact always activates the relay), as shown in Fig. 15.

For the activation or deactivation of the auxiliary input, see section 6.2.

Each Open-Collector auxiliary output offers the possibility to connect a relay, an LED (with appropriate resistor in series), etc.

As an example, Fig.16 schematizes the connection of a relay powered by the same power supply network as the access control unit.

⚠️ The two NPN auxiliary outputs have a maximum current of 100 mA and output voltage, in direct current, equal to that of the control unit power supply.

For the activation/deactivation of the auxiliary output settings, see section 6.2.
5.5 ANTI-FORCING OUTPUT CONNECTION DIAGRAM (OPTIONAL)

It is possible to signal, through the "Tamper" output (Terminal J4), an attempt to force entry or disassemble the access control unit. This signal can be used to turn on a light and/or acoustic signal or to supply a pulse to a burglar alarm system.

The Tamper contact is N.C.: it is open when the access control unit is correctly disassembled and closes when a disassembly attempt is detected.

6 PROGRAMMING

To change the operation parameters and manage the user codes, it is necessary to enter the Programming Mode by entering a special "MASTER" code.

**STANDARD USER CODE** = allows to activate the output.

**MASTER USER CODE** = allows to activate the output and enter the Programming Mode, and thus register/delete other user codes and change the operation parameters.

Each transponder can be stored by choice as a standard or master user code.

⚠️ If there are no registered users (First Startup), the unit automatically enters the Programming Mode when the first transponder is detected. The first user code stored will always be a Master code and can be used for storing additional user codes or to exit the Programming Mode. **Be particularly careful to preserve the first transponder stored**, since it will be used for subsequent programming operations.

<table>
<thead>
<tr>
<th>Operation</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENTRY IN THE PROGRAMMING MODE</td>
<td>Bring a MASTER transponder close to the access control unit and leave it in the detection field for at least 5 seconds.</td>
</tr>
<tr>
<td>EXIT FROM THE PROGRAMMING MODE</td>
<td>Bring the same MASTER transponder used to enter the Programming Mode close to the access control unit again. For security reasons, the programming mode is always automatically exited after 30 seconds of inactivity.</td>
</tr>
<tr>
<td>FIRST STARTUP</td>
<td>Bring a transponder close to the access control unit: it will be stored as the first MASTER user code and the unit will automatically enter the Programming Mode.</td>
</tr>
</tbody>
</table>

TAB.1
6.1 USER MANAGEMENT

Once the Programming Mode has been activated, it is possible to store new standard or master users or delete those already existing (Single User Deletion) proceeding according to the diagram in Fig.18 or following the indications in Table 2.

All the users stored in the memory can be deleted (Total User Deletion), including the MASTER stored at the First Startup. In this case, at the end of the deletion, the unit returns to the First Startup condition described in Table 1: when the first code is entered on the keypad, the access control unit enters the Programming Mode and stores the first user code as a MASTER code. To perform the Total User Deletion, see section 6.2.

The user codes can also be stored as Master codes by appropriately setting the Dip Switches S2 on the board. To perform this operation, it is necessary to disassemble the apparatus and set the Dip Switches S2 as indicated in Table 2.

<table>
<thead>
<tr>
<th>Description</th>
<th>Dip Switch S2</th>
</tr>
</thead>
<tbody>
<tr>
<td>Master Code Storage</td>
<td>OFF OFF ON ON</td>
</tr>
</tbody>
</table>

Tab.2

A maximum of 200 users can be stored. When this limit is reached, the unit will allow user deletion only

---

**Operation**

<table>
<thead>
<tr>
<th>Operation</th>
<th>1. Select the code by bringing the transponder close to the detection area and pressing the OK key. Pressing the OK key is always required regardless of which code protection mode is selected.</th>
</tr>
</thead>
<tbody>
<tr>
<td>STORING/DELETING USER CODES</td>
<td>2. If the code is already stored, will delete the code.</td>
</tr>
<tr>
<td></td>
<td>3. If the code is new, the code will be stored.</td>
</tr>
</tbody>
</table>

Tab.3
**6.2 CHANGING THE OPERATION PARAMETERS**

Once the Programming Mode has been activated, it is possible to view and modify the values of the device parameters according to the diagram in Fig.19 or following the indications in Table 4.

It is also possible to carry out special operations, such as the Total User Deletion, or reset the default parameters.

---

**Operation**

1. In the Programming Mode the parameter is selected by setting the Dip Switches in the appropriate manner (see the table below and Fig.12).
2. The current value of the parameter is indicated by the number of consecutive flashes of the Green LED.
3. The parameter can be changed using the P1 "+" and P2 "-" keys (see Fig.12).

---

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Description</th>
<th>Range</th>
<th>Dip Switch S2</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>Normal operation</td>
<td></td>
<td>OFF OFF OFF OFF</td>
</tr>
<tr>
<td>1</td>
<td>Monostable/Bistable Relay Mode and activation time</td>
<td>1÷5</td>
<td>ON OFF OFF OFF</td>
</tr>
<tr>
<td>2</td>
<td>Signal Tone volume</td>
<td>1÷5</td>
<td>OFF ON OFF OFF</td>
</tr>
<tr>
<td>4</td>
<td>Opening Input Enable</td>
<td>1÷2</td>
<td>OFF OFF ON OFF</td>
</tr>
<tr>
<td>6</td>
<td>Enabling and Setting the Antiscan Mode</td>
<td>1÷9</td>
<td>OFF ON ON OFF</td>
</tr>
<tr>
<td>8</td>
<td>Signals on Open-Collector output</td>
<td>1÷6</td>
<td>OFF OFF OFF ON</td>
</tr>
<tr>
<td>9</td>
<td>PC Access Protection Mode</td>
<td>1÷2</td>
<td>ON OFF OFF ON</td>
</tr>
<tr>
<td>3</td>
<td>Memorizzazione Codice Master</td>
<td></td>
<td>OFF OFF ON ON</td>
</tr>
<tr>
<td>14</td>
<td>Total User Deletion (*)</td>
<td></td>
<td>OFF ON ON ON</td>
</tr>
<tr>
<td>15</td>
<td>Setting the Default Parameters (*)</td>
<td></td>
<td>OFF ON ON ON</td>
</tr>
</tbody>
</table>

(*) To carry out these operations, for security reasons, it is necessary to select the parameter and confirm by pressing the P1 and P2 keys simultaneously for at least 5 seconds.

---

During the normal operation the Dip-Switch must always be all OFF
**PARAMETER 1 - RELAY MODE**

<table>
<thead>
<tr>
<th>Value</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Bistable Mode</td>
</tr>
<tr>
<td>2</td>
<td>Monostable Mode, Activation 0.5 seconds</td>
</tr>
<tr>
<td>3</td>
<td><strong>Monostable Mode, Activation 1 second (Default)</strong></td>
</tr>
<tr>
<td>4</td>
<td>Monostable Mode, Activation 2 seconds</td>
</tr>
<tr>
<td>5</td>
<td>Monostable Mode, Activation 3 seconds</td>
</tr>
<tr>
<td>6</td>
<td>Monostable Mode, Activation 5 seconds</td>
</tr>
<tr>
<td>7</td>
<td>Monostable Mode, Activation 7 seconds</td>
</tr>
<tr>
<td>8</td>
<td>Monostable Mode, Activation 10 seconds</td>
</tr>
<tr>
<td>9</td>
<td>Monostable Mode, Activation 20 seconds</td>
</tr>
</tbody>
</table>

The relay output (terminal J7) can be set as bistable or monostable with different activation times. For the connection diagram, refer to Fig.14..

**PARAMETER 2 - SIGNAL TONE VOLUME**

<table>
<thead>
<tr>
<th>Value</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Tones Disabled</td>
</tr>
<tr>
<td>2</td>
<td>Tones Enabled at 25%</td>
</tr>
<tr>
<td>3</td>
<td><strong>Tones Enabled at 50% (default)</strong></td>
</tr>
<tr>
<td>4</td>
<td>Tones Enabled at 75%</td>
</tr>
<tr>
<td>5</td>
<td>Tones Enabled at 100%</td>
</tr>
</tbody>
</table>

**PARAMETER 4 - OPENING INPUT ENABLE**

<table>
<thead>
<tr>
<th>Value</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Input for opening command disabled (Default)</td>
</tr>
<tr>
<td>2</td>
<td>Input for opening command enabled</td>
</tr>
</tbody>
</table>

Enables the auxiliary input J7-IN for the connection of an opening push button, for example.
**PARAMETER 6 - ANTISCAN MODE**

<table>
<thead>
<tr>
<th>Value</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Antiscan Disabled</td>
</tr>
<tr>
<td>2</td>
<td>Antiscan Enabled at 1 attempt</td>
</tr>
<tr>
<td>3</td>
<td>Antiscan Enabled at 2 attempts</td>
</tr>
<tr>
<td>4</td>
<td>Antiscan Enabled at 3 attempts (default)</td>
</tr>
<tr>
<td>5</td>
<td>Antiscan Enabled at 4 attempts</td>
</tr>
<tr>
<td>6</td>
<td>Antiscan Enabled at 5 attempts</td>
</tr>
<tr>
<td>7</td>
<td>Antiscan Enabled at 6 attempts</td>
</tr>
<tr>
<td>8</td>
<td>Antiscan Enabled at 7 attempts</td>
</tr>
<tr>
<td>9</td>
<td>Antiscan Enabled at 8 attempts</td>
</tr>
</tbody>
</table>

The system has an antiscan mode that can be activated and configured which allows to recognize and signal any attempts to force entry with invalid codes. If the functionality is active, after a programmable number of continuous access attempts with invalid user codes, the unit activates the internal antiscan status which can be signalled using the configurable output J4. The signal resets upon recognition of a valid user code.

**PARAMETER 8 - SIGNALS ON OPEN-COLLECTOR OUTPUT**

<table>
<thead>
<tr>
<th>Value</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>OFF</td>
</tr>
<tr>
<td>2</td>
<td>OFF</td>
</tr>
<tr>
<td>3</td>
<td>OFF</td>
</tr>
<tr>
<td>4</td>
<td>ON</td>
</tr>
</tbody>
</table>

The auxiliary output J1-Out (Ref.Par.5.4) can be programmed to return the signals listed in Table 10.

**PARAMETER 9 - PC ACCESS PROTECTION MODE**

<table>
<thead>
<tr>
<th>Value</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>PC Access Protection disabled (default)</td>
</tr>
<tr>
<td>2</td>
<td>PC Access Protection enabled</td>
</tr>
</tbody>
</table>

Using the MOVHESOFT software and the MOVHEPROG programming interface, the programming of the devices and users can be carried out via PC. To prevent fraudulent use, when activating this mode, it is possible to prevent programming via PC until activation of the Programming Mode on the access control unit using a master user code. In this manner only a person holding a master code is allowed to program via PC.
# 6.3 LIGHT AND ACOUSTIC SIGNALS

During programming, acoustic and visual signals are active to confirm the execution of the operations and to signal the state of the system or the request for user input.

<table>
<thead>
<tr>
<th>Operation</th>
<th>LIGHT SIGNALS</th>
<th>ACOUSTIC SIGNALS</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENTRY IN THE PROGRAMMING MODE</td>
<td>Continuous flashing of green LED</td>
<td>1 Long Beep</td>
</tr>
<tr>
<td>VALID USER CODE RECOGNITION</td>
<td>-</td>
<td>3 Short Beeps</td>
</tr>
<tr>
<td>INVALID USER CODE RECOGNITION</td>
<td>-</td>
<td>1 Medium Beep</td>
</tr>
<tr>
<td>ERROR</td>
<td>-</td>
<td>1 Long Beep</td>
</tr>
<tr>
<td>MEMORY FULL</td>
<td>Single flash of yellow LED</td>
<td>1 Medium Low Beep</td>
</tr>
<tr>
<td>USER CODE DELETION</td>
<td>Single flash of red LED</td>
<td>1 Medium Low Beep</td>
</tr>
<tr>
<td>MASTER USER CODE STORAGE</td>
<td>Single flash of green LED</td>
<td>1 Medium High Beep</td>
</tr>
<tr>
<td>STANDARD USER CODE STORAGE</td>
<td>Single flash of green LED</td>
<td>1 Medium High Beep</td>
</tr>
<tr>
<td>TOTAL USER CODE MEMORY DELETION</td>
<td>Single flash of green LED</td>
<td>1 Medium High Beep</td>
</tr>
<tr>
<td>DEFAULT VALUES RESET</td>
<td>Single flash of green LED</td>
<td>1 Medium High Beep</td>
</tr>
<tr>
<td>EXIT FROM THE PROGRAMMING MODE</td>
<td>-</td>
<td>1 Long Beep</td>
</tr>
</tbody>
</table>

**Tab.12**

<table>
<thead>
<tr>
<th>State</th>
<th>LIGHT SIGNALS</th>
<th>ACOUSTIC SIGNALS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Initialization after power-on</td>
<td>Fast continuous flashing of Yellow LED</td>
<td>-</td>
</tr>
<tr>
<td>Programming mode</td>
<td>Continuous flashing of green LED</td>
<td>-</td>
</tr>
<tr>
<td>Parameter value indication</td>
<td>Flashing of Green LED indicating the current value of the selected parameter</td>
<td>-</td>
</tr>
</tbody>
</table>

**Tab.13**
The programming of the parameters can be carried out via PC using the MOVHESOFT software, which can be downloaded from the site www.movhe.it, and the MOVHEPROG programming interface, available as an accessory.

For the connection, the MOVHEPROG programmer (see Fig.18) must be connected to the USB socket on the lower part of the access control unit. For the operation of the programmer, refer to the appropriate instructions.

Proceed as described below:

1 - Disassemble the frame as described in Fig.5 and locate the rubber plug in the lower part of the access control unit.

2 - Rotate the rubber plug that protects the USB connector.

3 - Insert the cable (Optional) for connection to the MOVHEPROG USB programmer.

⚠️ When finished programming, during reassembly of the frame, make certain that the plug is repositioned correctly in its seat in order to avoid compromising the unit’s watertight seal.

⚠️ If the PC Access Protection (see section 6.2) is enabled, no operation can be carried out via PC until the programming mode of the Access Control Unit is activated using a master user code.

### DISPOSAL

The access control systems MOVHE PROXXY are composed of recyclable parts (plastic, copper, etc.) and electronic boards that must be disposed of in compliance with current local regulations.

⚠️ The electronic boards may contain pollutants and must never be disposed of as household waste.
## 8 FREQUENT OPERATIONS

### 8.1 - STARTUP OF THE APPARATUS AFTER INSTALLATION

When installation is finished, proceed as follows:

1. **MAKE CERTAIN THAT THE ELECTRICAL CONNECTIONS HAVE BEEN MADE CORRECTLY, IN COMPLIANCE WITH THAT DESCRIBED IN THIS MANUAL. PAY PARTICULAR ATTENTION TO RESPECTING THE POWER SUPPLY POLARITY IF A DIRECT-CURRENT POWER SUPPLY IS BEING USED.**

2. **POWER THE APPARATUS. THE LED WILL EMIT A YELLOW FLASH**

3. **THE APPARATUS SIGNALS THAT THE MEMORY IS EMPTY AND ACTIVATES THE **PROGRAMMING MODE** AUTOMATICALLY, EMITTING MEDIUM BEEPS (WITH A DURATION OF ABOUT 1 SECOND) REPEATED EVERY 30 SECONDS AND LIGHTING THE FRONT GREEN LED INTERMITTENTLY.**

4. **NOW IT IS POSSIBLE TO ENTER THE FIRST **MASTER CODE. THE FIRST STORED TRASPONDER WILL BE A MASTER CODE. ALL NEXT STORED TRASPONDERS WILL BE A STANDARD CODE. IF YOU WANT TO STORE ANOTHER MASTER CODE, SEE SECTION 8.4**

5. **BRING A **MOVHE MOOVY** TRANSPONDER CLOSE TO THE APPARATUS**

6. **THE TRANSPONDER HAS BEEN STORED (SHORT BEEP IMMEDIATELY FOLLOWED BY A LONG BEEP) AS THE FIRST MASTER USER CODE**

7. **BRING THE **MOVHE MOOVY** TRANSPONDER CLOSE TO THE APPARATUS AGAIN OR WAIT 30 SECONDS TO EXIT THE **PROGRAMMING MODE****

8. **THE EXIT FROM THE **PROGRAMMING MODE** IS SIGNALLED BY THE LED WHICH STOPS FLASHING AND A MEDIUM BEEP**

9. **NOW THE APPARATUS IS CORRECTLY OPERATIONAL IN STAND-BY MODE**
8.2 - PROGRAMMING MODE ENTRY/EXIT

THE PROGRAMMING MODE IS A PARTICULAR OPERATIONAL MODE THAT ALLOWS TO CARRY OUT IMPORTANT OPERATIONS SUCH AS THE STORAGE AND DELETION OF STANDARD OR MASTER USER CODES. TO ACTIVATE THE PROGRAMMING MODE IT IS NECESSARY TO HAVE A MASTER USER CODE. PROCEED AS FOLLOWS:

1. BRING A PREVIOUSLY STORED MASTER KEYCHAIN-TRANSPONDER CLOSE TO THE APPARATUS

2. ENTERING A VALID TRANSPONDER ACTIVATES THE RELAY, THE FRONT GREEN LED AND THE ACOUSTIC SIGNAL (3 SHORT BEEPS)

3. KEEP THE TRANSPONDER IN THE DETECTION FIELD OF THE APPARATUS FOR AT LEAST 5 SECONDS

4. A LONG BEEP AND THE FLASHING OF THE GREEN LED WILL INDICATE THE ENTRY INTO THE PROGRAMMING MODE. NOW IT IS POSSIBLE TO CHANGE PARAMETERS AND STORE OR DELETE USERS

5. TO EXIT FROM THE PROGRAMMING MODE, BRING THE SAME TRANSPONDER USED TO ENTER THE MODE CLOSE TO THE APPARATUS AGAIN. FOR SECURITY REASONS, THE PROGRAMMING MODE IS AUTOMATICALLY EXITED AFTER 30 SECONDS OF INACTIVITY

6. A LONG BEEP AND THE LED WHICH STOPS FLASHING WILL INDICATE THE EXIT FROM THE PROGRAMMING MODE

8.3 - STANDARD USER STORAGE

1. ENTER THE PROGRAMMING MODE, SIGNALLED BY THE FLASHING GREEN LED

2. BRING A NEW TRANSPONDER CLOSE TO THE APPARATUS


4. THE APPARATUS RETURNS AUTOMATICALLY TO THE PROGRAMMING MODE (GREEN LED FLASHING). A NEW DELETION OR STORAGE OPERATION CAN NOW BE PERFORMED.
### 8.4 - MASTER USER STORAGE

1. **Disassemble the plastic parts (see sect. 4.1).** Set the dip-switches S2 as follows:
   
   S1=OFF  S2=OFF  S3=ON  S4=ON

2. Enter the programming mode, signalled by the flashing green LED

3. Bring a new transponder close to the apparatus

   A green flash and long high-pitched beep indicate the successful storage. **Attention:** If the transponder has already been stored, then the aforesaid operation would cause its deletion from the user memory (see section 8.5).

4. The apparatus returns automatically to the programming mode (green LED flashing). A new deletion or storage operation can now be performed

5. Set the dip-switches S2 as follows:
   
   S1=OFF  S2=OFF  S3=OFF  S4=OFF

### 8.5 - STANDARD AND MASTER USER DELETION

1. Enter the programming mode, signalled by the flashing green LED

2. Bring a stored transponder (standard or master) close to the apparatus

   A red flash and long low-pitched beep indicate the successful deletion. If by mistake the transponder was not already present in the memory, then the aforesaid operation would cause its storage (see section 8.3)

3. The apparatus returns automatically to the programming mode (green LED flashing). A new deletion or storage operation can now be performed