





# Sfera Keypad Module

## Contents

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<b>1 Introduction</b>	<b>4</b>
1.1 Warnings and recommendations	4
<b>2 Description</b>	<b>5</b>
2.1 Main functions	5
2.2 Front view	6
2.3 Back view	7
<b>3 Configuration</b>	<b>8</b>
3.1 Master code	8
3.1.1 New master code	8
3.1.2 Deleting master codes	10
3.2 Passepartout code	11
3.2.1 New passepartout code	11
3.2.2 Deleting passepartout codes	13
3.2.3 Replacing the passepartout code	14
3.3 Resident code	16
3.3.1 New resident code	16
3.3.2 Deleting the resident code	19
3.3.3 Replacing the resident code	20
<b>4 Advanced configuration</b>	<b>22</b>
4.1 Connection to the PC	22
4.2 Door lock control	23
4.3 Reset	24
<b>5 Appendix</b>	<b>25</b>
5.1 Technical data	25

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**1.1 Warnings and recommendations**

Before proceeding with the installation we recommend that you read the content of this manual very carefully.

The warranty will automatically become void in case of negligence, improper use, and tampering by unauthorised personnel.

The Sfera Keypad Module must only be used with BTicino 2 wire digital systems.

Front covers that may be used with the Sfera BTicino Keypad Module:



*Front cover 353005*



*Front cover 353001/02/03*



# Sfera Keypad Module

## 2 Description

### 2.1 Main functions

The BTicino Sfera Keypad Module can be used by residents to open a door lock using previously stored numerical codes.

The device consists of a backlit pushbutton panel with 12 keys and luminous indicators, for controlling that the code has been entered correctly.



**If installing the Sfera Keypad Module in conjunction with the display module (352500) refer to its manual.**

Programming can be performed in two ways:

- using the TiSferaDesign software supplied with the product (chapter 4);
- following specific procedures, performed directly on the keypad (chapter 3).

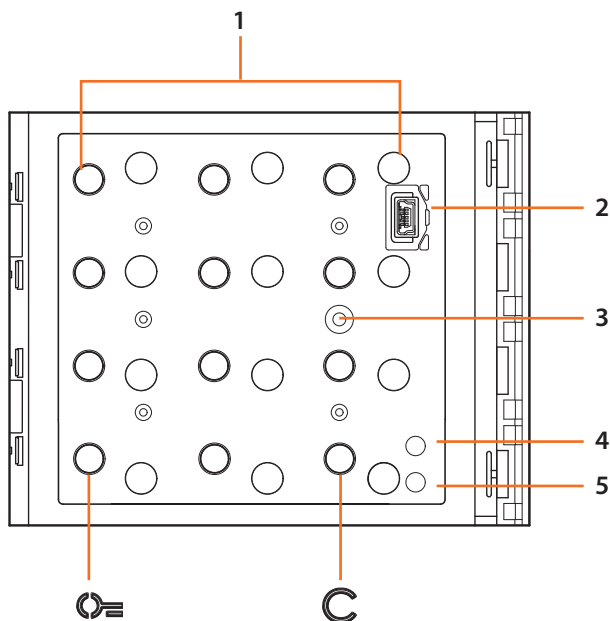
**In order to configure the master codes remove the front cover** and press the programming push-button indicated in the legend (chapter 2.2).

The secret code must consist of minimum 4 and maximum 9 digits.

Three different types of codes may be programmed:

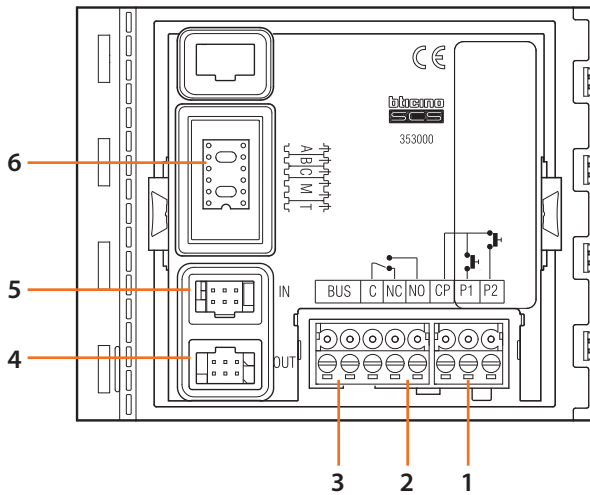
- **MASTER** Code providing access to the programming of other codes.  
It can only be used for programming, not for access..
- **PASSEPARTOUT** It can be used to open the door lock the entrance panel is associated to.  
It's not linked with any apartments.  
It can only be used for access, not for programming.
- **RESIDENT** It can be used to open the door lock the entrance panel is associated to.  
It's linked to an apartment of the system.  
It can only be used for access, not for programming.

### 2.2 Front view



- 1 - Digital keypad + key illumination LED.  
 ◉ key for the selection of the door lock release code.  
 C key for the replacement of the codes.
- 2 - Mini-USB programming connector.
- 3 - Programming pushbutton.
- 4 - Red LED on steady: access denied, or programming error.
- 5 - Green LED on steady: access granted, or programming successful.

## 2.3 Back view



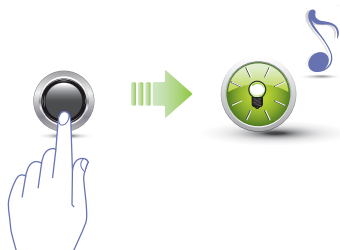
- 1 - Connection of door lock pushbutton (CP-P1) and tamper (CP-P2 – future application).
- 2 - Local relay contacts.
- 3 - Connection to the BUS.
- 4 - Connector for the connection to subsequent modules.
- 5 - Connector for the connection to previous modules.
- 6 - Configurator sockets.

### 3.1 Master code

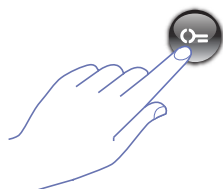
For safety reasons, the system gives the installer the possibility of programming a “**MASTER**” code. This can be used to access the programming of the other codes (passepartout and resident codes). To access programming mode, a master code must be assigned to the device.; up to 20 master codes may be saved.

The keypad module will indicate that the code has been accepted or deleted by means of audible signals and the switching on of the green LED. If an unrecognised code is entered, programming will stop. This interruption is confirmed by a long beep, and the red LED coming on.

#### 3.1.1 New master code



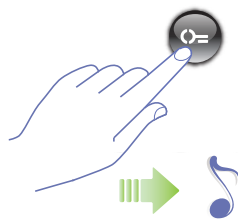
- 1 Press the programming pushbutton until the green LED flashes and a confirmation beep is heard.




- 2 Press the  key.



- 3 Enter the code (4 to 9 digits).



- 4 Press the  key. A short beep confirms the programming of the new master code

○= 12345 ○=

5 Re-enter the code to confirm.

**OK**



Correct code:  
green LED on and short beep.

**NO**



Wrong code:  
red LED on and long beep



If the procedure has been successful, the green LED stays on for approximately 1 second before starting to flash again. Enter another code, or finish.

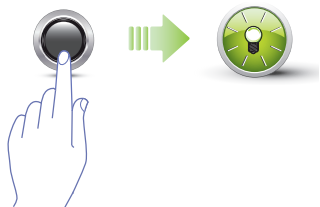
6 Press the programming pushbutton, or wait 30 seconds to exit the procedure.

A short beep and the LEDs switching off indicate that the programming procedure has been terminated. The Sfera Keypad Module is now ready for normal operation.



During programming, some rules must be followed:

- keys must be pressed consecutively (maximum 2 seconds between pressures);
- the programming sequence must be started within 30 seconds from the moment the programming pushbutton has been pressed and must be completed in one stage.

**3.1.2 Deleting master codes**

- 1** Press and hold down the programming pushbutton; the green LED flashes.



- 2** Continue holding down the pushbutton; the device emits 1 beep per second, and a long beep after ten seconds



- 3** The red LED flashes and then switches off to confirm that the deletion has been performed.



- The procedure will delete all the stored Master codes.
- During the procedure press the programming pushbutton.
- To stop the deletion procedure release the programming pushbutton.
- To only delete a specific code use the TiSferaDesign software.

# Sfera Keypad Module

## 3.2 Passepartout code

To access the programming of a “**Passepartout**” code, a master code is necessary. up to 20 passepartout codes may be saved.

The keypad module will indicate that the code has been accepted or deleted by means of audible signals and the switching on of the green LED. If an unrecognised code is entered, programming will stop. This interruption is confirmed by a long beep, and the red LED coming on.

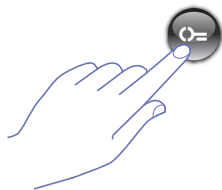
### 3.2.1 New passepartout code

⌂= 12345 ⌂=



#### 1 Enter the master code.

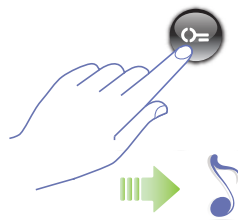
The device emits a beep, and the green LED starts flashing.  
The programming procedure starts.



#### 2 Press the ⌂= key.



#### 3 Enter the passepartout code (4 to 9 digits).



#### 4 Press the ⌂= key; a short beep confirms the programming of the new passepartout code.

○= 12345 ○=

5 Re-enter the code to confirm.

OK



Correct code:  
green LED on and short beep.

NO



Wrong code:  
Red LED on and long beep.



If the procedure has been successful the green LED stays on for approximately 1 second, before starting to flash again. Enter another code, or finish.

6 Press the pushbutton, or wait 30 seconds to exit the procedure.

A short beep and the LEDs switching off indicate that the programming procedure has been terminated. The Sfera Keypad Module is now ready for normal operation.



During programming, some rules must be followed:

- keys must be pressed consecutively (maximum 2 seconds between pressures);
- the programming sequence must be started within 30 seconds from the moment the programming pushbutton has been pressed and must be completed in one stage.



## 3.2.2 Deleting passepartout codes



- 1 Enter the master codes three times in succession.



- 2 The device emits a long confirmation beep.



- 3 The red LED flashes and then switches off to confirm that the deletion has been performed.



- The procedure will delete all the stored Passepartout codes.
- To only delete a specific code use the TiSferaDesign software.

### 3.2.3 Replacing the passepartout code



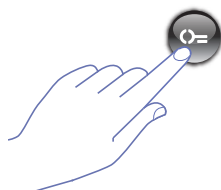
- 1 Press the **C** key until the green LED starts flashing.



- 2 The green LED flashes.

12345 **⌂=**

- 3 Enter the **passepartout** code.



- 4 Press the **⌂=** key.



- 5 Enter the **new** code.



- 6 Press the **⌂=** key.  
A short beep confirms the programming of the new passepartout code.



7 Re-enter the code to confirm.



8 The device emits a long confirmation beep.



9 If the procedure has been successful the green LED stays on for approximately 1 second before switching off.




During programming, some rules must be followed:

- keys must be pressed consecutively (maximum 2 seconds between pressures);
- the programming sequence must be started within 30 seconds from the moment the programming pushbutton has been pressed and must be completed in one stage.

### 3.3 Resident code

To access the programming of a “RESIDENT” code a master code is necessary. Up to 4000 codes may be saved, one for each apartment.

The keypad module will indicate that the code has been accepted or deleted by means of audible signals and the switching on of the green LED. If an unrecognised code is entered, programming will stop. This interruption is confirmed by a long beep, and the red LED coming on.

 If installing the Sfera Keypad Module in conjunction with the display module (352500) refer to its manual.

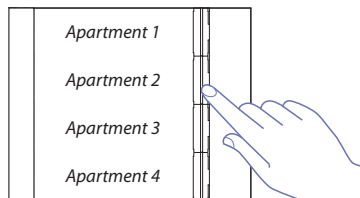
#### 3.3.1 New resident code

⊖= 12345 ⊖=



**1 Enter the master code.**

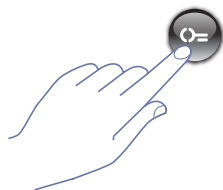
The device emits a beep, and the green LED starts flashing.  
The programming procedure starts.



352041/42/43

**2 Use the pushbutton module (352041,42,43) to select the apartment the resident code must be associated to.**

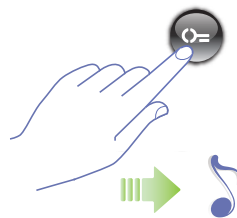




3 Press the **O=** key.



4 Enter the **resident** code (4 to 9 digits).



5 Press the **O=** key; a short beep confirms the programming of the new resident code.



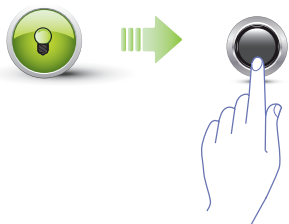
6 Re-enter the code to confirm.



Correct code:  
green LED on and short beep.



Wrong code:  
red LED on and long beep.



If the procedure has been successful the green LED stays on for approximately 1 second before switching off.

A short beep and the LEDs switching off indicate that the programming procedure has been terminated. The Sfera Keypad Module is now ready for normal operation.



**During programming, some rules must be followed:**

- keys must be pressed consecutively (maximum 2 seconds between pressures);
- the programming sequence must be started within 30 seconds from the moment the programming pushbutton has been pressed and must be completed in one stage.

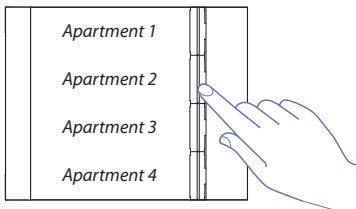
## 3.3.2 Deleting the resident code

⌂= 12345 ⌂=



### 1 Enter the master code.

The device emits a beep, and the green LED starts flashing.  
The programming procedure starts.



352041/42/43

### 2 Use the pushbutton module (352041,42,43) to select the apartment for which the resident code must be deleted.

⌂= 12345 ⌂=



### 3 Re-enter the master code.

### 4 The device emits a long confirmation beep.



### 5 The red LED flashes and then switches off to confirm that the deletion has been performed.

### 3.3.3 Replacing the resident code



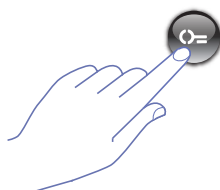
- 1 Press the **C** key until the green LED starts flashing



- 2 The green LED flashes.

12345 **0=**

- 3 Enter the **resident** code.



- 4 Press the **0=** key.



- 5 Enter the new code.



- 6 Press the **0=** key; a short beep confirms the programming of the new resident code.





- 7 Re-enter the code to confirm.



- 8 The device emits a long confirmation beep.



- 9 If the procedure has been successful the green LED stays on for approximately 1 second before switching off.

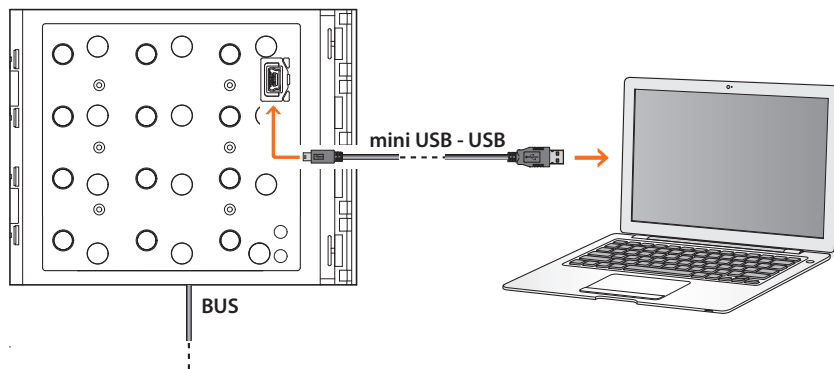


During programming, some rules must be followed:

- keys must be pressed consecutively (maximum 2 seconds between pressures);
- the programming sequence must be started within 30 seconds from the moment the programming pushbutton has been pressed and must be completed in one stage.

### 4.1 Connection to the PC

To transfer the configuration performed using the TiSferaDesign software, or to update the firmware, connect the Sfera Keypad Module to the PC using a USB-miniUSB cable.



**When updating the software the device must be powered.**

The Sfera Keypad Module connected using a USB cable is recognised by the PC as a virtual port (VIRTUAL COM).

## Sfera Keypad Module

### 4.2 Door lock control

The TiSferaDesign software may be used to set the maximum number of digits to use when composing the code (4 to 9 digits).

If the length of the code, selected during manual programming, is less than the length set by the software, in order to open the door lock the following must be entered:

0= 12345 0=

or

to open the door lock using a code with the same length as the maximum length set enter:

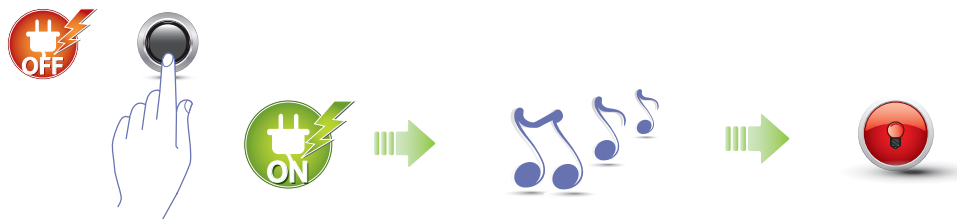
0= 123456789

## 4 Advanced configuration

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### 4.3 Reset

It is also possible to reset the Sfera Keypad Module and delete all the previously set codes; this will bring the module back to all the default settings.



- 1 Disconnect the power supply (BUS), press and hold down the programming pushbutton and reconnect the power supply.
- 2 Holding down the pushbutton until an extended beep is heard.
- 3 The red LED comes on for 4 seconds and then switches back off.



In entrance panels with keypad and speaker module, wait one minute after the reset procedure before starting the programming procedure again.

## 5 Appendix

### 5.1 Technical data

Power supply from BUS	18 – 27 Vdc
Absorption	10 Ma (Stand-by with LEDs off)
	20 Ma (Stand-by with LEDs on)
	45Ma (max in operation)
Load of local relay contacts	8 A, 30 Vdc
	8 A, 30 Vac cosφ = 1
	3,5 A, 30 Vac cosφ = 0,4
Operating temperature	(-25) – (+70) °C

#### Technical After-Sales Service

BTicino only accepts responsibility for perfect device operation if it is installed to the state of the art respecting the indications of the product installation manual.

[www.bticino.com](http://www.bticino.com)





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