USER MANUAL

NEXA Audio and Video Door Entry System

Access control

Coded panel

Coded panel with display

Code 50123681 **TCODE/CA NEXA** REV.0216

INTRODUCTION

First and foremost we would like to thank you for purchasing this product.

Our commitment to satisfying our customers can be seen from our ISO-9001 certification and from the manufacturing of products like this one.

Its advanced technology and exacting quality control will ensure that customers and users enjoy the many features this system offers. To obtain the maximum benefit from these features and a properly wired installation, we kindly recommend that you spend a few minutes of your time reading this manual.

MOUNTING CONFIGURATIONS

SET-UP WARNINGS

- Do not overtighten the screws on the power supply connector.
- **Always disconnect the power supply** before installing or making modifications to the devices.
- The fitting and handling of these devices must be carried out by **authorised personnel**.
- The wiring must run at least **40cm away from any other wiring**.
- Before connecting the device, check the connections between the door panel, power supply, distributors, monitors and telephones.
- Always follow the instructions contained in this manual.

SAFETY PRECAUTIONS

- Do not overtighten the screws on the door panel connector.
- **Always disconnect the power supply** before installing or making modifications to the device.
- The fitting and handling of these devices must be carried out by **authorised personnel**.
- The wiring must run at least **40cm away from any other wiring**.
- For the power supply

  Do not overtighten the screws on the connector.

  Install the power supply in a dry and protected place free from the risk of water leaks or sprays.

  Avoid locations that are humid, dusty or near heat sources.

  Ensure that the air vents are free from obstruction so that air can circulate freely.

  To prevent damage, the power supply must be firmly secured in place.

  To prevent electric shock, do not remove the cover or handle the wiring connected to the terminals.

- For the monitor, telephones and distributors:

  Do not overtighten the screws on the connector.

  Install the devices in a dry protected location free from the risk of dripping or splashing water.

  Do not place in humid, dusty or smoky locations, or near sources of heat.

  Ensure that the air vents are free from obstruction so that air can circulate freely.

- Remember that the installation and handling of these devices must be performed by **authorised personnel** and in the absence of electrical current.
- Always follow the instructions contained in this manual.

SYSTEM CHARACTERISTICS

- Microprocessed devices with simplified wiring (bus without call wires):

  Audio door entry system with 4 common wires.

  Video door entry system with 3 common wires plus coaxial cable.

  Video door entry system with 4 common wires plus twisted pair.

- Can be combined with “Nexa Modular” and “Inox Modular” door panels.

- Configuration programmable using a numeric keypad, PC or tablet. USB or wireless connection (module CD-NEXA/BT required).

- 2 potential-free relay outputs (NO, C, NC), 1 lock release relay (CV1, CV2) and digital panic output (to alarm control centre).

- Residents list with up to 1,990 contacts.

- 4, 5 or 6 digit programmable codes.

- Possibility of using the same user pin for the different relays and digital panic output.

- Relays 1 and 2 with three potential-free contacts (NO, C, NC), configurable by programming in stable or impulse mode (maximum load: 18Vac/1A 18VA or 24Vdc/0.75 A 18 W).

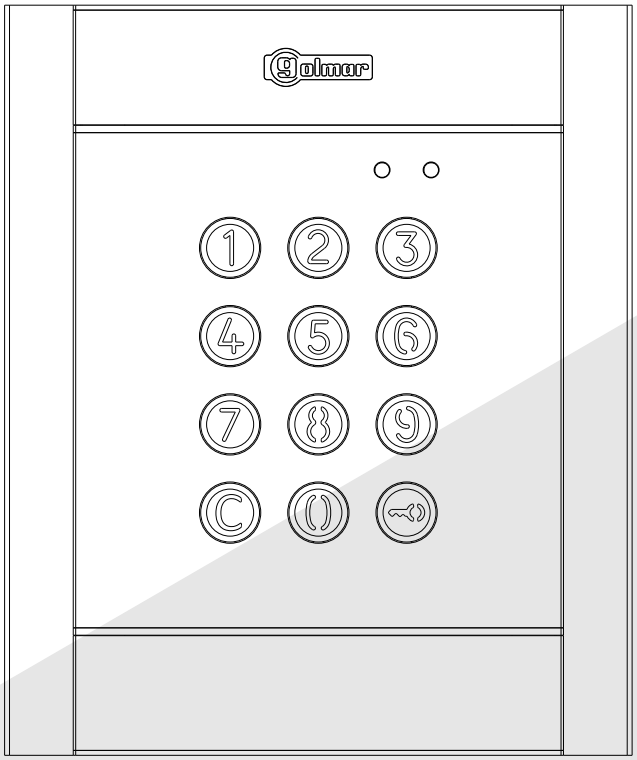
- Impulse mode activation time programmable from 1 to 99 seconds for each relay and digital panic output.

- Lock activation time programmable from 3 to 15 minutes.

- Wrong code lock programmable for 3 to 9 attempts and at an interval also programmable from 1 to 15 minutes.

- Up to 3 inputs for relay 1 external activation button (PL1), relay 2 (PL2) and relay 3 (AP).

- OLED display (module N3403/AL or NX3403) and front LEDs to show operating status.



Standalone access control

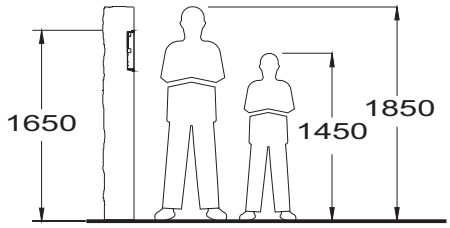
CONTENTS

CHARACTERISTICS

The standalone access control enables access to the building by entering a numeric code using the N3301 module.

DOOR PANEL INSTALLATION

Location of the embedding box:

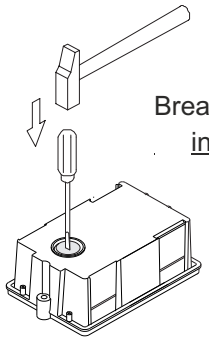


Make a hole in the wall so that the top of the module is located at a height of 1.65m.
Hole dimensions:

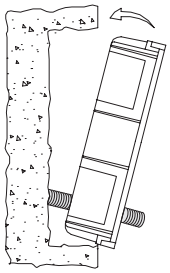
NCEV-90CS embedding box: 99(W) x 135.5(H) x 40(D) mm.

The module has been designed to withstand all environmental conditions. We do however recommend taking extra precautions to prolong its life (shields, covered areas, etc.).

Positioning the embedding box:

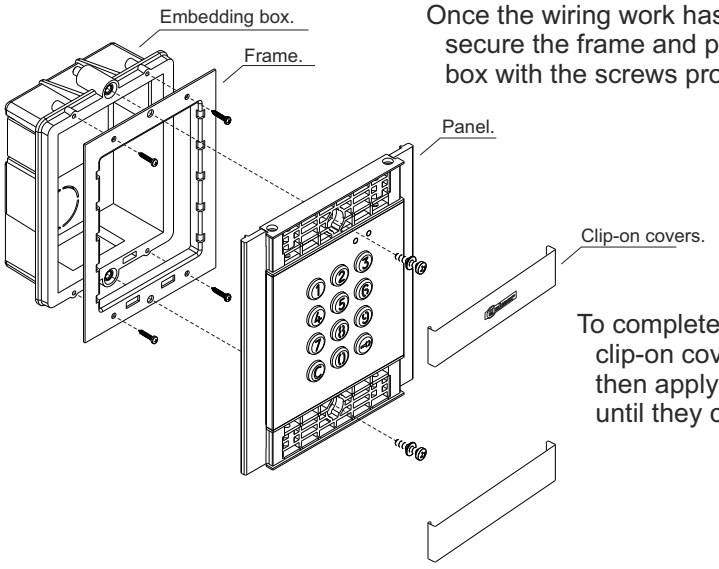


Break through the hole to allow the entry of the cable into the bottom of the embedding box.



Pass the cable through the hole made in the embedding box.
Embed the box and ensure that it is level and flush.
Once embedded, remove the protective stickers from the screw holes

Securing the frame and closing the panel:

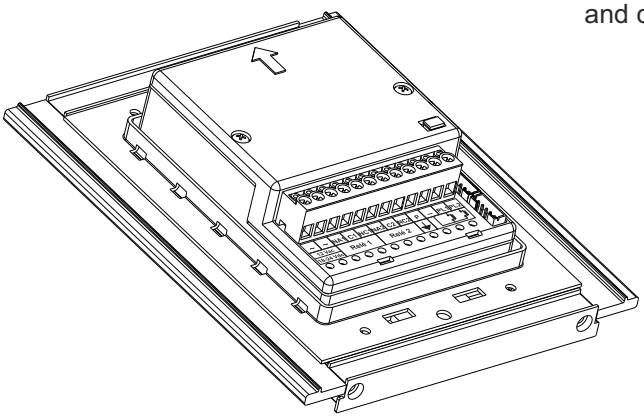


Once the wiring work has been completed, secure the frame and panel to the embedding box with the screws provided.

To complete the fitting of the panel, attach the clip-on covers by positioning one end and then applying slight pressure to the other end until they clip into place.

MODULE DESCRIPTION

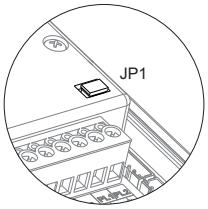
Description of the N3301/AL - NX3301 module:



The wiring terminals are located at the back of the module and correspond to the following connections:

~, ~ : power supply.
NA1 : normally open output relay 1.
C1 : common relay 1.
NC1 : normally closed output relay 1.
NA2 : normally open output relay 2.
C2 : common relay 2.
NC2 : normally closed output relay 2.
P : panic output.
– : negative.
PL1 : input for external relay 1 button.
PL2 : input for external relay 2 button.

Description of the JP1 jumper:

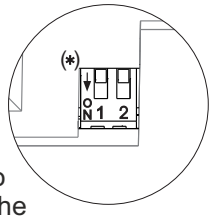


The JP1 jumper, located on the right-hand side of the connection block, activates the tamper alarm.

Normal operation, alarm not activated.

Tamper alarm mode activated. In this mode, the module's keypad operation and external buttons are disabled. The LEDs and the keypad's backlight are turned off and a constant audible alarm and the “P” panic output of the open collector (3 seconds every minute) are activated. Alarm mode ends when the JP1 jumper is replaced.

Description of the SW1 DIP switch:



The SW1 DIP switch is located on the left-hand side of the module.

Use to reset the special installer PIN to the factory code. Proceed as follows: Set DIP switch 1 to ON. The module will emit 2 beeps and the green LED on the front will light up for 1 second. Then set the DIP switch to OFF (the code is now the one assigned at the factory). If, during this process, the access control module was locked, the “special unlock” pin code will also be reset to the assigned factory code.

No standalone access control function (leave in the OFF position).

(*) Factory default setting.

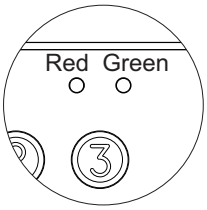
Description of the beeps:

The access control module features an internal beeper for reproducing operation beeps.

Operation	Duration
Programming	5 rapid beeps
Confirm field	2 rapid beeps
Confirm sequence	4 rapid beeps
Cancel	1 long beep (0.5 sec)
Error	1 long beep (1 sec)
Key press	1 rapid beep
Alarm activated	1 constant beep

DESCRIPTION OF THE MODULE

Description of the self-testing LEDs:

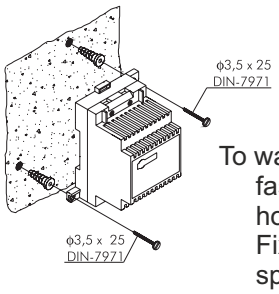


The self-testing LEDs are located on the upper right side of the front of the module.

	Operation	Red LED	Green LED
Standby	Normal	On	Off
	Lock	Rapid blink	Off
	Correct code	On	On (1 second)
	Wrong code	4 rapid blinks	Off
Programming mode	Normal	Slow blink	Off
	Confirm field	Slow blink	2 rapid blinks
	Confirm sequence	Slow blink	4 rapid blinks
	Wrong code	4 rapid blinks	Off

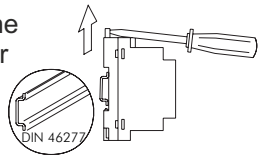
POWER SUPPLY UNIT INSTALLATION

Detail of the TF-104 power supply unit installation:



Install the transformer in a dry and protected location.
Please note that current regulations stipulate that the transformer must be protected by a circuit breaker.

To wall mount the transformer, position the fastening tabs. Drill two 6mm diameter holes and insert the wall plugs. Fix the transformer with the specified screws.

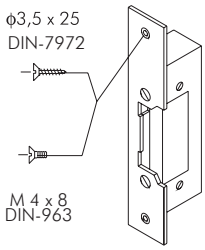


The power supply unit can be mounted onto a DIN rail (3 elements) by applying slight pressure. To remove the transformer from the rail, use a flat screwdriver and lever it off, as shown in the drawing.

LOCK RELEASE INSTALLATION

Lock release

If the lock release is to be fitted to a metal door, use a Ø3.5mm drill bit and thread the hole made.
For wooden doors, use a Ø3mm drill bit.



IMPORTANT: the access control module is supplied with two varistors. If connecting an AC lock release to one of the outputs, fit the varistor supplied directly to the lock release terminals to ensure that the module functions correctly.

MODULE OPERATION

Description of module operation

Module in standby mode.

With the module in standby mode, the following operations can be performed:

Activation of external push buttons: Allows activation of relay outputs 1 and 2 by means of external push buttons PL1 and PL2 respectively.
The push button can be configured by means of programming to activate and deactivate the output by pressing the button or activate the output by pressing the button and deactivate after a period of between 1 and 99 seconds.

With the keypad:

Special default codes: (bear in mind the number of digits in the code).

Administrator pin: 271800. 2718 if the number of digits configured = 4.
CP1 button code: 111100. 1111 if the number of digits configured = 4.
CP2 button code: 222200. 2222 if the number of digits configured = 4.
Unlocking code: 333300. 3333 if the number of digits configured = 4.

Opening through the user pin: Allows activation of the outputs (relay 1/relay 2/panic) associated with the existing user. Press the key button, followed by the user pin.

"key button" + "user pin".

Administrator pin: Allows entry into programming mode. Also enables the panel to be unlocked if it has been previously locked. Press the key button three times and then enter the administrator pin.

"key button" + "key button" + "key button" + "administrator pin".

CP1 button code: Enables or disables external button PL1 and/or PL2 associated with the CP1 code. Press the key button three times and then enter the CP1 code.

"key button" + "key button" + "key button" + "CP1 code".

CP2 button code: Enables or disables external button PL1 and/or PL2 associated with the CP2 code. Press the key button three times and then enter the CP2 code.

"key button" + "key button" + "key button" + "CP2 code".

Unlocking code: Allows the module to be unlocked only if it has previously been locked. Press the key button three times and then enter the Unlocking code.

"key button" + "key button" + "key button" + "unlocking code".

Change user pin: Allows users to change their own codes. Does not modify the outputs (relay 1/relay 2/panic) associated with the user. Press the key button twice, followed by the current user pin, then press the key button again, followed by the new user pin, and then press the key button a final time. The new user pin must have the same number of digits as the current user pin and cannot be the same as an existing user pin.

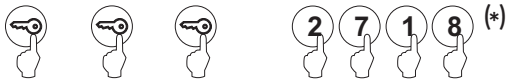
"key button" + "key button" + "current user pin" + "key button" + "new user pin" + "key button".

MODULE PROGRAMMING

Programming mode entry and exit:

To enter programming mode, press the key button three times and then enter secret administrator pin "271800".(*)

key button + key button + key button + administrator pin.



To exit programming mode, press the C button (cancel) once if it is in a programming field or twice if not.
If, after 2 minutes, no key has been pressed, it exits programming mode.
Programming mode entry and exit is confirmed by the emitting of 5 rapid beeps.

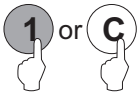
(*)**Important:**
Bear in mind the number of digits in the configured code (factory setting 2718 = 4).

Programming mode structure and sequence:

Programming of the keypad functions is performed by entering the field or function code, followed by the field value(s).
Once in programming mode, the programming sequence is as follows:

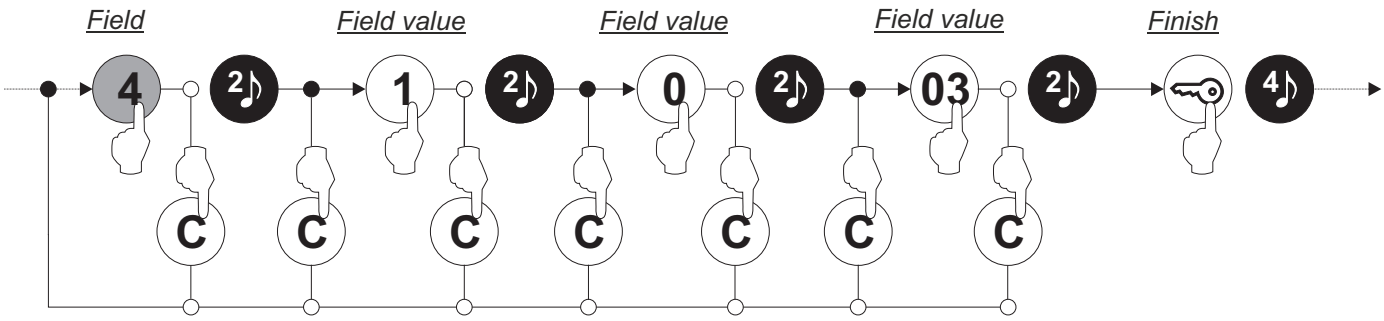
Enter the field code: this code is always 1 digit. The keypad will emit 2 rapid confirmation beeps.

Enter the value of the field being programmed. Once the value has been entered, the keypad will emit 2 rapid confirmation beeps. To finish programming the field, press the key button and the keypad will emit 4 rapid confirmation beeps.
Note: If, after 10 seconds, no key has been pressed, a long error beep will be emitted and the field code will need to be re-entered.



Enter the code of the following field or press the C button (cancel) to exit programming mode.

If an incorrect value has been entered, press the C button (cancel). The keypad will emit a long confirmation beep. If the field code was being entered, even after the confirmation beep, exit this menu and re-enter the field code.



MODULE PROGRAMMING

Programming fields:

The module comes programmed with factory settings except for the activation codes (user), which are left empty for security reasons. For system operation tailored to the needs of the user, check all of the values in all of the fields. The fields do not need to be programmed in numerical order.

Enter programming mode:

Step 1: Press the key button three times and then enter the administrator pin.

key button + key button + key button + administrator pin.

(1) Bear in mind the number of digits in the configured code (factory setting = 4, 2718).

Step 2: Then press the field number:

Field "0": Configuring the number of digits in the activation codes (user) and special codes.

Steps: Field + number of digits + key button.

(Step 1)  Press "0" to select field "0".

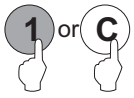
(Step 2)  Set the number of digits for the "user" activation codes (relay 1/relay 2/panic) and special codes. Enter 4, 5 or 6 digits.

The factory setting has 4 digits.

To change this value, add or remove 1 or 2 zeros from the end of the existing codes, for example:

Administrator pin 2718 ("factory setting" 4 digits).
Administrator pin 27180 (5 digits).
Administrator pin 271800 (6 digits).

(Step 3)  Press the key button to finish programming the field.

(Step 4)  Then press the number of the next field to configure or press the C button (cancel) to exit programming mode.

∗Factory default

Continued overleaf

MODULE PROGRAMMING

Programming fields:

Continued from previous page

Field "1": Programming a new activation code (user).

Allows new user pins (from "0000" to "9999") to be created and outputs to be assigned for activation with the created codes.

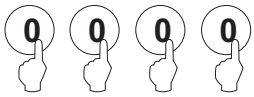
Note: Depending on the number of digits configured in field "0" (factory setting = 4).

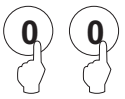
Number of digits = 4, user pin from "0000" to "9999".
Number of digits = 5, user pin from "00000" to "99999".
Number of digits= 6, user pin from "000000" to "999999".

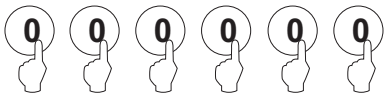
Steps: Field + memory position + user pin + outputs + bus code + key button

(Step 1)  Press "1" to select field "1".

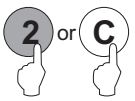
(Step 2)  Set the memory position number for the location of the new user pin.
Possible memory positions: "001" to "999".

(Step 3)  Set the user pin. Possible user pins: "000000" to "999999" with "6" digits. Factory setting of "4" digits: "0000" to "9999".
(see example of number of digits on page 12, step 2).
Duplicate user pins are not allowed.

(Step 4)  Set the output(s) that the user pin entered in step 3 will activate. Enter one of the following options or press the key button:(*)
"00": relay 1 + relay 2 + panic output (terminal "P" on the terminal block).
"01": relay 1.
"02": relay 2.
"03": relay 1 + relay 2.
"04": panic output (terminal "P" on the terminal block).
"05": relay 1 + panic output (terminal "P" on the terminal block).
"06": relay 2 + panic output (terminal "P" on the terminal block).
(*)Note: If the key button is pressed, option "03" is set in this value field: relay 1 + relay 2, in the value field "bus code" as "000000" and the programming of the field finishes.
With access control module V03 or later.

(Step 5)  Only enter "000000" or press the key button.(*)
(*)Note: If the key button is pressed, "000000" is set in this value field and the programming of the field finishes.

(Step 6)  Press the key button to finish programming the field.
Note: It is not necessary to press the key button if it has already been pressed in step 4 or 5.

(Step 7)  Then press the number of the next field to configure or press the C button (cancel) to exit programming mode.

Continued overleaf

MODULE PROGRAMMING

Programming fields:

Continued from previous page

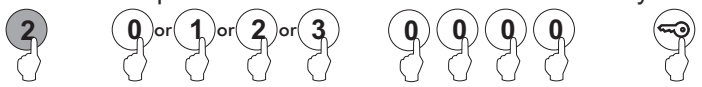
Field "2": Changing special codes.

Allows the current code of the special codes to be changed (see p. 10). The new special code must have the same number of digits as the current code.
Duplicate special codes are not allowed.

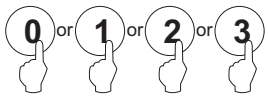
Note: Depending on the number of digits configured in field "0" (factory setting = 4).

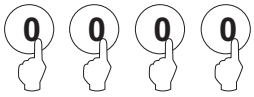
Number of digits = 4, special codes from "0000" to "9999".
Number of digits = 5, special codes from "00000" to "99999".
Number of digits = 6, special codes from "000000" to "999999".

Steps: Field + special code + code + key button.

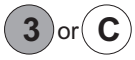


(Step 1)  Press "2" to select field "2".

(Step 2)  Set the special code to select for subsequent code changes. Enter one of the following options:
"0": Select the administrator pin.
"1": Select the CP1 button code.
"2": Select the CP2 button code.
"3": Select the unlock button code.

(Step 3)  Set a new code number. Possible special codes: "000000" to "999999" with "6" digits. Factory setting of "4" digits: "0000" to "9999" (see example of number of digits on p. 12, step 2).
Duplicate special codes are not allowed.

(Step 4)  Press the key button to finish programming the field.

(Step 5)  Then press the number of the next field to configure or press the C button (cancel) to exit programming mode.

Continued overleaf

MODULE PROGRAMMING

Programming fields:

Continued from previous page

Field "3": Deleting user pins.

Allows the deletion of existing user pins.

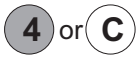
Note: Possible memory positions: "001" to "999".

Steps: Field + memory position + key button + key button.

(Step 1)  Press "3" to select field "3".

(Step 2)  Set the existing memory position number to select for deletion.
Note: Possible memory positions: "001" to "999".
Enter an existing memory position to be deleted.
If the value "000" is entered, all memory positions will be deleted.

(Step 3)  Press the key button twice to confirm the deletion and to finish programming the field.

(Step 4)  Then press the number of the next field to configure or press the C button (cancel) to exit programming mode.

Continued overleaf

MODULE PROGRAMMING

Programming fields:

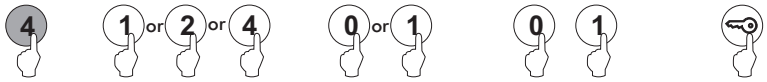
Continued from previous page

Field "4": Set the outputs.

Enables the setting of the relay 1 and relay 2 outputs and the panic output (terminal "P" on the connector).
The setting of the relay 1, relay 2 and panic outputs is common to all valid user pins.

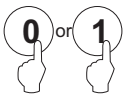
The relay 1, relay 2 and panic outputs can be activated in impulse mode (01 to 99 seconds) or stable mode.

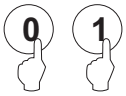
Steps: Field + output number + output mode + activation time + key button.



(Step 1)  Press "4" to select field "4".

(Step 2)  Set the output to be selected for configuration.
Enter one of the following options:
"1": Select the relay 1 output.
"2": Select the relay 2 output.
"4": Select the panic output.

(Step 3)  Set the activation mode of the output selected in step 2. Enter one of the following options:
"0": Impulse mode.
"1": Stable mode.

(Step 4)  Set the activation time of the output selected in step 2. Only takes effect if the output is set as impulse in step 3.
Enter a value from "01" to "99" seconds or press the key button.(*)
(*)Note: If the key button is pressed, this field is set with a value of "03" seconds and the programming of the field finishes.

(Step 5)  Press the key button to finish programming the field.
Note: It is not necessary to press the key button if it has already been pressed in step 4.

(Step 6)  Then press the number of the next field to configure or press the C button (cancel) to exit programming mode.

Continued overleaf

MODULE PROGRAMMING

Programming fields:

Continued from previous page

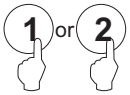
Field "5": Configuring the external buttons.

Allows external buttons PL1 and PL2 to be configured with the following modes:
- -Allows the button to: Always be enabled or, through button codes CP1 or CP2, enable/disable the functioning of the button.
- -Allows an activation time for external buttons PL1 and PL2 of between "01" and "99" seconds for relay 1 and relay 2 outputs respectively. Only takes effect if the relay output of the external button has been configured in impulse mode (see p. 16, "step 3").

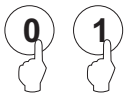
Note: External buttons PL1 and PL2 activate relays 1 and 2 respectively.

Steps: Field + button + button mode + activation time + key button

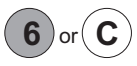
(Step 1)  Press "5" to select field "5".

(Step 2)  Set the external button to select for configuration. Enter one of the following options:
"1": Select external button PL1.
"2": Select external button PL2.

(Step 3)  Set the push button mode selected in step 2.
Enter one of the following options:
"0": Always enabled.
"1": Enable/disable function with the CP1 button code.
"2": Enable/disable function with the CP2 button code.

(Step 4)  Set the activation time for the external button selected in step 2. Only takes effect if the relay output has been configured in impulse mode (see p. 16, "step 3").
Enter a value from "01" to "99" seconds or press the key button.(*)
(*)Note: If the key button is pressed, this field is set with a value of "03" seconds and the programming of the field finishes.

(Step 5)  Press the key button to finish programming the field.
Note: It is not necessary to press the key button if it has already been pressed in step 4.

(Step 6)  Then press the number of the next field to configure or press the C button (cancel) to exit programming mode.

Continued overleaf

MODULE PROGRAMMING

Programming fields:

Continued from previous page

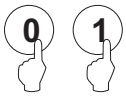
Field "6": Configuring locking mode.

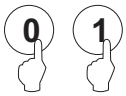
Allows the access control module's locking mode to be configured.

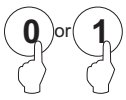
Steps: Field + locking mode + time between attempts + lock time + panic output + key button.

(Step 1)  Press "6" to select field "6".

(Step 2)  Set the access control module's locking mode.
Enter one of the following options:
"0": Never locks.
"3" to "9": Locks after "3" to "9" failed attempts to enter the user pin.

(Step 3)  Set the minimum amount of time that must elapse between failed attempts before the access control module is locked. Only takes effect if option "0" has not been selected in step 2.
The times to select are "01" to "15" minutes or press the key button.(*)
(*)Note: If the key button is pressed, this field value is set as "03" minutes, the "locking time" field value is "03" minutes, the "panic output" value field is "0" not activated and the programming of the field finishes.

(Step 4)  Set the amount of time that the access control module remains in locking mode after the last wrong code has been entered. Only takes effect if option "0" has not been selected in step 2.
The times to select are "03" to "15" minutes or press the key button.(*)
(*)Note: If the key button is pressed, the field value is set as "03" minutes, the "panic output" value field is "0" not activated and the programming of the field finishes.

(Step 5)  Set the activation of the panic output (terminal "P" of the terminal block) during locking mode. Only takes effect if option "0" has not been selected in step 2.
Enter one of the following options or press the key button:(*)
"0" : Output not activated.
"1" : Output activated (for 3 seconds in intervals of 1 minute).
(*)Note: If the key button is pressed, the field value is set as "0" and the programming of the field finishes.

(Step 6)  Press the key button to finish programming the field.
Note: It is not necessary to press the key button if it has already been pressed in steps 3, 4 or 5.

(Step 7)  Then press the number of the next field to configure or press the C button (cancel) to exit programming mode.

Continued overleaf

MODULE PROGRAMMING

Programming fields:

Continued from previous page

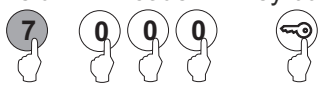
Field "7": Configure the identification ID of the access control module. (Not configure).

Allows an identification code (ID) to be configured for the access control module.

Note: Possible identification codes (ID): "000" to "999".

IMPORTANT: This programming field *is not applicable* for standalone access control.

Steps: Field + ID code + key button.



(Step 1) Press "7" to select field "7".

(Step 2) Set an identification code (ID) for the access control module.
Note: Possible identification codes (ID): "000" to "999".

(Step 3) Press the key button to finish programming the field.

(Step 4) Then press the number of the next field to configure or press the C button (cancel) to exit programming mode.

Field "8": Configure depth of field. (Not configure).

Allows the number of digits in the calling code to be configured.

IMPORTANT: This programming field *is not applicable* for standalone access control.

Steps: Field + number of calling code digits + direct call + key button.

(Step 1) Press "8" to select field "8".

(Step 2) Set the number of digits in the calling code.
Enter one of the following options:
"1" or "2" or "3"

(Step 3) Set the direct call: by entering a call code on the keypad if necessary or do not press the key button to confirm.
Enter one of the following options:
"0" : Disable.
"1" : Enable.

(Step 4) Press the key button to finish programming the field.

(Step 5) Then press the number of the next field to configure or press the C button (cancel) to exit programming mode.

Continued overleaf

MODULE PROGRAMMING

Programming fields:

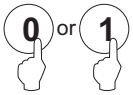
Continued from previous page

Field "9": Configuring the keypad beep.

Allows a beep to be heard when pressing the access control module's keypad buttons.

Steps: Field + keypad beep + key button.

(Step 1)  Press "9" to select field "9".

(Step 2)  Allows a beep to be heard when pressing the access control module's keypad buttons.
Enter one of the following options:
"0": No keypad beep.
"1": Keypad beep.

(Step 3)  Press the key button to finish programming the field.

(Step 4)  Then press the C button (cancel) to exit programming mode.

MODULE PROGRAMMING

Factory setting:

- **Special codes:** Bear in mind the number of digits in the code (see p. 10).

  Administrator pin: 271800. 2718 if the number of digits configured = 4.
  CP1 button code: 111100. 1111 if the number of digits configured = 4.
  CP2 button code: 222200. 2222 if the number of digits configured = 4.
  Unlocking code: 333300. 3333 if the number of digits configured = 4.

- **Number of digits in user and special codes:** Programming field "0" (page 12)

  Step 2: "4" – 4 digit code.

- **Setting relay 1:** Programming field "4" (page 16).

  Step 3: "0" Impulse.
  Step 4: "03" Activation time (seconds).

- **Setting relay 2:** Programming field "4" (page 16).

  Step 3: "0" Impulse.
  Step 4: "03" Activation time (seconds).

- **Setting the panic output:** Programming field "4" (p. 16).

  Step 3: "0" Impulse.
  Step 4: "10" Activation time (seconds).

- **Setting external push button PL1:** Programming field "5" (page 17).

  Step 3: "1" Enable/disable the functioning of the push button with button code CP1.
  Step 4: "10" Activation time (seconds).

- **Setting external push button PL2:** Programming field "5" (page 17).

  Step 3: "2" Enable/disable the functioning of the push button with button code CP2.
  Step 4: "05" Activation time (seconds).

- **Setting locking mode:** Programming field "6" (page 18).

  Step 2: "3" Maximum number of failed attempts to enter user pin.
  Step 3: "03" Minimum time between failed attempts (minutes).
  Step 4: "03" Duration of locking mode (minutes).
  Step 5: "1" The panic output is activated during locking mode.

- **Setting identification ID:** Programming field "7" (page 19) (Not to be configured).

  Step 2: "000" Identification ID. Do not modify this field value.

- **Setting depth of field:** Programming field "8" (page 19) (Not to be configured).

  Step 2: "3" Depth of field. Do not modify this field value.
  Step 3: "0" Direct call disabled. Do not modify this field value.

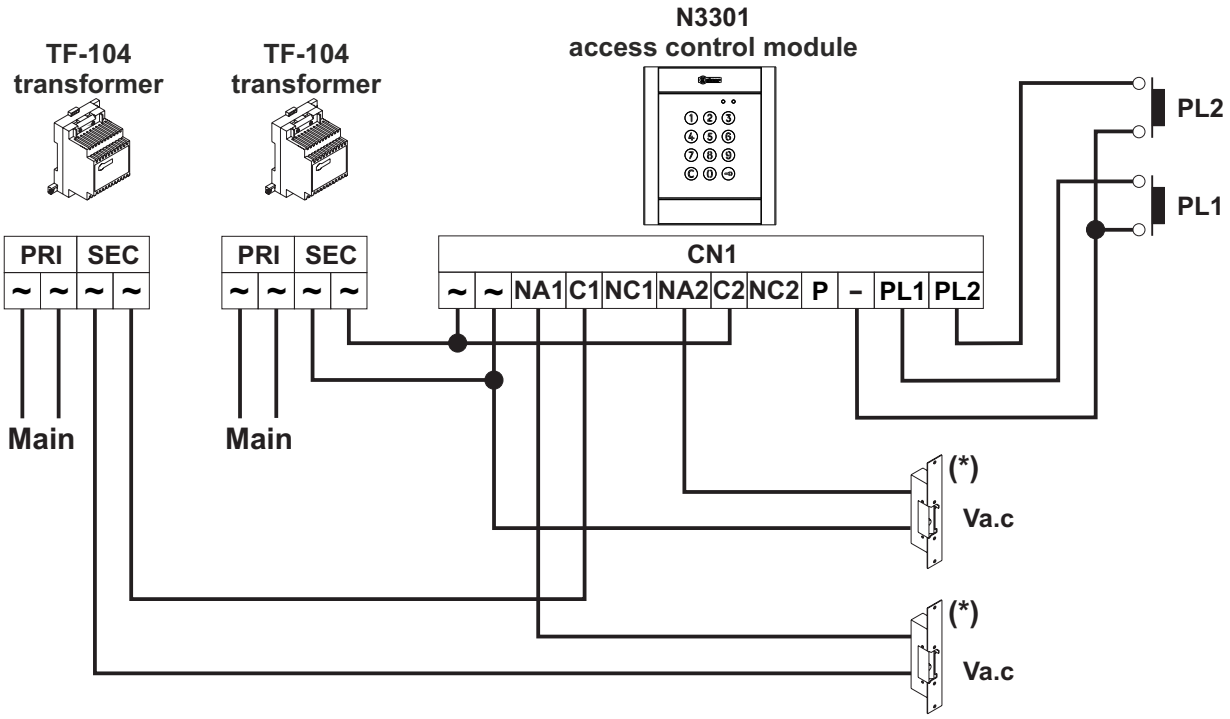
- **Setting the keypad beep:** Programming field "9" (see page 20).

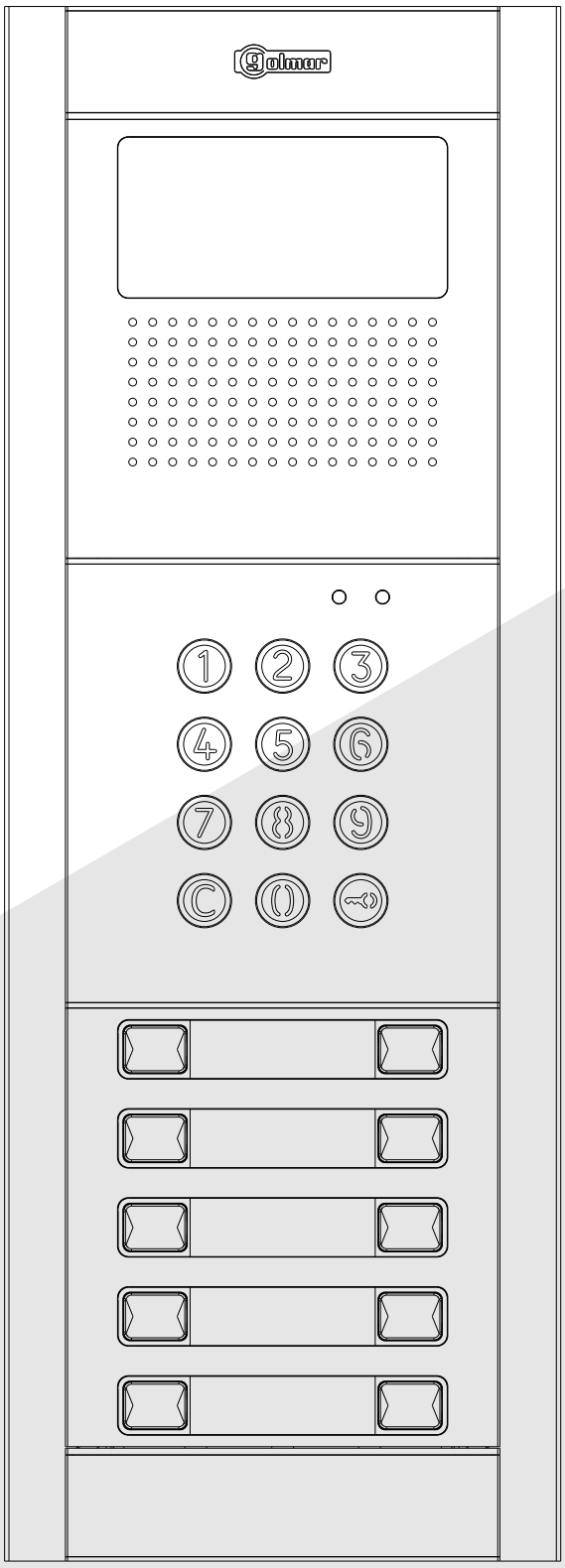
  Step 2: "1" Beep when keypad buttons pressed (activated).

WIRING DIAGRAMS

Standalone operation:

In the diagrams below, a TF-104 transformer (12Vac) is used to power the module.
(*) If using an AC lock release, fit the varistor supplied to the terminals of the lock release.
If connecting two lock releases, use an additional TF-104 transformer.
If using a safety lock release with inverted functioning (lock release activated in the absence of voltage), connect the lock release between C1 and NC1 or C2 and NC2.





Access control combined with Nexa door panels

CONTENTS

CHARACTERISTICS

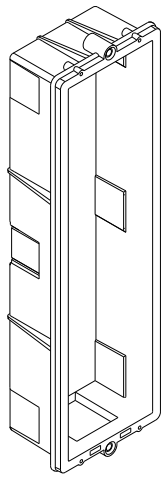
Configuring access control with call buttons enables users to make calls to apartments using the call buttons and to gain access to the building by entering a numeric code into the N3301 module.

DESCRIPTION OF THE DOOR PANEL

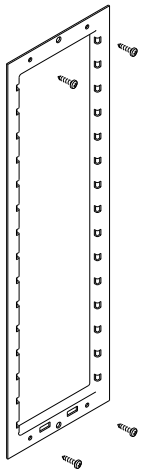
Description of the Nexa modular door panel:

Door panel component assembly drawing.

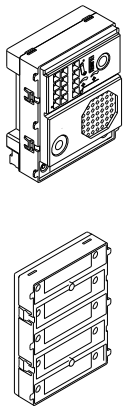
Embedding boxes



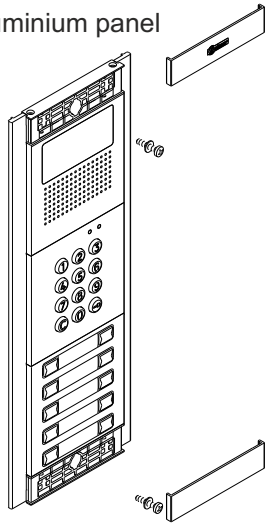
Frame modules



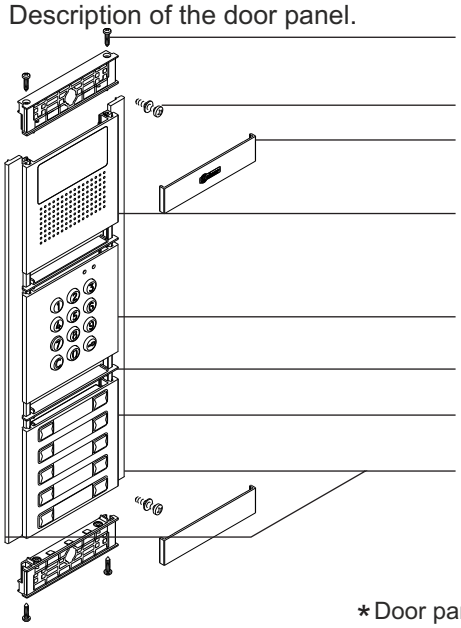
Electronic modules



Aluminium panel



Description of the door panel.



Fixing screws for clip-on covers (x4)

Fixing screws for embedding box (x2)

Clip-on covers: 60xx

Grille module:
N1000/AL
N1110/AL 1P.
N2220/AL 2P.

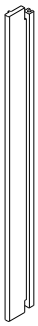
Access control module:
N3301/AL

Nexa module separator (x2)

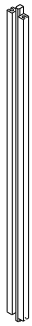
Button modules
N3XXX

Side profile (x2)

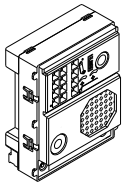
Side profile



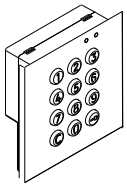
*Door panel joining bar



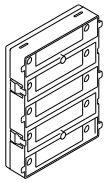
*Door panel joining bar: Enables 2 door panels to be joined.



Sound modules
EL632/PLUS, video door entry system with colour television camera, 3 wires + COAX.
EL642/PLUS, audio door entry system, 4 common wires.
EL632/R5, video door entry system with colour television camera, 5 common wires.
EL642/R5, audio door entry system, 5 common wires.
EL655, audio door entry system, 4+n.
EL651, audio door entry system, several access doors, 4+n+CO.
EL620/2PLUS, audio door entry system, 2 wires.



Access control module
N3301/AL, coded module and access control.



Button module
EL610A, for 5 individual or 10 double buttons (4+n devices).
EL610D, for 5 individual or 10 double buttons.

DESCRIPTION OF THE DOOR PANEL

Description of the Nexa modular door panel:

Short link hose supplied with the EL610A module (length 8 cm).

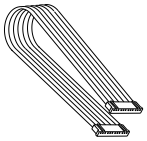
For connections between the EL655 sound module and the EL610A button module and between the EL610A button modules of the same embedding box.

RAP-610A link hose (length 55 cm).

For connecting 2 EL610A button modules in different embedding boxes.

Short link hose supplied with the EL610A module (length 16 cm).

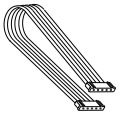
For connecting the buttons between the sound module and the EL610D button module and between EL610D button modules.



RAP-610D link hose (length 27 cm).

For connecting the buttons between the sound module and the EL610D button module and between EL610D button modules.

This hose is required when the distance between modules to be connected is greater due to their distribution in the door panels.

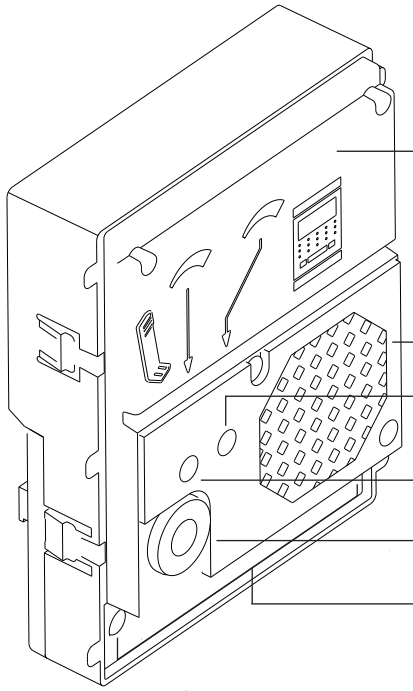


NEXA Bus link hose (length 50 cm).

For connecting the EL632/EL642 Plus or EL632-R5/EL642-R5 module to the N3301/AL coded module.

DESCRIPTION OF THE SOUND MODULES

Description of the EL655 sound module:



Front.

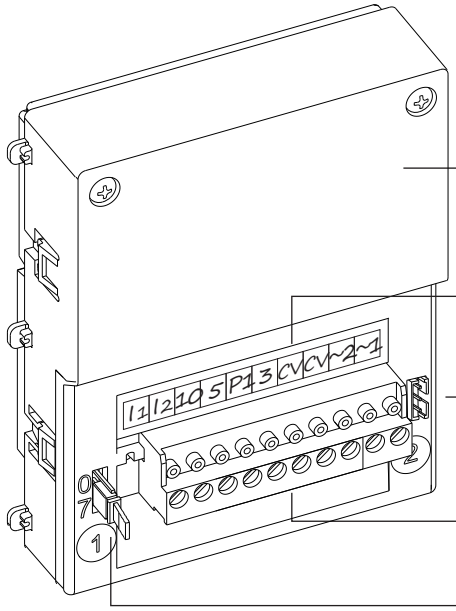
Speaker.

Door panel speaker volume control potentiometer.

Telephone speaker volume control potentiometer.

Microphone.

Sound module buttons (x2).



Back.

Label.

Button connector.

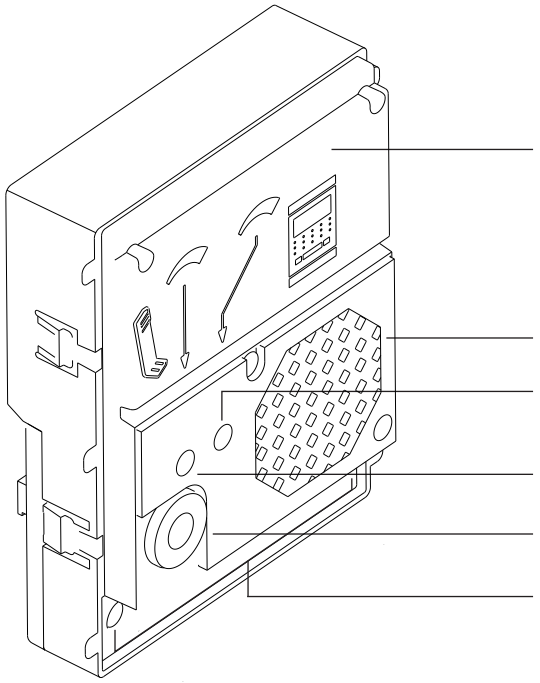
4+N bus connection block.

Call mode setting jumper
(0 electronic / 7 beeper).

- I1 : Call indicator button 1.
- I2 : Call indicator button 2.
- 10 : Door panel microphone output.
- 5 : Door panel speaker input.
- P1 : Door release signal input.
- 3 : Negative.
- CV : Contact “N.O.” for electric lock.
- CV : Contact “C” for electric lock.
- ~2 : TF104 power supply input.
- ~1 : TF104 power supply input.

DESCRIPTION OF THE SOUND MODULES

Description of the EL651 sound module:



Front.

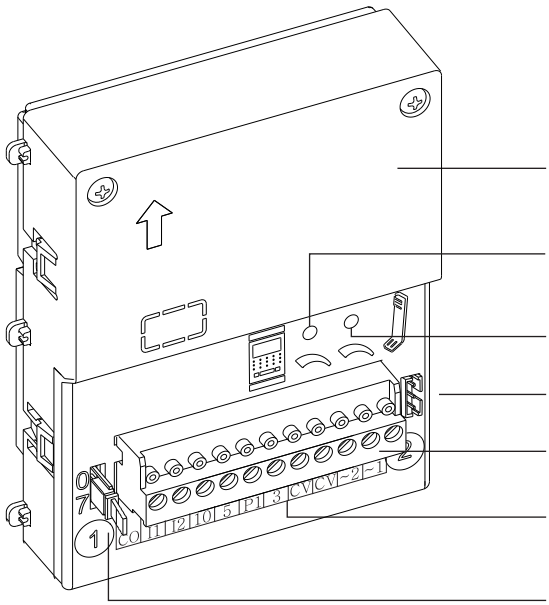
Speaker.

Door panel speaker volume control potentiometer.

Telephone speaker volume control potentiometer.

Microphone.

Sound module buttons (x2).



Back.

Door panel speaker volume control potentiometer.

Telephone speaker volume control potentiometer.

Button connector.

4+N bus connector and busy channel.

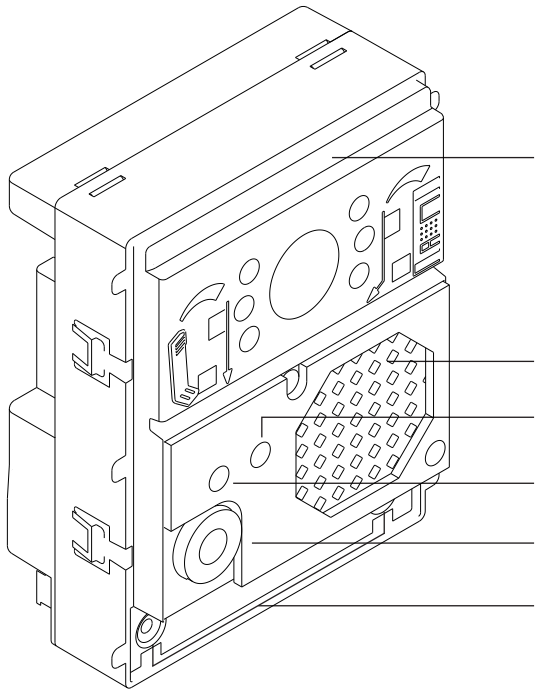
Label.

Ringtone selection jumper.
(**0:** tone 1 **/ 7:** tone 2).

- CO : Busy channel.
- I1 : Call indicator button 1.
- I2 : Call indicator button 2.
- 10 : Door panel microphone output.
- 5 : Door panel speaker input.
- P1 : Door release signal input.
- 3 : Negative.
- CV : Contact “N.O.” for electric lock.
- CV : Contact “C” for electric lock.
- ~2 : TF104 power supply input.
- ~1 : TF104 power supply input.

DESCRIPTION OF THE SOUND MODULES

Description of the EL620/2PLUS sound module:



Front.

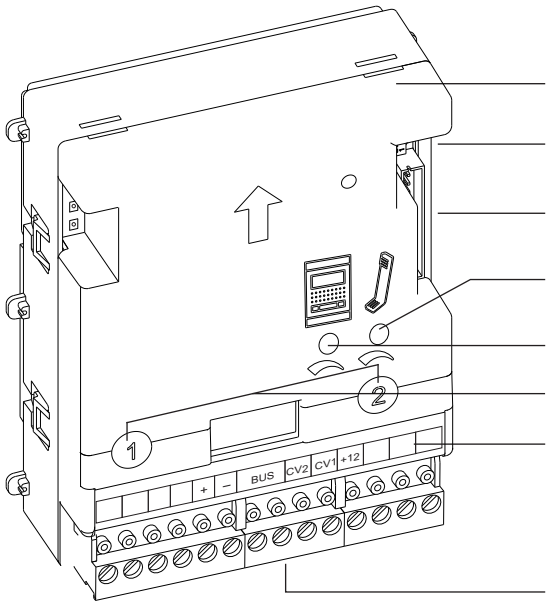
Speaker.

Door panel speaker volume control potentiometer.

Telephone speaker volume control potentiometer.

Microphone.

Sound module buttons (x2).



Back.

Configuration DIP switch.

Button connector.

Telephone speaker volume control potentiometer.

Door panel speaker volume control potentiometer.

Button number.

Label.

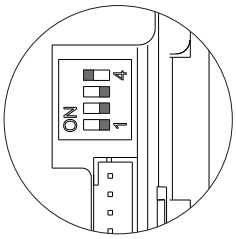
2Plus Nexa bus connection block.

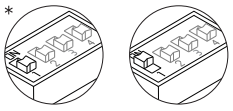
+	: Positive.
–	: Negative.
BUS	: Digital communication bus.
CV1	: Contact “C” for electric lock.
CV2	: Contact “N.O.” for electric lock.
+12	: Power supply +12Vdc for electric lock.

DESCRIPTION OF THE SOUND MODULES

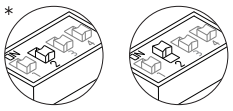
Description of the SW1 DIP switch:

The SW1 DIP switch is located on the top right-hand side of the back of the module.
To set the DIP switches, use the tool supplied with the sound module.

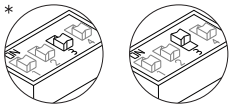




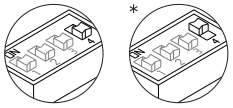
* Set to OFF if it is a master door panel. Each system must have only one master door panel; the others must be slaves (ON). Set the door panel furthest from the channel as the master. If the system has a CD-2PLUS converter installed, the maximum number of door panels will be 2 and these will have to be configured as slaves.



* Set to ON to programme the telephones.
Once the programming has finished, return the switch to the OFF position.
The programming method is described on p. 17.



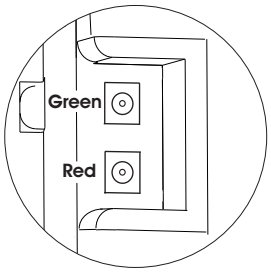
* Set to ON to divert calls from the door panel to the guard unit when activated. Set to OFF if this function is not necessary (CD-2PLUS converter and door panel capture on the guard unit required).



* Set to ON for *HIGH* door panel tone volume or OFF for *LOW* volume.

*Factory setting

Description of the self-testing LEDs:



The self-testing LEDs are located on the top left-hand side of the back of the sound module.

Green LED

Fixed: Correct functioning.

Blinking: Door panel is being programmed (DIP switch 2 set to ON).

Red LED

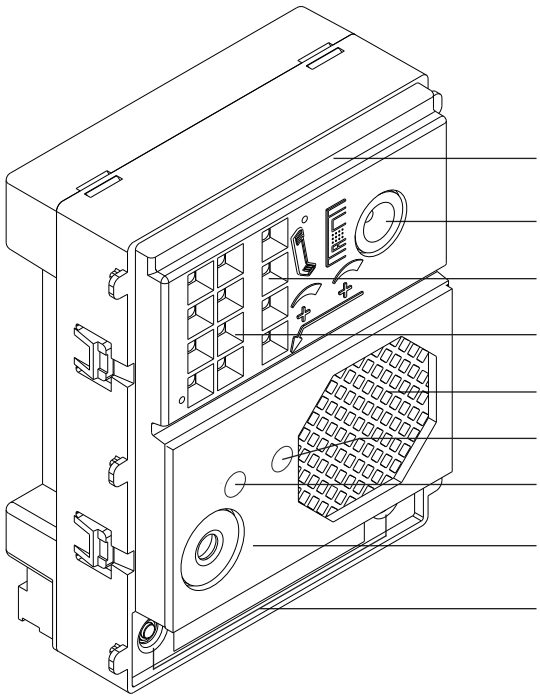
Fixed: More than one door panel is configured as the *master.*

Blinking: There is a short circuit in the wiring* between the wires of the bus or no door panel has been configured as the *master.*

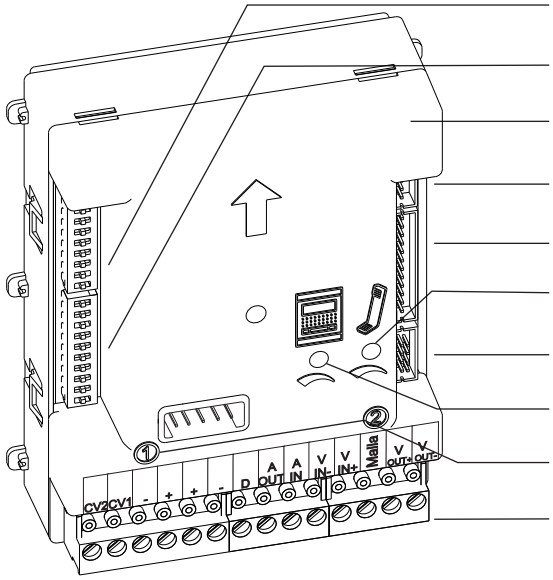
* *If the short circuit is eliminated within approx. 2 minutes, the door panel will automatically reset. After 2 minutes, it will be necessary to switch the power off and then on.*

DESCRIPTION OF THE SOUND MODULES

Description of the EL632/PLUS - EL642/PLUS sound module:



Front.
Colour camera. (Only the EL632/PLUS module)
LEDs (visual indications for people with impaired hearing)
LEDs.
Speaker.
Door panel speaker volume control potentiometer.
Telephone speaker volume control potentiometer.
Microphone.
Sound module buttons (x2).

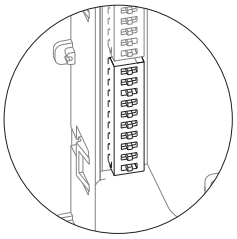


SW2 DIP switch.
SW1 DIP switch.
Back.
CN8 NEXA Bus connector.
CN6 button connector.
Telephone speaker volume control potentiometer.
CN3 function connector.
Door panel speaker volume control potentiometer.
Button number.
Connection block.

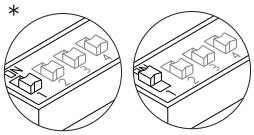
CV1	: Contact “C” for electric lock. Relay 3.
CV2	: Contact “N.O.” for electric lock. Relay 3.
+, −	: Positive, negative.
D	: Digital communication.
Aout	: Audio output communication.
Ain	: Audio input communication.
Vi+,Vi-	: Balanced video signal input (through twisted pair)
Vo+,Vo-	: Balanced video signal output (though twisted pair)
Shield	: Coaxial cable shield.
Vi+	: Video signal input through coaxial cable.
Vo+	: Video signal output through coaxial cable.

DESCRIPTION OF THE SOUND MODULES

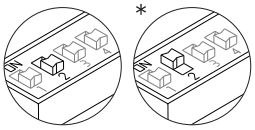
Description of the SW1 DIP switch:



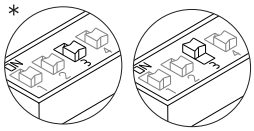
The SW1 DIP switch is located on the left-hand side of the back of the module.
To set the DIP switches, use the tool supplied with the sound module.
Dip switches 9 and 10 have no function.



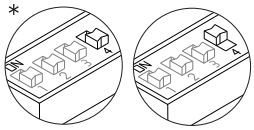
Leave in the OFF position if the sound module is configured as operating mode EL500
Set to ON to configure the sound module as operating mode EL501 (general entrance door panel).



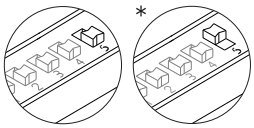
Select the door opening time carried out from the exterior button ('AP' terminal). For more information, see the manual supplied with the sound module.
Leave in the ON position to set the door opening time to 3 seconds.
Set to OFF to set the opening time to 15 seconds.



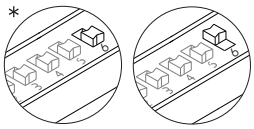
Select the type of cabling for the video signal.
Leave in the OFF position for coaxial cables RG-59 or RG-11.
Set to ON for twisted pair cable.



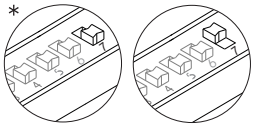
Leave in the OFF position if the door panel features a television camera. If the door panel has no camera (EL642/Plus sound module), set to ON.



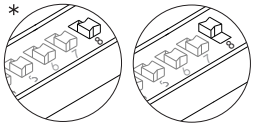
For Plus systems, load the installation with a Plus communications resistor. For proper operation, only leave in the ON position on the door panel closest to the installation channel or on the general entrance door panel (if any). Set the others to OFF.



For Uno systems, load the installation with an Uno communications resistor. For proper operation, only set to ON on the door panel closest to the installation channel. Leave the others in the OFF position.
<u>If an RD Plus/Uno repeater is used:</u>
In the installation channel or at the entry of the inner door panel in systems with general entrance door panels, leave the door panel(s) in the OFF position.



Set to ON for the volume of the door panel tones:
(call in progress, busy system and door opened) to be *HIGH* or leave in the OFF position if *LOW* volume is required.



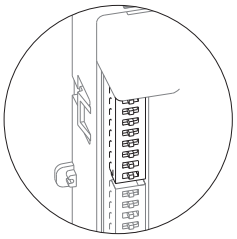
Set to ON for calls made from a door panel to be captured by the guard unit (if any). Leave in the OFF position for the call to be received in the apartment.
In general entrance door panel systems, this function is only applicable to general entrance door panels.

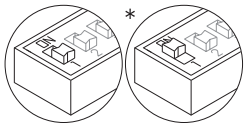
* Factory setting

DESCRIPTION OF THE SOUND MODULES

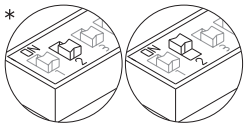
Description of the SW2 DIP switch:

The SW2 DIP switch is located on the left-hand side of the back of the module.
To set the DIP switches, use the tool supplied with the sound module.

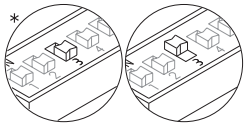




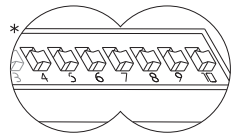
This enables the auto switch-on (audio and/or video communication without having been called) of the door panel if it has this switch set to the ON position. In buildings with several door panels, only activate on one of them; in systems with a general entrance door panel, it can be activated on one door panel in each building.



Set to ON for monitor or telephone programming. After programming, return it to the OFF position. The programming method is described on p. 49 for monitors and p. 58 for telephones.
On the general entrance door panel (EL501 mode), set to ON to programme the buttons of the general entrance door panel or the monitors/telephones of the channel (building). The programming method is described on p. 50 and p. 59. After programming, return it to the OFF position.



Leave in the OFF position if it is a master door panel. Each system must have only one master door panel; the others must be slaves (ON).
In systems with a general entrance door panel, a door panel from each channel (building) must be configured as the master and the general entrance door panel must be configured as a slave. By doing so, the user will know from which door panel the call is being made.



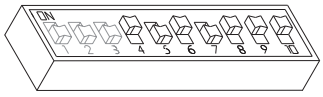
* Factory setting

They define the code of the channel (building). In channels with more than one door panel, set the same code for all panels; in systems with a general entrance door panel, set different codes for each channel. Set a code between 1 and 120 for the inner channels (up to 127 if the general entrance door panel is coded) and channel code 0 (factory setting) for the general entrance door panels. The assignment of the code is carried out in binary form, as shown in the following section.

Binary coding of the SW2 DIP switch:

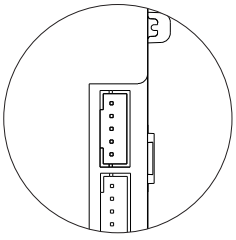
Switches set to the OFF position have a zero value. The values of the switches set to ON are shown in the enclosed chart. The code of the channel (building) will be equal to the sum of the values of the switches set to ON.

Switch number:	4	5	6	7	8	9	10
ON value:	64	32	16	8	4	2	1



Example: 64+0+16+0+4+2+1=87

Description of the CN8 NEXA Bus link connector:

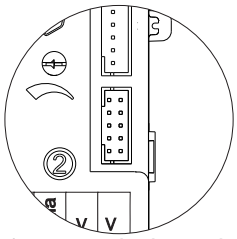


The CN8 NEXA Bus link connector is located on the top right-hand side of the back of the sound module.
Connect the cable supplied with the module to other modules using the NEXA Bus:

- ⇨N3403/AL: Connect the module to provide the system with a display viewer.
- ⇨N3301/AL: Connect the module to provide the system with access control and a coded door panel.
- ⇨N3301A/AL: Connect the module to provide the system with an alphabetic panel.
- ⇨EL3002: Connect to the bus to power information panels (maximum 6 units).
- ⇨CD-NEXA/BT: Connect the module to provide the system with a wireless configuration interface.

DESCRIPTION OF THE SOUND MODULES

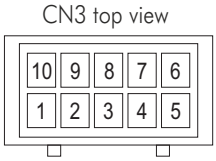
Description of the CN3 function connector:



The CN3 function connector is located on the top left-hand side of the back of the sound module.

Connect the cable supplied with the module to perform the following functions:

- ⇨"AP" function: Activates the "CV1" and "CV2" lock release relay, timed activation time of 3 or 15 seconds through the SW1-2 DIP switch (see p. 32). For more information, see the manual supplied with the sound module.
- ⇨"ICO" function: Busy channel indication is carried out with the "ICO" and "+12" terminals.
- ⇨"Handicap" function: FDI voice module (France). The connector includes all wires for connection. For more information, see the manual supplied with the sound module.

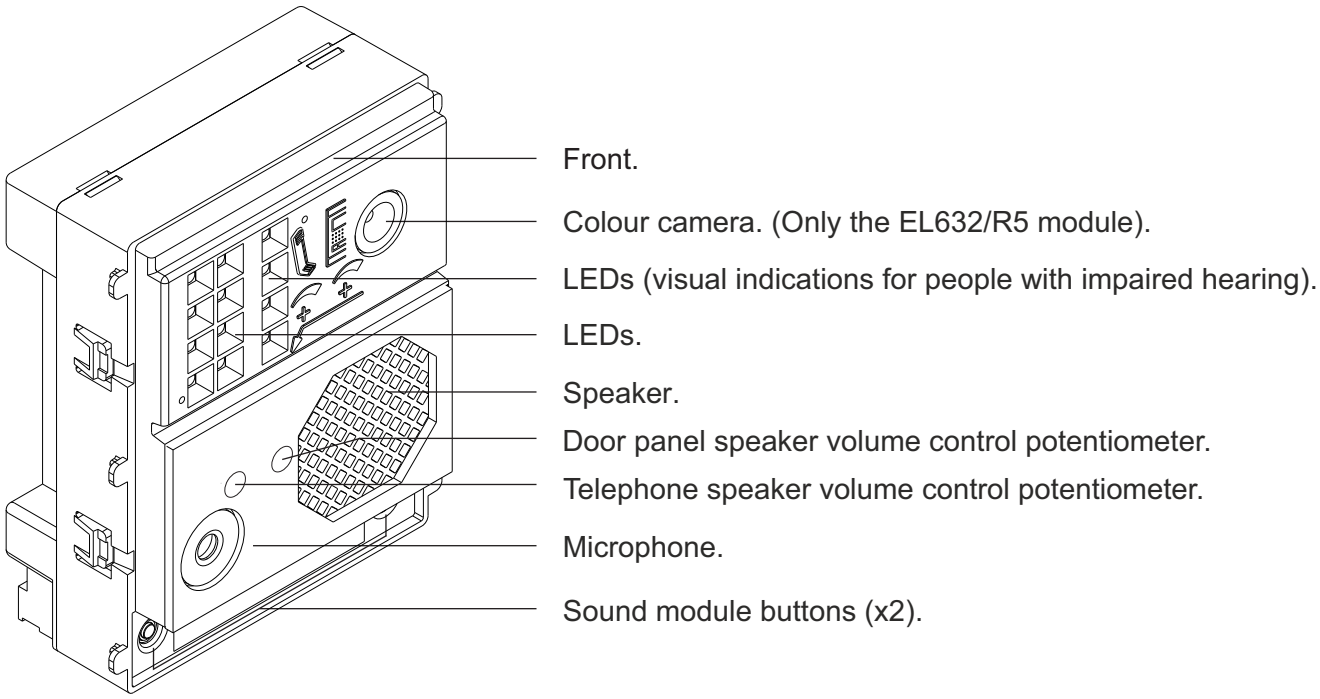


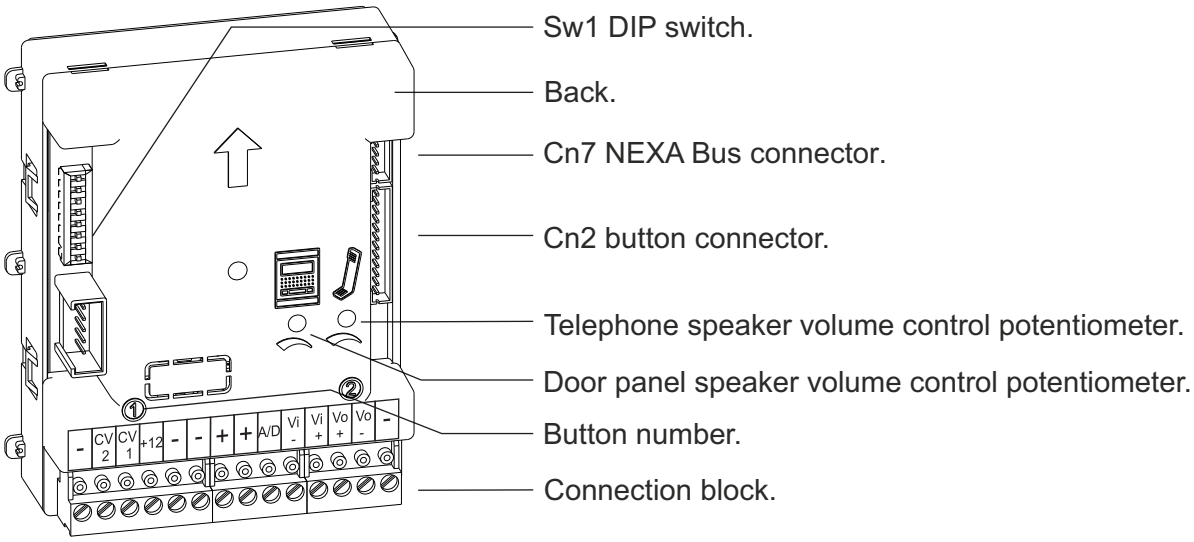
Description of the CN3 connector

1	Grey	(-)	Negative.
2	Brown	(+12)	12Vdc for continuous lock release activation.
3	White	(ICO)	Busy channel indicator.
4	Yellow	(AP)	External button to activate the door release.
5	Pink	(+H)	To activate additional lighting.
6	Blue	(OP)	Handicap.
7	Orange	(SC)	Handicap.
8	Green	(ALM)	Handicap.
9	Red	(PDB)	Handicap.
10	Black	(-)	Negative.

DESCRIPTION OF THE SOUND MODULES

Description of the EL632/R5 - EL642/R5 sound module:



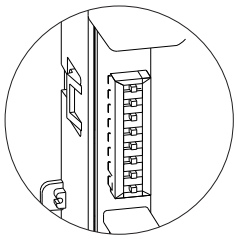


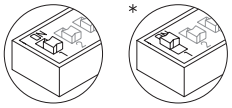
–	: Negative
CV1	: Contact “C” for electric lock. Relay 3.
CV2	: Contact “N.O.” for electric lock. Relay 3.
+, –	: Positive, negative.
A/D	: Audio and digital communication.
Vi+,Vi-	: Video signal input.
Vo+,Vo-	: Video signal output.
–	: Negative.

DESCRIPTION OF THE SOUND MODULES

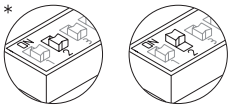
Description of the SW1 DIP switch:

The SW1 DIP switch is located on the top left-hand side of the back of the module.
To set the DIP switches, use the tool supplied with the sound module.

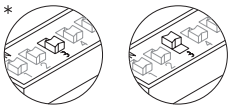




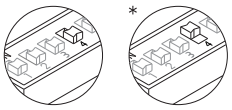
This enables the auto switch-on (audio and/or video communication without having been called) of the door panel if it has this switch set to the ON position. In buildings with many door panels, activate only one of them. In systems with a general entrance panel this function can be activated on one door panel of each building.



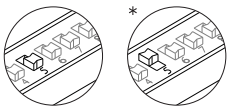
Set to ON for monitor or telephone programming.
Once the programming has finished, return the switch to the OFF position.
The programming method is described on p. 54 for monitors and p. 61 for telephones.



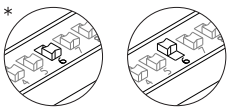
Set to OFF if it is a master door panel. Each system must have only one master door panel; the others must be slaves (ON). In systems with a general entrance door panel, set one door panel from each building as the master.



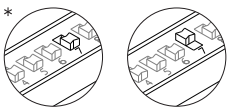
Set to ON if the door panel features a television camera. Set to OFF if the door panel has no television camera.



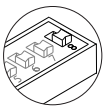
Set to ON *only on one door panel in each building or channel*. If the building has more access doors, set the others to OFF.



Set to ON to divert calls from the door panel to the guard unit when activated. Set to OFF if this function is not necessary (*CD-PLUS/R5* digital converter and door panel capture on the guard unit required).



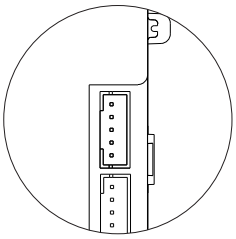
Set to ON for *HIGH* door panel tone volume or OFF for NORMAL volume.



Not used.

*Factory setting

Description of the CN7 Nexa Bus link connector:

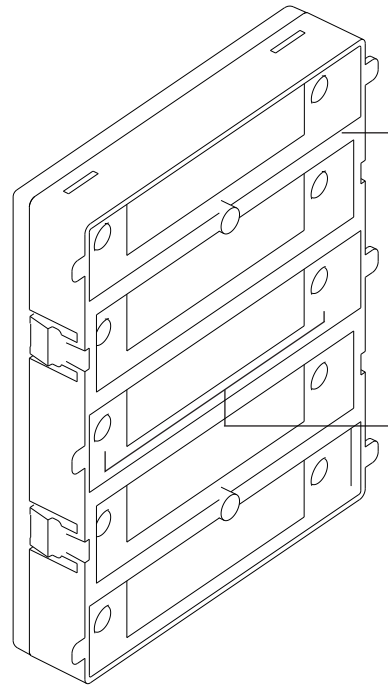


The CN7 Nexa Bus link connector is located on the top right-hand side of the back of the sound module.
Connect the cable supplied with the module to other modules using the NEXA Bus:

- ⇨N3403/AL: Connect the module to provide the system with a display viewer.
- ⇨N3301/AL: Connect the module to provide the system with access control and a coded door panel.
- ⇨N3301A/AL: Connect the module to provide the system with an alphabetic panel.
- ⇨EL3002: Connect to the bus to power information panels (maximum 6 units).

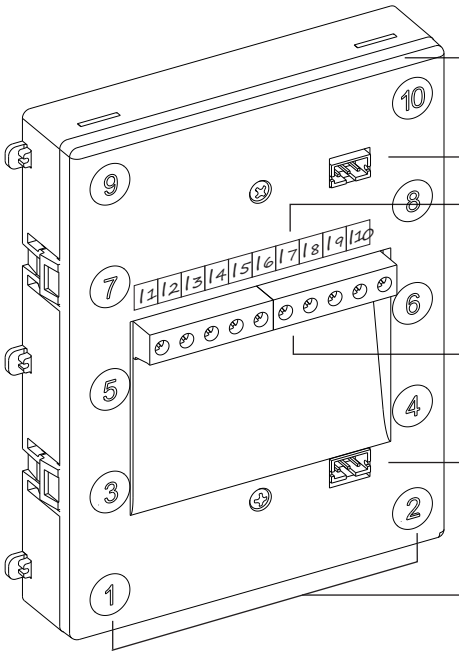
DESCRIPTION OF THE BUTTON MODULES

Description of the EL610A button module:



Front.

Module buttons (x10).



Back.

Button connector input.

Label.

Button connector block
(independent of calls).

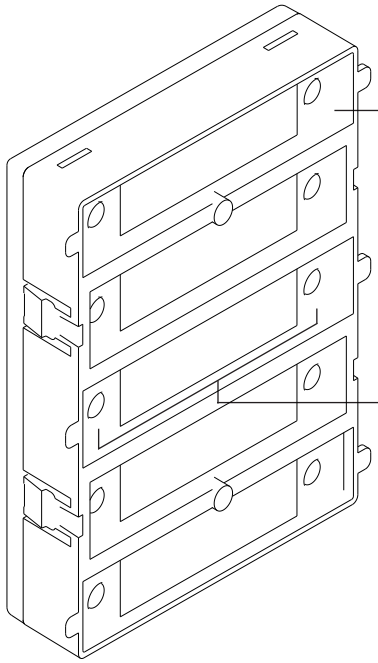
Button connector output.

Button number.

- I1 : Call indicator button 1.
- I2 : Call indicator button 2.
- I3 : Call indicator button 3.
- I4 : Call indicator button 4.
- I5 : Call indicator button 5.
- I6 : Call indicator button 6.
- I7 : Call indicator button 7.
- I8 : Call indicator button 8.
- I9 : Call indicator button 9.
- I10 : Call indicator button 10.

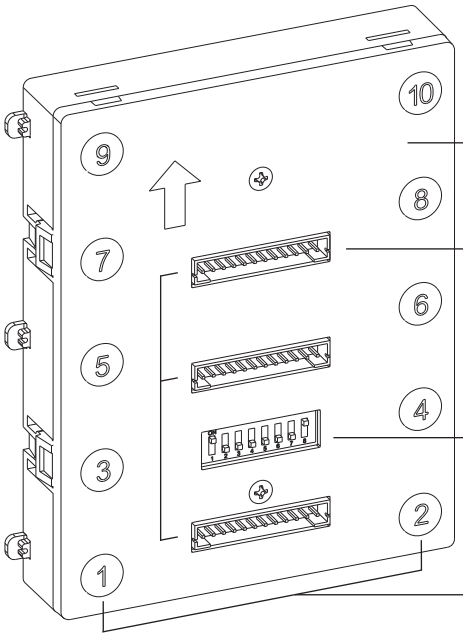
DESCRIPTION OF THE BUTTON MODULES

Description of the EL610D button module:



Front.

Module buttons (x10).



Back.

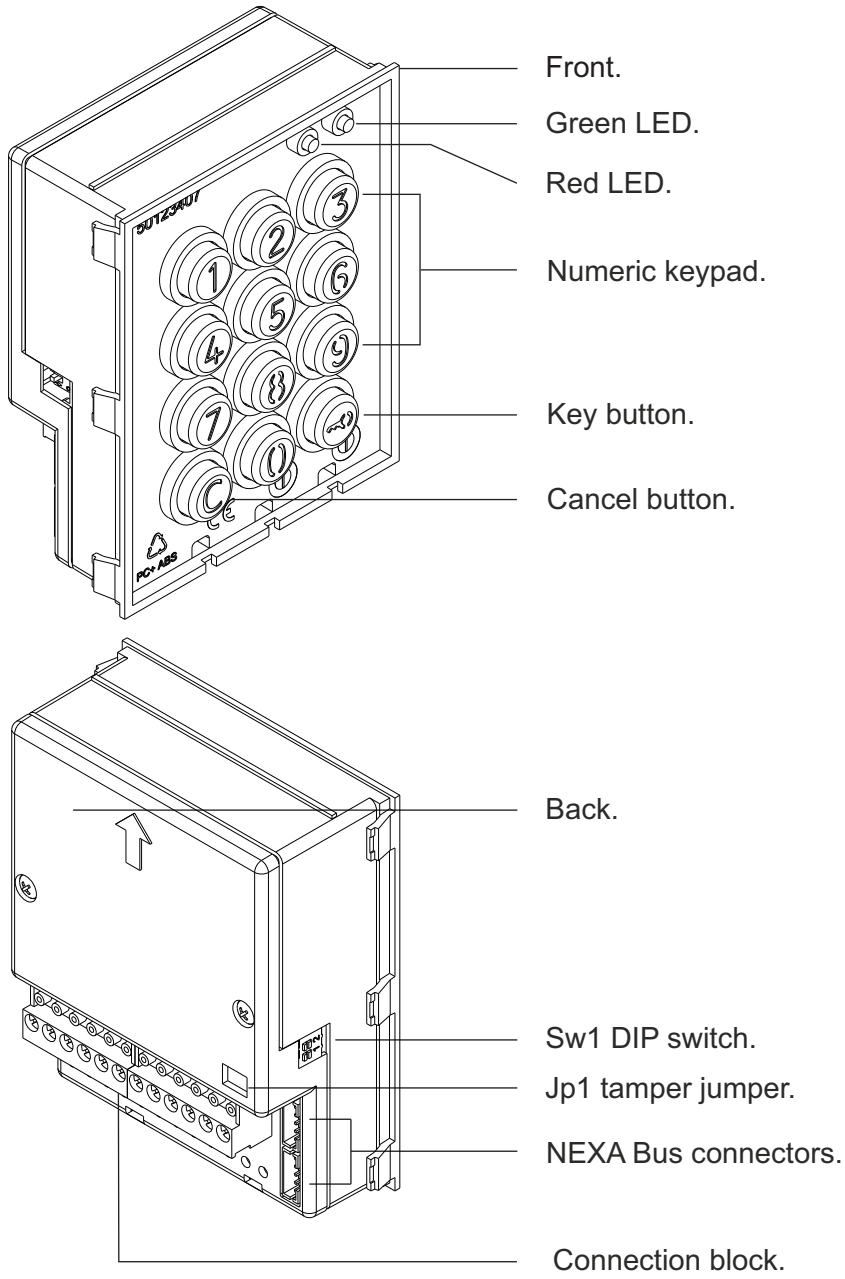
Button connector input/output (x3).

DIP switch
(button call code).

Button number.

DESCRIPTION OF THE ACCESS CONTROL MODULE

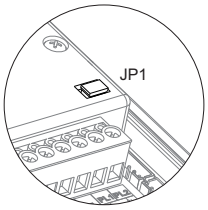
Description of the N3301/AL - NX3301 module



~ ~ : Power input (Do not power when connecting the Nexa Bus link hose. See p. 78 for connections)
NA1 : Normally open output relay 1.
C1 : Common relay 1.
NC1 : Normally closed output relay 1.
NA2 : Normally open output relay 2.
C2 : Common relay 2.
NC2 : Normally closed output relay 2.
P : Panic output.
- : Negative.
PL1 : Input for exterior button relay 1.
PL2 : Input for exterior button relay 2.

DESCRIPTION OF THE ACCESS CONTROL MODULE

Description of the JP1 jumper:

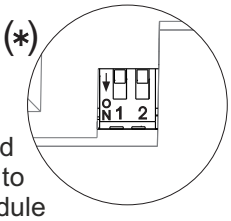


The JP1 jumper, located on the right-hand side of the connection block, activates the tamper alarm.

Normal operation, alarm not activated.

Tamper alarm mode activated. In this mode, the module's keypad operation and external buttons are disabled. The LEDs and the keypad's backlight are turned off and a constant audible alarm and the “P” panic output of the open collector (3 seconds every minute) are activated. Alarm mode ends when the JP1 jumper is replaced.

Description of the SW1 DIP switch:



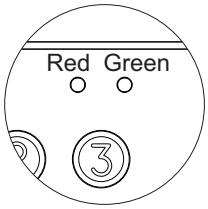
The SW1 DIP switch is located on the left-hand side of the module.

Use to reset the special installer PIN to the factory code.
Proceed as follows: Set DIP switch 1 to ON. The module will emit 2 beeps and the green LED on the front will light up for 1 second. Then set the DIP switch to OFF (the code is now the one assigned at the factory). If the access control module was locked during this process, the special unlock PIN will also be reset to the factory code.

Set DIP switch 2 to OFF to configure the door panel as a standalone module.

(*) Factory setting.

Description of the self-testing LEDs:



The self-testing LEDs are located on the top right-hand side of the front of the module.

	Operation	Red LED	Green LED
Standby	Normal	On	Off
	Lock	Rapid blink	Off
	Correct code	On	On (1 second)
	Wrong code	4 rapid blinks	Off
Programming mode	Normal	Slow blink	Off
	Confirm field	Slow blink	2 rapid blinks
	Confirm sequence	Slow blink	4 rapid blinks
	Wrong code	4 rapid blinks	Off

DESCRIPTION OF THE ACCESS CONTROL MODULE

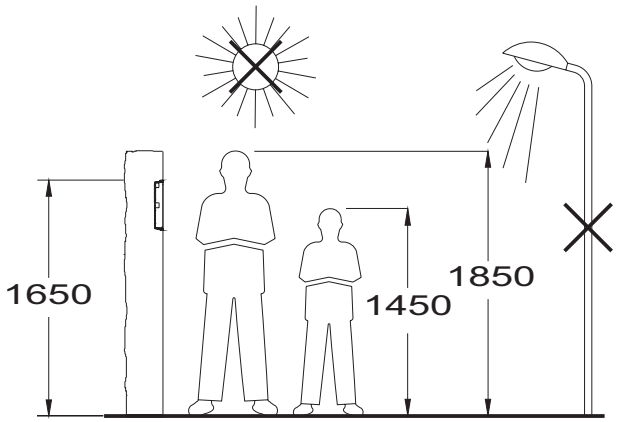
Description of the beeps:

The access control module features an internal beeper for reproducing operation beeps.

Operation	Duration
Programming	5 rapid beeps
Confirm field	2 rapid beeps
Confirm sequence	4 rapid beeps
Cancel	1 long beep (0.5 sec)
Error	1 long beep (1 sec)
Key press	1 rapid beep
Alarm activated	1 constant beep

INSTALLATION OF THE DOOR PANEL

Location of the embedding box:



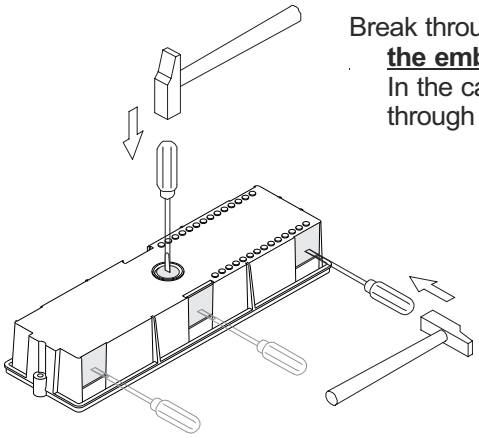
Make a hole in the wall to position the top of the door panel at a height of 1.65m.
Hole dimensions depend on the type of door panel.

Modules	1	2	3
Model	NCEV90CS	NCEV90C	CEV90
W	99	99	99 mm.
H	135,5	238	328 mm.
D	40	56	56 mm.

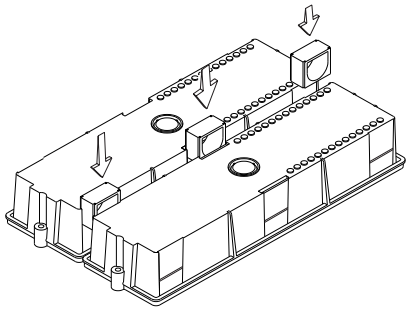
The door panel has been designed to be used under most environmental conditions. It is however advisable to take extra precautions to prolong its service life (shields, covered areas, etc.)
To obtain optimum video door entry system image quality, avoid direct contact from light sources (sunshine, street lights, etc.)

INSTALLATION OF THE DOOR PANEL

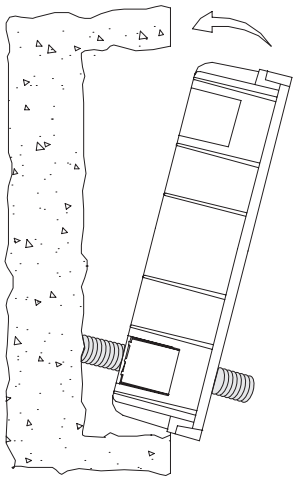
Preparing the cable entry:



Break through the hole to allow **entry of cables through the bottom part of the embedding box.**
In the case of door panels with more than one embedding box, break through the side holes and join the embedding boxes using cable grommets.



Fitting the embedding box:

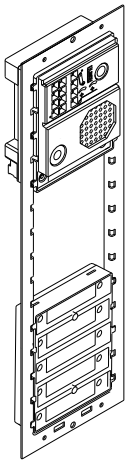


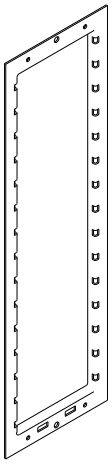
Pass the cable through the hole made in the embedding box. Embed the box and ensure that it is level and flush. Once the embedding box is positioned, remove the protective stickers from the door panel's fixing holes.

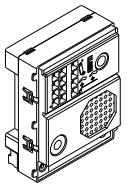
Mounting the electronic modules:

Insert the sound module into the top of the frame module.
Line up the clips on the sound module with the respective housings on the frame module and then press gently until correctly positioned.

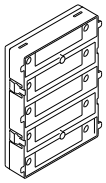
If there is a button module, repeat the above process, positioning it below the sound module or the other frame if any, as shown in the drawing.







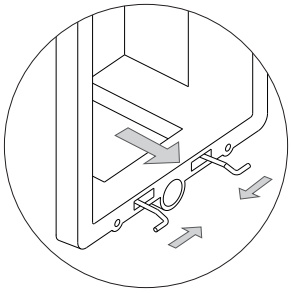
Sound module
EL655
EL651
EL620
EL632
EL642
EL632/R5
EL642/R5



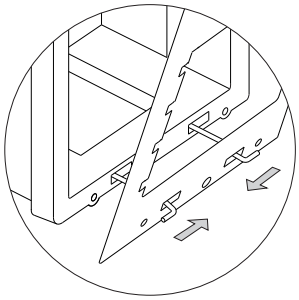
Button modules
EL610X

INSTALLATION OF THE DOOR PANEL

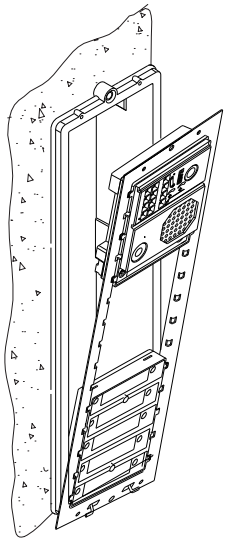
Fastening the frame to the embedding box:



Insert the spring hinge which attaches to the product in the embedding box, as shown in the drawing.



To fasten the frame to the embedding box, insert the spring hinge into the housings provided for this purpose in the frame, as shown in the drawing.

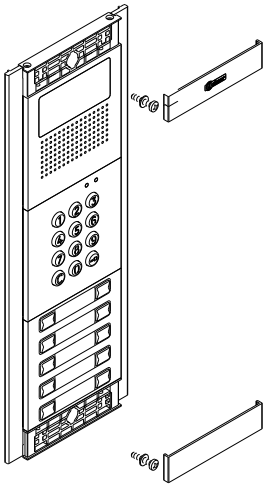


The frame can now be tilted horizontally to enable connection and setting of the sound module, button modules and access control module Connect the Nexa Bus hose link (if any) to the sound module and access control modules as shown in the *"Nexa Bus connection between the sound module and coded module"* section on p. 78.

Cabling, connection and button configuration:

See the manual supplied with the sound module.

Closing the door panel:



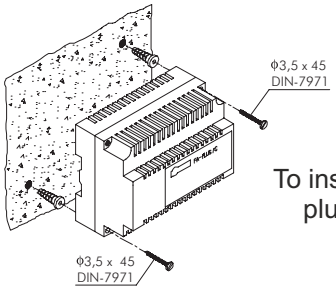
Fix the door panel to the embedding box using the screws supplied.

To complete the fitting of the panel, attach the clip-on covers by positioning one end and then applying slight pressure to the other end until they clip into place.

INSTALLATION OF THE POWER SUPPLY UNIT

FA-PLUS and FA-PLUS/C power supply installation drawing:

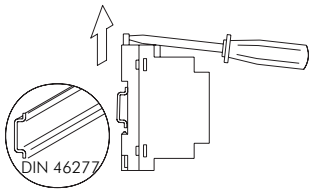
Install the power supply unit in a dry and protected place free from the risk of water leaks or sprays.
To prevent electric shock, do not remove the protective cover of the primary or handle the wiring.
The fitting and handling of this device must be carried out by authorised personnel in the absence of electrical current.
To avoid damage, the power supply unit must be firmly secured in place.



Please note that current regulations stipulate that the power supply must be protected by a circuit breaker. Connect the FA-Plus power supply unit to the earth connection.

To install the power supply unit directly on the wall, drill two holes of Ø6mm and insert the wall plugs. Fix the power supply unit using the specified screws.

The power supply unit can be installed on a DIN 46277 rail by applying slight pressure.
To remove the power supply unit from the DIN rail, use a flat screwdriver to lever it off, as shown in the drawing.
The FA-Plus/C model requires 6 elements on the DIN rail and the FA-Plus model 10.



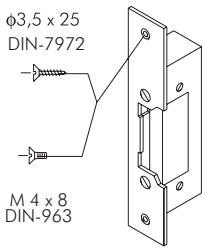
IMPORTANT: the maximum number of units that can be connected to FA-Plus/C and FA-Plus power supply unit is 10 and 50, respectively.

Replace the protective cover once the input terminals have been wired.

INSTALLATION OF THE LOCK RELEASE

Lock release

If the lock release is to be fitted to a metal door, use a Ø3.5mm drill bit and thread the hole made.
For wooden doors, use a Ø3mm drill bit.



IMPORTANT: the access control module is supplied with two varistors. If connecting an AC lock release to one of the outputs, fit the varistor supplied directly to the lock release terminals to ensure that the module functions correctly.

DOOR PANEL OPERATION

Description of door panel operation

In addition to the operating mode of the access control module described on p. 10, it is possible to make calls to telephones and/or monitors in the installation using the door panel's corresponding EL610 button module.

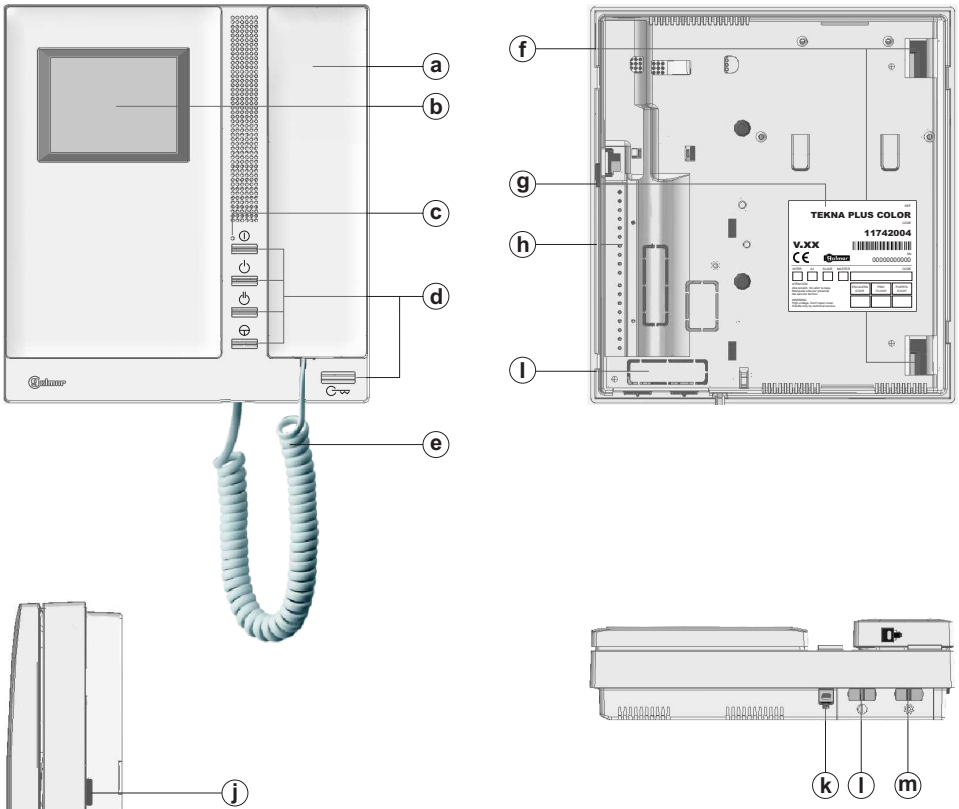
PROGRAMMING THE DOOR PANEL

Programming fields

To check the programming fields of the door panel with access control, see p. 11-21.

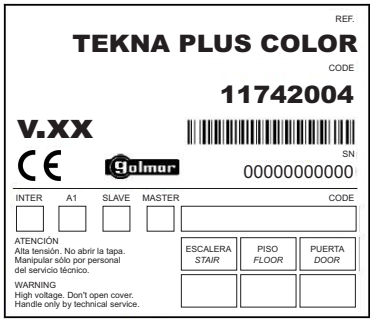
DESCRIPTION OF THE MONITOR

Description of the Tekna Plus monitor:



a. Handset.
b. Colour screen.
c. On-Off light indicator.
d. Function push buttons.
e. Telephone cord.
f . Connector fixings.
g. Identification label.
h. Connector connection points.
i . CN4 connector.
j . Three position volume control.
k. Cord connector.
l . Colour control.
m. Brightness control.

Description of the identification label:



To facilitate repair, replacement or the addition of monitors to the existing installation, fill in the label with the relevant information.

MASTER: main monitor.
SLAVE: secondary monitor.
INTER: secondary monitor with intercom function.
A1: monitor connected to an auxiliary device.
CODE: call button code.
STAIR: code of the channel (building).

DESCRIPTION OF THE MONITOR

Function push buttons:

On-Off button. After any monitor reset and during the next 45 seconds, all the monitor functions will be disabled, with the exception of call reception.

With the handset hung up, the second camera is activated (*). With the handset off the hook, an intercom call can be made and the second camera activated (*).

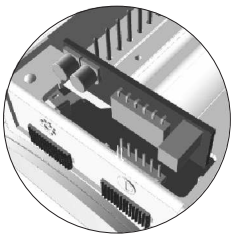
With the handset hung up, the auxiliary device is activated. With the handset off the hook, a call to the secondary guard unit can be made (*) or the auxiliary device activated.

With the handset hung up, the image from the master door panel can be viewed. With the handset off the hook, audio and video communication can be established with the door panel if it has its auto switch-on function activated. This only functions if no communication is in progress.

With the handset hung up, a panic call to the guard units configured to receive such calls is made. With the handset off the hook, a normal call can be made to the main guard unit. During call reception and communication processes, the door release can be activated.

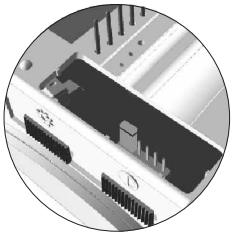
(*) The functions of activating the second camera and calling the secondary guard unit require internal modification of the monitor. If any of these functions are required, contact our technical support service.
Activation of the second camera disables the intercom function and activation of calls to the secondary guard unit disables the auxiliary device function.

EL562 module for video door entry system installations with twisted pair cable:



Locate the CN4 connector positioned at the bottom of the monitor. Remove the connector jumper and insert the EL562 module.
NOTE: in this type of installation, the SW1-3 DIP switch on the sound module must be set to ON (see p. 32). Use the specific wiring diagram.

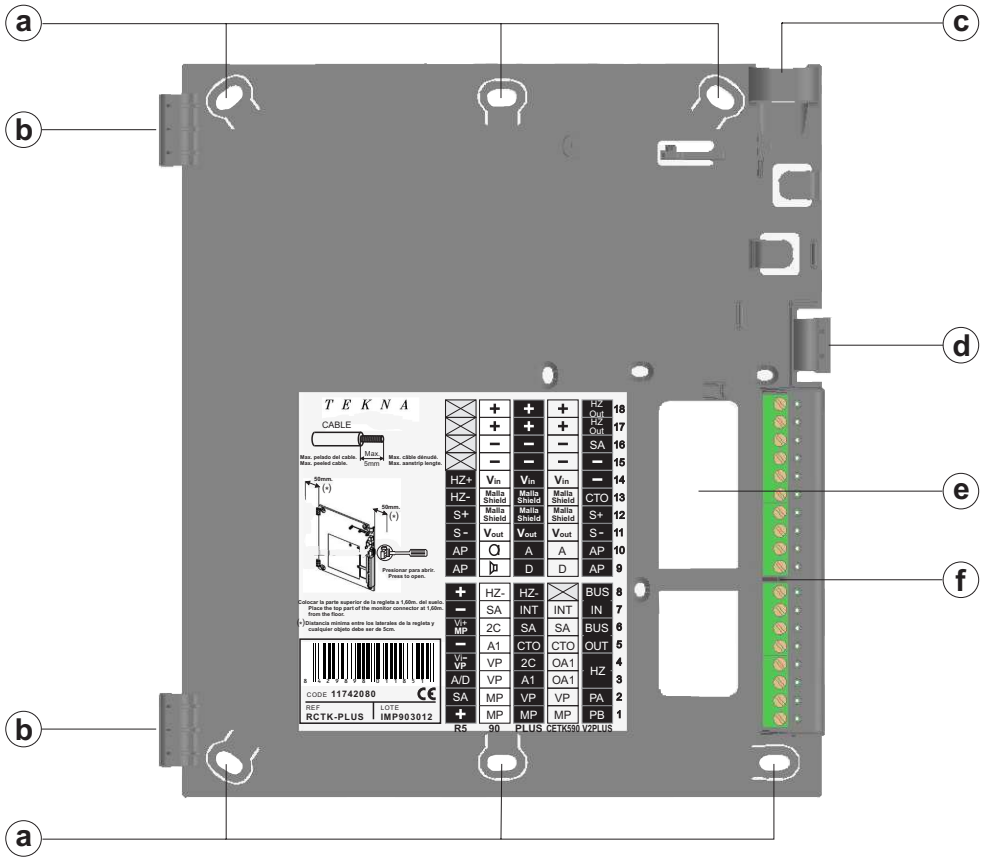
Handling of the end of line jumper:



The end of line jumper is located on the CN4 connector at the bottom of the monitor.
In case of twisted pair cable installations, the end of line jumper is placed in the EL562 module, also located in the CN4 connector of the monitor base (see above).
Do not remove the jumper on monitors where the video cable finish. Remove the jumper on monitors where the video cable continue.

DESCRIPTION OF THE WALL MOUNT CONNECTION BLOCK

Description of the RCTK-PLUS wall mount connection block:



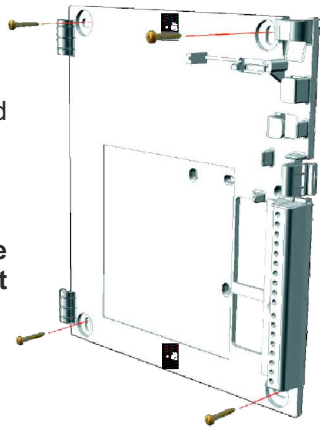
a. Holes for fixing to the wall (x6).
b. Monitor attachment hooks (x2).
c. Vertical wiring input.
d. Fixing clip.
e. Wiring input hole.
f. Connection terminals:

+, –:	positive, negative.
Vin :	video signal coaxial input.
Shield:	coaxial cable shield.
Vout :	video signal coaxial output.
A :	audio communication.
D :	digital communication.
HZ- :	door bell push button input.
INT :	intercom.
SA :	auxiliary calling device output.
CTO :	video distributor activation output.
2C :	2nd camera activation output.
A1 :	auxiliary device activation output.
Vp, Mp :	balanced video signal (via twisted pair).

Terminals +, - and shield are duplicated to facilitate the cascade connection of other monitors or telephones.
If the monitor is not positioned on the wall mount connection block, the cascade connected monitors or telephones will not receive power.

INSTALLATION OF THE MONITOR

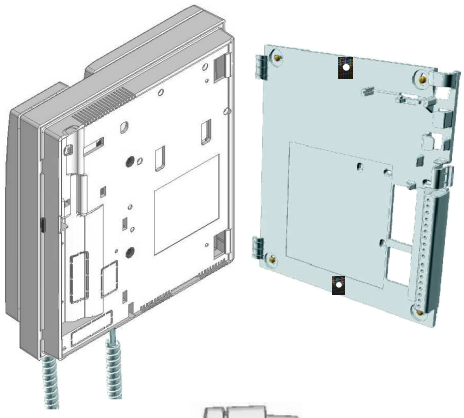
Fixing the monitor's wall mount connection block to the wall:

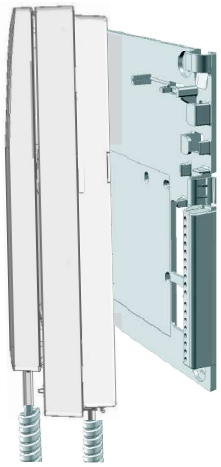


Avoid dusty or smoky environments or locations near sources of heat.
To install the monitor directly over the wall, drill two holes of Ø6mm and use the supplied screws.

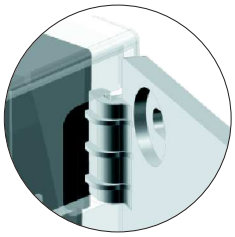
The top of the wall mount connector must be positioned at a height of 1.60m. The minimum distance between the sides of the wall mount connector and the closest object must be 5cm.

Colocar el monitor:





Place the monitor at right angles to the wall mount connector and align the holes on its base with the fixing clips of the connector, as shown in the drawing

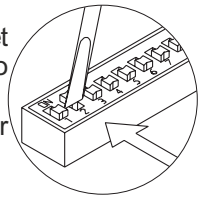


Close the monitor like a book, applying pressure to the right-hand side until the click of the connector's fixing clips can be heard.

To remove the monitor from the connector after installation, use a flat screwdriver to release the fixing clips. Once the monitor has been released, open it like a book and remove it from the connector, making sure that it does not fall.

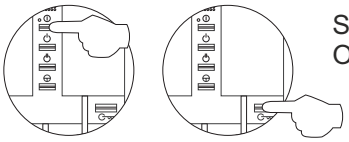
PROGRAMMING THE MONITORS

Programming the Tekna Plus monitors:

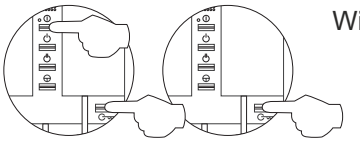


Locate the SW2 DIP switch situated on the top left-hand side of the back of the EL632/PLUS module and set number 2 to ON. The door panel will reproduce a sound to advise that the system has entered into programming mode.
In systems with more than one door panel, the programming process shall be done on the master door panel only.

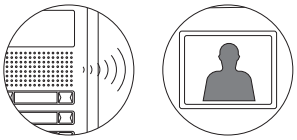
To programme the monitor from a general entrance door panel (if any), see p. 50.



Switch off the monitor to be programmed.
Once the telephone is off, press the door release push button.

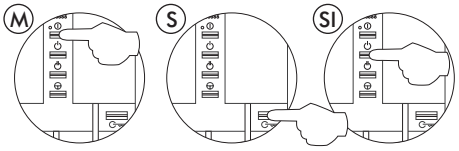


With the door release push button pressed, switch on the monitor.



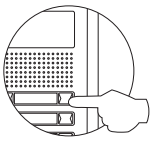
To show that the system is ready for programming, the door panel will reproduce a sound and the picture will appears on the monitor. At this moment, the door release push button can be released. Lift the handset to establish audio communication with the door panel.

Press the door panel push button that will call this monitor.
At this moment the door panel will reproduce a sound and the monitor led will blink.



To programme the monitor as the *Master*, switch it off and on again.
To programme it as a *Slave*, press the door release button.
To programme it as a *Slave with intercom*, press the ⏻ button.

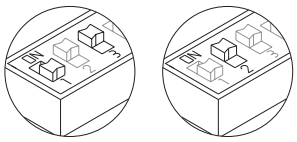
Each apartment must only have one master unit; if there are parallel units, whether monitors or telephones, they must be configured as slaves.



Make a call to check that the monitor has been successfully programmed. Programme the other telephones in the same way.
Once the programming has finished, set the programming switch to OFF. If this is not done, the door panel will emit tones to indicate that the system is still in programming mode.

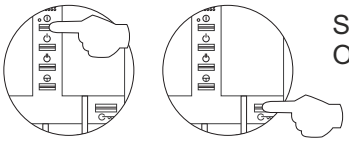
PROGRAMMING THE MONITORS - GENERAL ENTRANCE DOOR PANEL ONLY

Programming Tekna Plus monitors from a general entrance door panel (SW1-1 ON):

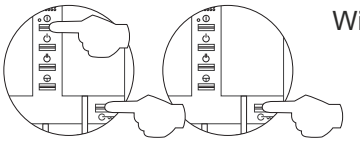


Locate the SW2 DIP switch on the general entrance door panel situated on the top left-hand side of the back of the sound module. With switch 1 OFF and switch 3 ON, set switch 2 to ON: the general entrance door panel will emit a tone indicating that it has entered programming mode.
In systems with more than one door panel, only carry out this procedure on the main door panel.

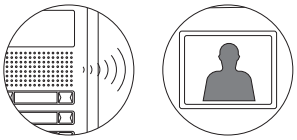
To programme the monitor from a inner door panel, see p. 49.



Switch off the monitor to be programmed.
Once the telephone is off, press the door release push button.

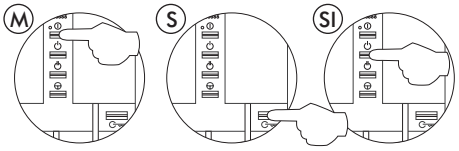


With the door release push button pressed, switch on the monitor.



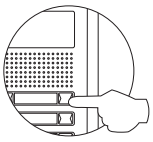
To show that the system is ready for programming, the door panel will reproduce a sound and the picture will appears on the monitor. At this moment, the door release push button can be released. Lift the handset to establish audio communication with the door panel.

Press the door panel push button that will call this monitor.
At this moment the door panel will reproduce a sound and the monitor led will blink.



To programme the monitor as the *Master*, switch it off and on again.
To programme it as a *Slave*, press the door release button.
To programme it as a *Slave with intercom*, press the ⏻ button.

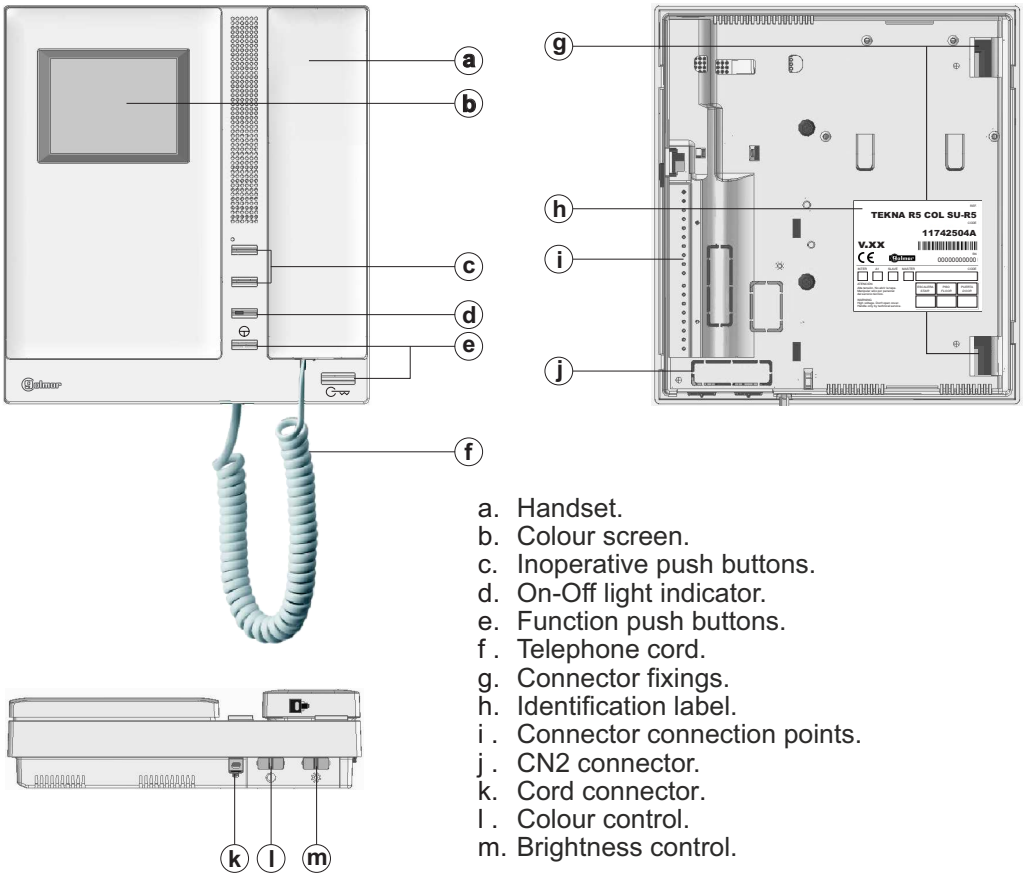
Each apartment must only have one master unit; if there are parallel units, whether monitors or telephones, they must be configured as slaves.



Make a call to check that the monitor has been successfully programmed. Programme the other telephones in the same way.
Once the programming has finished, set the programming switch to OFF. If this is not done, the door panel will emit tones to indicate that the system is still in programming mode.

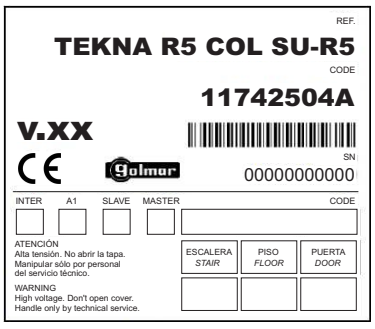
DESCRIPTION OF THE MONITOR

Description of the Tekna R5 monitor:



a. Handset.
b. Colour screen.
c. Inoperative push buttons.
d. On-Off light indicator.
e. Function push buttons.
f . Telephone cord.
g. Connector fixings.
h. Identification label.
i . Connector connection points.
j . CN2 connector.
k. Cord connector.
l . Colour control.
m. Brightness control.

Description of the identification label:



To facilitate repair, replacement or the addition of monitors to the existing installation, fill in the label with the relevant information.

MASTER: Main monitorl.
SLAVE: Secondary monitor.
INTER: Not used.
A1: Not used.
CODE: Call button code.
STAIR: Not used.

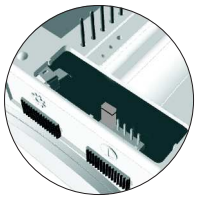
Function push buttons:

With the handset hung up, the image from the master door panel can be viewed. With the handset off the hook, audio and video communication can be established with the door panel if it has its auto switch-on function activated. This only functions if no communication is in progress.

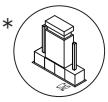
With the handset hung up, hold pressed for 1 second to turn the monitor on or off. For a period of 45 seconds after the monitor is turned on, it will only be able to receive calls.
With the handset off the hook, a call can be made to the main guard unit. During call reception and communication processes, the door release can be activated.

DESCRIPTION OF THE MONITOR

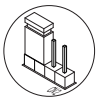
Handling of the end of line jumper:



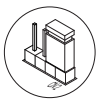
The end of line jumper is located on the CN2 connector at the bottom of the monitor. It has three positions:

* 

Set to the centre position when there are no parallel monitors. (Automatic mode)



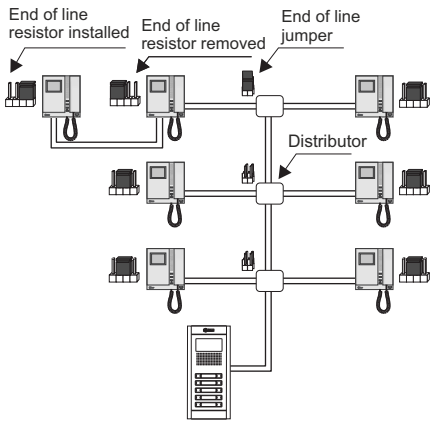
If there is a parallel monitor, set to this position on the first monitor. (Deactivated mode)



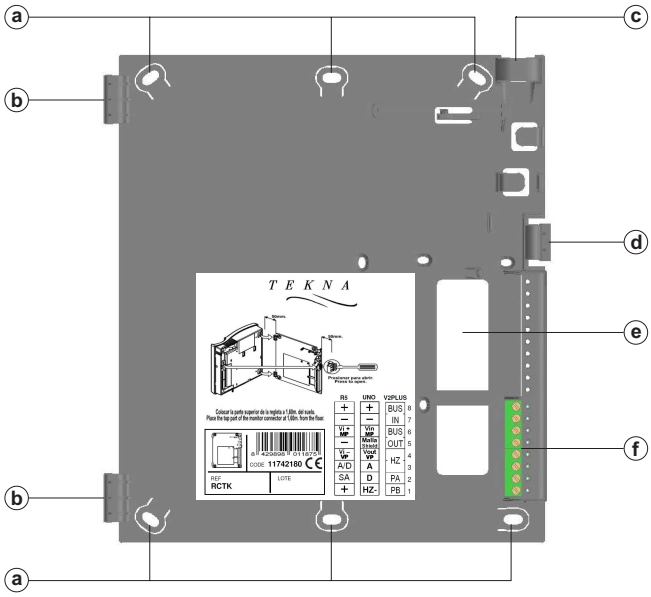
If there is a parallel monitor, set to this position on the last monitor. (Activated mode)

* Factory setting

Example configuration of the end of line jumper in the monitors.



Description of the RCTK wall mount connection block:



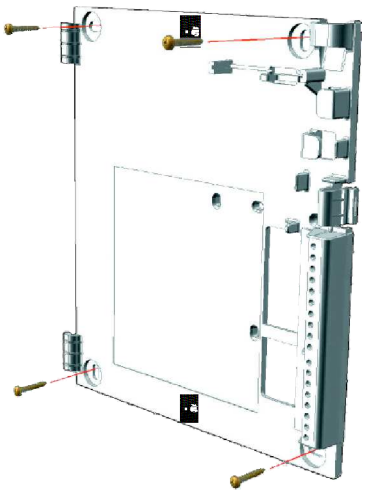
a. Holes for fixing to the wall (x6).
b. Monitor fixing clips (x2).
c. Vertical wiring input.
d. Fixing clip.
e. Wiring input hole.
f. Connection terminals:

+, –: Positive, negative.
Vi + / MP: Video signal MP input.
Vi – / VP : Video signal VP input.
A/D : Audio and digital communication.
SA : Auxiliary call repeater output.

The + and - terminals are duplicated to facilitate the cascade connection of other monitors or telephones.
If the monitor is not positioned on the wall mount connection block, the cascade connected monitors or telephones will not receive power.

DESCRIPTION OF THE MONITOR

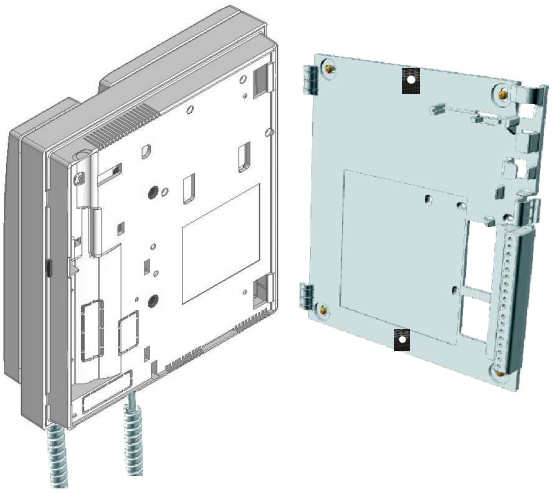
Fixing the monitor's wall mount connection block to the wall:



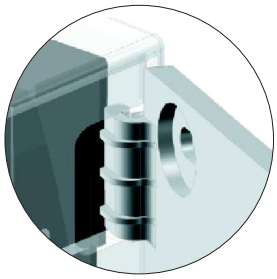
Avoid dusty or smoky environments or locations near sources of heat.
To install the monitor directly over the wall, drill two holes of Ø6mm and use the supplied screws.

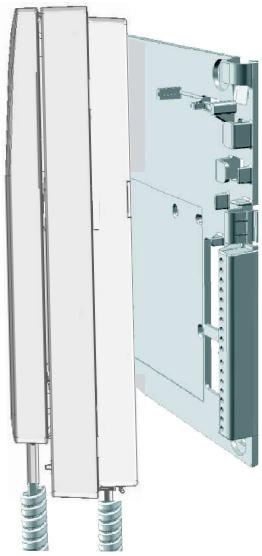
The top of the wall mount connector must be positioned at a height of 1.60m. The minimum distance between the sides of the wall mount connector and the closest object must be 5cm.

Positioning the monitor:



Place the monitor at right angles to the wall mount connector and align the holes on its base with the fixing clips of the connector, as shown in the drawing.



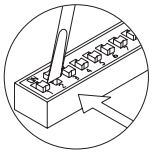


Close the monitor like a book, applying pressure to the right-hand side until the click of the connector's fixing clips can be heard.

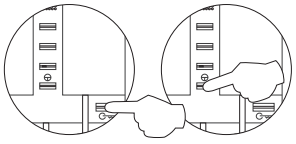
To remove the monitor from the connector after installation, use a flat screwdriver to release the fixing clips. Once the monitor has been released, open it like a book and remove it from the connector, making sure that it does not fall.

PROGRAMMING THE MONITORS

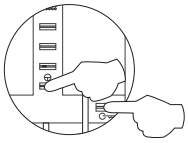
Programming Tekna R5 monitors:



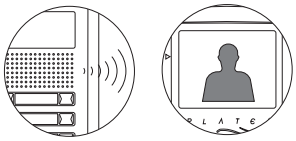
Locate the DIP switch situated at the back of the EL632/R5 sound module and set number 2 to ON, as described on p. 36. The door panel will reproduce a sound to advise that the system has entered into programming mode.
In systems with more than one door panel, the programming process shall be done on the master door panel only.



Turn off the monitor to be programmed by holding pressed the door release push button for one second.
Once off, press the auto switch-on button.

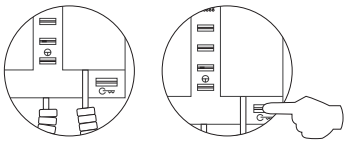


While holding pressed the auto switch-on button, simultaneously press the door release button.



To show that the system is ready for programming, the door panel will emit a tone and the image will appear on the monitor. The push buttons can now be released.
Lift the handset off the monitor.

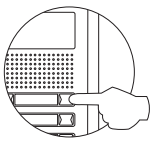
Press the door panel push button that will call this monitor.
At this moment both door panel and handset will emit tones.



With the handset lifted:
If programming the monitor as master, replace the handset.
If programming it as slave, press the door release push button, then replace the handset.

Master Slave

Each apartment must only have one master unit; if there are parallel units, whether monitors or telephones, they must be configured as slaves.

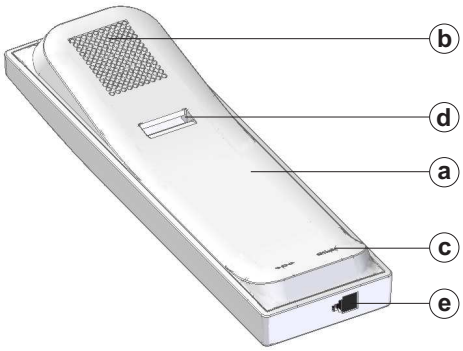


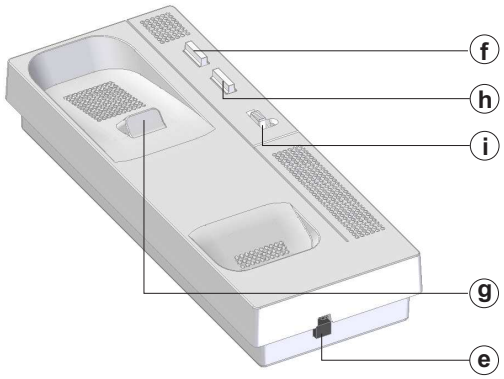
Make a call to check that the monitor has been successfully programmed. Programme the other telephones in the same way.
Once the programming has finished, set the programming switch to OFF. If this is not done, the door panel will emit tones to indicate that the system is still in programming mode.

IMPORTANT:
If the installation has a CD-PLUS/R5 converter with coded panel or guard unit, the programming codes assigned to the monitors must be between 1 and 250. To make it easier for the user to make a call, another parallel code can be assigned in a 2nd assignment table.

DESCRIPTION OF THE TELEPHONES

Description of the T-540 Plus telephone





a. Handset.
b. Speaker grille.
c. Microphone hole.
d. Subjection hole.
e. Telephone cord connectors.
f. Door release push button.
g. Hook switch.
h. Auxiliary function push button.
i. Volume control.

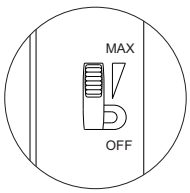
Description of the connection terminals:

+	–	A	D	AI	–	HZ	SA	+	Int	PA

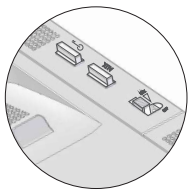
+, - : Positive, negative.
A , D : Audio, digital communication.
AI : Exterior door release push button connection.
HZ : Door bell connection.
SA : SAV-90 call repeater connection.
INT : Intercom function.
PA : Aux. relay activation output. (18Vdc/0.5A max.)

Volume control:

The telephone has a call volume control which can be set to maximum, medium or mute.
With the help of the three-position switch located on the front right of the telephone.



Function push buttons:



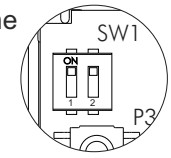
⊶ With the handset hung up, a panic call to the guard units configured to receive such calls is made. With the handset off the hook, a normal call can be made to the main guard unit. During call reception and communication processes, it allows lock release activation.

AUX Function button which, depending on the SW1 DIP switch setting, will perform one of the following functions: Auto switch-on, PA output, call to secondary guard unit and intercom.

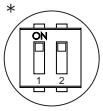
DESCRIPTION OF THE TELEPHONES

Description of the DIP switch:

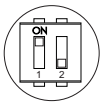
The SW1 DIP switch is located on the top left-hand side of the circuit and is accessible by opening the telephone. It allows the following operating modes for the P2 auxiliary function button:



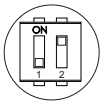
*



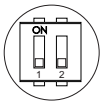
"Auto switch-on" mode: DIP switches 1 and 2 set to ON.
With the handset off the hook and then by pressing the function button, this enables audio communication to be established with the door panel, if it has this function activated, without being called. This only functions if no operation is in progress.



"PA output" mode: DIP switch 1 set to ON and DIP switch 2 set to OFF:
Regardless of the position of the handset and by pressing the function push button, this enables the telephone's "PA" output to be activated.



"Secondary CE call" mode: DIP switch 1 set to OFF and DIP switch 2 set to ON.
With the handset off the hook and then by pressing the function push button, this enables a call to be made to the guard unit configured as secondary.

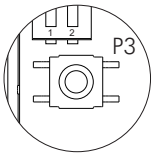


"Intercom" mode: DIP switches 1 and 2 set to OFF.
With the handset off the hook and then by pressing the function button, this enables the intercom function between two points in the same apartment.

IMPORTANT: Select the function mode of the P2 button before programming the telephone.

* Factory setting

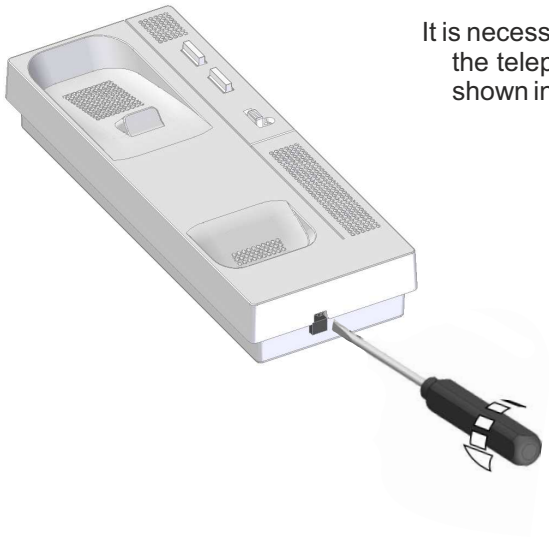
Description of the programming button



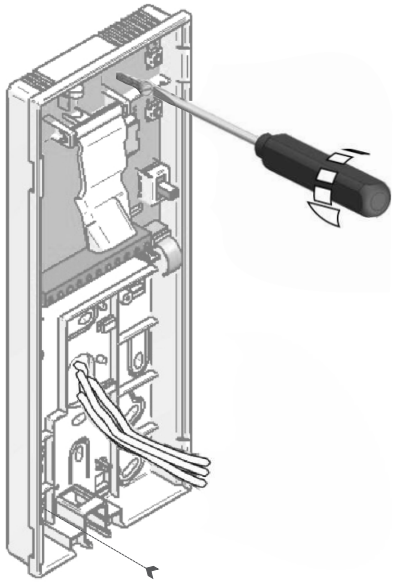
The P3 programming button is located on the top left-hand side of the circuit and is accessible by opening the telephone. It enables the telephone to enter programming mode with the door panel (see the programming process on p. 58-59).

DESCRIPTION OF THE TELEPHONES

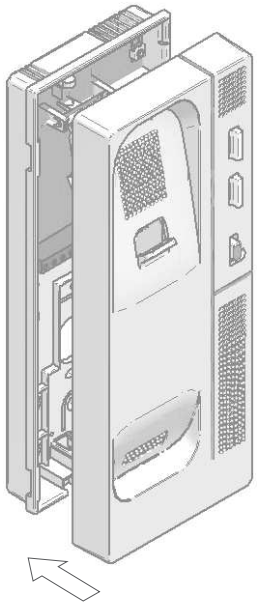
Fixing the telephone to the wall:



It is necessary to open the telephone for wiring and fixing purposes. To open the telephone, insert a flat screwdriver into the slots and gently lever as shown in the drawing.



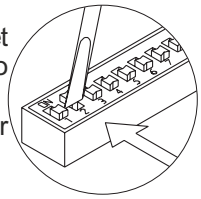
Avoid dusty or smoky environments or locations near sources of heat. The telephone can be secured using an electrical embedding box or directly to the wall. To secure directly to the wall, drill two 6mm holes at the specified positions using 6mm wall plugs and Ø3.5 x 25mm screws.



Feed the wires through the holes and connect them to the wall mount connector as per the wiring diagram. Close the telephone as shown in the drawing. Once the telephone is closed, connect the handset using the telephone cord and put it on the cradle.

PROGRAMMING THE TELEPHONES

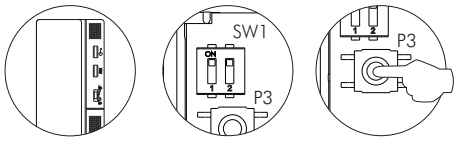
Programming T-540 Plus telephones:



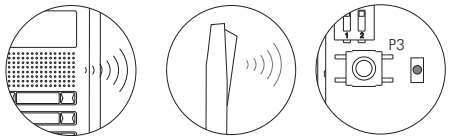
Locate the SW2 DIP switch situated on the top left-hand side of the back of the EL632/PLUS module and set number 2 to ON. The door panel will reproduce a sound to advise that the system has entered into programming mode.

In systems with more than one door panel, the programming process shall be done on the master door panel only.

To programme the telephone from a general entrance door panel (if any), see p. 59.

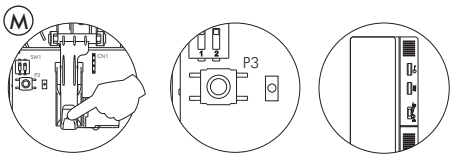


Open the telephone to be programmed (see p. 57). In the SW1 DIP switch, select the P2 button function mode (see p. 56) and then press the P3 programming button.

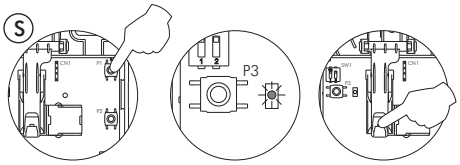


To show that the system is ready for programming, the door panel and the telephone handset will emit a number of tones (the LED on the telephone will light up), enabling audio communication to be established with the door panel.

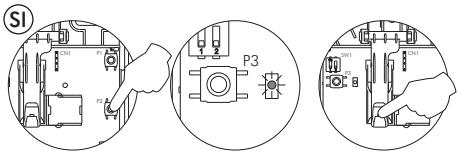
Press the door panel push button that will call this telephone. At this moment, the door panel and the handset will emit a number of tones (the LED on the telephone will blink slowly).



To programme the telephone as the *Master*, press the hang up button (the LED will go out). *Close the telephone.*

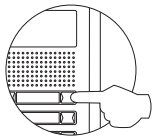


To programme the telephone as the *Slave*, press the P1 lock release button (the LED will blink rapidly), and then press the hang up button (the LED will go out). *Close the telephone.*



To programme the telephone as the *Slave* + *Intercom*, press the P2 function button (the LED will blink rapidly), and then press the hang up button (the LED will go out).
Close the telephone.

Each apartment must only have one master unit; if there are parallel units, whether monitors or telephones, they must be configured as slaves.

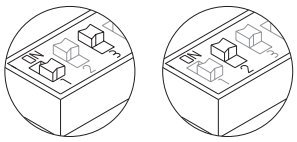


Make a call to check that the telephone has been successfully programmed. Programme the other telephones in the same way.

Once the programming has finished, set the programming switch to OFF. If this is not done, the door panel will emit tones to indicate that the system is still in programming mode.

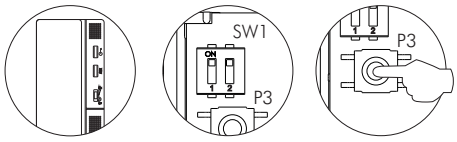
PROGRAMMING THE TELEPHONES - GENERAL ENTRANCE DOOR PANEL ONLY

Programming T-540 Plus telephones from a general entrance door panel (SW1-1 ON):

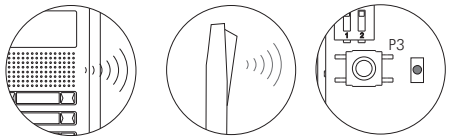


Locate the SW2 DIP switch on the general entrance door panel situated on the top left-hand side of the back of the sound module. With switch 1 OFF and switch 3 ON, set switch 2 to ON: the general entrance door panel will emit a tone indicating that it has entered programming mode.
In systems with more than one door panel, only carry out this procedure on the main door panel.

To programme the telephone from a inner door panel, see p. 58.

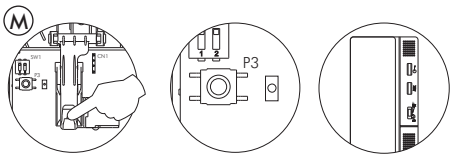


Open the telephone to be programmed (see p. 57). In the SW1 DIP switch, select the P2 button function mode (see p. 56) and then press the P3 programming button.

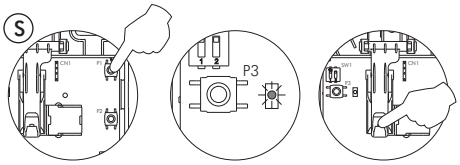


To show that the system is ready for programming, the door panel and the telephone handset will emit a number of tones (the LED on the telephone will light up), enabling audio communication to be established with the door panel.

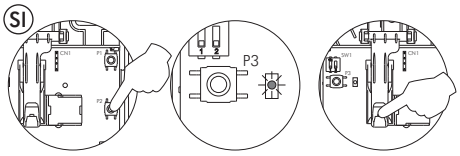
Press the door panel push button that will call this telephone. At this moment, the door panel and the handset will emit a number of tones (the LED on the telephone will blink slowly).



To programme the telephone as the *Master*, press the hang up button (the LED will go out). *Close the telephone.*

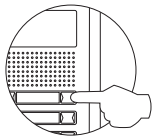


To programme the telephone as the *Slave*, press the P1 lock release button (the LED will blink rapidly), and then press the hang up button (the LED will go out). *Close the telephone.*



To programme the telephone as the *Slave* + *Intercom*, press the P2 function button (the LED will blink rapidly), and then press the hang up button (the LED will go out).
Close the telephone.

Each apartment must only have one master unit; if there are parallel units, whether monitors or telephones, they must be configured as slaves.

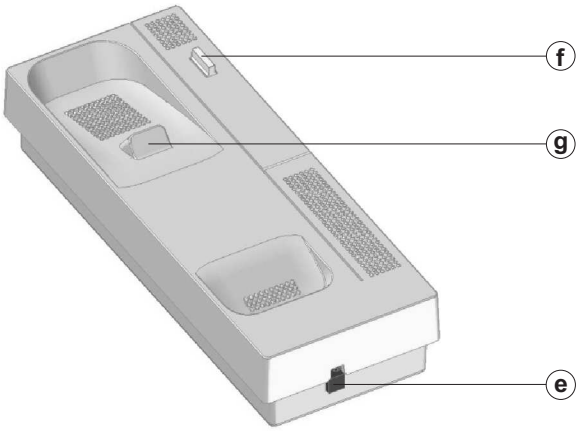


Make a call to check that the telephone has been successfully programmed. Programme the other telephones in the same way.
Once the programming has finished, set the programming switch to OFF. If this is not done, the door panel will emit tones to indicate that the system is still in programming mode.

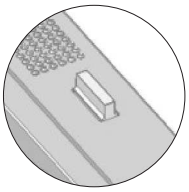
DESCRIPTION OF THE TELEPHONES

Description of the T-530 R5 telephone:

a. Handset.
b. Speaker grille.
c. Microphone hole.
d. Subjection hole.
e. Telephone cord connectors.
f. Function push button.
g. Hook switch.



Function push button:



With the handset off the hook, a normal call can be made to the main guard unit. During call reception and communication processes, it allows lock release activation.

Description of the connection terminals:

+	–	A/D	SA

+ , – : Positive, negative.
A/D : Audio and digital communication.
SA : Auxiliary call repeater output.

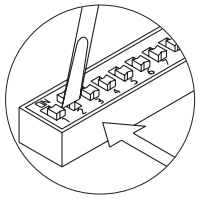
PROGRAMMING THE TELEPHONES

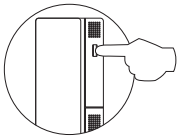
Programming T-530 R5 telephones:

Locate the DIP switch situated at the back of the sound module and set number 2 to ON, as described on p. 36.

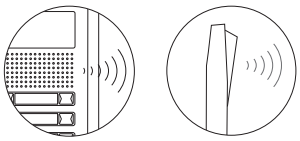
The door panel will reproduce a sound to advise that the system has entered into programming mode.

In systems with more than one door panel, the programming process shall be done on the master door panel only.





With the door release push button pressed, pick up the telephone's handset.

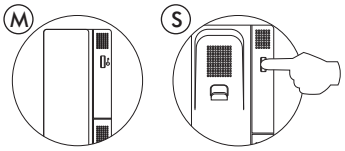


To show that the system is ready for programming, the door panel and handset will emit a number of tones, and audio communication can be established.

Release the door release push button.

Press the door panel push button that will call this telephone.

At this moment both door panel and handset will emit tones.



Master Slave

With the handset lifted:

If programming the telephone as master, replace the handset.

If programming it as slave, press the door release push button, then replace the handset.

Each apartment must only have one master unit; if there are parallel units, whether monitors or telephones, they must be configured as slaves.

Make a call to check that the telephone has been successfully programmed. Programme the other telephones in the same way.

Once the programming has finished, set the programming switch to OFF. If this is not done, the door panel will emit tones to indicate that the system is still in programming mode.

IMPORTANT:

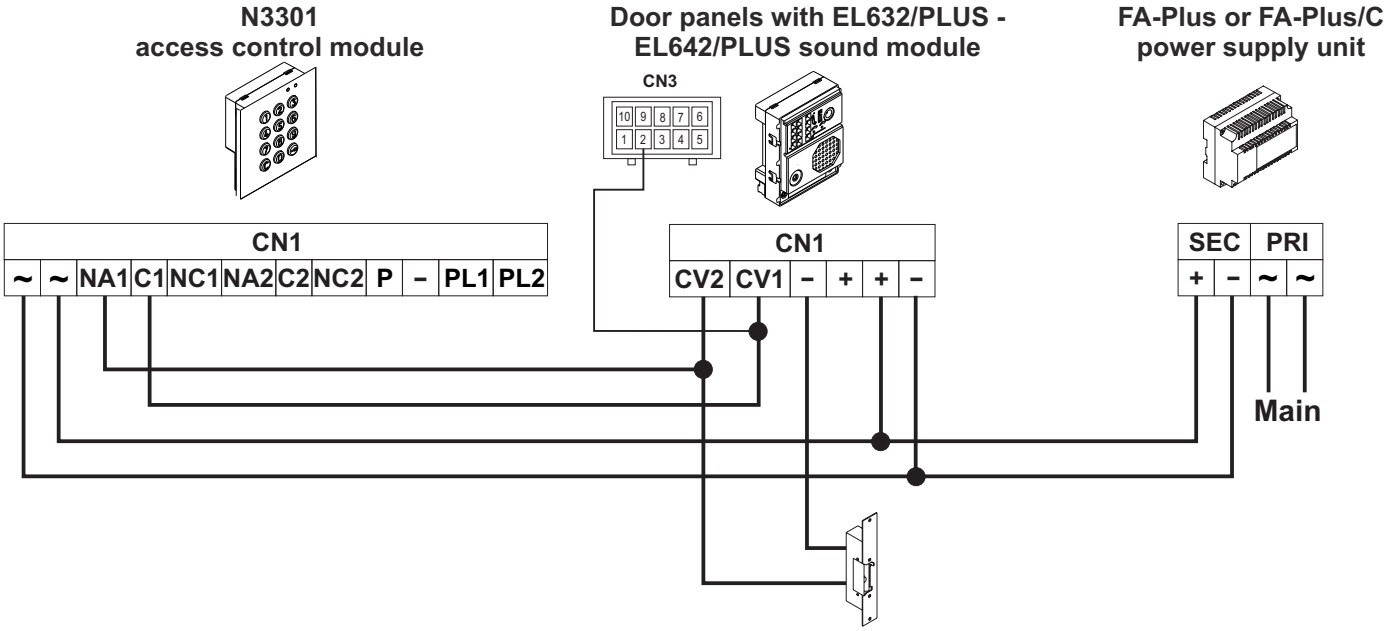
If the installation has a CD-PLUS/R5 converter with coded door panel or guard unit, the programming codes assigned to the telephones must be between 1 and 250. To make it easier for the user to make a call, another parallel code can be assigned in a 2nd assignment table.

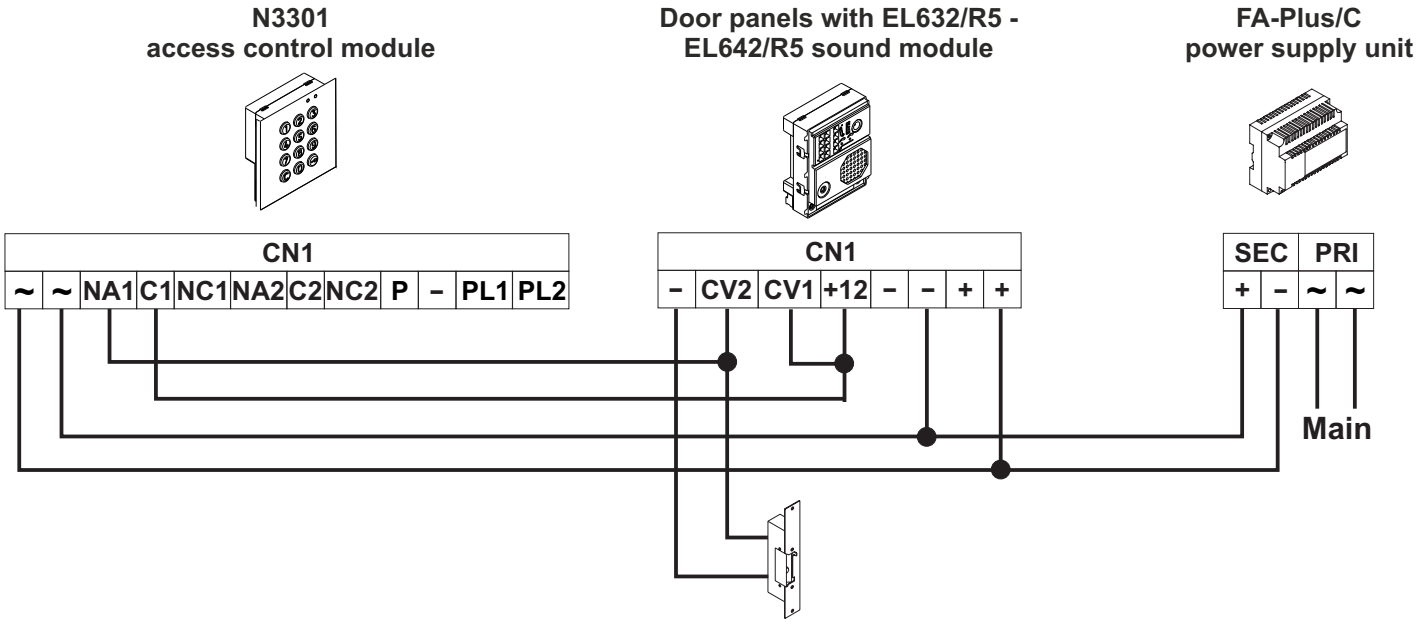
WIRING DIAGRAMS

Combined with Nexa Modular / Nexa Stainless Steel panels:

The wiring of the access control module with 'Nexa Modular/Nexa Stainless Steel' panels will vary depending on the type of installation. Use the same power supply unit as the panels.

Electronic or video access control systems with digital installation.



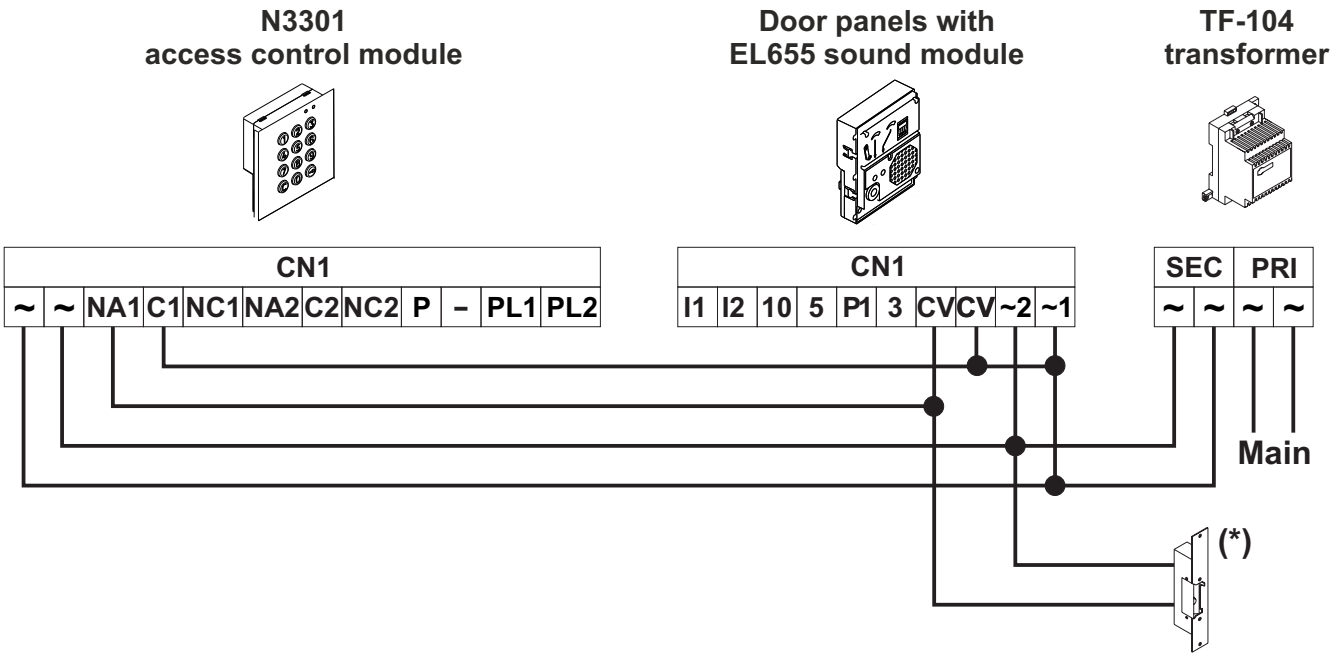


NOTE: To connect the modules to an **EL632/EL642 Plus or EL632/EL642 R5** module, use the NEXA Bus hose. See p. 78 to check the wiring and p. 109 to check the wiring diagram.

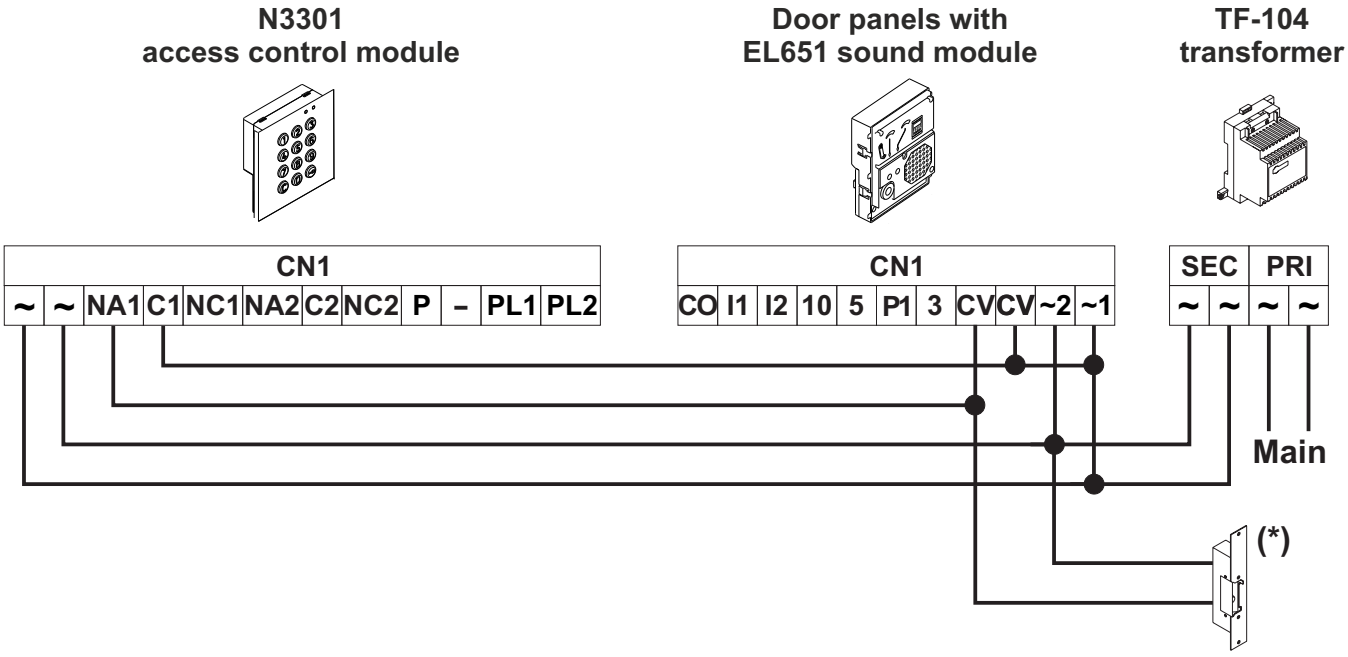
WIRING DIAGRAMS

Combined with Nexa Modular / Nexa Stainless Steel panels:

Audio door entry systems with one access door and 4+'n' installation.



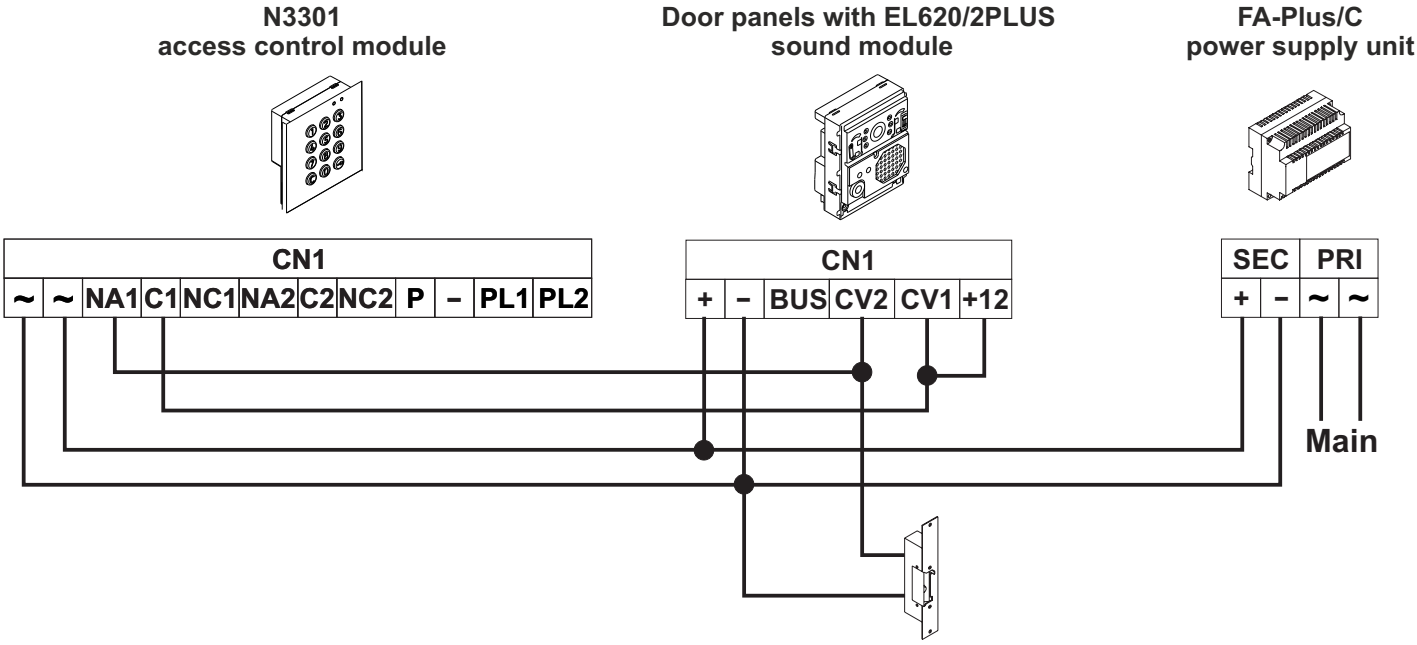
Audio door entry systems with several access doors and 4+'n' installation.

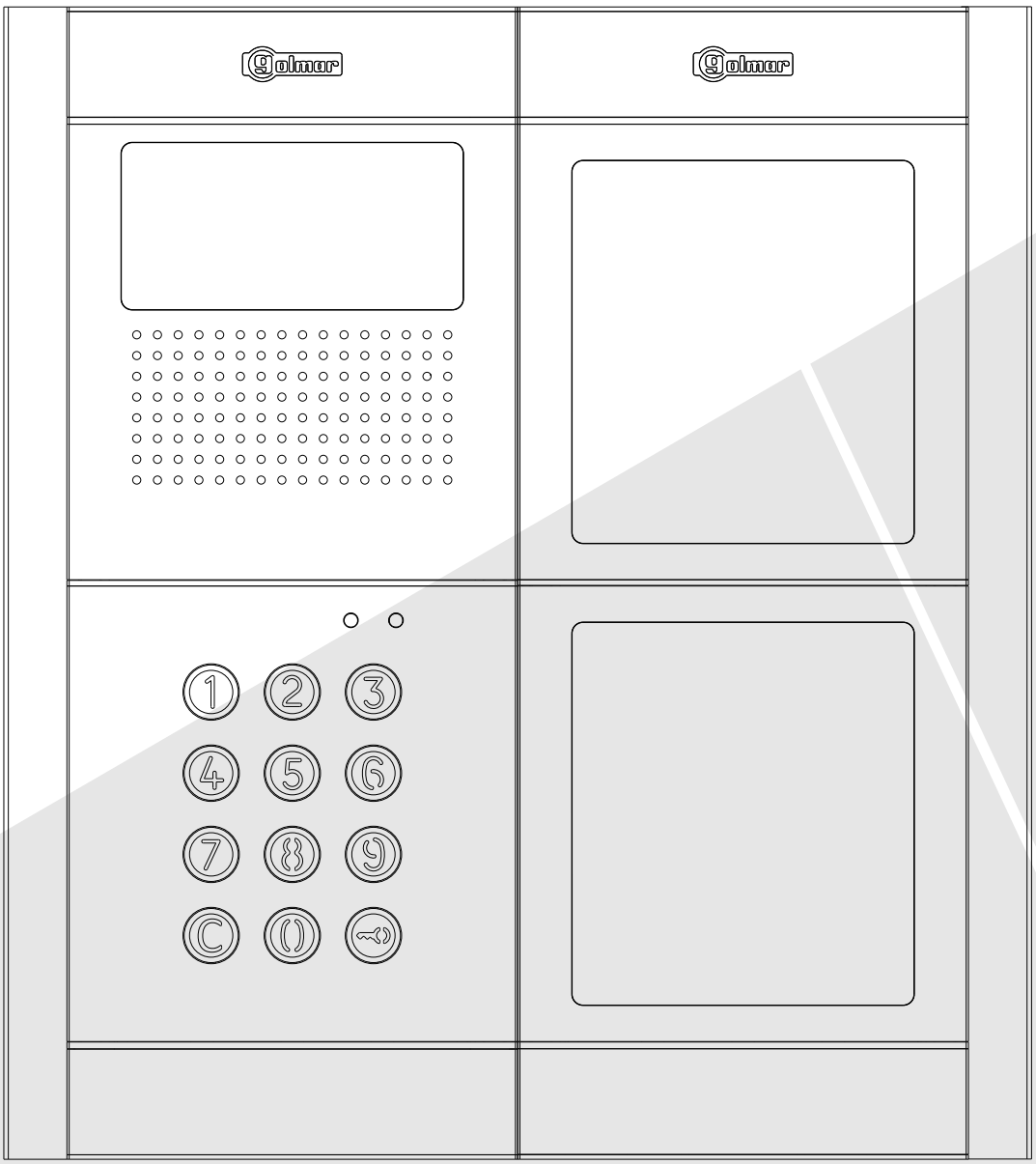


(*) Lock release systems connected to audio door entry systems with 4+'n' installation operate at 12V AC: fit the varistor supplied with the access control module directly to the terminals of the lock release.

WIRING DIAGRAMS

Combined with Nexa Modular / Nexa Stainless Steel panels:





Coded door panel

CONTENTS

CHARACTERISTICS

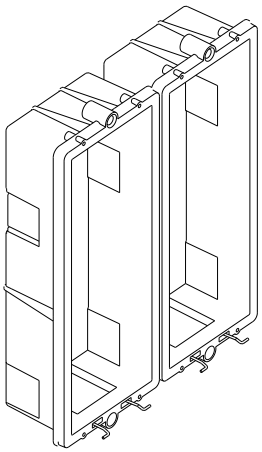
Configuring the coded door panel enables calls to be made to apartments by entering the monitor code and access to be gained to the building by means of the coded and access control modules.

DESCRIPTION OF THE DOOR PANEL

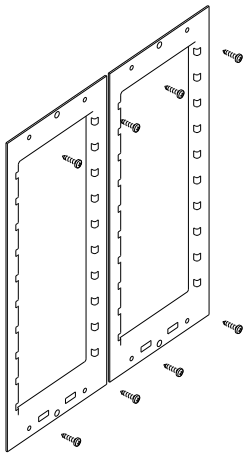
Description of the Nexa modular door panel:

Door panel component assembly drawing.

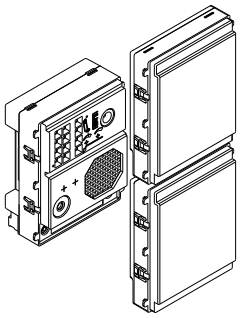
Embedding boxes



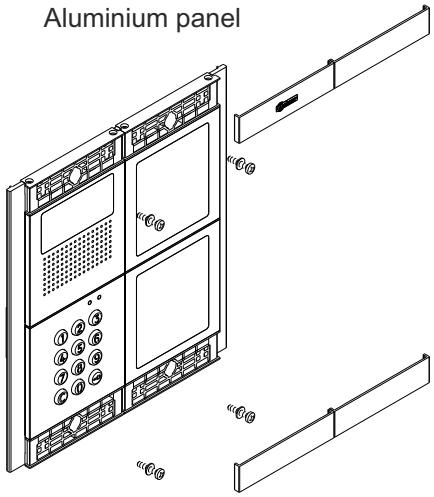
Frame modules



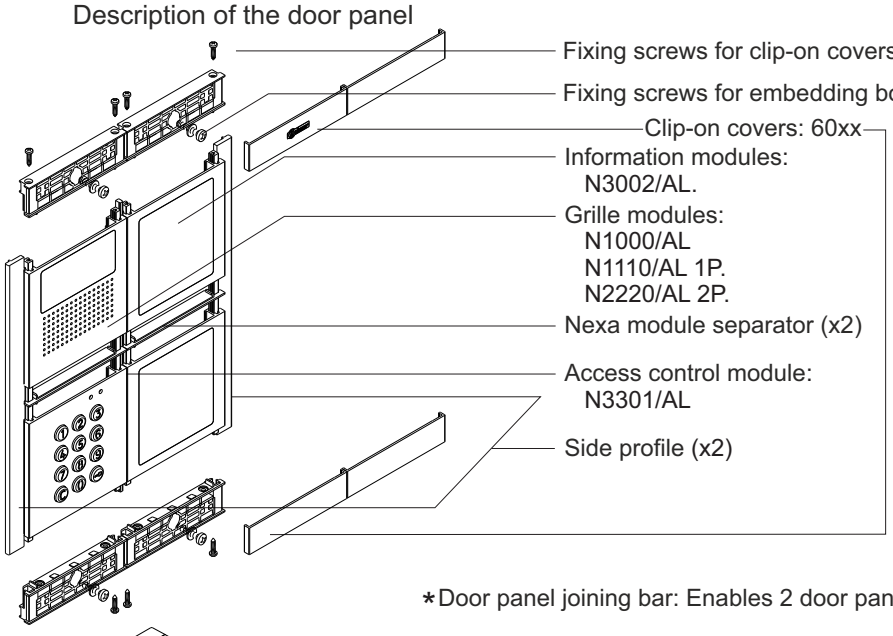
Electronic modules



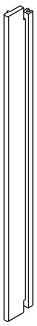
Aluminium panel



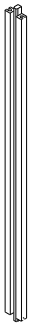
Description of the door panel



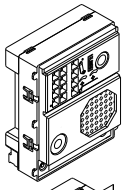
Side profile



*Door panel joining bar

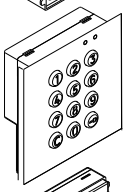


*Door panel joining bar: Enables 2 door panels to be joined.



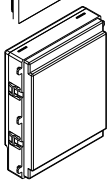
Sound modules

EL632/PLUS, video door entry system with colour television camera, 3 wires + COAX.
EL642/PLUS, audio door entry system, 4 common wires.
EL632/R5, video door entry system with colour television camera, 5 common wires.
EL642/R5, audio door entry system, 5 common wires.



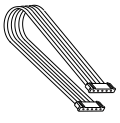
Access control module

N3301/AL, coded module.



Lighting module

EL3002 (see p. 78)

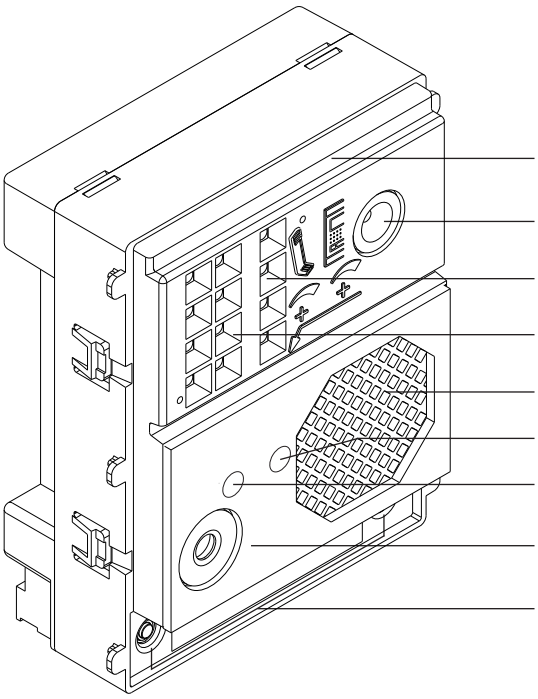


NEXA Bus link hose (length 50 cm).

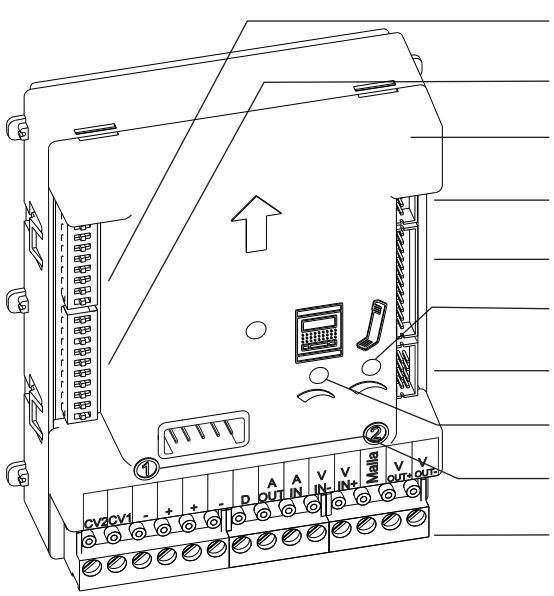
To connect the EL632/EL642 Plus or EL632/EL642 R5 module to the N3301/AL coded module and the EL3002 lighting module (maximum 6 units)

DESCRIPTION OF THE SOUND MODULE

Description of the EL632/PLUS - EL642/PLUS sound module:



Front.
Colour camera. (Only the EL632/PLUS module)
LEDs (visual indications for people with impaired hearing)
LEDs.
Speaker.
Door panel speaker volume control potentiometer.
Telephone speaker volume control potentiometer.
Microphone.
Sound module buttons (x2).



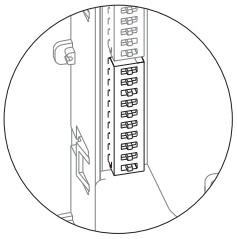
SW2 DIP switch.
SW1 DIP switch.
Back.
CN8 NEXA Bus connector.
CN6 button connector.
Telephone speaker volume control potentiometer.
CN3 function connector.
Door panel speaker volume control potentiometer.
Button number.
Connection block.

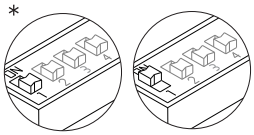
CV1	: Contact “C” for electric lock. Relay 3.
CV2	: Contact “N.O.” for electric lock. Relay 3.
+, −	: Positive, negative.
D	: Digital communication.
Aout	: Audio output communication.
Ain	: Audio input communication.
Vi+,Vi-	: Balanced video signal input (through twisted pair).
Vo+,Vo-	: Balanced video signal output (though twisted pair).
Shield	: Coaxial cable shield.
Vi+	: Video signal input through coaxial cable.
Vo+	: Video signal output through coaxial cable.

DESCRIPTION OF THE SOUND MODULE

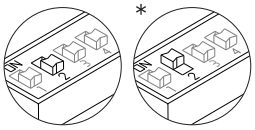
Description of the SW1 DIP switch:

The SW1 DIP switch is located on the left-hand side of the back of the module.
To set the DIP switches, use the tool supplied with the sound module.

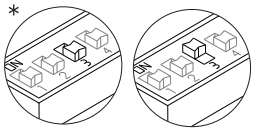




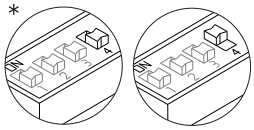
Leave in the OFF position if the sound module is configured as operating mode EL500.
Set to ON to configure the sound module as operating mode EL501 (general entrance door panel).



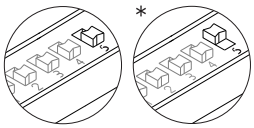
Select the door opening time carried out from the exterior button ('AP' terminal). For more information, see the manual supplied with the sound module.
Leave in the ON position to set the door opening time to 3 seconds.
Set to OFF to set the opening time to 15 seconds.



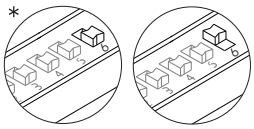
Select the type of cabling for the video signal.
Leave in the OFF position for coaxial cables RG-59 or RG-11.
Set to ON for twisted pair cable.



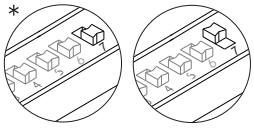
Leave in the OFF position if the door panel features a television camera. If the door panel has no television camera (EL642/Plus sound module), set to ON.



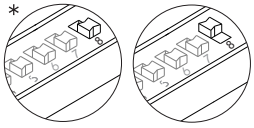
For Plus systems, load the installation with a Plus communications resistor. For proper operation, only leave in the ON position on the door panel closest to the installation channel or on the general entrance door panel (if any). Set the others to OFF.



For Uno systems, load the installation with an Uno communications resistor. For proper operation, only set to ON on the door panel closest to the installation channel. Leave the others in the OFF position.
<u>If an RD Plus/Uno repeater is used:</u>
In the installation channel or at the entry of the inner door panel in systems with general entrance door panels, leave the door panel(s) in the OFF position.



Set to ON for the volume of the door panel tones:
(call in progress, busy system and door opened) to be *HIGH* or leave in the OFF position if *LOW* volume is required.



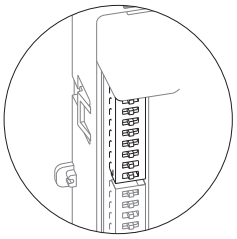
Set to ON for calls made from a door panel to be captured by the guard unit (if any). Leave in the OFF position for the call to be received in the apartment.
In general entrance door panel systems, this function is only applicable to general entrance door panels.

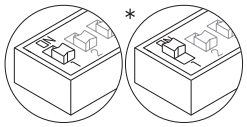
* Factory setting

DESCRIPTION OF THE SOUND MODULE

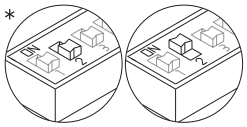
Description of the SW2 DIP switch:

The SW2 DIP switch is located on the left-hand side of the back of the module.
To set the DIP switches, use the tool supplied with the sound module.

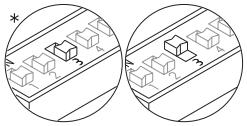




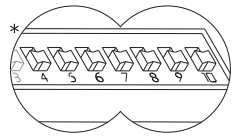
This enables the auto switch-on (audio and/or video communication without having been called) of the door panel if it has this switch set to the ON position. In buildings with several door panels, only activate on one of them; in systems with a general entrance door panel, it can be activated on one door panel in each building.



Set to ON for monitor or telephone programming. After programming, return it to the OFF position. The programming method is described on p. 96 for monitors and p. 105 for telephones.
On the general entrance door panel (EL501 mode), set to ON to programme the buttons of the general entrance door panel or the monitors/telephones of the channel (building). The programming method is described on p. 97 and p. 106. After programming, return it to the OFF position.



Leave in the OFF position if it is a master door panel. Each system must have only one master door panel; the others must be slaves (ON).
In systems with a general entrance door panel, a door panel from each channel (building) must be configured as the master and the general entrance door panel must be configured as a slave. By doing so, the user will know from which door panel the call is being made.



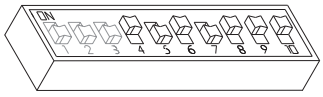
* Factory setting

They define the code of the channel (building). In channels with more than one door panel, set the same code for all panels; in systems with a general entrance door panel, set different codes for each channel. Set a code between 1 and 120 for the inner channels (up to 127 if the general entrance door panel is coded) and channel code 0 (factory setting) for the general entrance door panels. The assignment of the code is carried out in binary form, as shown in the following section.

Binary coding of the SW2 DIP switch:

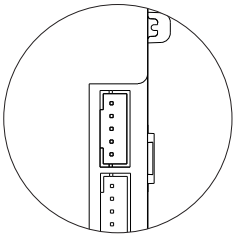
Switches set to the OFF position have a zero value. The values of the switches set to ON are shown in the enclosed chart. The code of the channel (building) will be equal to the sum of the values of the switches set to ON.

Switch number:	4	5	6	7	8	9	10
ON value:	64	32	16	8	4	2	1



Example: 64+0+16+0+4+2+1=87

Description of the CN8 NEXA Bus link connector:

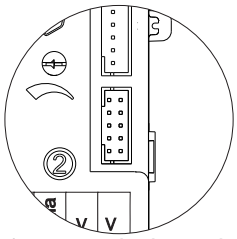


The CN8 NEXA Bus link connector is located on the top right-hand side of the back of the sound module.
Connect the cable supplied with the module to other modules using the NEXA Bus:

- ⇨N3403/AL: Connect the module to provide the system with a display viewer.
- ⇨N3301/AL: Connect the module to provide the system with access control and a coded door panel.
- ⇨N3301A/AL: Connect the module to provide the system with an alphabetic panel.
- ⇨EL3002: Connect to the bus to power information panels (maximum 6 units).
- ⇨CD-NEXA/BT: Connect the module to provide the system with a wireless configuration interface.

DESCRIPTION OF THE SOUND MODULE

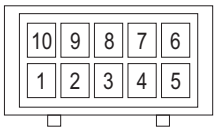
Description of the CN3 function connector:



The CN3 function connector is located on the top left-hand side of the back of the sound module.
Connect the cable supplied with the module to perform the following functions:

- ⇨"AP" function: Activates the "CV1" and "CV2" lock release relay, timed activation time of 3 or 15 seconds through the SW1-2 DIP switch (see p. 69). For more information, see the manual supplied with the sound module.
- ⇨"ICO" function: Busy channel indication is carried out with the "ICO" and "+12" terminals.
- ⇨"Handicap" function: FDI voice module (France). The connector includes all wires for connection. For more information, see the manual supplied with the sound module.

CN3 top view

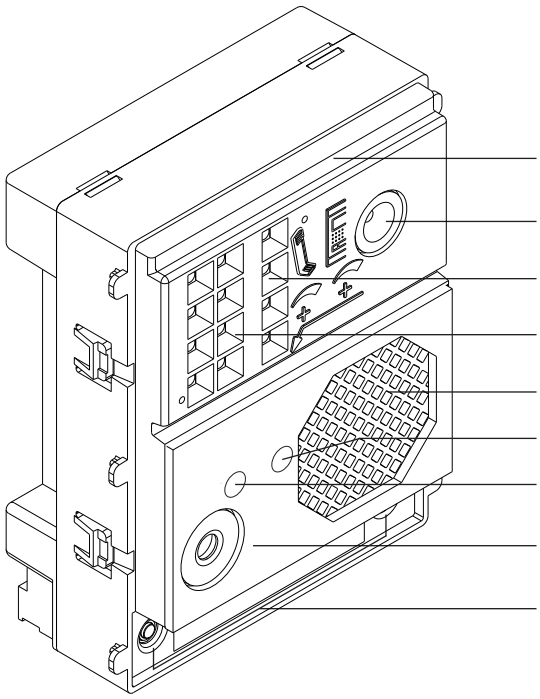


Description of the CN3 connector

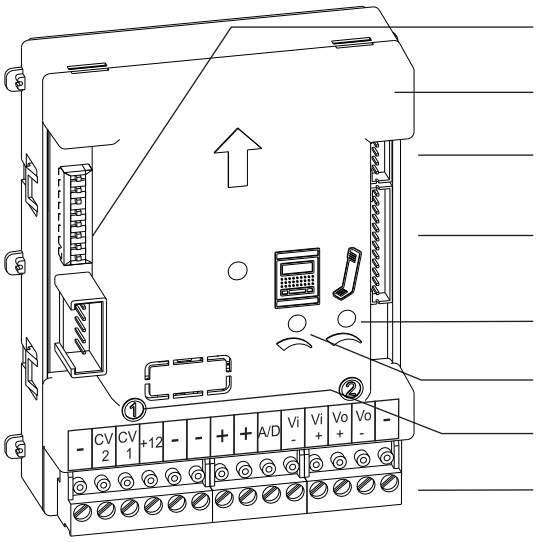
1	Grey	(-)	Negative.
2	Brown	(+12)	12Vdc for continuous lock release activation.
3	White	(ICO)	Busy channel indicator.
4	Yellow	(AP)	External button to activate door release.
5	Pink	(+H)	To activate additional lighting.
6	Blue	(OP)	Handicap.
7	Orange	(SC)	Handicap.
8	Green	(ALM)	Handicap.
9	Red	(PDB)	Handicap.
10	Black	(-)	Negative.

DESCRIPTION OF THE SOUND MODULES

Description of the EL632/R5 - EL642/R5 sound module:



Front.
Colour camera (Only the EL632/R5 module)
LEDs (visual indications for people with impaired hearing)
LEDs.
Speaker.
Door panel speaker volume control potentiometer.
Telephone speaker volume control potentiometer.
Microphone.
Sound module buttons (x2).



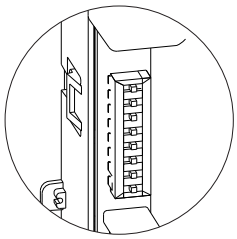
SW1 DIP switch.
Back.
CN7 NEXA Bus connector.
CN2 button connector.
Telephone speaker volume control potentiometer.
Door panel speaker volume control potentiometer.
Button number.
Connection block.

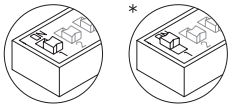
–	: Negative
CV1	: Contact “C” for electric lock. Relay 3.
CV2	: Contact “N.O.” for electric lock. Relay 3.
+, –	: Positive, negative.
A/D	: Audio and digital communication.
Vi+,Vi-	: Video signal input.
Vo+,Vo-	: Video signal output.
–	: Negative

DESCRIPTION OF THE SOUND MODULES

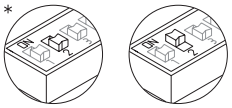
Description of the SW1 DIP switch:

The SW1 DIP switch is located on the top right-hand side of the back of the module.
To set the DIP switches, use the tool supplied with the sound module.

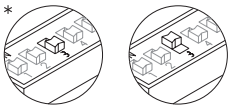




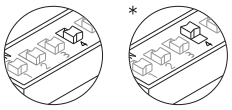
* This enables the auto switch-on (audio and/or video communication without having been called) of the door panel if it has this switch set to the ON position. In buildings with many door panels, activate only one of them. In systems with a general entrance panel this function can be activated on one door panel of each building.



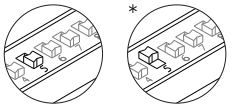
* Set to ON for monitor or telephone programming.
Once the programming has finished, return the switch to the OFF position.
The programming method is described on p. 101 for monitors and p. 108 for telephones.



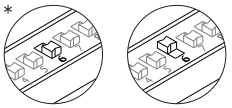
* Set to OFF if it is a master door panel. Each system must have only one master door panel; the others must be slaves (ON). In systems with a general entrance door panel, set one door panel from each building as the master.



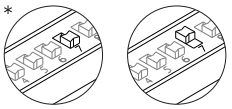
* Set to ON if the door panel features a television camera. Set to OFF if the door panel has no television camera.



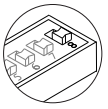
* Set to ON <u>*only on one door panel in each building or channel*</u>. If the building has more access doors, set the others to OFF.



* Set to ON to divert calls from the door panel to the guard unit when activated. Set to OFF if this function is not necessary (*CD-PLUS/R5* digital converter and door panel capture on the guard unit required).



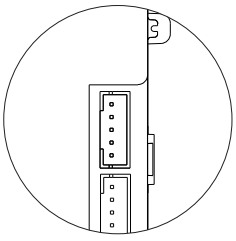
* Set to ON for *HIGH* door panel tone volume or OFF for NORMAL volume.



Not used.

*Factory setting

Description of the CN7 Nexa Bus link connector:

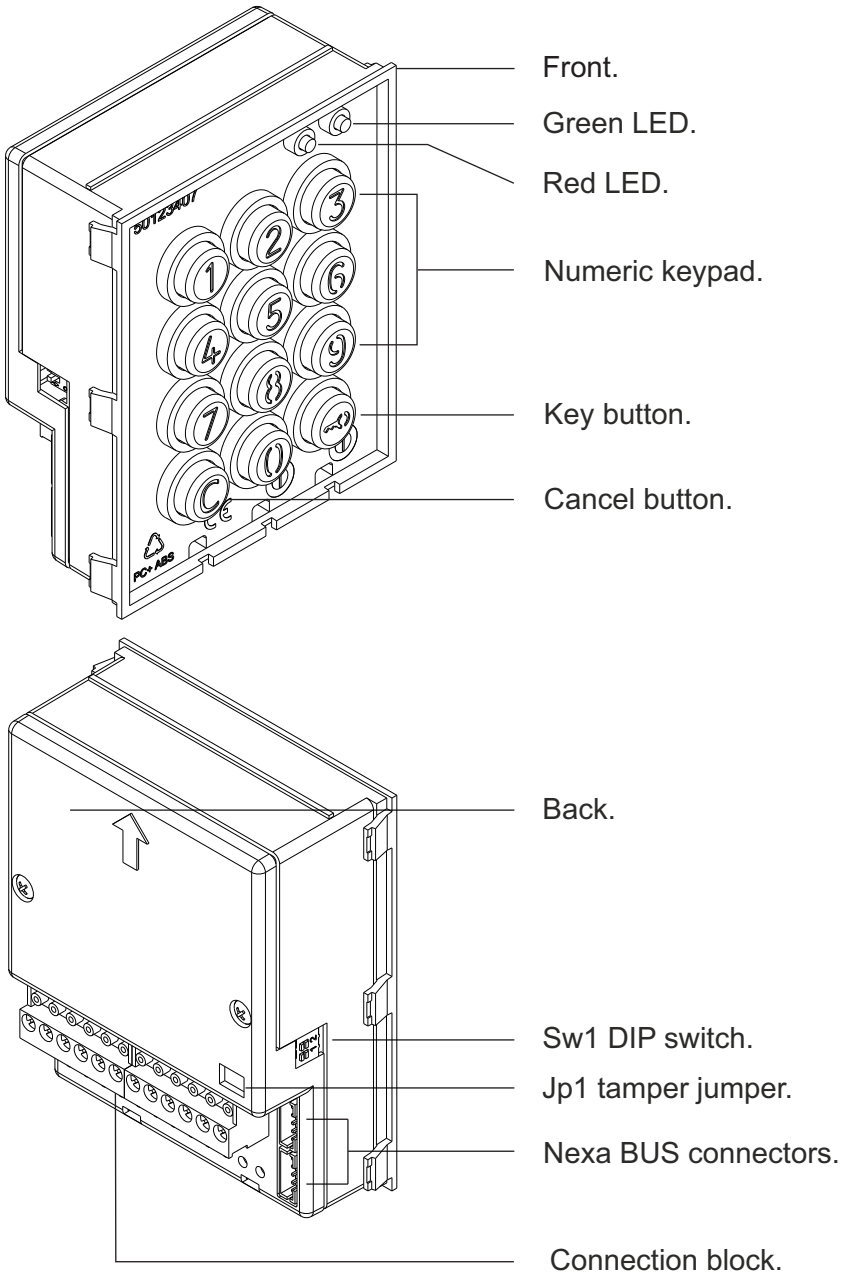


The CN7 Nexa Bus link connector is located on the top right-hand side of the back of the sound module.
Connect the cable supplied with the module to other modules using the NEXA Bus:

- ⇨N3403/AL: Connect the module to provide the system with a display viewer.
- ⇨N3301/AL: Connect the module to provide the system with access control and a coded door panel.
- ⇨N3301A/AL: Connect the module to provide the system with an alphabetic panel.
- ⇨EL3002: Connect to the bus to power information panels (maximum 6 units).
- ⇨CD-NEXA/BT: Connect the module to provide the system with a wireless configuration interface.

DESCRIPTION OF THE CODED MODULE

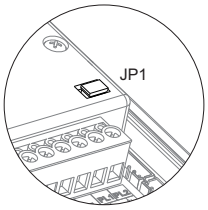
Description of the N3301/AL - NX3301 coded module:



~ ~	: Power input (Do not power when connecting the Nexa Bus link hose. See p. 68 for connections)
NA1	: Normally open output relay 1.
C1	: Common relay 1.
NC1	: Normally closed output relay 1.
NA2	: Normally open output relay 2.
C2	: Common relay 2.
NC2	: Normally closed output relay 2.
P	: Panic output.
-	: Negative.
PL1	: Input for exterior button relay 1.
PL2	: Input for exterior button relay 2.

DESCRIPTION OF THE CODED MODULE

Description of the JP1 jumper:

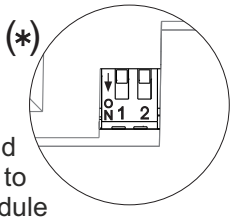


The JP1 jumper, located on the right-hand side of the connection block, activates the tamper alarm.

Normal operation, alarm not activated.

Tamper alarm mode activated. In this mode, the module's keypad operation and external buttons are disabled. The LEDs and the keypad's backlight are turned off and a constant audible alarm and the “P” panic output of the open collector (3 seconds every minute) are activated. Alarm mode ends when the JP1 jumper is replaced.

Description of the SW1 DIP switch:



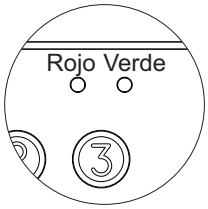
The SW1 DIP switch is located on the left-hand side of the module.

Use to reset the special installer PIN to the factory code.
Proceed as follows: Set DIP switch 1 to ON. The module will emit 2 beeps and the green LED on the front will light up for 1 second. Then set the DIP switch to OFF (the code is now the one assigned at the factory). If the access control module was locked during this process, the special unlock PIN will also be reset to the factory code.

Set DIP switch 2 to ON to configure the door panel as a coded door panel.

(*) Factory setting.

Description of the self-testing LEDs:



The self-testing LEDs are located on the top right-hand side of the front of the module.

	Operation	Red LED	Green LED
Standby	Normal	On	Off
	Lock	Rapid blink	Off
	Correct code	On	On (1 second)
	Wrong code	4 rapid blinks	Off
Programming mode	Normal	Slow blink	Off
	Confirm field	Slow blink	2 rapid blinks
	Confirm sequence	Slow blink	4 rapid blinks
	Wrong code	4 rapid blinks	Off

DESCRIPTION OF THE CODED MODULE

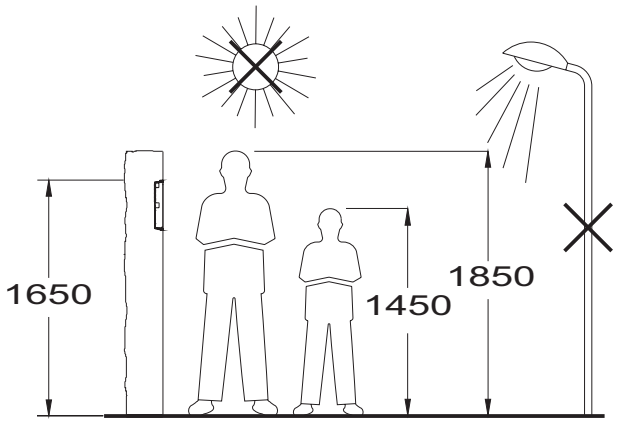
Description of the beeps:

The access control module features an internal beeper for reproducing operation beeps.

Operation	Duration
Programming	5 rapid beeps
Confirm field	2 rapid beeps
Confirm sequence	4 rapid beeps
Cancel	1 long beep (0.5 sec)
Error	1 long beep (1 sec)
Key press	1 rapid beep
Alarm activated	1 constant beep

INSTALLATION OF THE DOOR PANEL

Location of the embedding box:



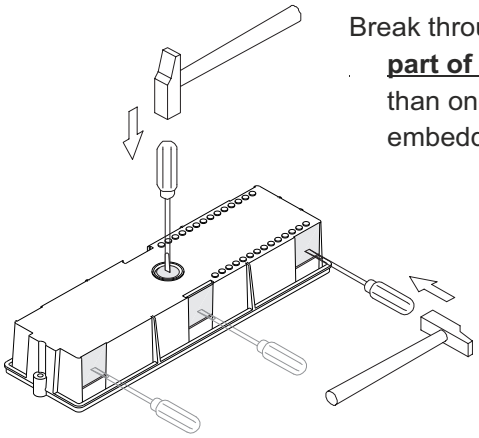
Make a hole in the wall to position the top of the door panel at a height of 1.65m.
Hole dimensions depend on the type of door panel.

Modules	1	2	3
Model	NCEV90CS	NCEV90C	CEV90
W	99	99	99 mm.
H	135,5	238	328 mm.
D	40	56	56 mm.

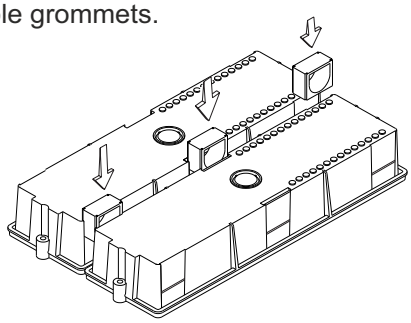
The door panel has been designed to be used under most environmental conditions. It is however advisable to take extra precautions to prolong its service life (shields, covered areas, etc.). To obtain optimum video door entry system image quality, avoid direct contact from light sources (sunshine, street lights, etc.)

INSTALLATION OF THE DOOR PANEL

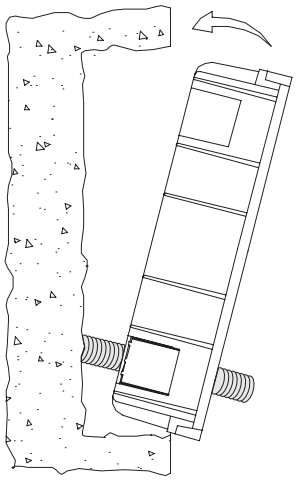
Preparing the cable entry:



Break through the hole to allow **entry of cables through the bottom part of the embedding box.** In the case of door panels with more than one embedding box, break through the side holes and join the embedding boxes using cable grommets.



Fitting the embedding box:

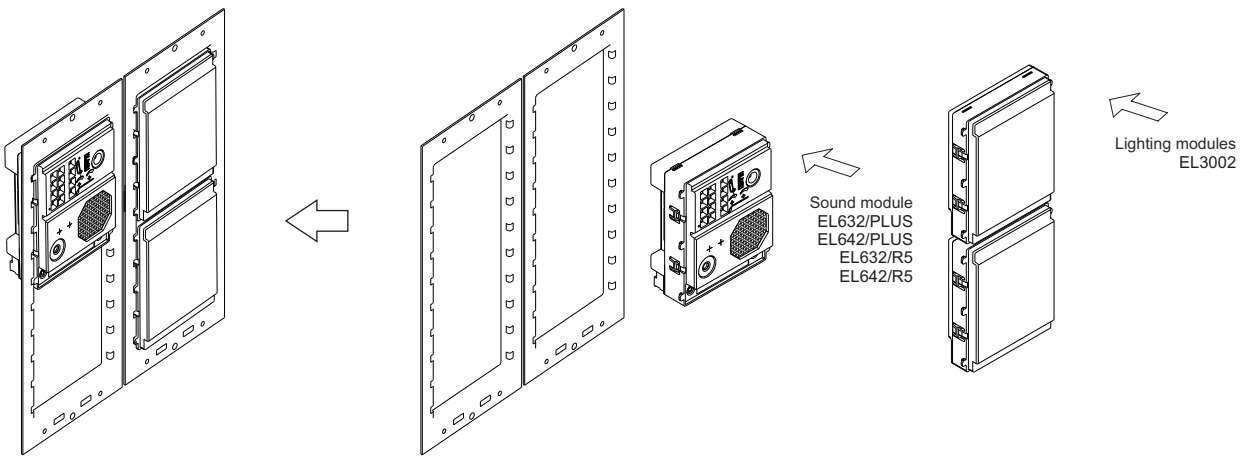


Pass the cable through the hole made in the embedding box. Embed the box and ensure that it is level and flush. Once the embedding box is positioned, remove the protective stickers from the door panel's fixing holes.

Mounting the electronic modules:

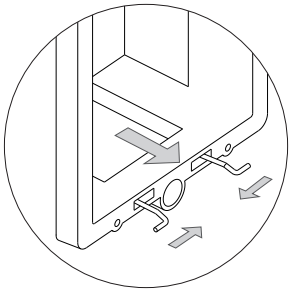
Insert the sound module into the top of the frame module.
Line up the clips on the sound module with the respective housings on the frame module and then press gently until correctly positioned.

If there is a lighting module, repeat the above process, positioning it below the sound module or the other frame if any, as shown in the drawing.

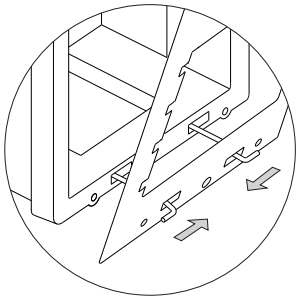


INSTALLATION OF THE DOOR PANEL

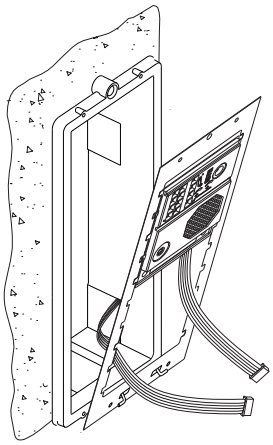
Fastening the frame to the embedding box:



Insert the spring hinge which attaches to the product in the embedding box, as shown in the drawing.

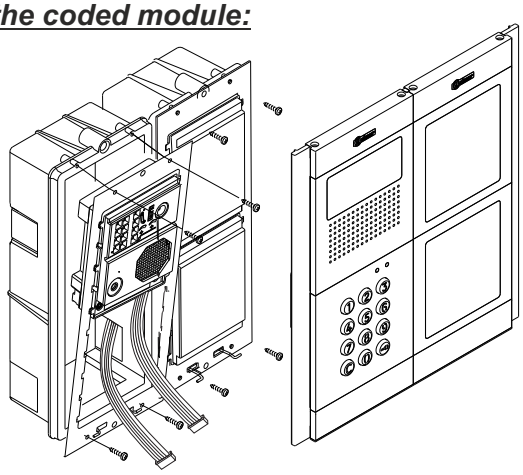


To fasten the frame to the embedding box, insert the spring hinge into the housings provided for this purpose in the frame, as shown in the drawing.

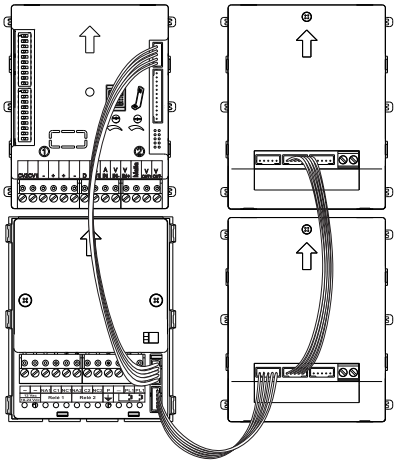


The frame can now be tilted horizontally to enable connection and setting of the sound module, information modules and coded module. Connect the Nexa Bus link hose to the sound module and information modules as shown in the following section.

Connection of the Nexa Bus between the sound module and the coded module:



Once the wiring and configuration work is done, fix the frame to the embedding box using the screws supplied. Then place the coded module into the frame to make the Nexa Bus link connection between the sound module, lighting modules and coded module as indicated in the following point.

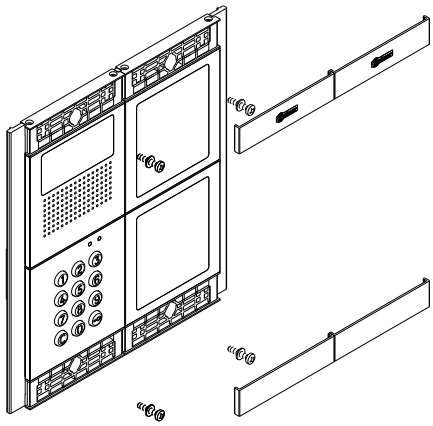


Insert one end of the Nexa Bus link hose supplied with the N3301/AL product into the sound module connector and the other end into either of the two connectors situated on the bottom right of the N3301/AL coded module. The EL3002 door panel lighting modules can be connected in the same way (max. 6 units).

NOTE: Only the EL632/EL642 Plus or EL632/EL642 R5 sound module should be connected to the power supply unit. The N3301/AL coded module and the EL3002 lighting module are powered by the Nexa Bus link connector. See p. 109 for the wiring diagrams.

INSTALLATION OF THE DOOR PANEL

Closing the door panel:



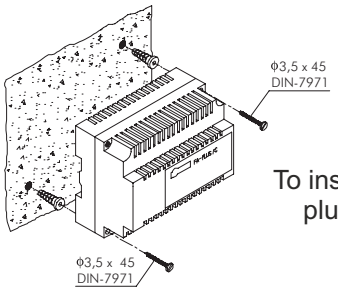
Fix the door panel to the embedding box using the screws supplied.

To complete the fitting of the panel, attach the clip-on covers by positioning one end and then applying slight pressure to the other end until they clip into place.

INSTALLATION OF THE POWER SUPPLY UNIT

FA-PLUS and FA-PLUS/C power supply installation drawing:

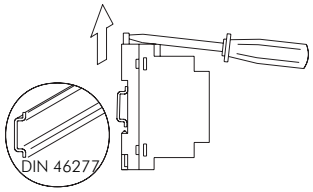
Install the power supply unit in a dry and protected place free from the risk of water leaks or sprays.
To prevent electric shock, do not remove the protective cover of the primary or handle the wiring.
The fitting and handling of this device must be carried out by authorised personnel in the absence of electrical current.
To avoid damage, the power supply unit must be firmly secured in place.



Please note that current regulations stipulate that the power supply must be protected by a circuit breaker. Connect the FA-Plus power supply unit to the earth connection.

To install the power supply unit directly on the wall, drill two holes of Ø6mm and insert the wall plugs. Fix the power supply unit using the specified screws.

The power supply unit can be installed on a DIN 46277 rail by applying slight pressure.
To remove the power supply unit from the DIN rail, use a flat screwdriver to lever it off, as shown in the drawing.
The FA-Plus/C model requires 6 elements on the DIN rail and the FA-Plus model 10.



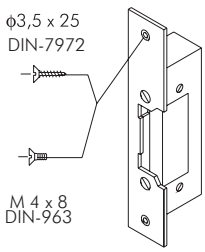
IIMPORTANT: the maximum number of units that can be connected to FA-Plus/C and FA-Plus power supply unit is 10 and 50, respectively.
To obtain a higher number of units, link power supplies as shown on page XX.

Replace the protective cover once the input terminals have been wired.

INSTALLATION OF THE LOCK RELEASE

Lock release

If the lock release is to be fitted to a metal door, use a Ø3.5mm drill bit and thread the hole made. For wooden doors, use a Ø3mm drill bit.



IMPORTANT: the access control module is supplied with two varistors. If connecting an AC lock release to one of the outputs, fit the varistor supplied directly to the lock release terminals to ensure that the module functions correctly.

DOOR PANEL OPERATION

Description of door panel operation:

Door panel in standby mode.

With the door panel in standby mode, the following operations can be performed:

Activation of external push buttons: Allows activation of relay outputs 1 and 2 by means of external push buttons PL1 and PL2 respectively.
The push button can be configured by means of programming to activate and deactivate the output by pressing the button or to activate the output by pressing the button and deactivate after a period of between 1 and 99 seconds.

With the keypad:

Special default codes: (bear in mind the number of digits in the code).

Administrator pin: 271800. 2718 if the number of digits configured = 4.
CP1 push button code: 111100. 1111 if the number of digits configured = 4.
CP2 push button code: 222200. 2222 if the number of digits configured = 4.
Unlocking code: 333300. 3333 if the number of digits configured = 4.

Opening through the user pin: Allows activation of the outputs (relay 1/relay 2/relay 3/panic) associated with the existing user. Press the key button, followed by the user pin.

“key button” + “user pin”.

Administrator pin: Allows entry into programming mode. Also enables the panel to be unlocked if it has been previously locked. Press the key button three times and then enter the administrator pin.

“key button” + “key button” + “key button” + “administrator pin”.

CP1 push button code: Enables or disables external button PL1 and/or PL2 associated with the CP1 code. Press the key button three times and then enter the CP1 code.

“key button” + “key button” + “key button” + “CP1 code”.

CP2 button code: Enables or disables external button PL1 and/or PL2 associated with the CP2 code. Press the key button three times and then enter the CP2 code.

“key button” + “key button” + “key button” + “CP2 code”.

Unlocking code: Allows the module to be unlocked only if it has previously been locked. Press the key button three times and then enter the unlocking code.

“key button” + “key button” + “key button” + “unlocking code”.

Change user pin: Allows users to change their own codes. Does not modify the outputs (relay 1/relay 2/relay 3/panic) associated with the user. Press the key button twice, followed by the current user pin, then press the key button again, followed by the new user pin, and then press the key button a final time. The new user pin must have the same number of digits as the current user pin and cannot be the same as an existing user pin.

“key button” + “key button” + “current user pin” + “key button” + “new user pin” + “key button”.

Call to monitors and telephones: This enables calls to be made to monitors and/or telephones connected to the same installation. Press the monitor or telephone code followed by the key button.

“monitor/telephone code” + “key button.

PROGRAMMING THE DOOR PANEL

Programming mode entry and exit:

To enter programming mode, press the key button three times and then enter secret administrator pin “271800”.(*)

Key button + key button + key button + administrator pin.

To exit programming mode, press the C button (cancel) once if it is in a programming field or twice if not.
If, after 2 minutes, no key has been pressed, it exits programming mode.
Programming mode entry and exit is confirmed by the emitting of 5 rapid beeps.

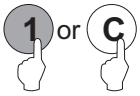
(*)**Important:**
Bear in mind the number of digits in the configured code (factory setting 2718 = 4).

Programming mode structure and sequence:

Programming of the keypad functions is performed by entering the field or function code, followed by the field value(s).
Once in programming mode, the programming sequence is as follows:

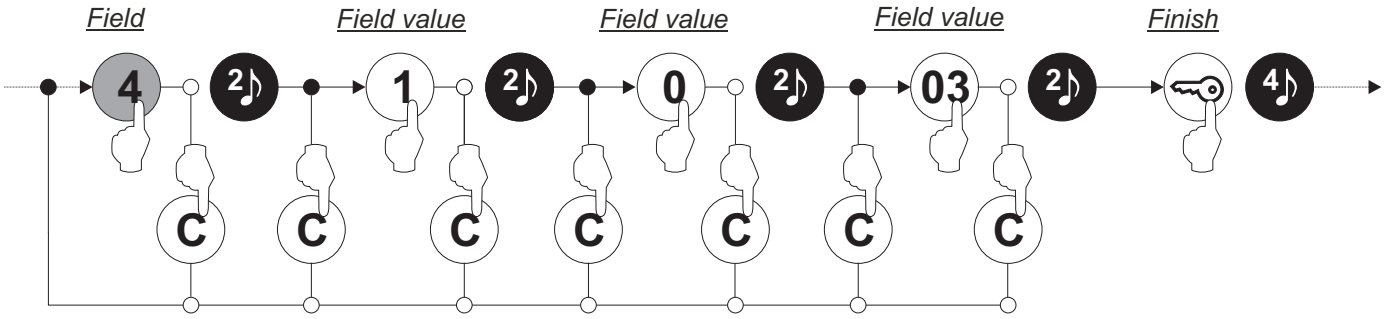
Enter the field code: this code is always 1 digit. The keypad will emit 2 rapid confirmation beeps.

Enter the value of the field being programmed. Once the value has been entered, the keypad will emit 2 rapid confirmation beeps. To finish programming the field, press the key button and the keypad will emit 4 rapid confirmation beeps.
Note: If, after 10 seconds, no key has been pressed, a long error beep will be emitted and the field code will need to be re-entered.



Enter the code of the following field or press the C button (cancel) to exit programming mode.

If an incorrect value has been entered, press the C button (cancel). The keypad will emit a long confirmation beep. If the field code was being entered, even after the confirmation beep, exit this menu and re-enter the field code.



PROGRAMMING THE DOOR PANEL

Programming fields:

The module comes programmed with factory settings except for the activation codes (user), which are left empty for security reasons. For system operation tailored to the needs of the user, check all of the values in all of the fields. The fields do not need to be programmed in numerical order.

Enter programming mode:

Step 1: Press the key button three times and then enter the administrator pin.

Key button + key button + key button + administrator pin.

(1) Bear in mind the number of digits in the configured code (factory setting 2718 = 4).

Step 2: Then press the field number:

Field "0": Configuring the number of digits in the activation codes (user) and special codes.

Steps: Field + number of digits + key button.

(Step 1)  Press "0" to select field "0".

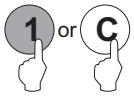
(Step 2)  Set the number of digits for the "user" activation codes (relay 1/relay 2/panic) and special codes. Enter 4, 5 or 6 digits.

The factory setting has 4 digits.

To change this value, add or remove 1 or 2 zeros from the end of the existing codes, for example:

Administrator pin 2718 (factory setting 4 digits).
Administrator pin 27180 (5 digits).
Administrator pin 271800 (6 digits).

(Step 3)  Press the key button to finish programming the field.

(Step 4)  Then press the number of the next field to configure or press the C button (cancel) to exit programming mode.

PROGRAMMING THE DOOR PANEL

Programming fields:

Continued from previous page

Field "1": Programming a new activation code (user).

Allows new user pins (from "0000" to "9999") to be created and outputs to be assigned for activation with the created codes.

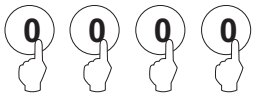
Note: Depending on the number of digits configured in field "0" (factory setting = 4).

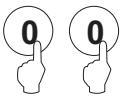
Number of digits = 4, user pin from "0000" to "9999".
Number of digits = 5, user pin from "00000" to "99999".
Number of digits = 6, user pin from "000000" to "999999".

Steps: Field + memory position + user pin + outputs + bus code + key button.

(Step 1)  Press "1" to select field "1".

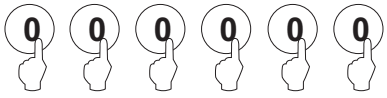
(Step 2)  Set the memory position number for the location of the new user pin.
Possible memory positions: "001" to "999".

(Step 3)  Set the user pin. Possible user pins: "000000" to "999999" with "6" digits. Factory setting of "4" digits: "0000" to "9999".
(see example of number of digits on page 82, step 2).
Duplicate user pins are not allowed.

(Step 4)  Set the output(s) that the user pin entered in step 3 will activate. Enter one of the following options or press the key button:(*)

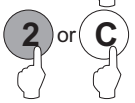
"00" : relay 1 + relay 2 + panic output (terminal "P" on the terminal block).
"01" : relay 1.
"02" : relay 2.
"03" : relay 1 + relay 2.
"04" : panic output (terminal "P" on the terminal block).
"05" : relay 1 + panic output (terminal "P" on the terminal block).
"06" : relay 2 + panic output (terminal "P" on the terminal block).
"07" : **relay 3 (contacts CV1 and CV2 on the sound module).**
"08" : relay 3 + relay 1.
"09" : relay 3 + relay 2.
"10" : relay 3 + relay 1 + relay 2.
"11" : relay 3 + panic output (terminal "P" on the terminal block).
"12" : relay 3 + relay 1 + panic output (terminal "P" on the terminal block).
"13" : relay 3 + relay 2 + panic output (terminal "P" on the terminal block).
"14" : relay 3 + relay 1 + relay 2 + panic output (terminal "P" on the terminal block).

(*)Note: If the key button is pressed, option "10" is set in this value field: relay 3 + relay 1 + relay 2, in the value field "bus code" as "000000" and the programming of the field finishes. **With coded module V03 or later.**

(Step 5)  Enter the apartment code associated with the user. Possible values are between "000000" and "255999" or press the key button.(*)

(*)Note: If the key button is pressed, "000000" is set in this value field and the programming of the field finishes.

(Step 6)  Press the key button to finish programming the field.
Note: It is not necessary to press the key button if it has already been pressed in step 4 or 5.

(Step 7)  Then press the number of the next field to configure or press the C button (cancel) to exit programming mode.

PROGRAMMING THE DOOR PANEL

Programming fields:

Continued from previous page

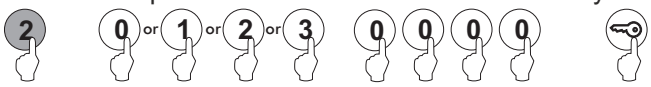
Field "2": Changing special codes.

Allows the current code of the special codes to be changed (see p. 80). The new special code must have the same number of digits as the current code.
Duplicate special codes are not allowed.

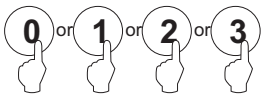
Note: Depending on the number of digits configured in field "0" (factory setting = 4).

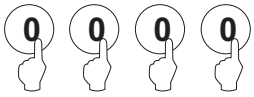
Number of digits = 4, special codes from "0000" to "9999".
Number of digits = 5, special codes from "00000" to "99999".
Number of digits = 6, special codes from "000000" to "999999".

Steps: Field + special code + code + key button.

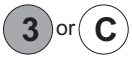


(Step 1)  Press "2" to select field "2".

(Step 2)  Set the special code to select for subsequent code changes. Enter one of the following options:
"0" : Select the administrator pin.
"1" : Select the CP1 button code.
"2" : Select the CP2 button code.
"3" : Select the unlock button code.

(Step 3)  Set a new code number. Possible special codes: "000000" to "999999" with "6" digits. Factory setting of "4" digits: "0000" to "9999" (see example of number of digits on p. 82, step 2).
Duplicate special codes are not allowed.

(Step 4)  Press the key button to finish programming the field.

(Step 5)  Then press the number of the next field to configure or press the C button (cancel) to exit programming mode.

PROGRAMMING THE DOOR PANEL

Programming fields:

Continued from previous page

Field "3": Deleting user pins.

Allows the deletion of existing user pins.

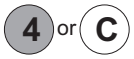
Note: Possible memory positions: "001" to "999".

Steps: Field + memory position +key button +key button.

(Step 1)  Press "3" to select field "3".

(Step 2)  Set the existing memory position number to select for deletion.
Note: Possible memory positions: "001" to "999".
Enter an existing memory position to be deleted.
If the value "000" is entered, all memory positions will be deleted.

(Step 3)  Press the key button twice to confirm the deletion and to finish programming the field.

(Step 4)  Then press the number of the next field to configure or press the C button (cancel) to exit programming mode.

PROGRAMMING THE DOOR PANEL

Programming fields:

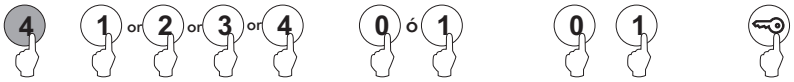
Continued from previous page

Field "4": Setting the outputs.

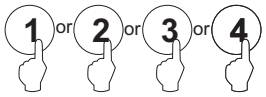
Enables the setting of the relay 1 + relay 2 outputs + panic output (terminal "P" on the terminal block).
The setting of the relay 1, relay 2 and panic outputs is common to all valid user pins.

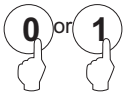
The relay 1, relay 2 and panic outputs can be activated in impulse mode (01 to 99 seconds) or stable mode.

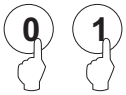
Steps: Field + output number + output mode + activation time + key button.



(Step 1)  Press "4" to select field "4".

(Step 2)  Set the output to be selected for configuration.
Enter one of the following options:
"1" : Select the relay 1 output.
"2" : Select the relay 2 output.
"3" : Select the relay 3 output.
"4" : Select the panic output.

(Step 3)  Set the activation mode of the output selected in step 2. Enter one of the following options:
"0" : Impulse mode.
"1" : Stable mode.
Note: Relay 3 can only be set as "0": impulse, on the contrary, an error tone will sound.

(Step 4)  Set the activation time of the output selected in step 2. Only takes effect if the output is set as impulse in step 3.
Enter a value from "01" to "99" seconds or press the key button.(*)
(*)Note: If the key button is pressed, this field is set with a value of "03" seconds and the programming of the field finishes.

(Step 5)  Press the key button to finish programming the field.
Note: It is not necessary to press the key button if it has already been pressed in step 4.

(Step 6)  Then press the number of the next field to configure or press the C button (cancel) to exit programming mode.

PROGRAMMING THE DOOR PANEL

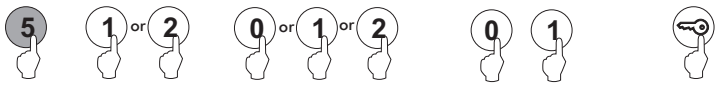
Programming fields:

Continued from previous page

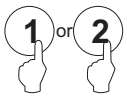
Field "5": Configuring the external push buttons.

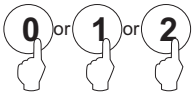
Allows external push buttons PL1 and PL2 to be configured with the following modes:
-Allows the button to: Always be enabled or, through button codes CP1 or CP2, enable/disable the functioning of the button.
-Allows an activation time for external push buttons PL1 and PL2 of between "01" and "99" seconds for the relay 1 and relay 2 outputs respectively. Only takes effect if the relay output of the external push button has been configured in impulse mode (see p. 86, "step 3").
Note: External push buttons PL1 and PL2 activate relays 1 and 2 respectively.

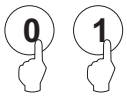
Steps: Field + push button + button mode + activation time + key button.



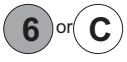
(Step 1)  Press "5" to select field "5".

(Step 2)  Set the external push button to select for configuration. Enter one of the following options:
"1" : Select external push button PL1.
"2" : Select external push button PL2.

(Step 3)  Set the push button mode selected in step 2.
Enter one of the following options:
"0" : Always enabled.
"1" : Enable/disable function with the CP1 push button code.
"2" : Enable/disable function with the CP2 push button code.

(Step 4)  Set the activation time for the external push button selected in step 2. Only takes effect if the relay output has been configured in impulse mode (see p. 86, "step 3").
Enter a value from "01" to "99" seconds or press the key button.(*)
(*)Note: If the key button is pressed, this field is set with a value of "03" seconds and the programming of the field finishes.

(Step 5)  Press the key button to finish programming the field.
Note: It is not necessary to press the key button if it has already been pressed in step 4.

(Step 6)  Then press the number of the next field to configure or press the C button (cancel) to exit programming mode.

PROGRAMMING THE DOOR PANEL

Programming fields:

Continued from previous page

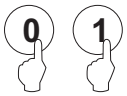
Field "6": Configuring locking mode.

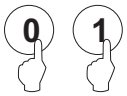
Allows the access control module's locking mode to be configured.

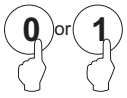
Steps: Field + locking mode + time between attempts + lock time + panic output + key button.

(Step 1)  Press "6" to select field "6".

(Step 2)  Set the access control module's locking mode.
Enter one of the following options:
"0" : Never locks.
"3" to "9": Locks after "3" to "9" failed attempts to enter the user pin.

(Step 3)  Set the minimum amount of time that must elapse between failed attempts before the access control module is locked. Only takes effect if option "0" has not been selected in step 2.
The times to select are "01" to "15" minutes or press the key button.(*)
(*)Note: If the key button is pressed, this field value is set as "03" minutes, the "locking time" field value is "03" minutes, the "panic output" value field is "0" not activated and the programming of the field finishes.

(Step 4)  Set the amount of time that the access control module remains in locking mode after the last wrong code has been entered. Only takes effect if option "0" has not been selected in step 2.
The times to select are "03" to "15" minutes or press the key button.(*)
(*)Note: If the key button is pressed, the field value is set as "03" minutes, the "panic output" value field is "0" not activated and the programming of the field finishes.

(Step 5)  Set the activation of the panic output (terminal "P" of the terminal block) during locking mode. Only takes effect if option "0" has not been selected in step 2.
Enter one of the following options or press the key button:(*)
"0" : Output not activated.
"1" : Output activated (for 3 seconds in intervals of 1 minute).
(*)Note: If the key button is pressed, the field value is set as "0" and the programming of the field finishes.

(Step 6)  Press the key button to finish programming the field.
Note: It is not necessary to press the key button if it has already been pressed in steps 3, 4 or 5.

(Step 7)  Then press the number of the next field to configure or press the C button (cancel) to exit programming mode.

PROGRAMMING THE DOOR PANEL

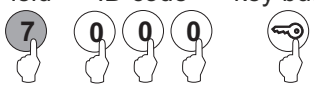
Programming fields:

Continued from previous page

Field "7": Configure the identification ID of the access control module.

Allows an identification code (ID) to be configured for the access control module.
Note: Possible identification codes (ID): "000" to "999".

Steps: Field + ID code + key button.



(Step 1) Press "7" to select field "7".

(Step 2) Set an identification code (ID) for the access control module.
Note: Possible identification codes (ID): "000" to "999".

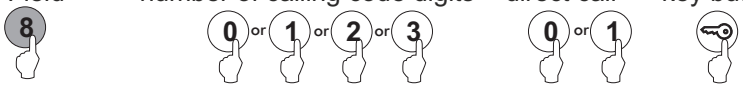
(Step 3) Press the key button to finish programming the field.

(Step 4) 8 or C Then press the number of the next field to configure or press the C button (cancel) to exit programming mode.

Field "8": Configure field depth.

Allows the number of digits in the calling code to be configured.

Steps: Field + number of calling code digits + direct call + key button.



(Step 1) Press "8" to select field "8".

(Step 2) 0 or 1 or 2 or 3 Set the number of digits in the calling code.
Enter one of the following options:

Field depth	Column code	Monitor code	Call code
"3"	"000"	"125"	"000125"
"2"	"001"	"025"	"001025"
"1"	"012"	"005"	"012005"
(*) "0"	"125"	"106"	"125106"

The above example shows the call code obtained if "125" is entered into the numeric keypad.

(Step 3) 0 or 1 Set the direct call: by entering a call code on the keypad if necessary or do not press the key button to confirm.
Enter one of the following options:
"0" : Disable.
"1" : Enable.

(Step 4) Press the key button to finish programming the field.

(Step 5) 9 or C Then press the number of the next field to configure or press the C button (cancel) to exit programming mode.

(*) If the number of digits of 0 is selected, the call code will correspond to that entered, for example, 125 followed by the code 106 will result in the call code 125106. This code corresponds to button 1 of the sound module.

Continued overleaf

PROGRAMMING THE DOOR PANEL

Programming fields:

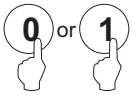
Continued from previous page

Field "9": Configuring the keypad beep.

Allows a beep to be heard when pressing the access control module's keypad buttons.

Steps: Field + keypad beep + key button.

(Step 1)  Press "9" to select field "9".

(Step 2)  Allows a beep to be heard when pressing the access control module's keypad buttons.
Enter one of the following options:
"0" : No keypad beep.
"1" : Keypad beep.

(Step 3)  Press the key button to finish programming the field.

(Step 4)  Then press the C button (cancel) to exit programming mode.

PROGRAMMING THE DOOR PANEL

Factory setting:

- **Special codes:** Bear in mind the number of digits in the code (see p. 80).

Administrator pin: 271800. 2718 if the number of digits configured = 4.
CP1 push button code: 111100. 1111 if the number of digits configured = 4.
CP2 push button code: 222200. 2222 if the number of digits configured = 4.
Unlocking code: 333300. 3333 if the number of digits configured = 4.

- **Number of digits in user and special codes:** Programming field “0” (p. 82).

Step 2: “4” – 4 digit code.

- **Setting relay 1:** Programming field “4” (p. 86).

Step 3: “0” Impulse.
Step 4: “03” Activation time (seconds).

- **Setting relay 2:** Programming field “4” (p. 86).

Step 3: “0” Impulse.
Step 4: “03” Activation time (seconds).

- **Setting relay 3:** Programming field “4” (p. 86).

Step 3: “0” Impulse.
Step 4: “03” Activation time (seconds).

Setting the panic output: Programming field “4” (p. 86).

Step 3: “0” Impulse.
Step 4: “10” Activation time (seconds).

- **Setting external push button PL1:** Programming field “5” (p. 87).

Step 3: “1” Enable/disable the functioning of the push button with button code CP1.
Step 4: “10” Activation time (seconds).

- **Setting external push button PL2:** Programming field “5” (p. 87).

Step 3: “2” Enable/disable the functioning of the push button with button code CP2.
Step 4: “05” Activation time (seconds).

- **Setting locking mode:** Programming field “6” (p. 88).

Step 2: “3” Maximum number of failed attempts to enter user pin..
Step 3: “03” Minimum time between failed attempts (minutes).
Step 4: “03” Duration of lock mode (minutes).
Step 5: “1” The panic output is activated during lock mode.

- **Setting identification ID:** Programming field “7” (p. 89).

Step 2: “000” Identification ID.

- **Setting field depth:** Programming field “8” (p. 89).

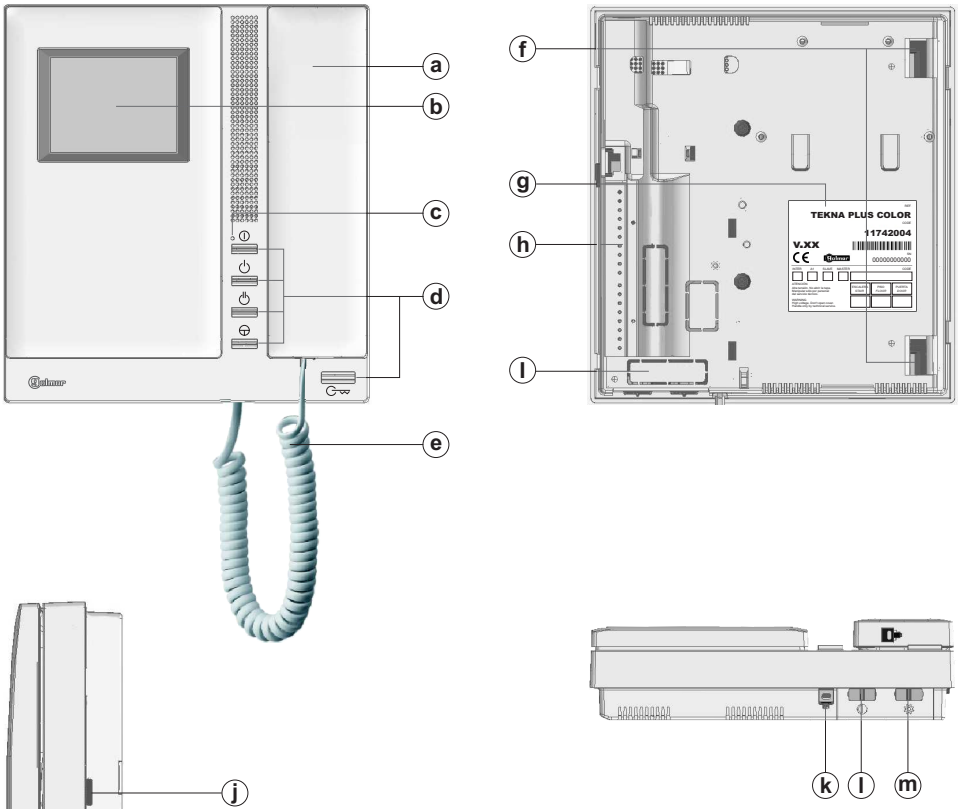
Step 2: “3” field depth.
Step 3: “0” Direct call disabled.

- **Setting the keypad beep:** Programming field “9” (see p. 90).

Step 2: “1” Beep when keypad buttons pressed (activated).

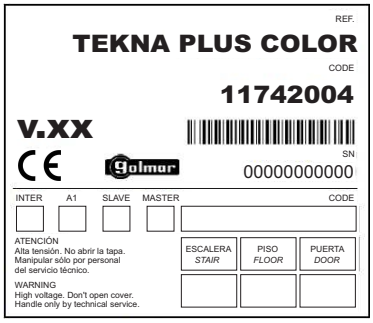
DESCRIPTION OF THE MONITOR

Description of the Tekna Plus monitor:



a. Handset.
b. Colour screen.
c. On-Off light indicator.
d. Function push buttons.
e. Telephone cord.
f . Connector fixings.
g. Identification label.
h. Connector connection points.
i . CN4 connector.
j . Three position volume control.
k. Cord connector.
l . Colour control.
m. Brightness control.

Description of the identification label:



To facilitate repair, replacement or the addition of monitors to the existing installation, fill in the label with the relevant information.

MASTER: main monitor.
SLAVE: secondary monitor.
INTER: secondary monitor with intercom function.
A1: monitor connected to an auxiliary device.
CODE: call button code.
STAIR: code of the channel (building).

DESCRIPTION OF THE MONITOR

Function push buttons:

Monitor On-Off button. After any monitor reset and during the next 45 seconds, all the monitor functions will be disabled, with the exception of call reception.

With the handset hung up, the second camera is activated (*). With the handset off the hook, an intercom call can be made and the second camera activated (*).

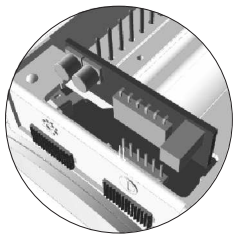
With the handset hung up, the auxiliary device is activated. With the handset off the hook, a call to the secondary guard unit can be made (*) or the auxiliary device activated.

With the handset hung up, the image from the master door panel can be viewed. With the handset off the hook, audio and video communication can be established with the door panel if it has its auto switch-on function activated. This only functions if no communication is in progress.

With the handset hung up, a panic call to the guard units configured to receive such calls is made. With the handset off the hook, a normal call can be made to the main guard unit. During call reception and communication processes, the door release can be activated.

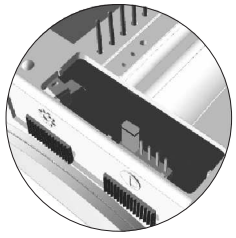
(*) The functions of activating the second camera and calling the secondary guard unit require internal modification of the monitor. If any of these functions are required, contact our technical support service.
Activation of the the second camera disables the intercom function and activation of calls to the secondary guard unit disables the auxiliary device function.

EI562 module for video door entry system installations with twisted pair cable:



Locate the CN4 connector positioned at the bottom of the monitor. Remove the connector jumper and insert the EL562 module.
NOTE: in this type of installation, the SW1-3 DIP switch on the sound module must be set to ON (see p. 69). Use the specific wiring diagram.

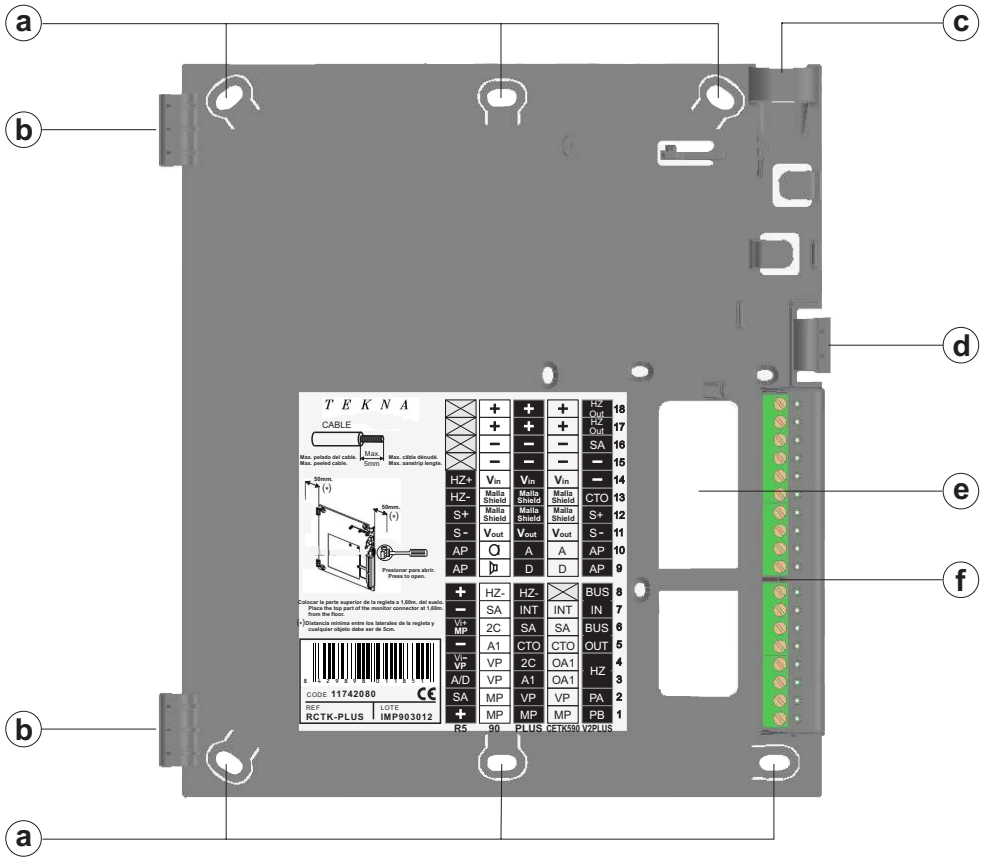
Handling of the end of line jumper:



The end of line jumper is located on the CN4 connector at the bottom of the monitor.
In case of twisted pair cable installations, the end of line jumper is placed in the EL562 module, also located in the CN4 connector of the monitor base (see above).
Do not remove the jumper on monitors where the video cable finish. Remove the jumper on monitors where the video cable continue.

DESCRIPTION OF THE WALL MOUNT CONNECTION BLOCK

Description of the RCTK-PLUS wall mount connection block:



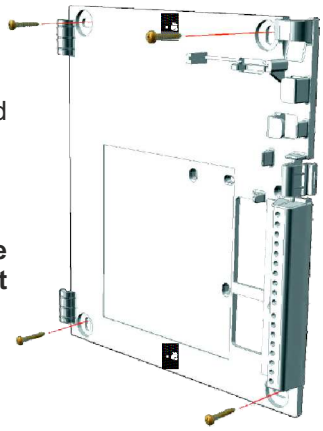
a. Holes for fixing to the wall (x6).
b. Monitor fixing clips (x2).
c. Vertical wiring input.
d. Fixing clip.
e. Wiring input hole.
f. Connection terminals:

+, –:	positive, negative.
Vin :	video signal coaxial input.
Shield:	coaxial cable shield.
Vout :	video signal coaxial output.
A :	audio communication.
D :	digital communication.
HZ- :	door bell push button input.
INT :	intercom.
SA :	auxiliary calling device output.
CTO :	video distributor activation output.
2C :	2nd camera activation output.
A1 :	auxiliary device activation output.
Vp, Mp :	balanced video signal (via twisted pair).

Terminals +, - and Shield are duplicated to facilitate the cascade connection of other monitors or telephones.
If the monitor is not positioned on the wall mount connection block, the cascade connected monitors or telephones will not receive power.

INSTALLATION OF THE MONITOR

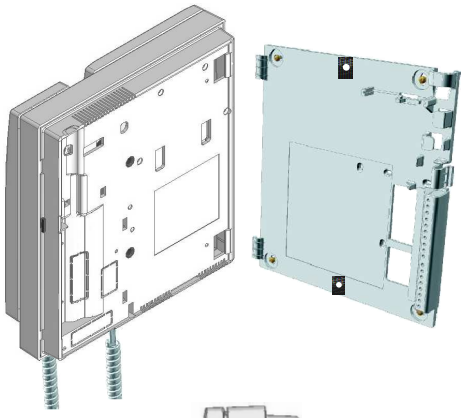
Fixing the monitor's wall mount connection block to the wall:

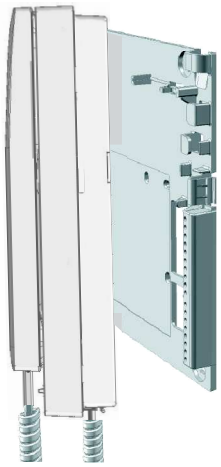


Avoid dusty or smoky environments or locations near sources of heat.
To install the monitor directly over the wall, drill two holes of Ø6mm and use the supplied screws.

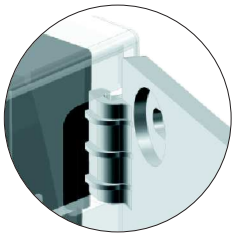
The top of the wall mount connector must be positioned at a height of 1.60m. The minimum distance between the sides of the wall mount connector and the closest object must be 5cm.

Positioning the monitor:





Place the monitor at right angles to the wall mount connector and align the holes on its base with the fixing clips of the connector, as shown in the drawing.

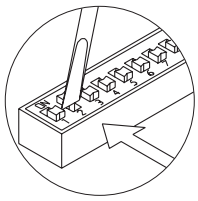


Close the monitor like a book, applying pressure to the right-hand side until the click of the connector's fixing clips can be heard.

To remove the monitor from the connector after installation, use a flat screwdriver to release the fixing clips. Once the monitor has been released, open it like a book and remove it from the connector, making sure that it does not fall.

PROGRAMMING THE MONITORS

Programming the Tekna Plus monitors:



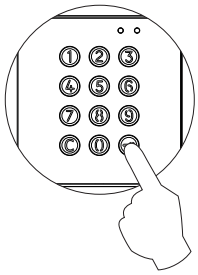
From sound module:

Locate the SW2 DIP switch situated on the top left-hand side of the back of the EL632/PLUS module and set number 2 to ON. The door panel will reproduce a sound to advise that the system has entered into programming mode.

In systems with more than one door panel, the programming process shall be done on the master door panel only.

From coded module:

Press the key button three times and then enter the administrator pin, the module will emit tones:



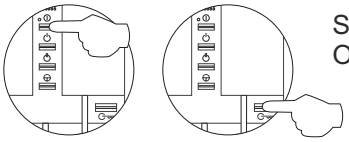
Key button + key button + key button + administrator pin.

(1)

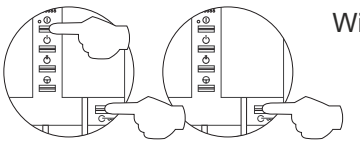
(1) Bear in mind the number of digits in the configured code (factory setting 2718 = 4).

Important: Programming from coded module:
- With EL632/PLUS sound module V03 or later.
- With N3301/AL or NX3301 V03 or later.

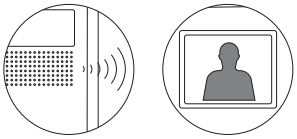
To programme the monitor from a general entrance door panel (if any), see p. 97.



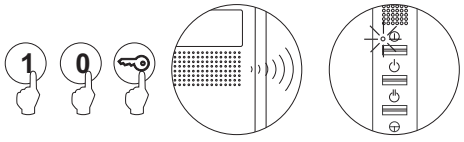
Switch off the monitor to be programmed.
Once the telephone is off, press the door release push button.



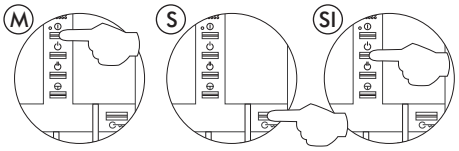
With the door release push button pressed, switch on the monitor.



To show that the system is ready for programming, the door panel will reproduce a sound and the picture will appears on the monitor. At this moment, the door release push button can be released. Lift the handset to establish audio communication with the door panel.



Enter the code of the monitor to be programmed, followed by the key button. At this moment the door panel will reproduce a sound and the monitor led will blink.



To programme the monitor as the *Master*, switch it off and on again.
To programme it as a *Slave*, press the door release button.
To programme it as a *Slave with intercom*, press the ⏻ button.

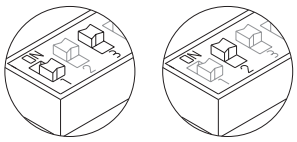
Each apartment must only have one master unit; if there are parallel units, whether monitors or telephones, they must be configured as slaves.

Make a call to check that the monitor has been successfully programmed. Programme the other telephones in the same way.

Once the programming has finished, set the sound module programming switch to OFF or press the (C) key if the programming is from coded module. If this is not done, the door panel will emit tones to indicate that the system is still in programming mode (programming from sound module).

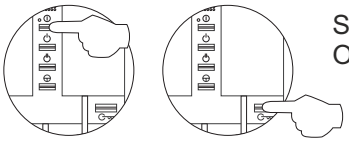
PROGRAMMING THE MONITORS - GENERAL ENTRANCE DOOR PANEL ONLY

Programming Tekna Plus monitors from a general entrance door panel (SW1-1 ON):

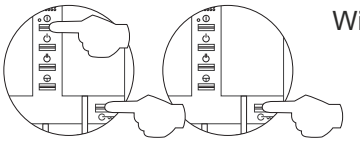


Locate the SW2 DIP switch on the general entrance door panel situated on the top left-hand side of the back of the sound module. With switch 1 OFF and switch 3 ON, set switch 2 to ON: the general entrance door panel will emit a tone indicating that it has entered programming mode.
In systems with more than one door panel, only carry out this procedure on the main door panel.

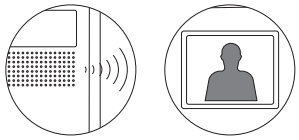
To programme the monitor from a inner door panel, see p. 96.



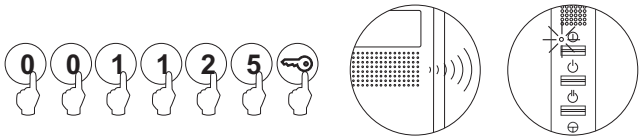
Switch off the monitor to be programmed.
Once the telephone is off, press the door release push button.



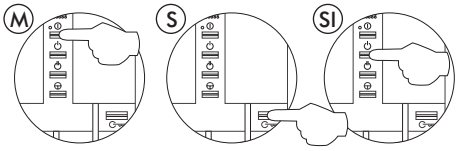
With the door release push button pressed, switch on the monitor.



To show that the system is ready for programming, the door panel will reproduce a sound and the picture will appears on the monitor. At this moment, the door release push button can be released. Lift the handset to establish audio communication with the door panel.

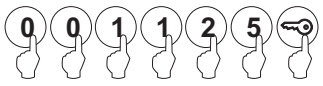


Enter the code of the monitor to be programmed, followed by the key button.
At this moment the door panel will reproduce a sound and the monitor led will blink.



To programme the monitor as the *Master*, switch it off and on again.
To programme it as a *Slave*, press the door release button.
To programme it as a *Slave with intercom*, press the () button.

Each apartment must only have one master unit; if there are parallel units, whether monitors or telephones, they must be configured as slaves.

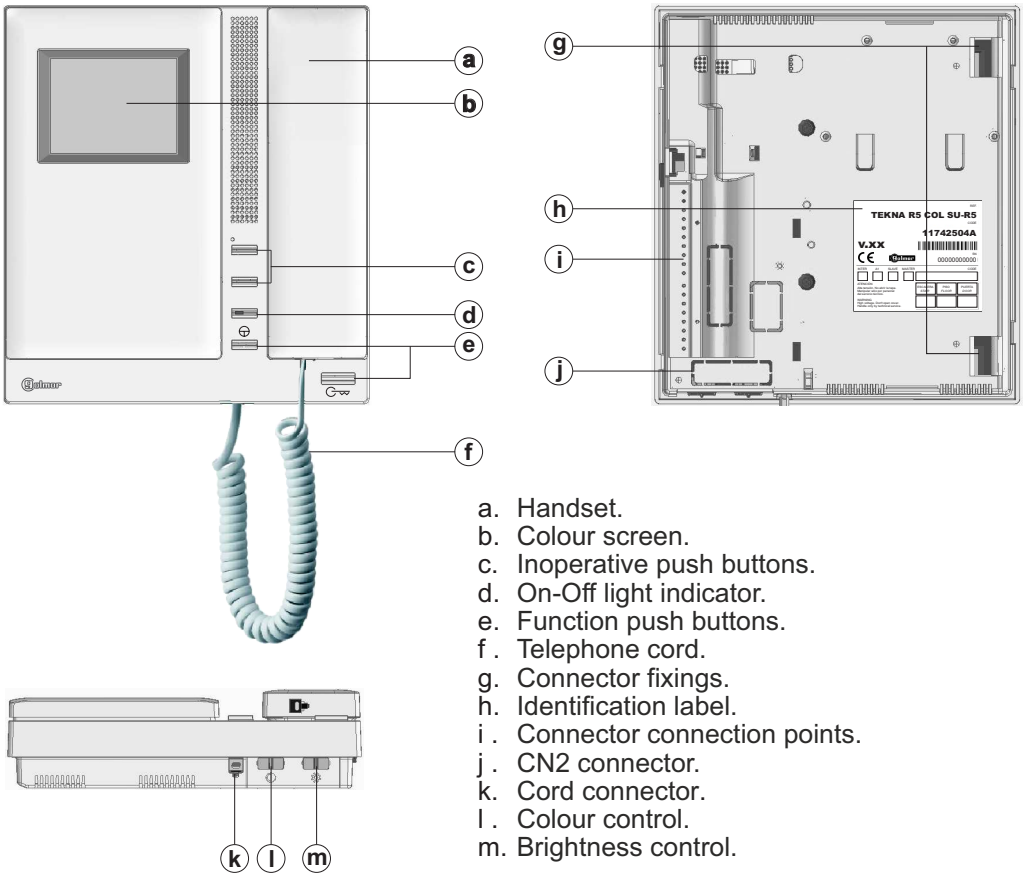


Make a call to check that the monitor has been successfully programmed. Programme the other telephones in the same way.
Once the programming has finished, set the programming switch to OFF. If this is not done, the door panel will emit tones to indicate that the system is still in programming mode.

Note: The call code from a general entrance door panel consists of the column or building code + the code of the apartment to be programmed:
Column : 1 - 254
Apartment:0 - 999

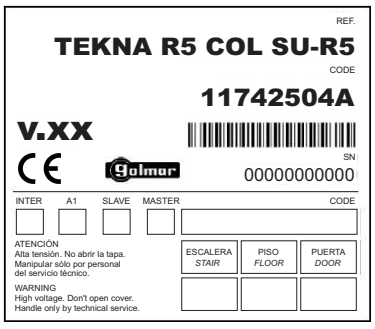
DESCRIPTION OF THE MONITOR

Description of the Tekna R5 monitor:



a. Handset.
b. Colour screen.
c. Inoperative push buttons.
d. On-Off light indicator.
e. Function push buttons.
f . Telephone cord.
g. Connector fixings.
h. Identification label.
i . Connector connection points.
j . CN2 connector.
k. Cord connector.
l . Colour control.
m. Brightness control.

Description of the identification label:



To facilitate repair, replacement or the addition of monitors to the existing installation, fill in the label with the relevant information.

MASTER: Main monitorl.
SLAVE: Secondary monitor.
INTER: Not used.
A1: Not used.
CODE: Call button code.
STAIR: Not used.

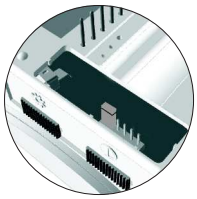
Function push buttons:

With the handset hung up, the image from the master door panel can be viewed. With the handset off the hook, audio and video communication can be established with the door panel if it has its auto switch-on function activated. This only functions if no communication is in progress.

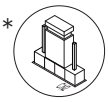
With the handset hung up, hold pressed for 1 second to turn the monitor on or off. For a period of 45 seconds after the monitor is turned on, it will only be able to receive calls.
With the handset off the hook, a call can be made to the main guard unit. During call reception and communication processes, the door release can be activated.

DESCRIPTION OF THE MONITOR

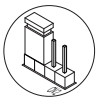
Handling of the end of line jumper:



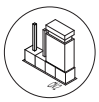
The end of line jumper is located on the CN2 connector at the bottom of the monitor. It has three positions:

* 

Set to the centre position when there are no parallel monitors. (Automatic mode)



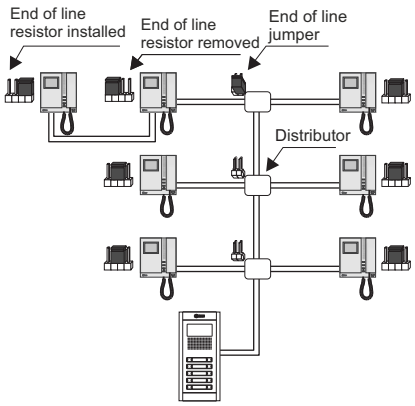
If there is a parallel monitor, set to this position on the first monitor. (Deactivated mode)



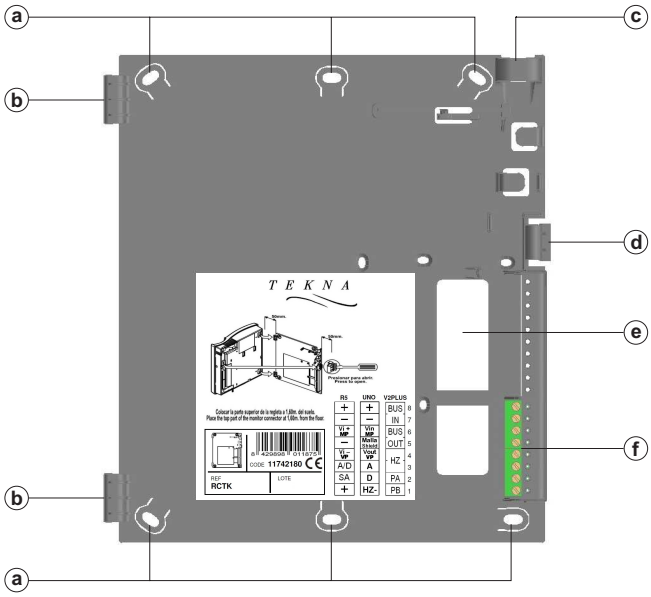
If there is a parallel monitor, set to this position on the last monitor. (Activated mode)

* Factory setting

Example configuration of the end of line jumper in the monitors.



Description of the RCTK wall mount connection block:



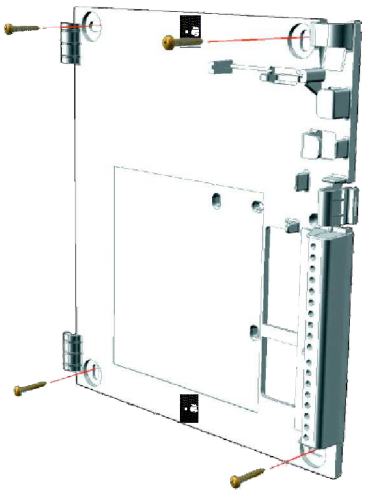
a. Holes for fixing to the wall (x6).
b. Monitor fixing clips (x2).
c. Vertical wiring input.
d. Fixing clip.
e. Wiring input hole.
f. Connection terminals:

+, –: Positive, negative.
Vi + / MP: Video signal MP input.
Vi – / VP : Video signal VP input.
A/D : Audio and digital communication.
SA : Auxiliary call repeater output.

The + and - terminals are duplicated to facilitate the cascade connection of other monitors or telephones.
If the monitor is not positioned on the wall mount connection block, the cascade connected monitors or telephones will not receive power.

DESCRIPTION OF THE MONITOR

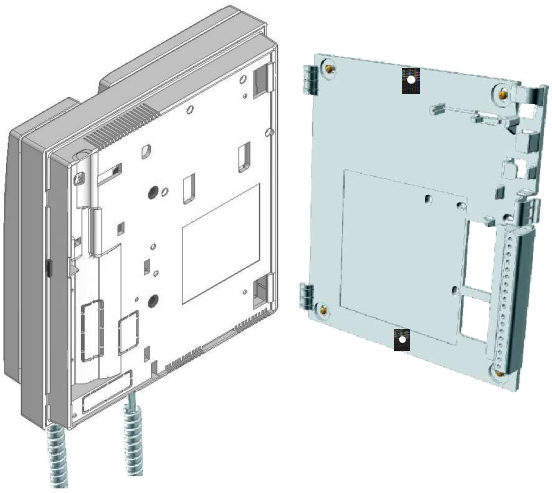
Fixing the monitor's wall mount connection block to the wall:



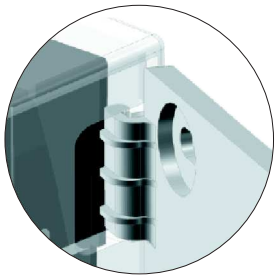
Avoid dusty or smoky environments or locations near sources of heat.
To install the monitor directly over the wall, drill two holes of Ø6mm and use the supplied screws.

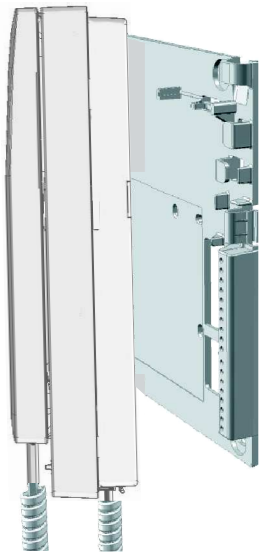
The top of the wall mount connector must be positioned at a height of 1.60m. The minimum distance between the sides of the wall mount connector and the closest object must be 5cm.

Positioning the monitor:



Place the monitor at right angles to the wall mount connector and align the holes on its base with the fixing clips of the connector, as shown in the drawing.



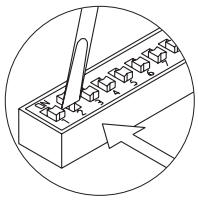


Close the monitor like a book, applying pressure to the right-hand side until the click of the connector's fixing clips can be heard.

To remove the monitor from the connector after installation, use a flat screwdriver to release the fixing clips. Once the monitor has been released, open it like a book and remove it from the connector, making sure that it does not fall.

PROGRAMMING THE MONITORS

Programming Tekna R5 monitors:



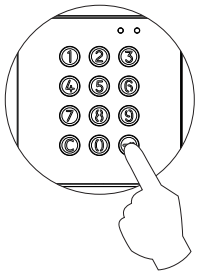
From sound module:

Locate the DIP switch situated at the back of the EL632/R5 sound module and set number 2 to ON, as described on p. 73. The door panel will reproduce a sound to advise that the system has entered into programming mode.

In systems with more than one door panel, the programming process shall be done on the master door panel only.

From coded module:

Press the key button three times and then enter the administrator pin, the module will emit tones:

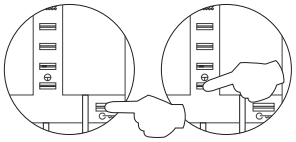


Key button + key button + key button + administrator pin.

(1)

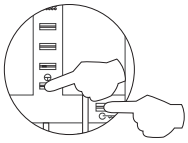
(1) Bear in mind the number of digits in the configured code (factory setting 2718 = 4).

Important: Programming from coded module:
- With EL632/R5 sound module V01 or later.
- With N3301/AL or NX3301 V03 or later.

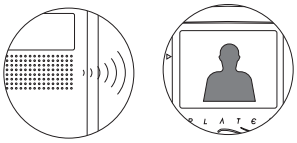


Turn off the monitor to be programmed by holding pressed the door release push button for one second.

Once off, press the auto switch-on button.

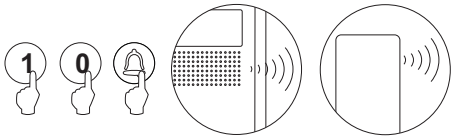


While holding pressed the auto switch-on button, simultaneously press the door release button.



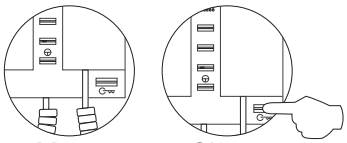
To show that the system is ready for programming, the door panel will emit a tone and the image will appear on the monitor. The push buttons can now be released.

Lift the handset off the monitor.



Enter the code to be called by this monitor and press bell.

At this moment both door panel and handset will emit tones.



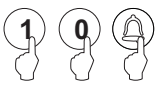
With the handset lifted:

If programming the monitor as master, replace the handset.

If programming it as slave, press the door release push button, then replace the handset.

Master Slave

Each apartment must only have one master unit; if there are parallel units, whether monitors or telephones, they must be configured as slaves.



Make a call to check that the monitor has been successfully programmed. Programme the other telephones in the same way.

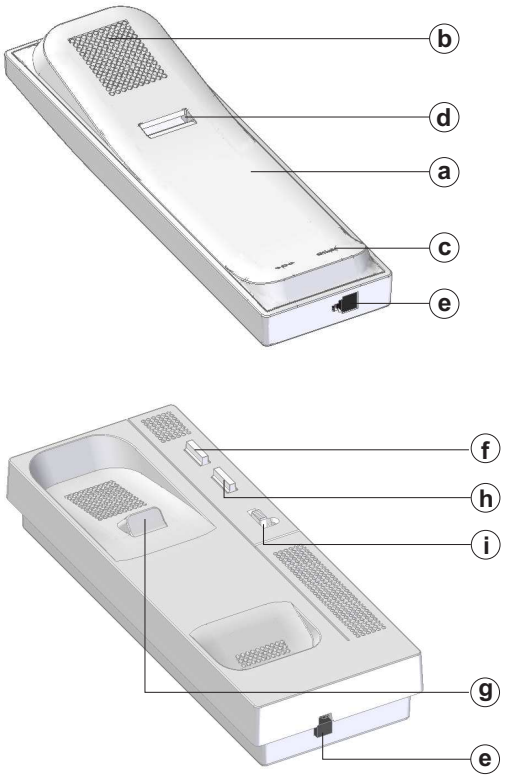
Once the programming has finished, set the sound module programming switch to OFF or press the (C) key if the programming is from coded module. If this is not done, the door panel will emit tones to indicate that the system is still in programming mode (programming from sound module).

IMPORTANT:

If the installation has a CD-PLUS/R5 converter with coded panel or guard unit, the programming codes assigned to the monitors must be between 1 and 250. To make it easier for the user to make a call, another parallel code can be assigned in a 2nd assignment table.

DESCRIPTION OF THE TELEPHONES

Description of the T-540 Plus telephone



a. Handset.
b. Speaker grille.
c. Microphone hole.
d. Subjection hole.
e. Telephone cord connectors.
f. Door release push button.
g. Hook switch.
h. Auxiliary function push button.
i. Volume control.

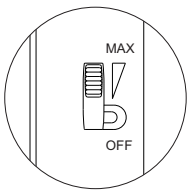
Description of the connection terminals:

+	–	A	D	AI	–	HZ	SA	+	Int	PA

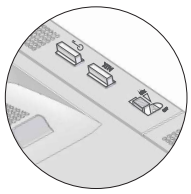
+, - : Positive, negative.
A , D : Audio, digital communication.
AI : Exterior door release push button connection.
HZ : Door bell connection.
SA : SAV-90 call repeater connection.
INT : Intercom function.
PA : Aux. relay activation output. (18Vdc/0.5A max.)

Volume control:

The telephone has a call volume control which can be set to maximum, medium or mute. With the help of the three-position switch located on the front right of the telephone.



Function push buttons:



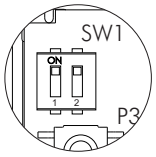
With the handset hung up, a panic call to the guard units configured to receive such calls is made. With the handset off the hook, a normal call can be made to the main guard unit. During call reception and communication processes, it allows lock release activation.

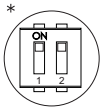
AUX Function button which, depending on the SW1 DIP switch setting, will perform one of the following functions: Auto switch-on, PA output, call to secondary guard unit and intercom.

DESCRIPTION OF THE TELEPHONES

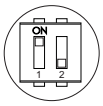
Description of the DIP switch:

The SW1 DIP switch is located on the top left-hand side of the circuit and is accessible by opening the telephone. It allows the following operating modes for the P2 auxiliary function push button:

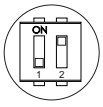


* 

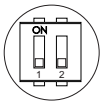
"Auto switch-on" mode: DIP switches 1 and 2 set to ON.
With the handset off the hook and then by pressing the function button, this enables audio communication to be established with the door panel, if it has this function activated, without being called. This only functions if no operation is in progress.



"PA output" mode: DIP switch 1 set to ON and DIP switch 2 set to OFF:
Regardless of the position of the handset and by pressing the function push button, this enables the telephone's "PA" output to be activated.



"Secondary CE call" mode: DIP switch 1 set to OFF and DIP switch 2 set to ON.
With the handset off the hook and then by pressing the function push button, this enables a call to be made to the guard unit configured as secondary.

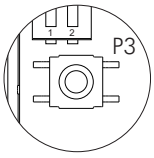


"Intercom" mode: DIP switches 1 and 2 set to OFF.
With the handset off the hook and then by pressing the function push button, this enables the intercom function between two points in the same apartment.

IMPORTANT: Select the function mode of the P2 push button before programming the telephone.

* Factory setting

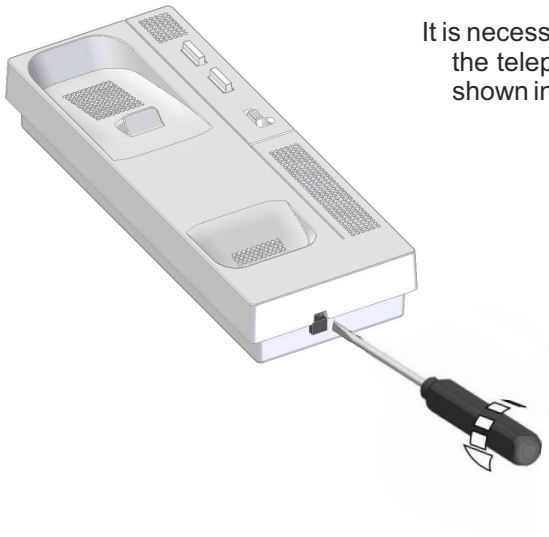
Description of the programming push button



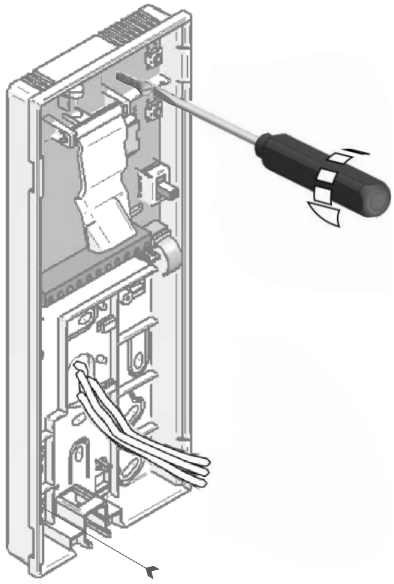
The P3 programming push button is located on the top left-hand side of the circuit and is accessible by opening the telephone. It enables the telephone to enter programming mode with the door panel (see the programming process on p. 105-106).

DESCRIPTION OF THE TELEPHONES

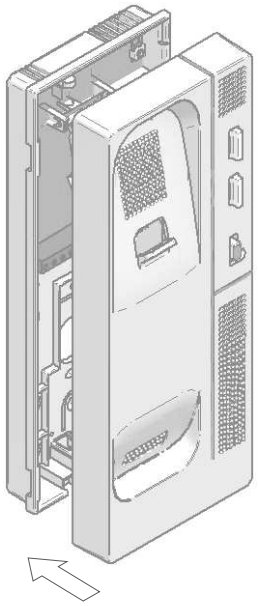
Fixing the telephone to the wall:



It is necessary to open the telephone for wiring and fixing purposes. To open the telephone, insert a flat screwdriver into the slots and gently lever as shown in the drawing.



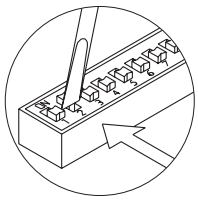
Avoid dusty or smoky environments or locations near sources of heat. The telephone can be secured using an electrical embedding box or directly to the wall. To secure directly to the wall, drill two 6mm holes at the specified positions using 6mm wall plugs and Ø3.5 x 25mm screws.



Feed the wires through the holes and connect them to the wall mount connector as per the wiring diagram. Close the telephone as shown in the drawing. Once the telephone is closed, connect the handset using the telephone cord and put it on the cradle.

PROGRAMMING THE TELEPHONES

Programming T-540 Plus telephones:



From sound module:

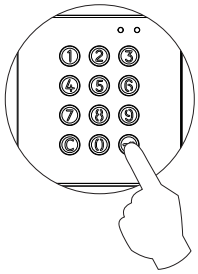
Locate the SW2 DIP switch situated on the top left-hand side of the back of the EL632/PLUS module and set number 2 to ON. The door panel will reproduce a sound to advise that the system has entered into programming mode.

In systems with more than one door panel, the programming process shall be done on the master door panel only.

From coded module:

Press the key button three times and then enter the administrator pin, the module will emit tones:

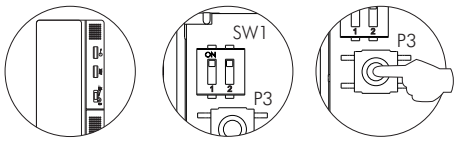
Key button + key button + key button + administrator pin.



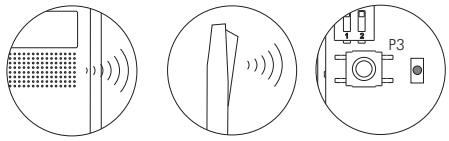
(1) Bear in mind the number of digits in the configured code (factory setting 2718 = 4).

Important: Programming from coded module:
- With EL632/PLUS and EL642/PLUS sound module V03 or later.
- With N3301/AL or NX3301 V03 or later.

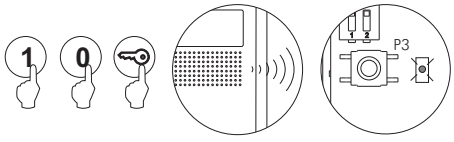
To programme the telephone from a general entrance door panel (if any), see p. 106.



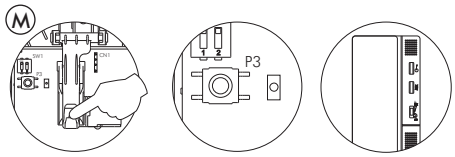
Open the telephone to be programmed (see p. 104). In the SW1 DIP switch, select the P2 button function mode (see p. 103) and then press the P3 programming button.



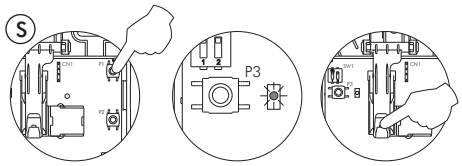
To show that the system is ready for programming, the door panel and the telephone handset will emit a number of tones (the LED on the telephone will light up), enabling audio communication to be established with the door panel.



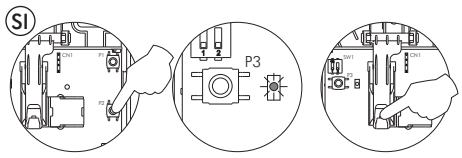
Enter the code of the telephone to be programmed, followed by the key button. At this moment, the door panel and the handset will emit a number of tones (the LED on the telephone will blink slowly).



To programme the telephone as the *Master*, press the hang up button (the LED will go out). *Close the telephone.*



To programme the telephone as the *Slave*, press the P1 lock release button (the LED will blink rapidly), and then press the hang up button (the LED will go out). *Close the telephone.*



To programme the telephone as the *Slave* + *Intercom*, press the P2 function button (the LED will blink rapidly), and then press the hang up button (the LED will go out). *Close the telephone.*

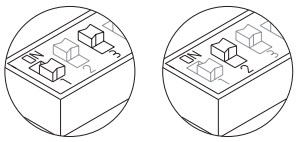
Each apartment must only have one master unit; if there are parallel units, whether monitors or telephones, they must be configured as slaves.

Make a call to check that the telephone has been successfully programmed. Programme the other telephones in the same way.

Once the programming has finished, set the sound module programming switch to OFF or press the (C) key if the programming is from coded module. If this is not done, the door panel will emit tones to indicate that the system is still in programming mode (programming from sound module).

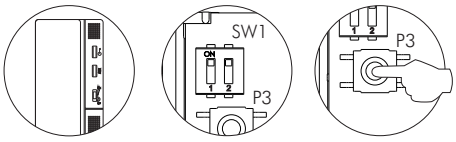
PROGRAMMING THE TELEPHONES - GENERAL ENTRANCE DOOR PANEL ONLY

Programming T-540 Plus telephones from a general entrance door panel (SW1-1 ON):

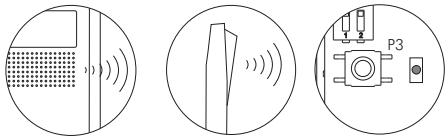


Locate the SW2 DIP switch on the general entrance door panel situated on the top left-hand side of the back of the sound module. With switch 1 OFF and switch 3 ON, set switch 2 to ON: the general entrance door panel will emit a tone indicating that it has entered programming mode.
In systems with more than one door panel, only carry out this procedure on the main door panel.

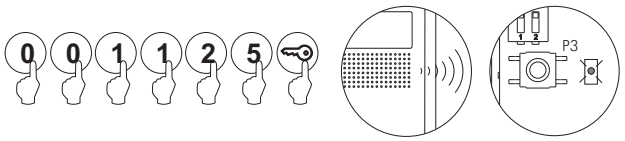
To programme the telephone from a inner door panel, see p. 105.



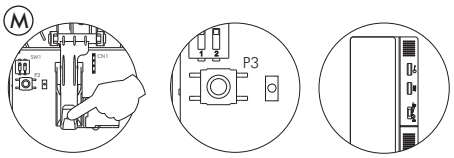
Open the telephone to be programmed (see p. 104). In the SW1 DIP switch, select the P2 button function mode (see p. 103) and then press the P3 programming button.



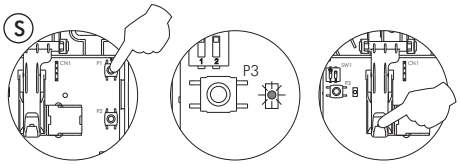
To show that the system is ready for programming, the door panel and the telephone handset will emit a number of tones (the LED on the telephone will light up), enabling audio communication to be established with the door panel.



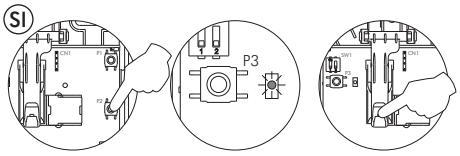
Enter the code of the telephone to be programmed, followed by the key button. At this moment, the door panel and the handset will emit a number of tones (the LED on the telephone will blink slowly).



To programme the telephone as the *Master*, press the hang up button (the LED will go out). *Close the telephone.*

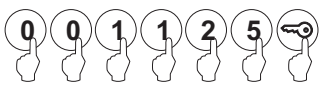


To programme the telephone as the *Slave*, press the P1 lock release button (the LED will blink rapidly), and then press the hang up button (the LED will go out). *Close the telephone.*



To programme the telephone as the *Slave* + *Intercom*, press the P2 function button (the LED will blink rapidly), and then press the hang up button (the LED will go out).
Close the telephone.

Each apartment must only have one master unit; if there are parallel units, whether monitors or telephones, they must be configured as slaves.



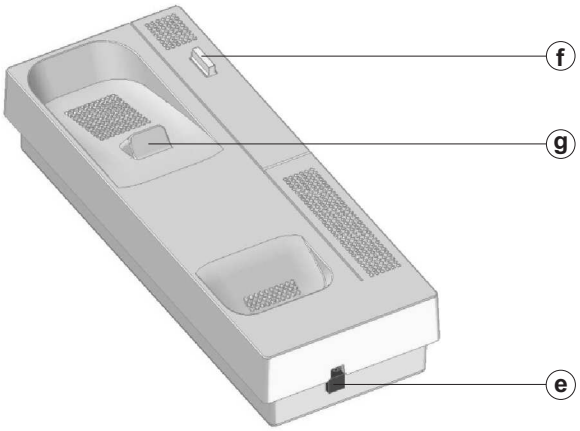
Make a call to check that the telephone has been successfully programmed. Programme the other telephones in the same way.
Once the programming has finished, set the programming switch to OFF. If this is not done, the door panel will emit tones to indicate that the system is still in programming mode.

Note: The call code from a general entrance door panel consists of the column or building code + the code of the apartment to be programmed:
Column: 1 - 254
Apartment:0 - 999

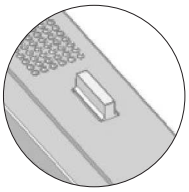
DESCRIPTION OF THE TELEPHONES

Description of the T-530 R5 telephone:

a. Handset.
b. Speaker grille.
c. Microphone hole.
d. Subjection hole.
e. Telephone cord connectors.
f. Function push button.
g. Hook switch.



Function push button:



With the handset off the hook, a normal call can be made to the main guard unit. During call reception and communication processes, it allows lock release activation.

Description of the connection terminals:

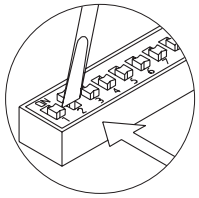
+	–	A/D	SA

+ , – : Positive, negative.
A/D : Audio and digital communication.
SA : Auxiliary call repeater output.

PROGRAMMING THE TELEPHONES

Programming T-530 R5 telephones:

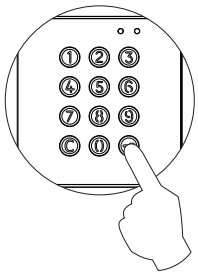
From sound module:



Locate the DIP switch situated at the back of the sound module and set number 2 to ON, as described on p. 73.
The door panel will reproduce a sound to advise that the system has entered into programming mode.
In systems with more than one door panel, the programming process shall be done on the master door panel only.

From coded module:

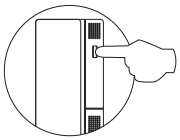
Press the key button three times and then enter the administrator pin, the module will emit tones:



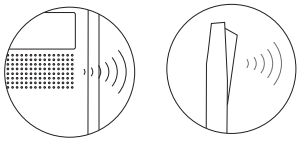
Key button + key button + key button + administrator pin.

(1) Bear in mind the number of digits in the configured code (factory setting 2718 = 4).

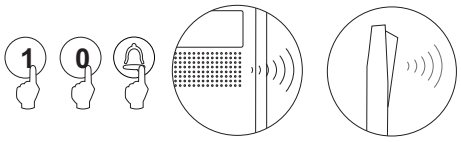
Important: Programming from coded module:
- With EL632/R5 and EL642/R5 sound module V01 or later.
- With N3301/AL or NX3301 V03 or later.



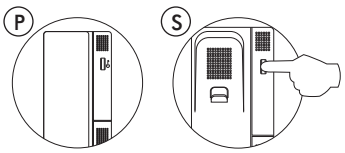
With the door release push button pressed, pick up the telephone's handset.



To show that the system is ready for programming, the door panel and handset will emit a number of tones, and audio communication can be established.
Release the door release push button.



Enter the code to be called by this telephone and press bell.
At this moment both door panel and handset will emit tones.



With the handset lifted:
If programming the telephone as master, replace the handset.
If programming it as slave, press the door release push button, then replace the handset.

Each apartment must only have one master unit; if there are parallel units, whether monitors or telephones, they must be configured as slaves.

Make a call to check that the telephone has been successfully programmed. Programme the other telephones in the same way.
Once the programming has finished, set the sound module programming switch to OFF or press the (C) key if the programming is from coded module. If this is not done, the door panel will emit tones to indicate that the system is still in programming mode (programming from sound module).

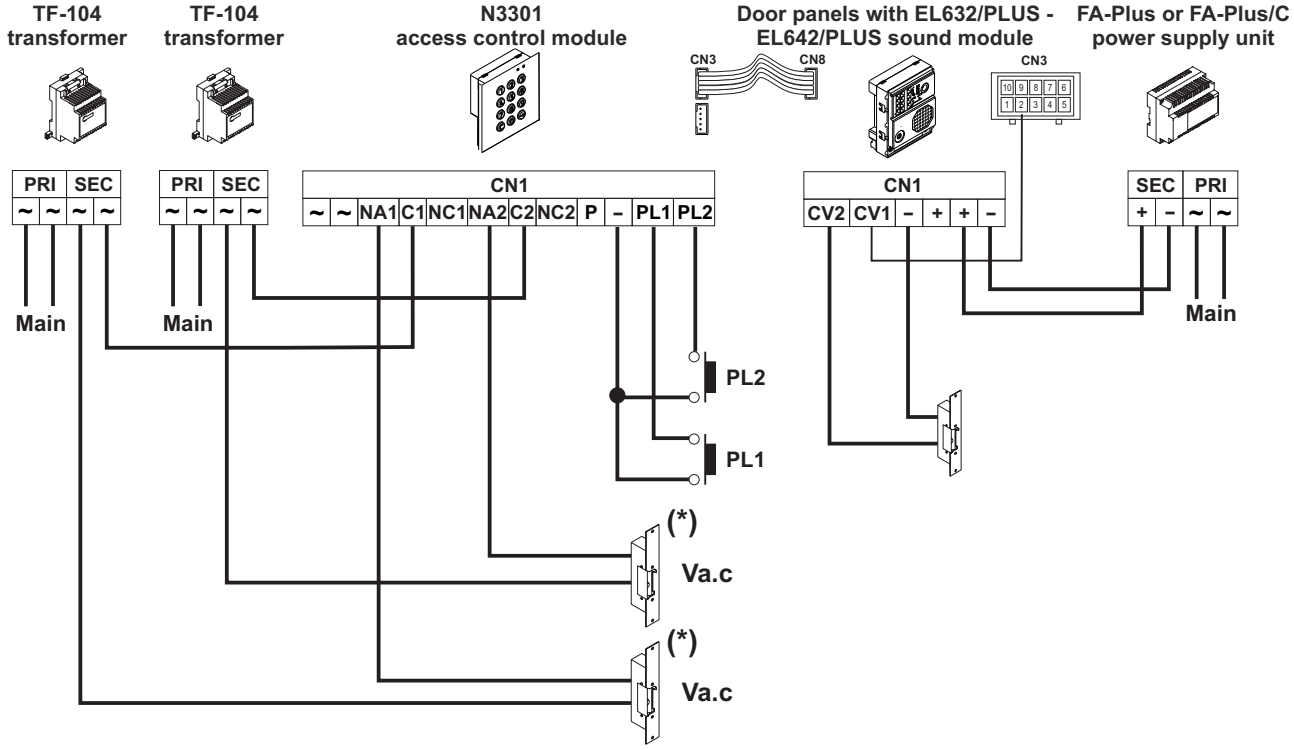
IMPORTANT:
If the installation has a CD-PLUS/R5 converter with coded door panel or guard unit, the programming codes assigned to the telephones must be between 1 and 250. To make it easier for the user to make a call, another parallel code can be assigned in a 2nd assignment table.

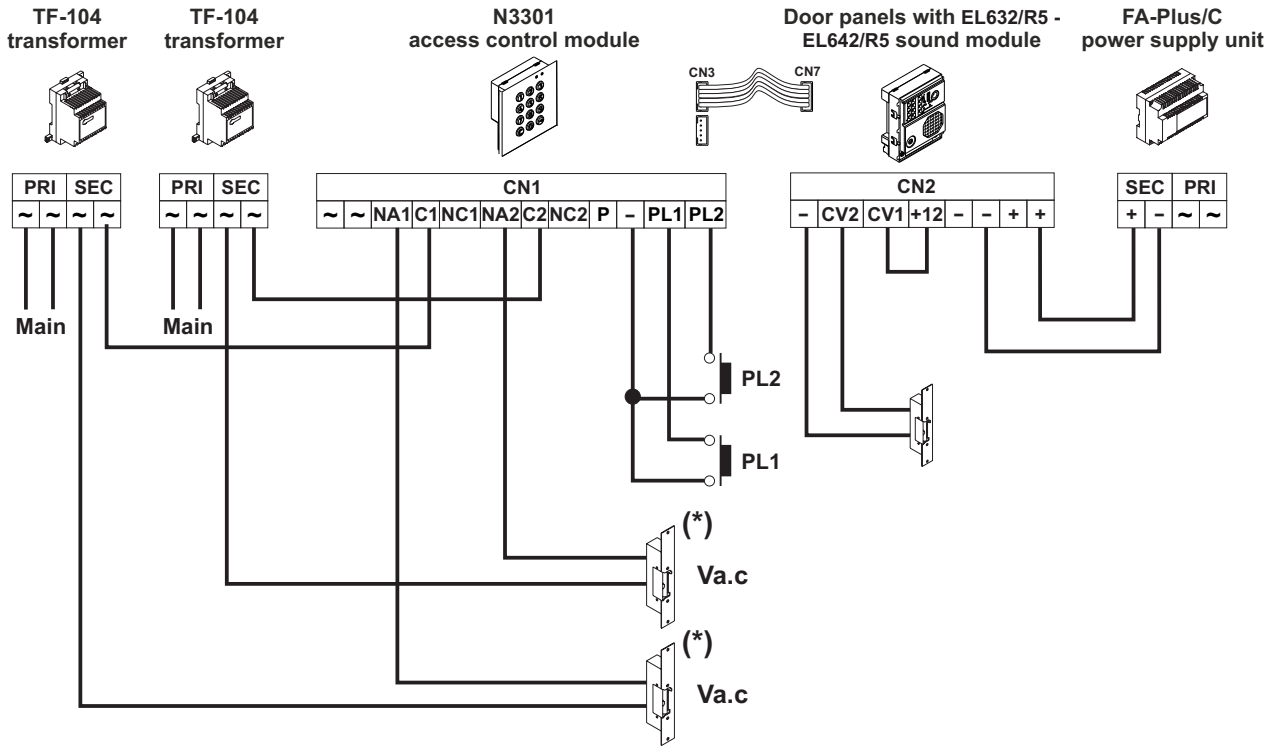
WIRING DIAGRAMS

Combined with Nexa Modular / Nexa Stainless Steel panels:

The connection of the access control module with EL632 and EL642 sound modules should be made by means of the Nexa Bus link hose supplied with the modules. See p. 78 to check the connection.

Electronic or video access control systems with digital installation.

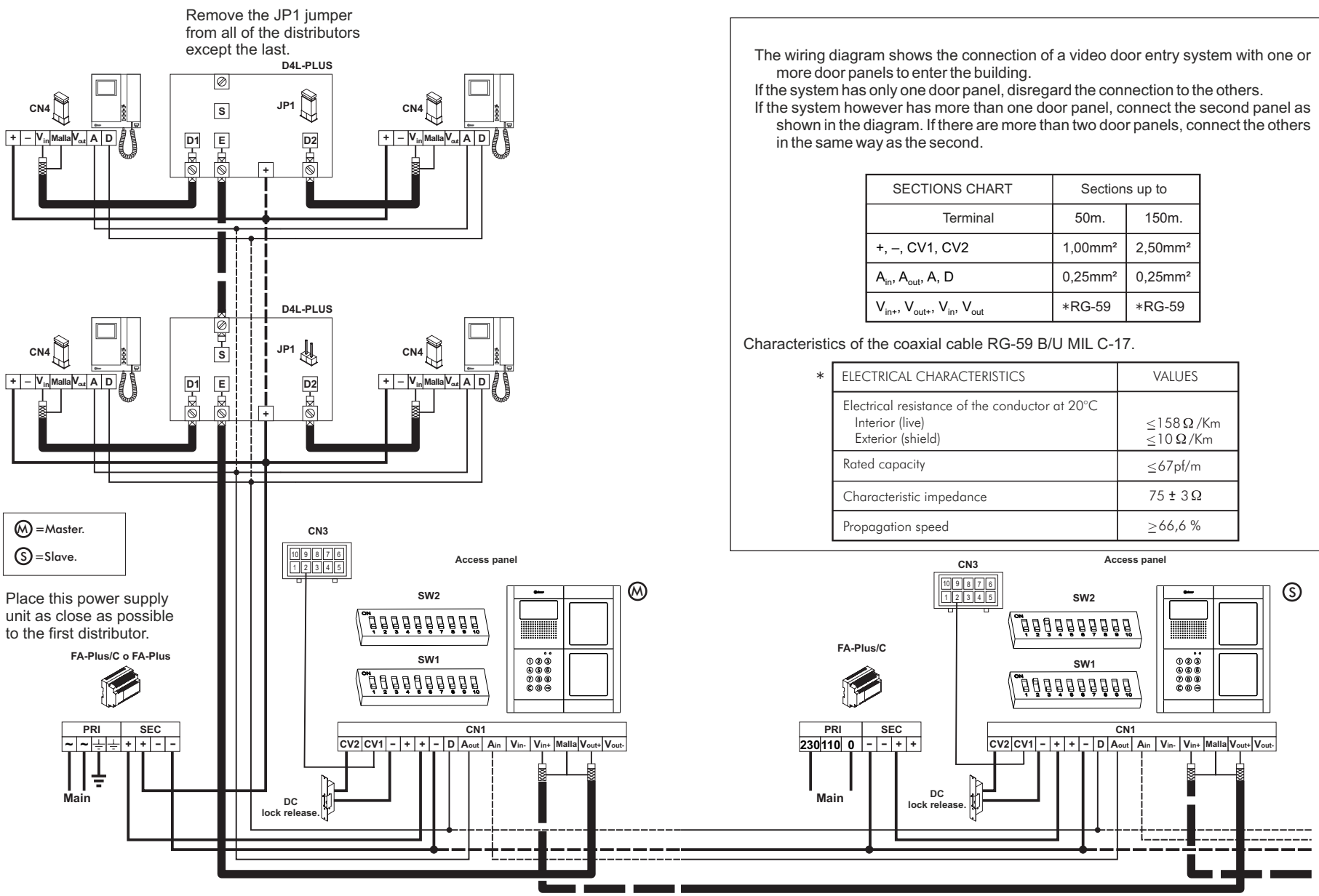




(*) Use the varistor supplied if using an AC lock release directly on the terminals of the lock release.

WIRING DIAGRAMS

Video door entry system with coaxial cable:



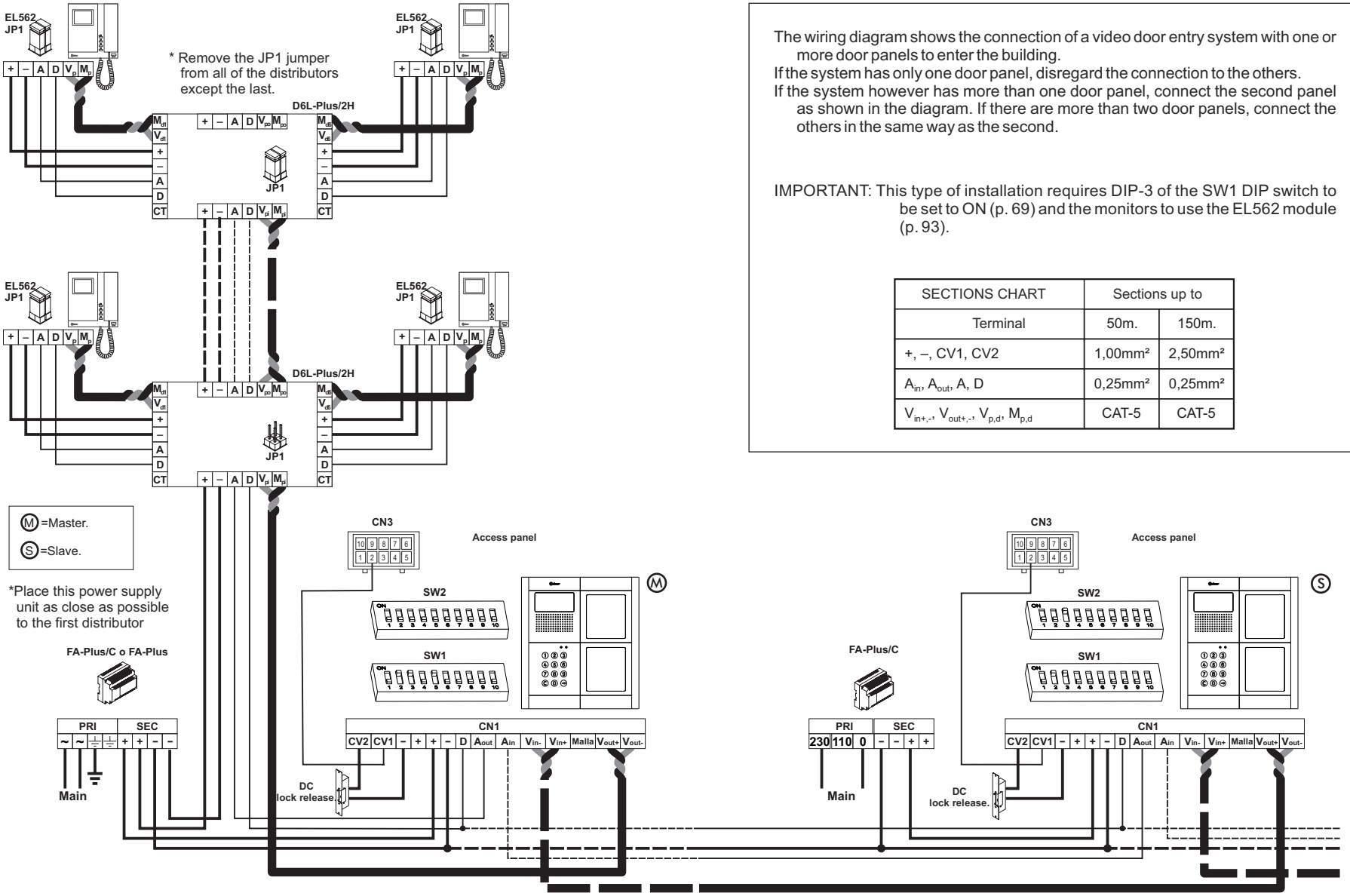
The wiring diagram shows the connection of a video door entry system with one or more door panels to enter the building.
If the system has only one door panel, disregard the connection to the others.
If the system however has more than one door panel, connect the second panel as shown in the diagram. If there are more than two door panels, connect the others in the same way as the second.

SECTIONS CHART	Sections up to	
Terminal	50m.	150m.
+, –, CV1, CV2	1,00mm²	2,50mm²
A_{in}, A_{out}, A, D	0,25mm²	0,25mm²
V_{in+}, V_{out+}, V_{in}, V_{out}	*RG-59	*RG-59

Characteristics of the coaxial cable RG-59 B/U MIL C-17.

* ELECTRICAL CHARACTERISTICS	VALUES
Electrical resistance of the conductor at 20°C Interior (live) Exterior (shield)	 ≤158 Ω /Km ≤10 Ω /Km
Rated capacity	≤67pf/m
Characteristic impedance	75 ± 3 Ω
Propagation speed	≥66,6 %

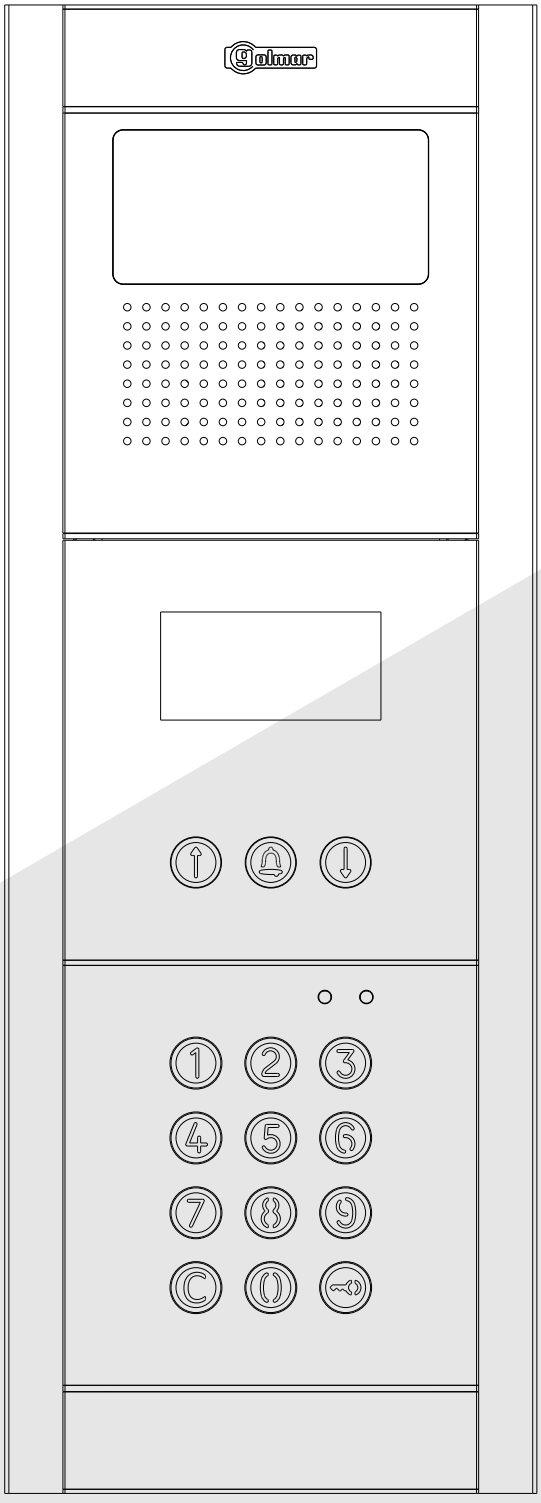
Video door entry system without coaxial cable:



The wiring diagram shows the connection of a video door entry system with one or more door panels to enter the building.
If the system has only one door panel, disregard the connection to the others.
If the system however has more than one door panel, connect the second panel as shown in the diagram. If there are more than two door panels, connect the others in the same way as the second.

IMPORTANT: This type of installation requires DIP-3 of the SW1 DIP switch to be set to ON (p. 69) and the monitors to use the EL562 module (p. 93).

SECTIONS CHART	Sections up to	
Terminal	50m.	150m.
+, –, CV1, CV2	1,00mm²	2,50mm²
A_{in}, A_{out}, A, D	0,25mm²	0,25mm²
$V_{in+,-}$, $V_{out+,-}$, $V_{p,d}$, $M_{p,d}$	CAT-5	CAT-5



Coded panel with display

CONTENTS

CHARACTERISTICS

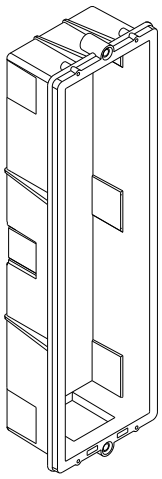
The coded panel with display is configured by adding a display to the coded panel, thereby enabling the actions performed with the door panel to be viewed. This enables calls to be made using the monitor code or the contacts residents list. It is also possible to gain access to the building using the numeric code and view, on the door panel screen, the status of the actions performed.

DESCRIPTION OF THE DOOR PANEL

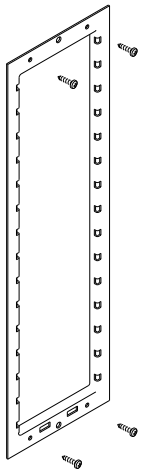
Description of the Nexa modular door panel:

Door panel component assembly drawing.

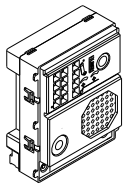
Embedding boxes



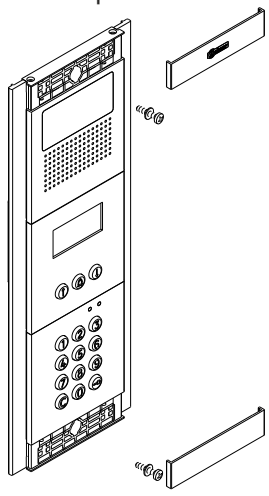
Frame modules



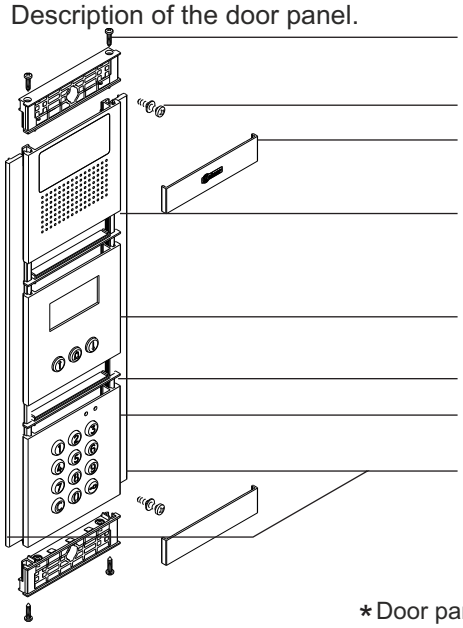
Electronic modules



Aluminium panel



Description of the door panel.



Fixing screws for clip-on covers (x4)

Fixing screws for embedding box (x2)

Clip-on covers: 60xx

Grille modules:
N1000/AL
N1110/AL 1P.
N2220/AL 2P.

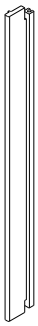
Display module:
N3403/AL

Nexa module separator (x2)

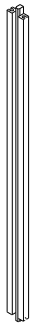
Coded module
N3301/AL

Side profile (x2)

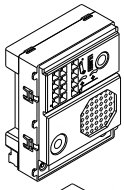
Side profile



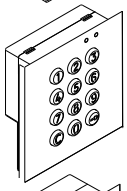
*Door panel joining bar



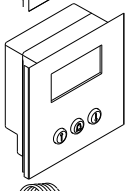
*Door panel joining bar: Enables 2 door panels to be joined.



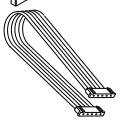
MSound modules
EL632/PLUS, video door entry system with colour television camera, 3 wires + COAX.
EL642/PLUS, audio door entry system, 4 common wires.
EL632/R5, video door entry system with colour television camera, 5 common wires.
EL642/R5, audio door entry system, 5 common wires.



Access control module
N3301/AL, coded module and access control.



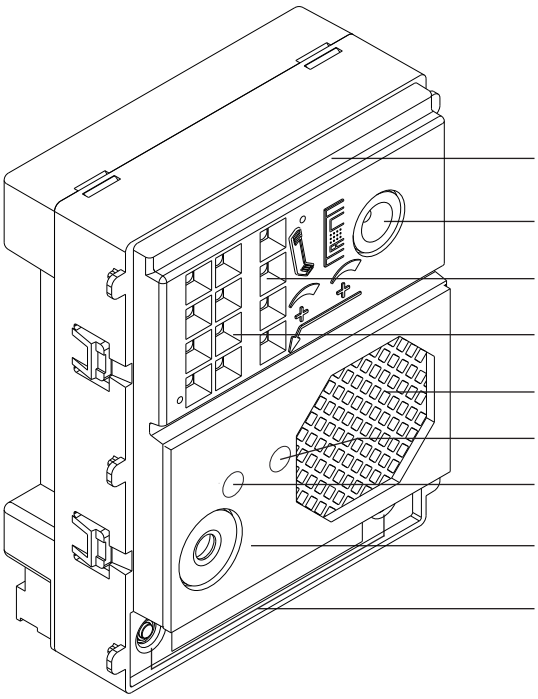
Display module
N3403, display module.



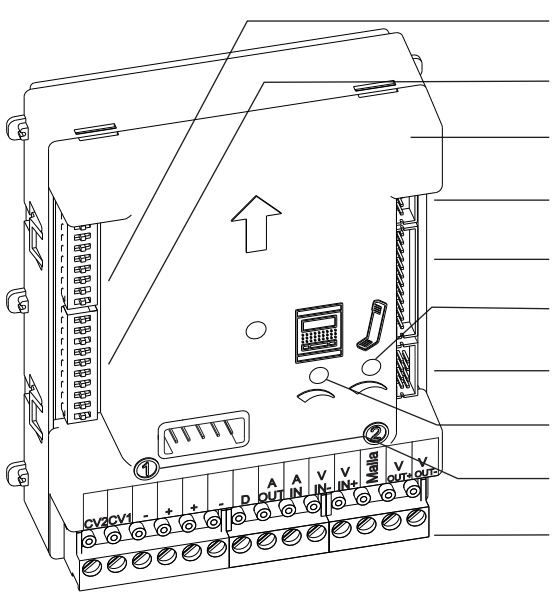
NEXA Bus link hose (length 50 cm).
To connect the EL632 or EL642 module to the N3301/AL coded module and the N3403 display module.

DESCRIPTION OF THE SOUND MODULE

Description of the EL632/PLUS - EL642/PLUS sound module:



Front.
Television camera. (Only the EL632/PLUS module)
LEDs (visual indications for people with impaired hearing)
LEDs.
Speaker.
Door panel speaker volume control potentiometer.
Telephone speaker volume control potentiometer.
Microphone.
Sound module buttons (x2).



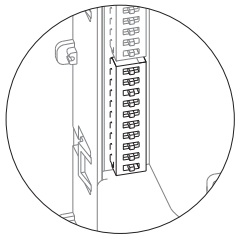
Sw2 DIP switch. (No function)
Sw1 DIP switch.
Back.
CN8 NEXA Bus connector.
CN6 button connector.
Telephone speaker volume control potentiometer.
CN3 function connector.
Door panel speaker volume control potentiometer.
Button number.
Connection block.

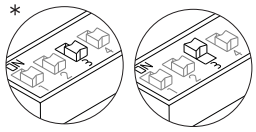
CV1	: Contact “C” for electric lock. Relay 3.
CV2	: Contact “N.O.” for electric lock. Relay 3.
+, −	: Positive, negative.
D	: Digital communication.
Aout	: Audio output communication.
Ain	: Audio input communication.
Vi+,Vi-	: Balanced video signal input (through twisted pair).
Vo+,Vo-	: Balanced video signal output (though twisted pair).
Shield	: Coaxial cable shield.
Vi+	: Video signal input through coaxial cable.
Vo+	: Video signal output through coaxial cable.

DESCRIPTION OF THE SOUND MODULE

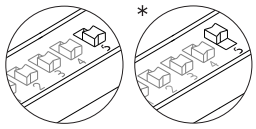
Description of the SW1 DIP switch:

The SW1 DIP switch is located on the left-hand side of the back of the module.

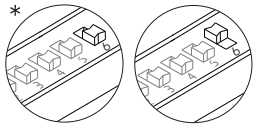




Select the type of cabling for the video signal.
Leave in the OFF position for coaxial cables RG-59 or RG-11.
Set to ON for twisted pair cable.



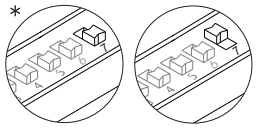
For Plus systems, load the installation with a Plus communications resistor. For proper operation, only leave in the ON position on the door panel closest to the installation channel or on the general entrance door panel (if any). Set the others to OFF.



For Uno systems, load the installation with an Uno communications resistor. For proper operation, only set to ON on the door panel closest to the installation channel. Leave the others in the OFF position.

If an RD Plus/Uno repeater is used:

In the installation channel or at the entry of the inner door panel in systems with general entrance door panels, leave the door panel(s) in the OFF position.

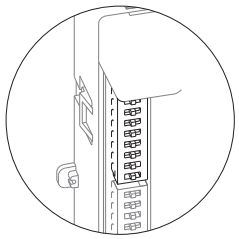


Set to ON for the volume of the door panel tones:
(call in progress, busy system and door opened) to be *HIGH* or leave in the OFF position if *LOW* volume is required.

In this operating mode, DIP switches 1, 2, 4 and 8 to 10 have no function.
In this operating mode, DIP switches 1, 2, 4 and 8 to 10 have no function.

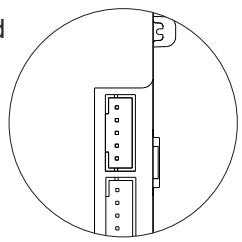
* Factory setting

Description of the SW2 DIP switch (no function):



The SW2 DIP switch is located on the left-hand side of the back of the module.
In this operating mode, the SW2 DIP switch has no function.

Description of the CN8 Nexa Bus link connector:



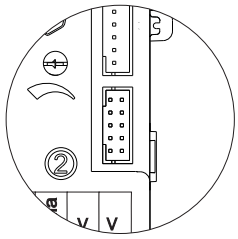
The CN8 Nexa Bus link connector is located on the top right-hand side of the back of the sound module.
Connect the cable supplied with the module to other modules using the Nexa Bus:

- ⇨N3403/AL: Connect the module to provide the system with a display viewer.
- ⇨N3301/AL: Connect the module to provide the system with access control and a coded door panel.
- ⇨N3301A/AL: Connect the module to provide the system with an alphabetic panel.
- ⇨EI3002: Connect to the bus to power information panels (maximum 6 units).
- ⇨CD-NEXA/BT: Connect the module to provide the system with a wireless configuration interface.

DESCRIPTION OF THE SOUND MODULE

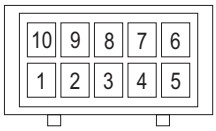
Description of the CN3 function connector:

The CN3 function connector is located on the top left-hand side of the back of the sound module. Connect the cable supplied with the module to perform the following functions:



- ⇨"AP" function: Activates the "CV1" and "CV2" lock release relay, timed activation time between 0 and 99 seconds through the SYSTEM CONFIG. menu: DOOR OPEN TIME (p. 133). For more information, see the manual supplied with the sound module.
- ⇨"ICO" function: Busy channel indication is carried out with the "ICO" and "+12" terminals.
- ⇨"Handicap" function: FDI voice module (France). The connector includes all wires for connection. For more information, see the manual supplied with the sound module.

CN3 top view

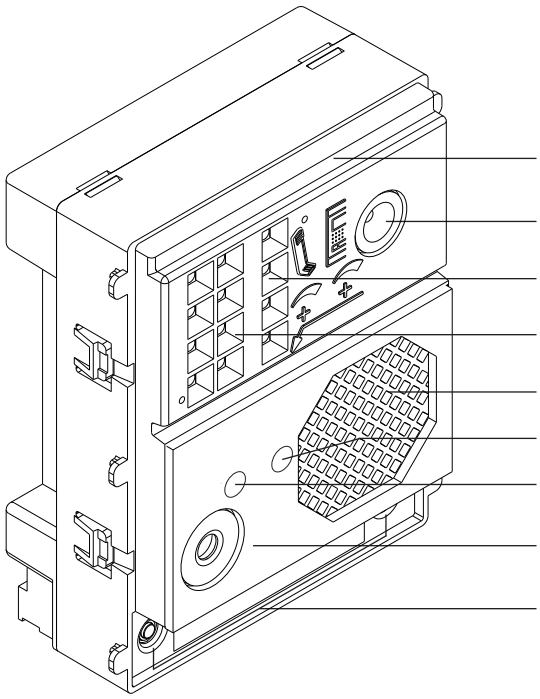


Description of the CN3 connector

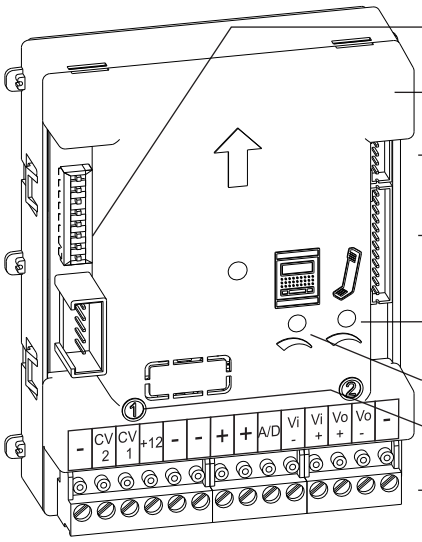
1	Grey	(-)	Negative.
2	Brown	(+12)	12Vdc for continuous lock release activation.
3	White	(ICO)	Busy channel indicator.
4	Yellow	(AP)	External button to activate door release.
5	Pink	(+H)	To activate additional lighting.
6	Blue	(OP)	Handicap.
7	Orange	(SC)	Handicap.
8	Green	(ALM)	Handicap.
9	Red	(PDB)	Handicap.
10	Black	(-)	Negative.

DESCRIPTION OF THE SOUND MODULES

Description of the EL632/R5 - EL642/R5 sound module:



Front.
Colour camera (Only the EL632/R5 module)
LEDs (visual indications for people with impaired hearing)
LEDs.
Speaker.
Door panel speaker volume control potentiometer.
Telephone speaker volume control potentiometer.
Microphone.
Sound module buttons (x2).

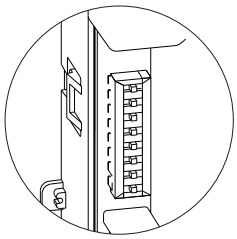


Sw1 DIP switch.
Back.
CN7 NEXA Bus connector.
CN2 button connector.
Telephone speaker volume control potentiometer.
Door panel speaker volume control potentiometer.
Button number.
Connection block.

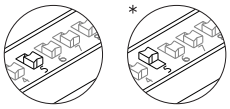
–	: Negative
CV1	: Contact “C” for electric lock. Relay 3.
CV2	: Contact “N.O.” for electric lock. Relay 3.
+, –	: Positive, negative.
A/D	: Audio and digital communication.
Vi+,Vi-	: Video signal input.
Vo+,Vo-	: Video signal output.
–	: Negative

DESCRIPTION OF THE SOUND MODULES

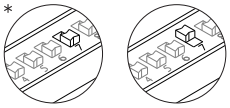
Description of the SW1 DIP switch:



The SW1 DIP switch is located on the top right-hand side of the back of the module.
To set the DIP switches, use the tool ✎ supplied with the sound module.



* Set to ON *only on one door panel in each building or channel*. If the building has more access doors, set the others to OFF.

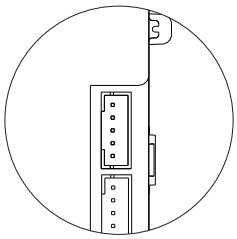


* Set to ON for *HIGH* door panel tone volume or OFF for NORMAL volume.

*Factory setting

In this operating mode, DIP switches 1, 2, 3, 4, 6 and 8 have no function.

Description of the CN7 Nexa Bus link connector:

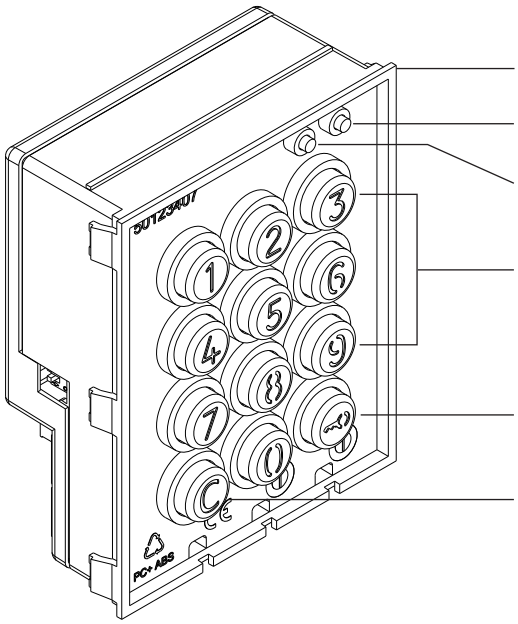


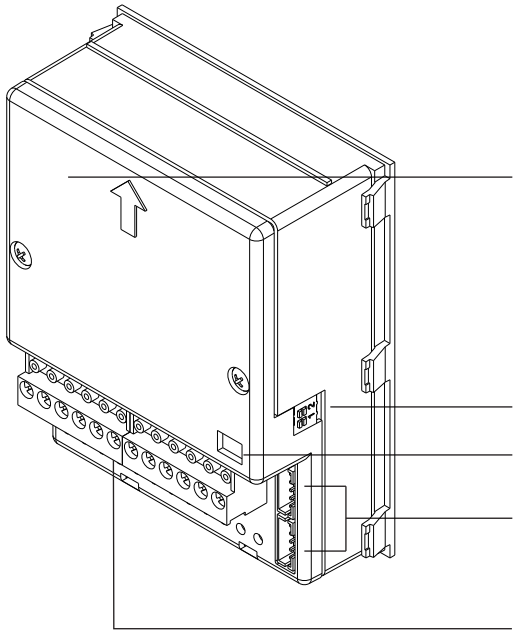
The CN7 Nexa Bus link connector is located on the top right-hand side of the back of the sound module.
Connect the cable supplied with the module to other modules using the NEXA Bus:

- ⇨N3403/AL: Connect the module to provide the system with a display viewer.
- ⇨N3301/AL: Connect the module to provide the system with access control and a coded door panel.
- ⇨N3301A/AL: Connect the module to provide the system with an alphabetic panel.
- ⇨EL3002: Connect to the bus to power information panels (maximum 6 units).

DESCRIPTION OF THE CODED MODULE

Description of the N3301/AL - NX3301 coded module:

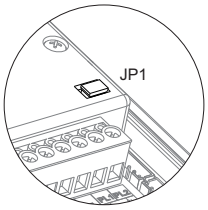




~ ~	: Power input (Do not use when connecting the Nexa Bus link hose. See p. 161 for connections)
NA1	: Normally open output relay 1.
C1	: Common relay 1.
NC1	: Normally closed output relay 1.
NA2	: Normally open output relay 2.
C2	: Common relay 2.
NC2	: Normally closed output relay 2.
P	: Panic output.
-	: Negative.
PL1	: Input for exterior button relay 1.
PL2	: Input for exterior button relay 2.

DESCRIPTION OF THE CODED MODULE

Description of the JP1 jumper:



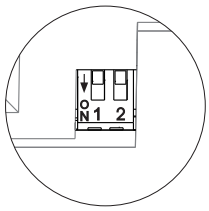
The JP1 jumper, located on the right-hand side of the connection block, activates the tamper alarm.

Normal operation, alarm not activated.

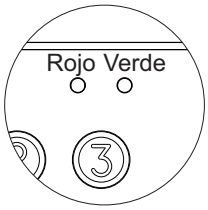
Tamper alarm mode activated. In this mode, the module's keypad operation and external buttons are disabled. The LEDs and the keypad's backlight are turned off and a constant audible alarm and the “P” panic output of the open collector (3 seconds every minute) are activated. Alarm mode ends when the JP1 jumper is replaced.

Description of the SW1 DIP switch (no function):

The SW1 DIP switch is located on the left-hand side of the module.
In this operating mode, the SW1 DIP switch has no function.



Description of the self-testing LEDs:



The self-testing LEDs are located on the top right-hand side of the front of the module.

	Operation	Red LED	Green LED
Standby	Normal	On	Off
	Lock	Rapid blink	Off
	Correct code	On	On (1 second)

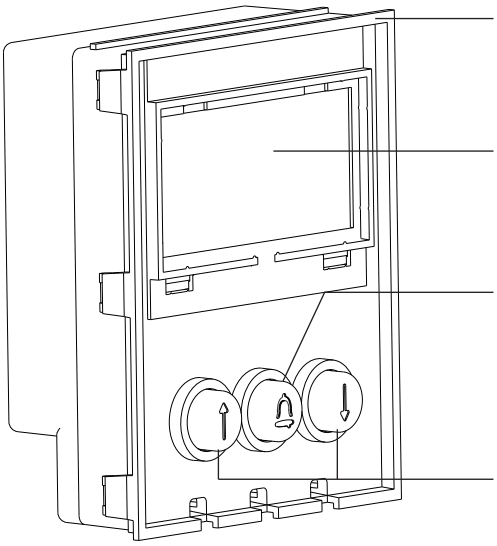
Description of the beeps:

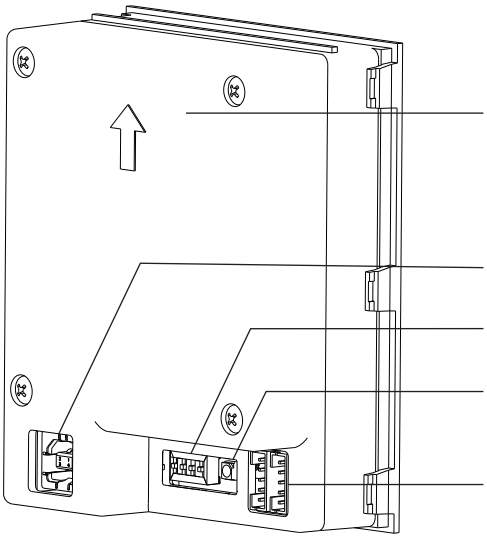
The access control module features an internal beeper for reproducing operation beeps.

Operation	Duration
Error	1 long beep (1 sec)
Key press	1 rapid beep
Alarm activated	1 constant beep
Correct code	2 rapid beeps

DESCRIPTION OF THE DISPLAY MODULE

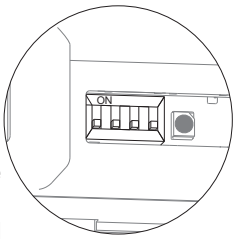
Description of the N3403/AL - NX3403 display module:



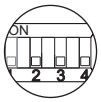


Description of the display module's SW1 DIP switch:

The SW1 DIP switch is located at the bottom on the back of the module.



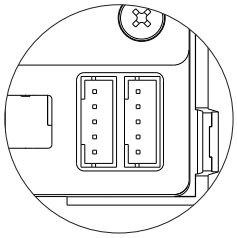
Use to reset the special administrator PIN to the factory code (see p. 128).
Proceed as follows: Firstly, set dip switch 1 to ON, the module will show the message RESET PIN, and then set the dip switch to OFF (the pin has now been reset to the factory code). **Bear in mind the number of digits in the configured code** (see p. 133). If the module was locked during this process, it will also unlock the display module.



Dip switches 2, 3 and 4 have no function.

DESCRIPTION OF THE DISPLAY MODULE

Description of the Nexa BUS link connector:

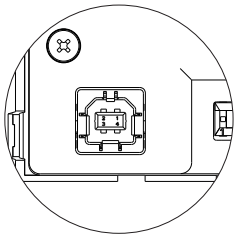


The Nexa BUS link connector is located on the bottom right of the back of the display module.

Connect the cable supplied with the module to other modules using the NEXA Bus:

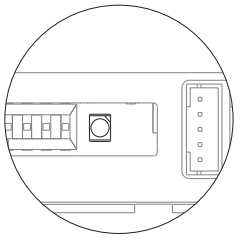
⇨EL632 / EL642: Connect the module to provide the system with a sound module.
⇨N3301/AL: Connect the module to provide the system with access control and a coded door panel.
⇨N3301A/AL: Connect the module to provide the system with an alphabetic panel.
⇨EL3002: Connect to the bus to power information panels (maximum 6 units).
⇨CD-NEXA/BT: Connect the module to provide the system with a wireless configuration interface.

Description of the USB connector:



The USB connector enables the door panel to be programmed through the USB port of a computer. To do so, it is necessary to download the MEMEDIT 5 program from the documentation page https://doc.golmar.es. This program can be used to programme the door panel and back up installations to enable the restoring of devices whose memories, due to error or fault, have been damaged.

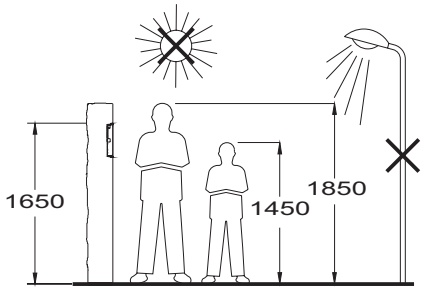
Description of the USB connection LED indicator:



The USB connection LED lights up once the computer has detected the module via the USB interface. It is necessary to install the MEMEDIT 5 program and follow the installer instructions. If everything has been set up correctly, the LED will light up every time the module is connected to the computer via USB.

INSTALLATION OF THE DOOR PANEL

Location of the embedding box:



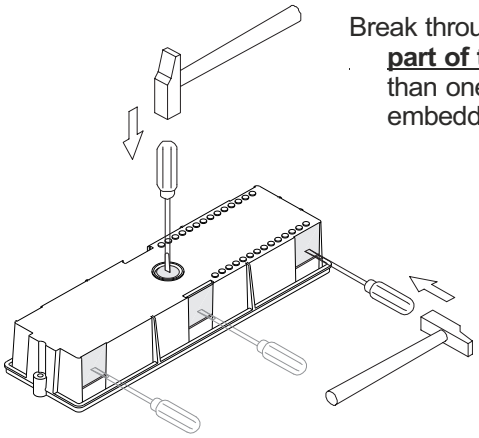
Make a hole in the wall to position the top of the door panel at a height of 1.65m.
Hole dimensions depend on the type of door panel.

Modules Model	1 NCEV90CS	2 NCEV90C	3 CEV90
W	99	99	99 mm.
H	135,5	238	328 mm.
D	40	56	56 mm.

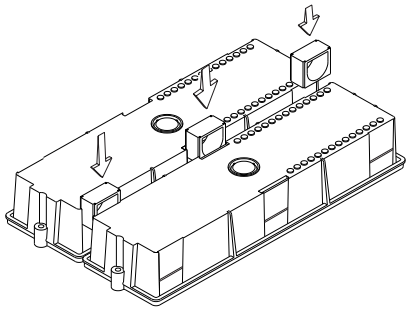
The door panel has been designed to be used under most environmental conditions. It is however advisable to take extra precautions to prolong its service life (shields, covered areas, etc.).
To obtain optimum video door entry system image quality, avoid direct contact from light sources (sunshine, street lights, etc.)

INSTALLATION OF THE DOOR PANEL

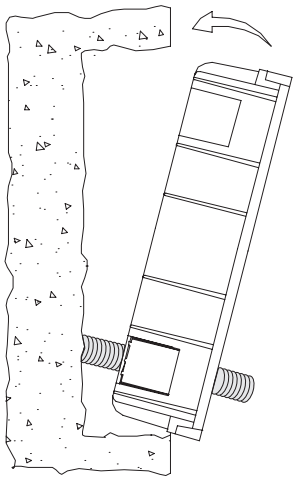
Preparing the cable entry:



Break through the hole to allow **entry of cables through the bottom part of the embedding box.** In the case of door panels with more than one embedding box, break through the side holes and join the embedding boxes using cable grommets.



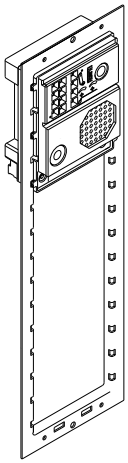
Fitting the embedding box:

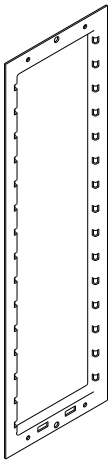


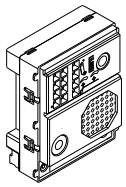
Pass the cable through the hole made in the embedding box. Embed the box and ensure that it is level and flush. Once the embedding box is positioned, remove the protective stickers from the door panel's fixing holes.

Mounting the electronic modules:

Insert the sound module into the top of the frame module.
Line up the clips on the sound module with the respective housings on the frame module and then press gently until correctly positioned.



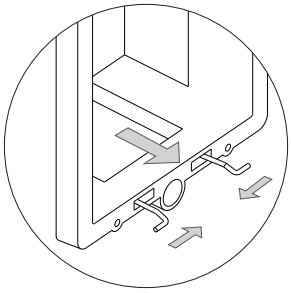




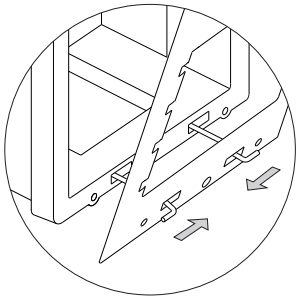
Sound module
EL632/PLUS
EL642/PLUS
EL632/R5
EL642/R5

INSTALLATION OF THE DOOR PANEL

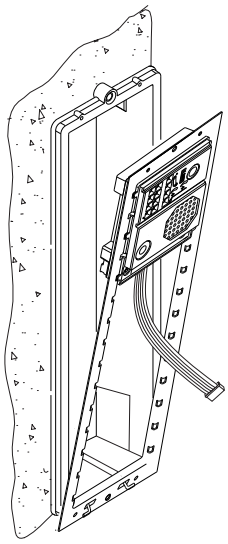
Fastening the frame to the embedding box:



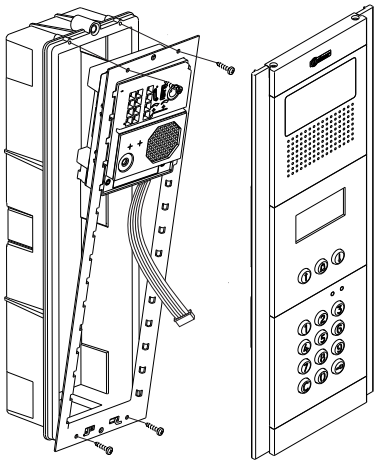
Insert the spring hinge which attaches to the product in the embedding box, as shown in the drawing.



To fasten the frame to the embedding box, insert the spring hinge into the housings provided for this purpose in the frame, as shown in the drawing.

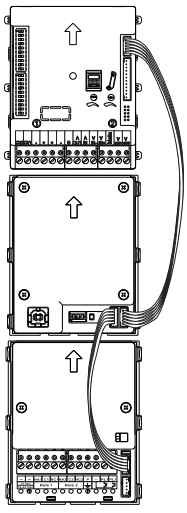


The frame can now be tilted horizontally to enable connection and setting of the sound module, viewer module and access control module. Connect the Nexa Bus link hose to the sound module and the other modules as shown in the following section.



Nexa Bus connection:

Once the wiring and configuration work is done, fix the frame to the embedding box using the screws supplied. Then place the coded module into the frame to make the Nexa Bus link connection between the sound module, viewer module and coded module as indicated in the following point.

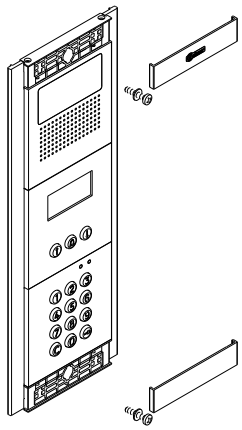


Insert one end of the Nexa Bus link hose supplied with the product into the sound module connector and the other end into either of the two connectors situated on the bottom right of the N3403/AL display module. Connect the N3301/AL coded module in the same way.

NOTE: <u>Only the EL632 or EL642 sound module</u> should be connected to the power supply unit. The N3301/AL coded module receives power once it has been connected to the sound module via the Nexa BUS link connector. See p. 161 for the wiring diagrams.

INSTALLATION OF THE DOOR PANEL

Closing the door panel:



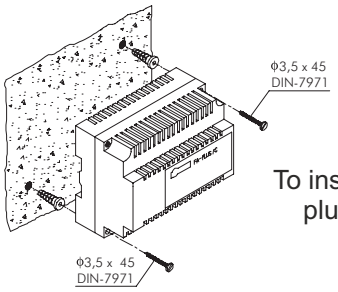
Fix the door panel to the embedding box using the screws supplied.

To complete the fitting of the panel, attach the clip-on covers by positioning one end and then applying slight pressure to the other end until they clip into place.

INSTALLATION OF THE POWER SUPPLY UNIT

FA-PLUS and FA-PLUS/C power supply installation drawing:

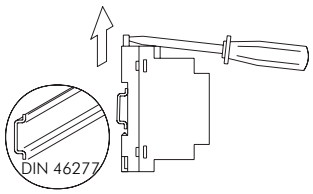
Install the power supply unit in a dry and protected place free from the risk of water leaks or sprays.
To prevent electric shock, do not remove the protective cover of the primary or handle the wiring.
The fitting and handling of this device must be carried out by authorised personnel in the absence of electrical current.
To avoid damage, the power supply unit must be firmly secured in place.



Please note that current regulations stipulate that the power supply must be protected by a circuit breaker. Connect the FA-Plus power supply unit to the earth connection.

To install the power supply unit directly on the wall, drill two holes of Ø6mm and insert the wall plugs. Fix the power supply unit using the specified screws.

The power supply unit can be installed on a DIN 46277 rail by applying slight pressure.
To remove the power supply unit from the DIN rail, use a flat screwdriver to lever it off, as shown in the drawing.
The FA-Plus/C model requires 6 elements on the DIN rail and the FA-Plus model 10.



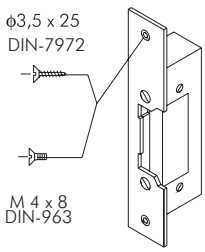
IMPORTANT: the maximum number of units that can be connected to FA-Plus/C and FA-Plus power supply unit is 10 and 50, respectively.

Replace the protective cover once the input terminals have been wired.

INSTALLATION OF THE LOCK RELEASE

Lock release

If the lock release is to be fitted to a metal door, use a Ø3.5mm drill bit and thread the hole made. For wooden doors, use a Ø3mm drill bit.



IMPORTANT: the access control module is supplied with two varistors. If connecting an AC lock release to one of the outputs, fit the varistor supplied directly to the lock release terminals to ensure that the module functions correctly.

DOOR PANEL OPERATION

Description of door panel operation:

Door panel in standby mode.

With the door panel in standby mode, the following operations can be performed:

Activation of external push buttons: Allows activation of relay outputs 1, 2 and 3 by means of external push buttons PL1, PL2 and AP respectively.
The PL1 and PL2 buttons can be configured by means of programming to activate and deactivate the output by pressing the button or to activate the output by pressing the button and deactivate after a period of between 1 and 99 seconds.

With the keypad:

Special default codes: (bear in mind the number of digits in the code).

Administrator pin: 271800. 2718 if the number of digits configured = 4.
CP1 button code: 111100. 1111 if the number of digits configured = 4.
CP2 button code: 222200. 2222 if the number of digits configured = 4.
Unlocking code: 333300. 3333 if the number of digits configured = 4.
User pin: 444400. 4444 if the number of digits configured = 4.

Opening through the user pin: Allows activation of the outputs (relay 1/relay 2/relay 3/panic) associated with the existing user in the residents list. Press the key button, followed by the user pin.

"key button" + "user pin".

Administration pin: Enables entry into the door panel's programming mode and programming of monitors and/or telephones. Also enables the door panel to be unlocked if previously locked. Press the key button three times and then enter the administrator or user pin.

"key button" + "key button" + "key button" + "admin pin".
"key button" + "key button" + "key button" + "user pin".

CP1 button code: Enables or disables external button PL1 and/or PL2 associated with the CP1 code. Press the key button three times and then enter the CP1 code.

"key button" + "key button" + "key button" + "CP1 code".

CP2 button code: Enables or disables external button PL1 and/or PL2 associated with the CP2 code. Press the key button three times and then enter the CP2 code.

"key button" + "key button" + "key button" + "CP2 code".

Unlocking code: Allows the module to be unlocked only if it has previously been locked. Press the key button three times and then enter the unlocking code.

"key button" + "key button" + "key button" + "unlocking code".

Change user pin: Allows users to change their own codes. Does not modify the outputs (relay 1/relay 2/relay 3/panic) associated with the user. Press the key button twice, followed by the current user pin, then press the key button again, followed by the new user pin, and then press the key button a final time. The new user pin must have the same number of digits as the current user pin and cannot be the same as an existing user pin.

"key button" + "key button" + "current user pin" + "key button" + "new user pin" + "key button".

Call to monitors and telephones: This enables calls to be made to monitors and/or telephones connected to the same installation. Press the monitor or telephone code followed by the bell button.

"monitor/telephone code" + "bell".

Calls to monitors and telephones through the residents list: This enables calls to be made to monitors and/or telephones connected to the same installation. Search for the resident using the arrow keys and press bell to make the call.

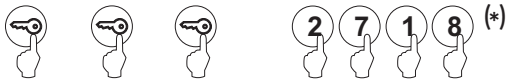
"Search resident using arrows button" + "bell".

PROGRAMMING THE DOOR PANEL

Viewer module programming entry and exit:

To enter programming mode, press the key button three times and then enter secret administrator pin “271800”.(*)

Key button + key button + key button + administrator pin.



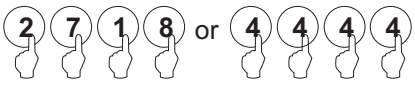
To exit programming mode, press the C button (cancel) once if it is in a programming field or twice if not.
If, after 15 minutes, no key has been pressed, it exits programming mode.

(*)**Important:**
Bear in mind the number of digits in the configured code (factory setting 2718 = 4).

Configuration menu

To configure system settings, go to the programming menu. The menus marked with an **asterisk** must be configured for the system to function properly. There are two programming menus: **administrator**, which allows all system settings to be modified, and **user**, which only allows changes to settings that do not affect system operation. Programming settings with black text on a white background are available in both programming menus; settings with white text on a black background are only available in the administrator menu.
Completion of residents list entries is not necessary for door panel operation, as long as the 2nd call table option is deactivated.
To scroll through the options of the various menus, use the arrows. In any of these menus, option changes are saved every time the 🔔 button is pressed, regardless of whether the Ⓒ button is then pressed. Use the Ⓒ button to exit the programming menu and save the changes.

To enter configuration mode, press the key button three times and then enter the secret administrator pin (factory code 2718) or user pin (factory code 4444)



Enables the system's configuration settings to be changed. To access the configuration menu, press 🔔 . Page 130.

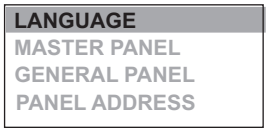
Allows the access control settings to be configured. To access the access control menu, press 🔔. Page 136.

Allows the resident list settings to be configured. To access the resident list menu, press 🔔. Page 141.

PROGRAMMING THE DOOR PANEL

System settings menu

To access the configuration menu, follow the steps described on p. 129 and press Ⓐ when the SYSTEM CONFIG message lights up.



Enables the language for on-screen messages and configuration menus to be selected. To change the language, press Ⓐ to find the correct language.

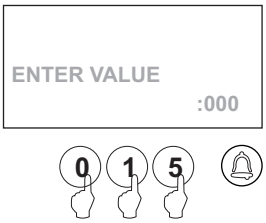
Determines whether the door panel is master or slave. Each system must have only one master door panel; the others must be slaves. In systems with a general entrance door panel, set one door panel from each building as the master. To change the value, press Ⓐ.

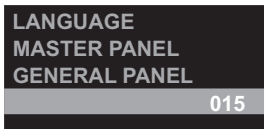
If it is a general entrance door panel in a residential complex, select the option YES. To change the value, press Ⓐ.

Determines the building code. In buildings with more than one door panel, set the same code for all of the panels; in systems with a general entrance door panel, set code 0 for the general entrance door panel and a different code for each inner door panel (between 1 and 255).

To change the value, press Ⓐ and the message ENTER VALUE will appear; enter the building code using the numeric keypad and confirm by pressing Ⓐ. Press Ⓒ to restore the previous value.

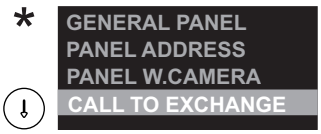
Note: To enable the guard unit to identify the general entrance door panel making the call, consult our technical support services.





Determines whether the door panel is an electronic audio or video door entry system.

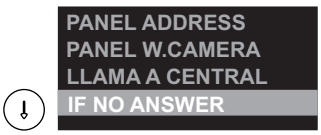
To change the value, press Ⓐ.



Enables calls made from the door panel to be initially directed to the guard unit (if any).

For the function to take effect, the guard unit needs to have the door panel capture function activated.

To change the value, press Ⓐ.



Enables calls made from the door panel that go unanswered and are not captured by the guard unit to be diverted to a second monitor in the system. The monitor's call code must be indicated.

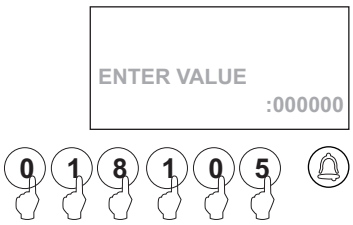
Note: If configured as a general entrance door panel, the call code is composed of the inner building code and three-digit monitor address; if not configured as a general entrance door panel, only the three-digit monitor address needs to be entered.

Continued overleaf

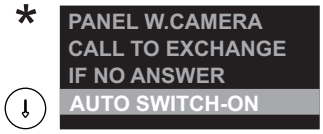
PROGRAMMING THE DOOR PANEL

Continued from previous page

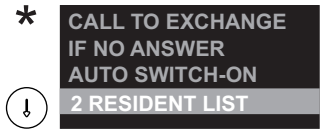
System settings menu



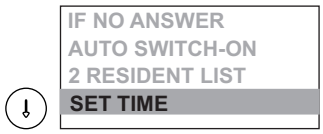
To change the value, press Ⓐ, enter the **monitor/telephone code** and then press the Ⓐ button to save the changes.
Press the Ⓒ button to restore the previous value.



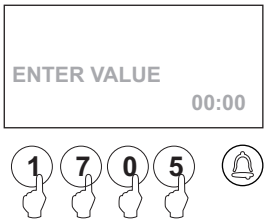
Makes it possible for audio and/or video communication without having been called from the door panel if this function has been enabled.
Ein buildings with several door panels, only activate on one of them; in systems with a general entrance door panel, it can only be activated on the door panels of the inner buildings. To change, press Ⓐ

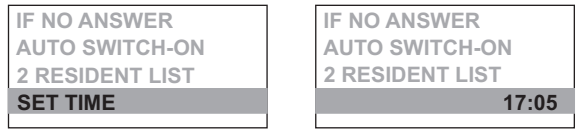


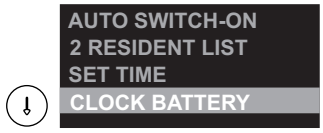
Makes it possible to assign a call code that is different from the actual address of the monitor; this code is defined in RESIDENT LIST: CALL CODE (see p. 141).
To change, press Ⓐ.



The system has an internal clock that displays the time on the keypad screen when the device is in standby. It can also be used to determine whether or not access can be granted by means of a user code set in the REPERTORY: ACCESS CODE (see p. 142).
An internal battery keeps the system's clock running even when the device has been switched off for an extended period of time. The battery can be disabled from this configuration menu in the following option.







Enables the internal battery to be activated for the door panel to keep time. If the option is activated, the system will keep time even when the device has been switched off for an extended period of time.
To change, press Ⓐ.

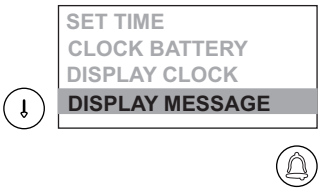
Determines whether the keypad screen displays the clock during standby mode.
To change, press Ⓐ.

Continued overleaf

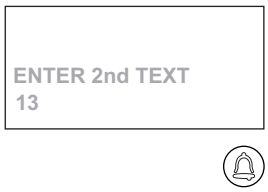
PROGRAMMING THE DOOR PANEL

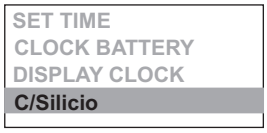
Continued from previous page

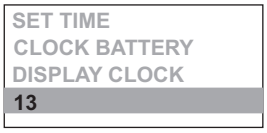
System settings menu



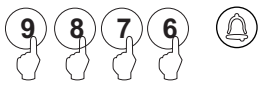
The screen message is displayed on the keypad screen when the device is in standby mode.
This message can be useful for displaying the name or address of the building.
To change the message, press 🔔 and follow the steps described on p. 145.

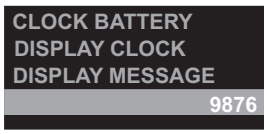




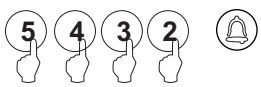


Enables the code for accessing the programming menu to be changed. This code should only be known by the person responsible for maintaining the system; otherwise, any manipulation of the settings could cause the system to stop working.
To change, press 🔔 and the message ENTER VALUE will appear; enter the secret code using the numeric keypad and confirm by pressing 🔔. Press Ⓒ to restore the previous value.
The code must have the same number of digits as the previous one, between 4 and 6, depending on the CODE LENGTH value configurable from this same configuration menu. The factory setting is 4.
Important: For reasons of security, it is advisable to change the administrator pin.





Enables the code for accessing the user menu to be changed (see p. 129).
This code allows changes to be made to settings that do not affect system operation.
To change, press 🔔 and the message ENTER VALUE will appear; enter the secret code using the numeric keypad and confirm by pressing 🔔. Press Ⓒ to restore the previous value.
The code must have the same number of digits as the previous one, between 4 and 6, depending on the CODE LENGTH value configurable from this same configuration menu. The factory setting is 4.

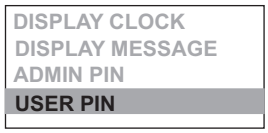


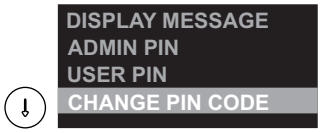
Continued overleaf

PROGRAMMING THE DOOR PANEL

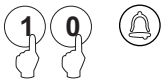
Continued from previous page

System settings menu

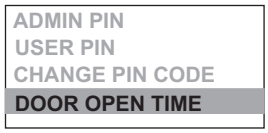


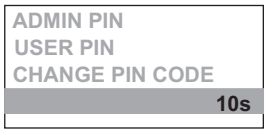


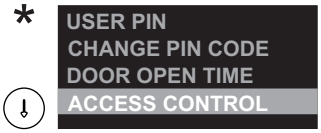
Determines whether users from the RESIDENT LIST (see p. 140) can change their ACCESS CODES (see p. 142).
To change, press Ⓐ.



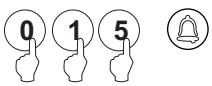
Enables lock release activation time to be selected. This is especially useful to change the value of this setting when the door is at a distance from the door panel. The value is expressed in seconds, with the factory default value set at 3 seconds.
To change the value, press Ⓐ and the message ENTER VALUE will appear; enter the time using the numeric keypad and confirm by pressing Ⓐ.
Press Ⓒ to restore the previous value.
If the value 0 is entered, the door will not open. Do not enter a high time value as this will cause the lock release to overheat.
Note: The DOOR OPEN TIME will be changed for Relay 3 located in the EL632 module



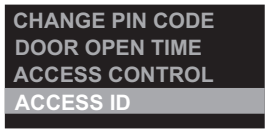


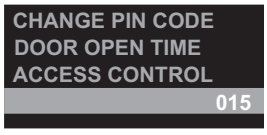


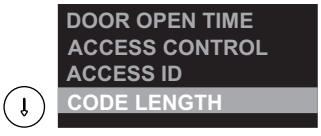
Determines whether ACCESS CONTROL (see p. 136) is activated.
The factory default value is YES.
To change the value, press Ⓐ.



Distinguishes the identification ID of the access control module.
To change the value, press Ⓐ and the message ENTER VALUE will appear; enter the new ID using the numeric keypad and confirm by pressing Ⓐ.
Press Ⓒ to restore the previous value.







Determines the number of digits, between 4 and 6, in the system's codes.
When this setting is increased, 0 is added to the end of the system code; when decreased, digits are removed from the end.
To change the value, press Ⓐ until the required setting is reached.

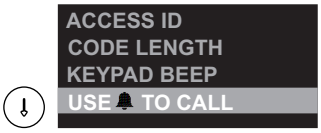
Continued overleaf

PROGRAMMING THE DOOR PANEL

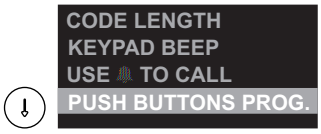
Continued from previous page

System settings menu

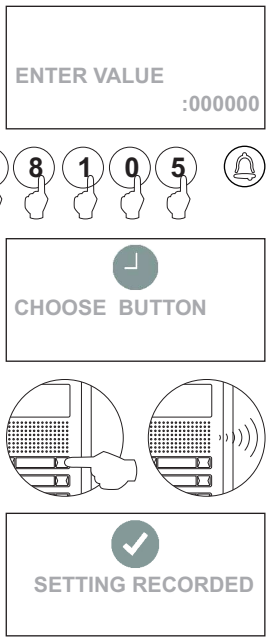
Determines whether the door panel emits tones when the buttons are pressed.
To change, press 🔔.

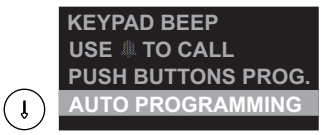


Determines whether it is necessary to press the 🔔 button to make calls to the system's monitors/telephones.
To change, press 🔔.

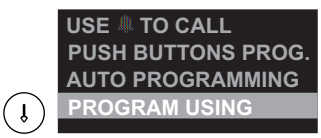


Enables a code to be assigned to a call button on an EL-610D button module, if the door panel features one.
To save a code, press 🔔 and the message ENTER VALUE will appear; enter the code to be assigned to the button, then press 🔔 to save the code. The message CHOOSE BUTTON will then appear; press the call button on the EL-610D module and the message DATA SAVED will appear to indicate that it has been correctly saved.

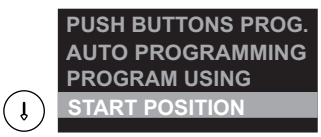




Determines whether the automatic programming process for monitors is activated.
It is necessary to complete the configuration of the options of the PROGRAM USING and START POSITION menu **before** starting the process. **The programming process is shown on p. 135.**
To change, press 🔔.



Determines whether the RESIDENT LIST will be followed, going through the entries one by one, or a numeric INDEX corresponding to the monitor code during AUTO PROGRAMMING.
To change, press 🔔.



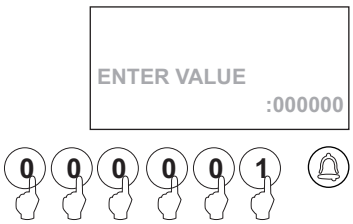
Determines the starting monitor code if PROGRAM USING has INDEX selected or the resident list contact number if PROGRAM USING has REPERTORY selected.
Allows programming to resume from the point set by START POSITION.

Continued overleaf

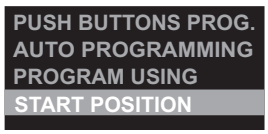
PROGRAMMING THE DOOR PANEL

Continued from previous page

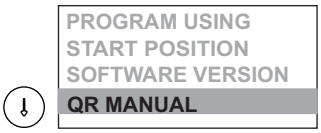
System settings menu



To indicate the starting code or the initial contact number, press Ⓐ and the message ENTER VALUE will appear; enter the monitor code to be assigned or the contact number, then press Ⓐ to save the code.
Note: The first contact in the residents list corresponds to 1.



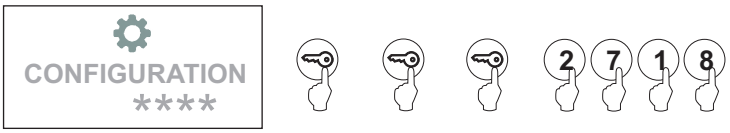
Indicates the door panel's software version.



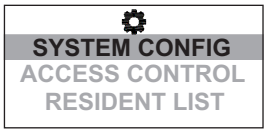
Shows the QR code of the door panel's instruction manual.
To display, press Ⓐ.

To save the changes, press Ⓒ.

Automatic programming mode for monitors and telephones:



To enter configuration mode, press the key button three times and then enter the secret administrator pin (factory code 2718) as described on p. 129.



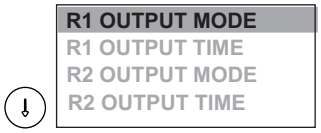
Start the monitor or telephone programming process as described on p. 150 and p. 154 or p. 158 and p. 160 respectively, with the difference that, in this process, the door panel will automatically assign the code to the monitor/telephone without having to interact with the door panel. Once assigned and saved, the monitor/telephone will emit a number of confirmation tones. It is not necessary to interact with the door panel.
Repeat the programming process for all of the system's monitors/telephones.
To complete the process, press Ⓒ.

Note: If the process is not completed, it can be resumed by changing the START PROG setting and entering the required value.
Important: It is necessary to set AUTOMATIC PROG. to YES, as well as PROGRAMME WITH and START PROG. before starting the process (see p. 134).

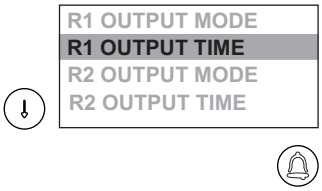
PROGRAMMING THE DOOR PANEL

Access control menu

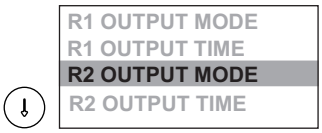
To access the access control menu, follow the steps described on p. 129 and press Ⓐ when the ACCESS CONTROL message lights up.



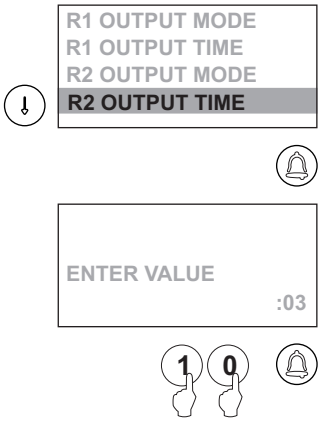
Determines whether the behaviour of relay 1 (located on the N3301/AL module) will be IMPULSE or STABLE.
To change, press Ⓐ.



Determines the time in seconds that relay 1 (located on the N3301/AL module) will be active if it is configured as IMPULSE. Between 01 and 99 seconds can be selected.
To change the time, press Ⓐ and the message ENTER VALUE will appear; enter the time to be assigned to relay 1 and confirm by pressing Ⓐ.
Press the Ⓒ button to restore the previous value.



Determines whether the behaviour of relay 2 (located on the N3301/AL module) will be IMPULSE or STABLE.
To change, press Ⓐ.



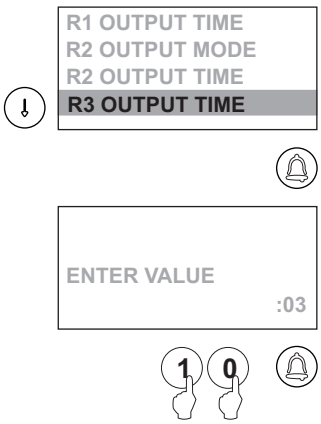
Determines the time in seconds that relay 2 (located on the N3301/AL module) will be active if it is configured as IMPULSE. Between 01 and 99 seconds can be selected.
To change the time, press Ⓐ and the message ENTER VALUE will appear; enter the time to be assigned to relay 2 and confirm by pressing Ⓐ.
Press the Ⓒ button to restore the previous value.

Continued overleaf

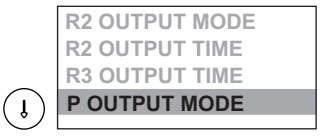
PROGRAMMING THE DOOR PANEL

Continued from previous page

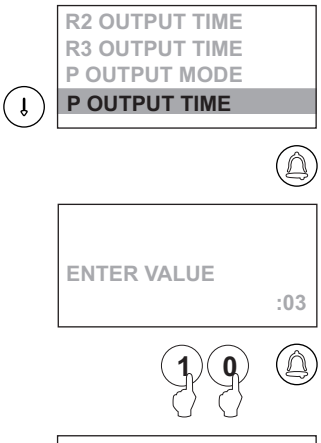
Access control menu



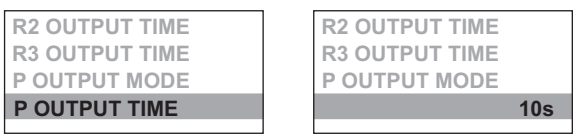
Determines the time in seconds that relay 3 (located on the EL632 / EL642 module) will be active. This corresponds to the CV1 CV2 output and will always be configured as IMPULSE. Between 01 and 99 seconds can be selected.
To change the time, press Ⓐ and the message ENTER VALUE will appear; enter the time to be assigned to relay 3 and confirm by pressing Ⓐ .
Press the Ⓒ button to restore the previous value.

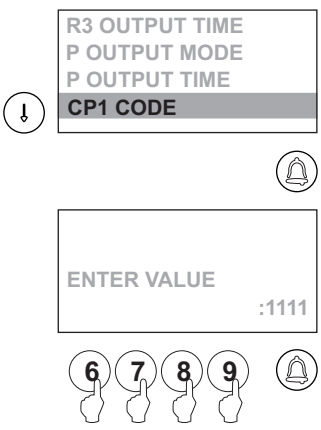


Determines whether the behaviour of panic output P (located on the N3301/AL module) will be IMPULSE or STABLE.
To change, press Ⓐ.



Determines the time in seconds that panic output P (located on the N3301/AL module) will be active if it is configured as IMPULSE. Between 01 and 99 seconds can be selected
To change the time, press Ⓐ and the message ENTER VALUE will appear; enter the time to be assigned to panic output P and confirm by pressing Ⓐ.
Press the Ⓒ button to restore the previous value.
.





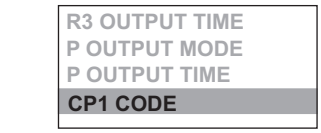
Enables the code to activate or deactivate the P1 or P2 button (located on the N3301/AL module) to be changed depending on the configuration of CP1 MODE.
To change, press Ⓐ and the message ENTER VALUE will appear; enter the CP1 code using the numeric keypad and confirm by pressing Ⓐ . Press Ⓒ to restore the previous value.
The code must have the same number of digits as the previous one, between 4 and 6, depending on the NUMBER OF DIGITS value configurable from the SYSTEM SETTINGS menu. The factory setting is 4.

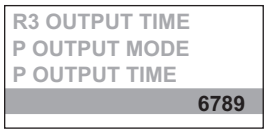
Continued overleaf

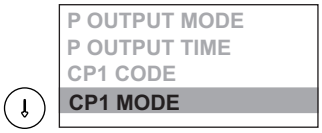
PROGRAMMING THE DOOR PANEL

Continued from previous page

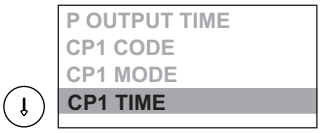
Access control menu



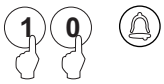


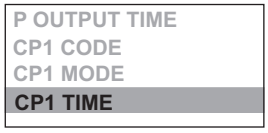


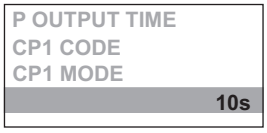
Determines whether the P1 button (located on the N3301/AL module) is activated with the CP1 or CP2 code or always remains activated. So that it is possible to restrict access to output activation buttons P1 and P2 using the code configured in CP1 CODE. To change, press Ⓐ .

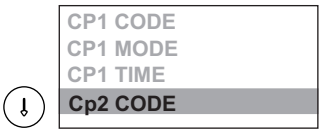


Determines the time in seconds that the output associated with the P1 button (relay R1) will remain activated.
To change the time, press Ⓐ and the message ENTER VALUE will appear; enter the time to be assigned to the output and confirm by pressing Ⓐ .
Press the Ⓒ button to restore the previous value.

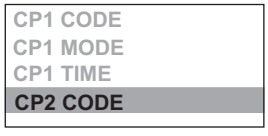


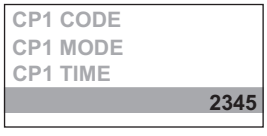


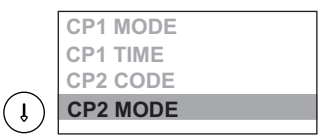




Enables the code to activate or deactivate the P1 or P2 button to be changed depending on the configuration of CP2 MODE.
To change, press Ⓐ and the message ENTER VALUE will appear; enter the CP2 code using the numeric keypad and confirm by pressing Ⓐ . Press Ⓒ to restore the previous value.
The code must have the same number of digits as the previous one, between 4 and 6, depending on the NUMBER OF DIGITS value configurable from the SYSTEM SETTINGS menu. The factory setting is 4.







Determines whether the P2 button (located on the N3301/AL module) is activated with the CP1 or CP2 code or always remains activated. So that it is possible to restrict access to output activation buttons P1 and P2 using the code configured in CP2 CODE.
To change, press Ⓐ.

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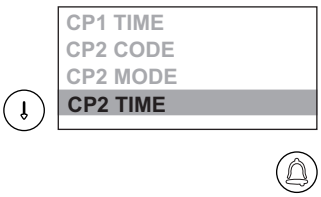
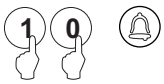
PROGRAMMING THE DOOR PANEL

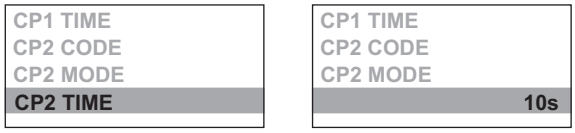
Continued from previous page

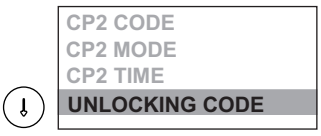
Access control menu



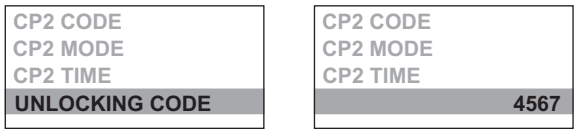
Determines the time in seconds that the output associated with the P2 button (relay R2) will remain activated.
To change the time, press ⓐ and the message ENTER VALUE will appear; enter the time to be assigned to the output and confirm by pressing ⓐ.
Press the ⓒ button to restore the previous value.

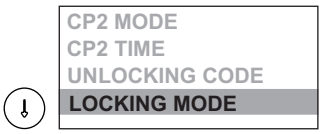




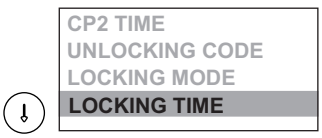


Enables the code for unlocking the door panel to be changed when the wrong access codes are entered and the door panel is locked (defined by the LOCK MODE field).
To change, press ⓐ and the message ENTER VALUE will appear; enter the unlock code using the numeric keypad and confirm by pressing ⓐ. Press ⓒ to restore the previous value.
The code must have the same number of digits as the previous one, between 4 and 6, depending on the NUMBER OF DIGITS value configurable from the SYSTEM SETTINGS menu. The factory setting is 4.

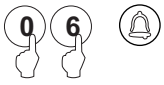




Determines the number of attempts that can be made before access control is locked. Settings range from NEVER LOCK to between 3 and 9 ATTEMPTS.
To change, press ⓐ until the required setting is reached.



Determines the time in minutes that the door panel will remain locked before the access code is restored in the event of a higher number of attempts than that configured in LOCK MODE. Between 3 and 15 minutes can be defined.
To change the time, press ⓐ and the message ENTER VALUE will appear; enter the time to be assigned and confirm by pressing ⓐ .
Press the ⓒ button to restore the previous value.



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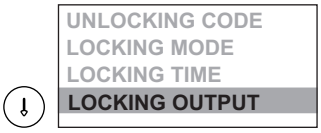
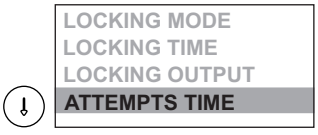
PROGRAMMING THE DOOR PANEL

Continued from previous page

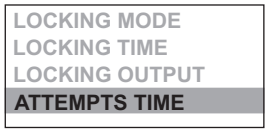
Access control menu

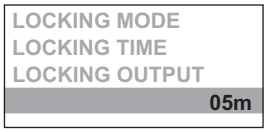


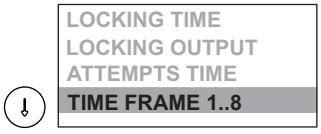
Determines the activation of panic output P (located on the N3301/AL module) while the door panel is locked (the output is activated for 3 seconds every minute the door panel is locked).
To change the value, press Ⓐ .



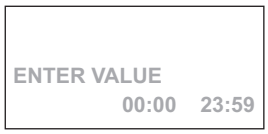
Determines the minimum amount of time that must elapse between failed attempts in order to not lock the access control module. Between 1 and 15 minutes can be selected.
To change, press Ⓐ and the message ENTER VALUE will appear; enter the time between attempts using the numeric keypad and confirm by pressing Ⓐ . Press Ⓒ to restore the previous value.

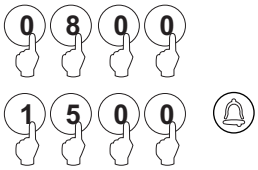


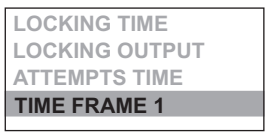


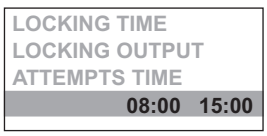


Enables a different time to be set for each time slot. It is possible to define one time slot for each user in the CONTACTS RESIDENTS LIST (see p. 141) from the 8 time slots available. This permits access with a code only during the period indicated by the selected TIME SLOT.
To change, press Ⓐ and the message ENTER VALUE will appear; enter the time slot using the numeric keypad and confirm by pressing Ⓐ .
Press Ⓒ to restore the previous value.







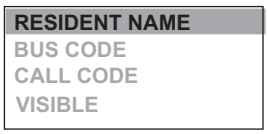


PROGRAMMING THE DOOR PANEL

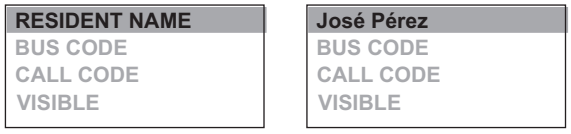
Resident list menu:

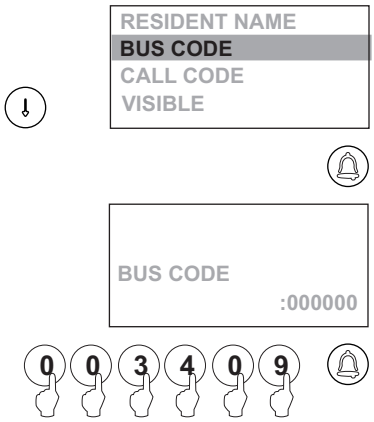
To access the contacts resident list, follow the steps described on p. 129 and press Ⓐ when the CONTACTS RESIDENT LIST message lights up.

Enables a NEW contact to be added to the end of the residents list, which has a capacity for 1,990 contacts. To place a contact in a certain position, use CONTACTS RESIDENT LIST: INSERT.
To add, press Ⓐ.

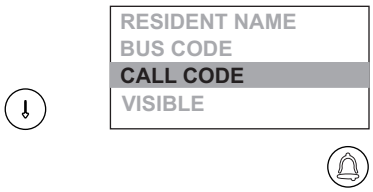


Press Ⓐ to add details to a contact as described on p. 145.
After entering the information, press Ⓐ again to save the NAME of the contact.
Press Ⓒ to cancel the process and no changes will be saved.





Press Ⓐ to assign a monitor code using the numeric keypad.
If the door panel is configured as a general entrance panel, a 6-digit code must be entered: the first three digits relate to the code of the inner building and the last three to the monitor. If the door panel is not configured as a general entrance panel, only the three-digit monitor code needs to be entered.
After entering the information, press Ⓐ again to save the contact's BUS CODE.



Press Ⓐ to assign a 2nd CALL LIST code using the numeric keypad.
If the door panel has 2nd CALL LIST configured with the value YES, a 6-digit code to be used for making calls to this user needs to be entered.
After entering the information, press Ⓐ again to save the contact's CALL CODE.

Continued overleaf

PROGRAMMING THE DOOR PANEL

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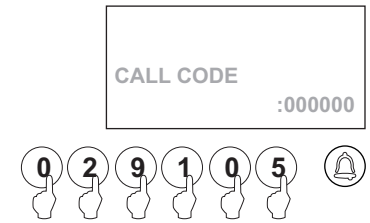
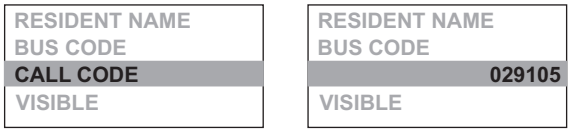
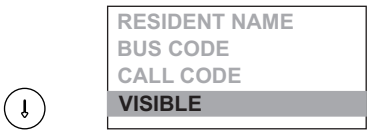
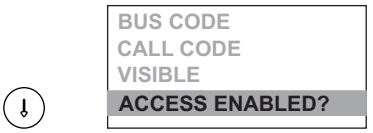
Resident list menu:



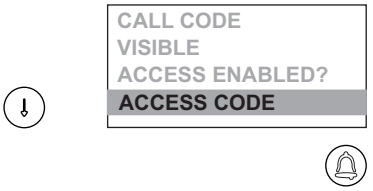




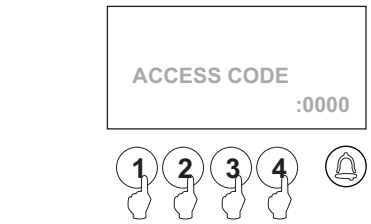
Enables the contact to be made visible in the CONTACTS RESIDENT LIST. The factory default setting is YES.
To change, press Ⓐ.

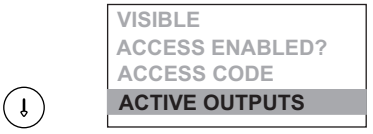


Enables ACCESS CONTROL to be activated for the user. The factory default setting is YES.
To change, press Ⓐ.

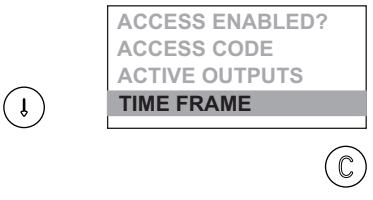


Enables the code (from 0001 to 9999)* that the user will have to activate ACCESS CONTROL to be defined (see p. 136). Using this code, the user can activate the relay outputs configured in the ACTIVE OUTPUTS option.
To change, press Ⓐ and the message ACCESS CODE will appear; enter the access code for the user using the numeric keypad and confirm by pressing Ⓐ. This must be different for each user.
Press Ⓒ to restore the previous value.
(*) Bear in mind the number of digits in the configured code (factory setting= 4, it will be from 0001 to 9999).





Enables the outputs that the user will activate when entering the ACCESS CODE to be defined. The R1, R2 and P outputs located on the N3301/AL module, the R3 output corresponds to the output to the CV1 lock release relay, CV2 of the EL632/EL642 sound module.
To change, press Ⓐ until the required setting is reached.



Enables one of the 8 time slots during which the user will have access using the ACCESS CODE to be defined.
To change the time slots, go to the ACCESS CONTROL option: TIME SLOT 1..8 on p. 140.
To change, press Ⓐ until the required setting is reached.

Press the Ⓒ button to save the contact if changes have been made, otherwise the process will be cancelled.

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PROGRAMMING THE DOOR PANEL

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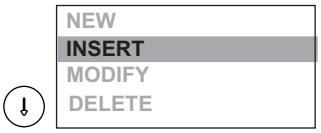
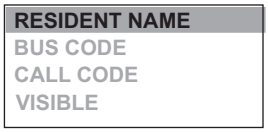
Resident list menu:

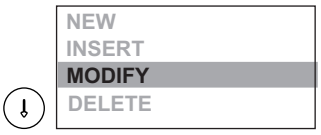


Enables a NEW contact to be inserted into a particular position in the resident list, which has a capacity for 1,990 contacts. To add a contact to the end of the list, use CONTACTS RESIDENT LIST: NEW.
To insert, press 🔔.

Press 🔔 and the first position in the resident list will appear: if there are no entries, the screen will show the message RESIDENT LIST EMPTY. Use the scroll arrows to find the position where the new user will be inserted and press 🔔.
Proceed as shown in the CONTACTS RESIDENT LIST section: NEW.
After inputting the details, the screen will display a DATA SAVED message until the operation has been completed.

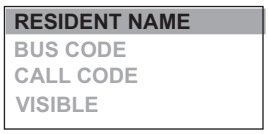


Press the Ⓒ button to save the contact if changes have been made, otherwise the process will be cancelled.

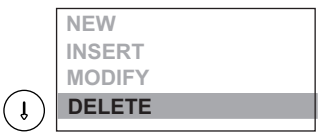


Enables an existing contact to be MODIFIED in a particular position in the resident list, which has a capacity for 1,990 contacts.
To modify, press 🔔.

Press 🔔 and the first position in the resident list will appear: if there are no entries, the screen will show the message RESIDENT LIST EMPTY. Use the scroll arrows to find the contact that requires modifying and press 🔔.
Proceed as shown in the CONTACTS RESIDENT LIST section: NEW.
After inputting the details, the screen will display a DATA SAVED message until the operation has been completed.



Press the Ⓒ button to save the contact if changes have been made, otherwise the process will be cancelled.



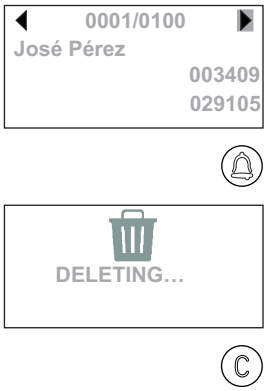
Enables an existing contact to be DELETED from a particular position in the Resident list, which has a capacity for 1,990 contacts.
To delete, press 🔔.

Continued overleaf

PROGRAMMING THE DOOR PANEL

Continued from previous page

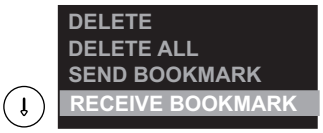
Resident list menu:



Press 🔔 and the first position in the resident list will appear: if there are no entries, the screen will show the message RESIDENT LIST EMPTY. Use the scroll arrows to find the contact that requires deleting and confirm by pressing 🔔.
The message DELETING… will be displayed on the screen for a few seconds and then the following contact will appear. Repeat the process to delete as many contacts as required.
To end the process, press Ⓒ.

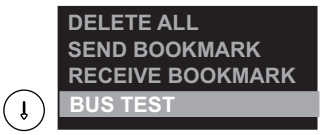
Enables all entries in the RESIDENT LIST to be deleted. Press 🔔 to start the process. When the message CONFIRM DELETION appears, press 🔔 to confirm or Ⓒ to cancel the process.
Note: Once entries are deleted, they cannot be recovered.

Enables resident list data to be sent to another door panel or the guard unit of the same system. Before sending, the receiving device must be in reception mode (see following section).
To start sending, press 🔔. The screen will show the message SENDING… and the sending record number.
After this operation, the devices will exit the configuration menu.



Enables resident list information to be received from another door panel or the guard unit of the same system.
To start receiving, press 🔔 and set the sending device to sending mode (see above). The screen will show the message RECEIVING… and the reception record number.
Before reception, the device deletes the contents of the resident list and displays the message DELETING…
After transfer, the devices will exit the configuration menu.

IMPORTANT: The transfer of entries can only be performed between two points.
DO NOT set more than one device to reception or sending mode.
During transmission, it is normal for other devices connected to the system to enter random operation (call reception, door opening, etc.)..



Enables a test of the monitors associated with the contacts in the resident list to be carried out. Look through the resident list and check that the associated monitor is connected and ready to receive calls.
To start the process, press 🔔.

PROGRAMMING THE DOOR PANEL

Editing with the keypad:

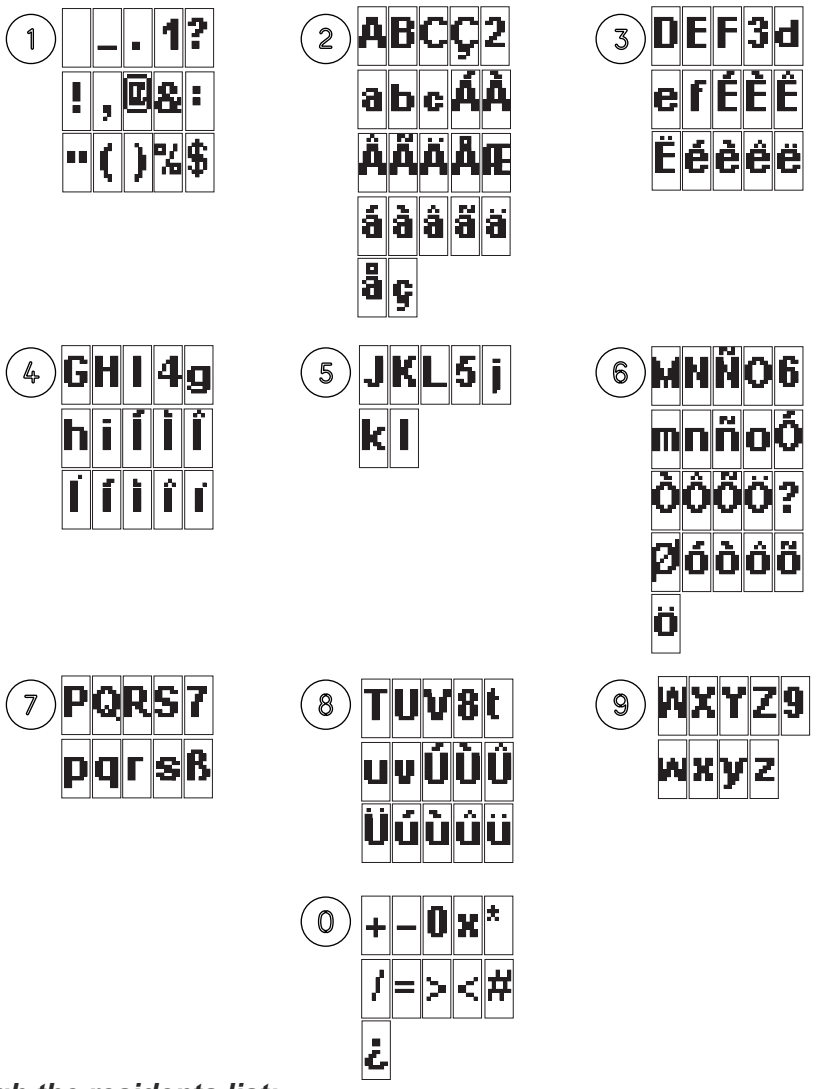
To enter or edit text during programming, use the keys as shown. The maximum number of characters in a line of text is 16.
Characters are entered using the numeric keypad: press the key as many times as necessary to reach the required character according to the table.

Use the arrow buttons to move along the text line.

Use the key button to delete a character located over the cursor and move the following text backwards.

Use the OK button to confirm the entered text. The screen will show the message DATA SAVED.

Use the CANCEL button to exit editing. The changes made will be omitted.



Quick scrolling through the residents list:

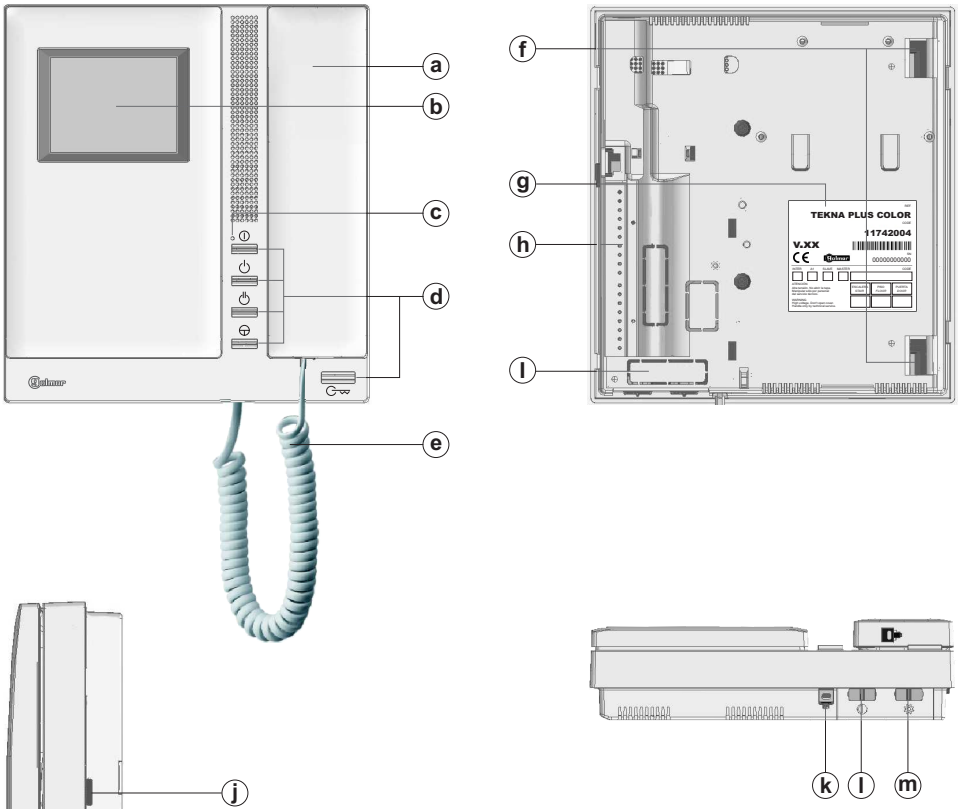
To move quickly through the residents list, simply press the forward arrow followed by the number of entries to jump. Select 0 to jump 10 entries and the key button to jump 100.

Quick scrolling is done in jumps of 5 entries.

To accelerate the search, hold down the arrow key.

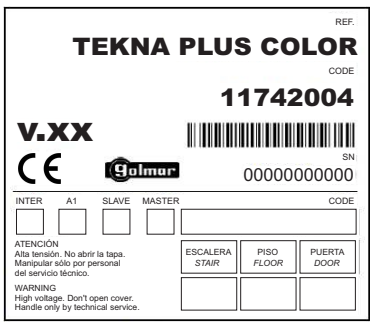
DESCRIPTION OF THE MONITOR

Description of the Tekna Plus monitor:



a. Handset.
b. Colour screen.
c. On-Off light indicator.
d. Function buttons.
e. Telephone cord.
f . Connector fixings.
g. Identification label.
h. Connector connection points.
i . CN4 connector.
j . Three position volume control.
k. Cord connector.
l . Colour control.
m. Brightness control.

Description of the identification label:



To facilitate repair, replacement or the addition of monitors to the existing installation, fill in the label with the relevant information.

MASTER: main monitor.
SLAVE: secondary monitor.
INTER: secondary monitor with intercom function.
A1: monitor connected to an auxiliary device.
CODE: call button code.
STAIR: code of the channel (building).

DESCRIPTION OF THE MONITOR

Function buttons:

Monitor On-Off button. After any monitor reset and during the next 45 seconds, all the monitor functions will be disabled, with the exception of call reception.

With the handset hung up, the second camera is activated (*). With the handset off the hook, an intercom call can be made and the second camera activated (*).

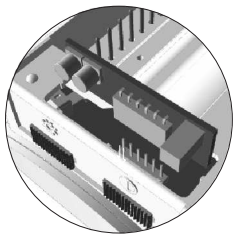
With the handset hung up, the auxiliary device is activated. With the handset off the hook, a call to the secondary guard unit can be made (*) or the auxiliary device activated.

With the handset hung up, the image from the master door panel can be viewed. With the handset off the hook, audio and video communication can be established with the door panel if it has its auto switch-on function activated. This only functions if no communication is in progress.

With the handset hung up, a panic call to the guard units configured to receive such calls is made. With the handset off the hook, a normal call can be made to the main guard unit. During call reception and communication processes, the door release can be activated.

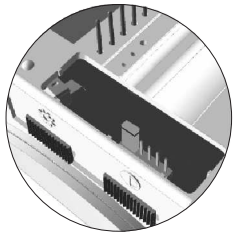
(*) The functions of activating the second camera and calling the secondary guard unit require internal modification of the monitor. If any of these functions are required, contact our technical support service.
Activation of the the second camera disables the intercom function and activation of calls to the secondary guard unit disables the auxiliary device function.

EL562 module for video door entry system installations with twisted pair cable:



Locate the CN4 connector positioned at the bottom of the monitor. Remove the connector jumper and insert the EL562 module.
NOTE: in this type of installation, the SW1-3 DIP switch on the sound module must be set to ON (see p. 117). Use the specific wiring diagram.

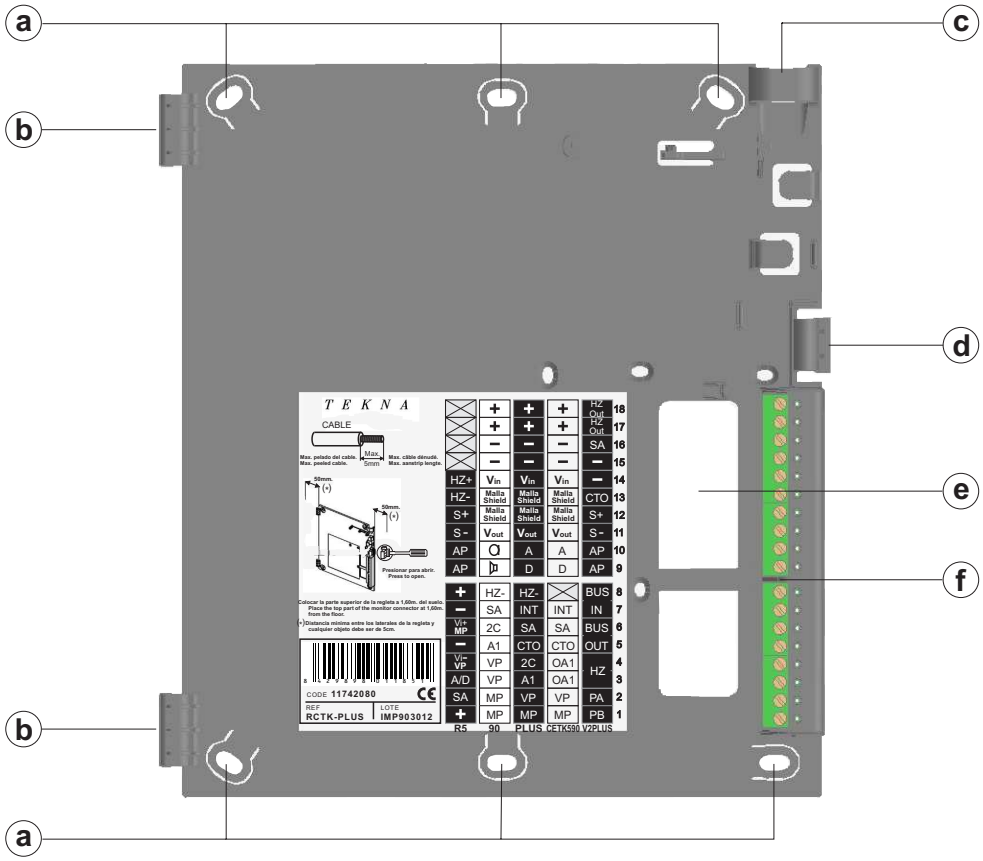
Handling of the end of line jumper:



The end of line jumper is located on the CN4 connector at the bottom of the monitor.
In case of twisted pair cable installations, the end of line jumper is placed in the EL562 module, also located in the CN4 connector of the monitor base.
Do not remove the jumper on monitors where the video cable finish. Remove the jumper on monitors where the video cable continue.

DESCRIPTION OF THE WALL MOUNT CONNECTOR

Description of the RCTK-PLUS wall mount connector:



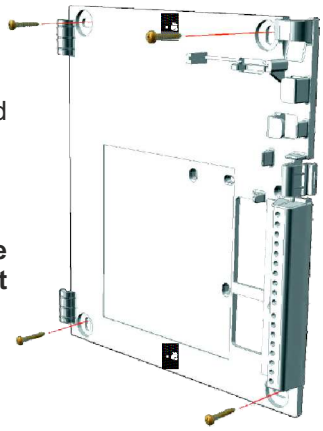
a. Holes for fixing to the wall (x6).
b. Monitor fixing clips (x2).
c. Vertical wiring entry.
d. Fixing clip.
e. Central wiring entry.
f. Connection terminals:

+, –:	positive, negative.
Vin :	video signal coaxial input.
Shield:	coaxial cable shield.
Vout :	video signal coaxial output.
A :	audio communication.
D :	digital communication.
HZ- :	door bell push button input.
INT :	intercom.
SA :	auxiliary calling device output.
CTO :	video distributor activation output.
2C :	2nd camera activation output.
A1 :	auxiliary device activation output.
Vp, Mp :	balanced video signal (via twisted pair).

Terminals +, - and Shield are duplicated to facilitate the cascade connection of other monitors or telephones.
If the monitor is not positioned on the wall mount connector, the cascade connected monitors or telephones will not receive power.

INSTALLATION OF THE MONITOR

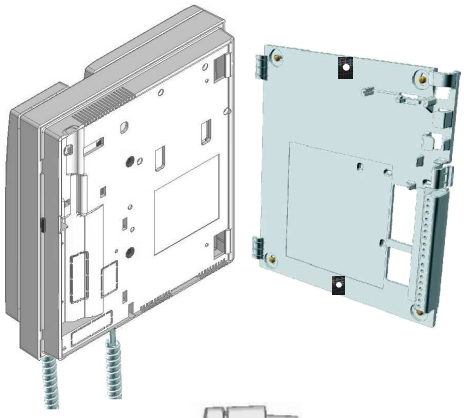
Fixing the monitor's wall mount connection block to the wall:

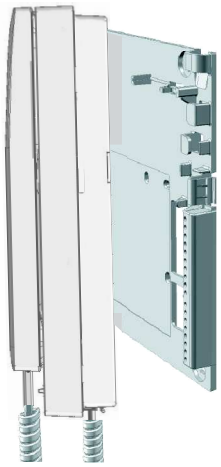


Avoid dusty or smoky environments or locations near sources of heat.
To install the monitor directly over the wall, drill two holes of Ø6mm and use the supplied screws.

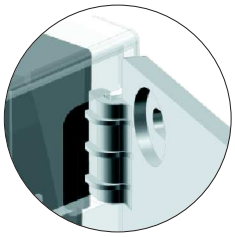
The top of the wall mount connector must be positioned at a height of 1.60m. The minimum distance between the sides of the wall mount connector and the closest object must be 5cm.

Positioning the monitor:





Place the monitor at right angles to the wall mount connector and align the holes on its base with the fixing clips of the connector, as shown in the drawing.



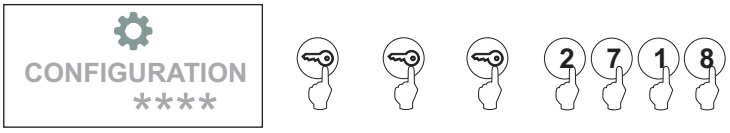
Close the monitor like a book, applying pressure to the right-hand side until the click of the connector's fixing clips can be heard.

To remove the monitor from the connector after installation, use a flat screwdriver to release the fixing clips. Once the monitor has been released, open it like a book and remove it from the connector, making sure that it does not fall.

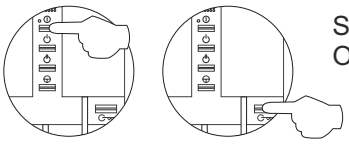
PROGRAMMING THE MONITORS

Programming Tekna Plus monitors:

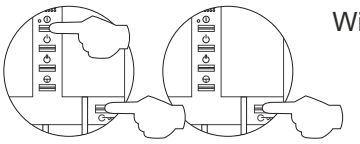
If it is a general entrance door panel in a residential complex, only programme the monitors from their inner door panels, as indicated in the instruction manuals supplied.
If it is an inner door panel in a residential complex or a door panel for a single building, programme the monitors as shown below.



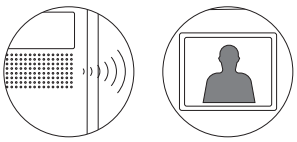
To enter configuration mode, press the key button three times and then enter the secret administrator pin (factory code 2718) as described on p. 129.



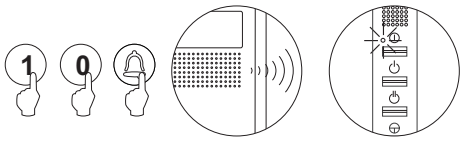
Switch off the monitor to be programmed.
Once the telephone is off, press the door release push button.



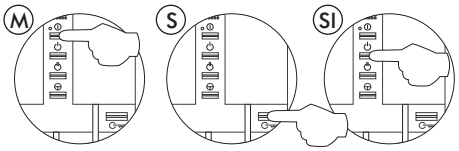
With the door release push button pressed, switch on the monitor.



To show that the system is ready for programming, the door panel will reproduce a sound and the picture will appears on the monitor. At this moment, the door release push button can be released. Lift the handset to establish audio communication with the door panel.



Enter the code of the monitor to be programmed and then press the bell button. At this moment the door panel will reproduce a sound and the monitor led will blink.



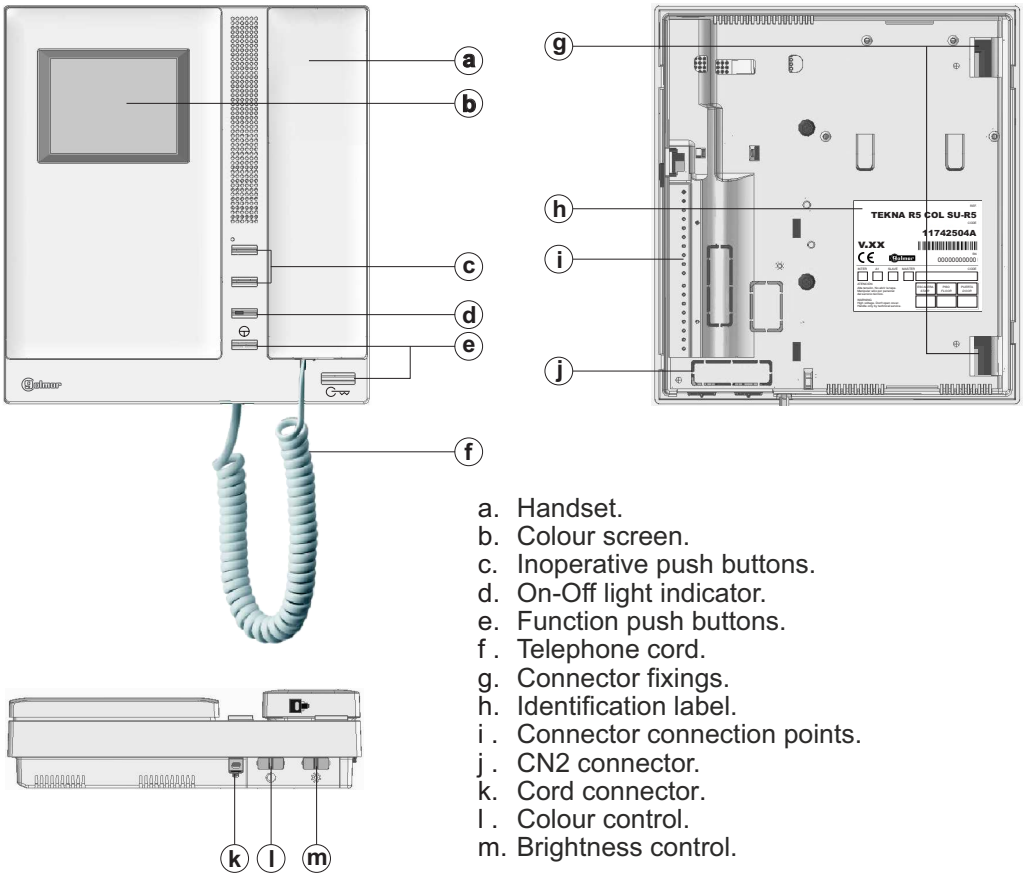
To programme the monitor as the *Master*, switch it off and on again.
To programme it as a *Slave*, press the door release button.
To programme it as a *Slave with intercom*, press the ⏻ button.

<u>Each apartment must only have one master unit</u>; if there are parallel units, whether monitors or telephones, they must be configured as slaves.

Make a call to check that the monitor has been successfully programmed. Programme the other telephones in the same way.
After programming, exit by pressing Ⓒ.

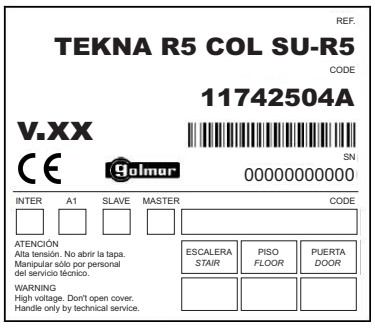
DESCRIPTION OF THE MONITOR

Description of the Tekna R5 monitor:



a. Handset.
b. Colour screen.
c. Inoperative push buttons.
d. On-Off light indicator.
e. Function push buttons.
f . Telephone cord.
g. Connector fixings.
h. Identification label.
i . Connector connection points.
j . CN2 connector.
k. Cord connector.
l . Colour control.
m. Brightness control.

Description of the identification label:



To facilitate repair, replacement or the addition of monitors to the existing installation, fill in the label with the relevant information.

MASTER: Main monitorl.
SLAVE: Secondary monitor.
INTER: Not used.
A1: Not used.
CODE: Call button code.
STAIR: Not used.

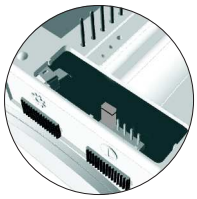
Function push buttons:

With the handset hung up, the image from the master door panel can be viewed. With the handset off the hook, audio and video communication can be established with the door panel if it has its auto switch-on function activated. This only functions if no communication is in progress.

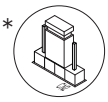
With the handset hung up, hold pressed for 1 second to turn the monitor on or off. For a period of 45 seconds after the monitor is turned on, it will only be able to receive calls.
With the handset off the hook, a call can be made to the main guard unit. During call reception and communication processes, the door release can be activated.

DESCRIPTION OF THE MONITOR

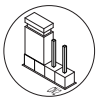
Handling of the end of line jumper:



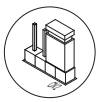
The end of line jumper is located on the CN2 connector at the bottom of the monitor. It has three positions:

* 

Set to the centre position when there are no parallel monitors. (Automatic mode)



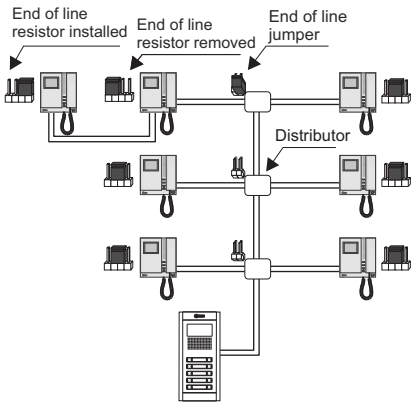
If there is a parallel monitor, set to this position on the first monitor. (Deactivated mode)



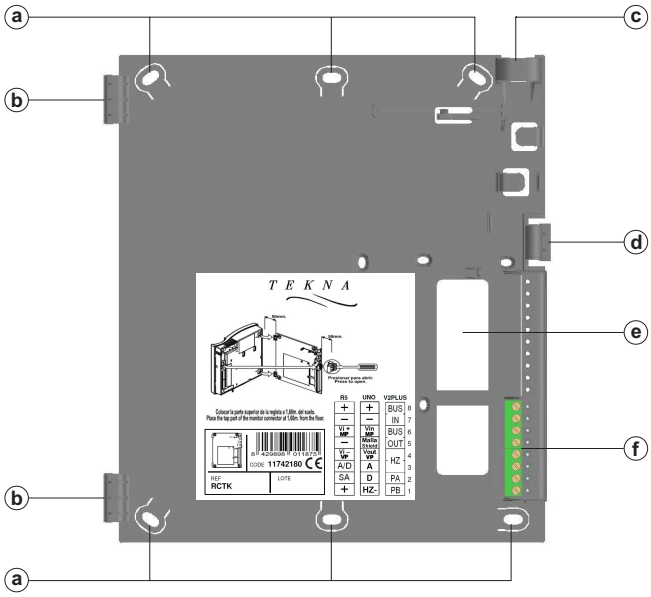
If there is a parallel monitor, set to this position on the last monitor. (Activated mode)

* Factory setting

Example configuration of the end of line jumper in the monitors.



Description of the RCTK wall mount connection block:



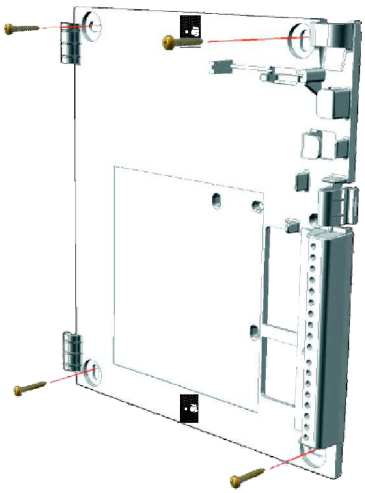
a. Holes for fixing to the wall (x6).
b. Monitor fixing clips (x2).
c. Vertical wiring input.
d. Fixing clip.
e. Wiring input hole.
f. Connection terminals:

+, –: Positive, negative.
Vi + / MP: Video signal MP input.
Vi – / VP : Video signal VP input.
A/D : Audio and digital communication.
SA : Auxiliary call repeater output.

The + and - terminals are duplicated to facilitate the cascade connection of other monitors or telephones.
If the monitor is not positioned on the wall mount connection block, the cascade connected monitors or telephones will not receive power.

DESCRIPTION OF THE MONITOR

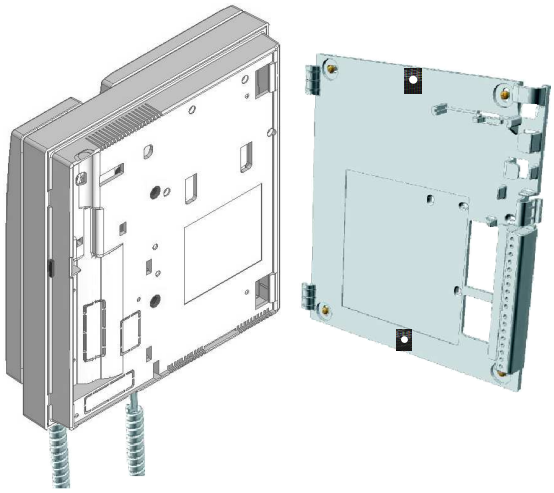
Fixing the monitor's wall mount connection block to the wall:



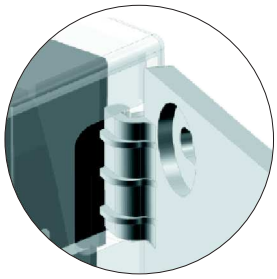
Avoid dusty or smoky environments or locations near sources of heat.
To install the monitor directly over the wall, drill two holes of Ø6mm and use the supplied screws.

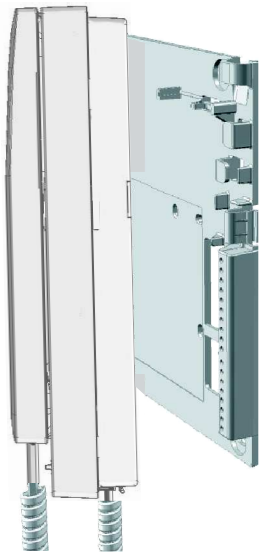
The top of the wall mount connector must be positioned at a height of 1.60m. The minimum distance between the sides of the wall mount connector and the closest object must be 5cm.

Positioning the monitor:



Place the monitor at right angles to the wall mount connector and align the holes on its base with the fixing clips of the connector, as shown in the drawing.



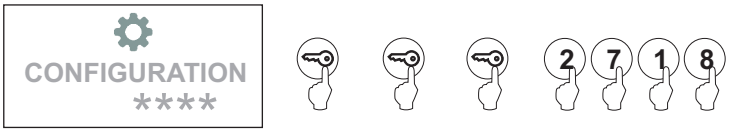


Close the monitor like a book, applying pressure to the right-hand side until the click of the connector's fixing clips can be heard.

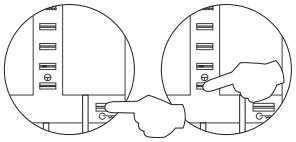
To remove the monitor from the connector after installation, use a flat screwdriver to release the fixing clips. Once the monitor has been released, open it like a book and remove it from the connector, making sure that it does not fall.

PROGRAMMING THE MONITORS

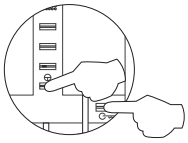
Programming Tekna R5 monitors:



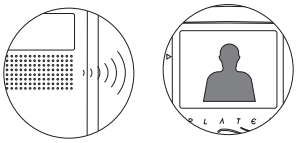
To enter configuration mode, press the key button three times and then enter the secret administrator pin (factory code 2718) as described on p. 129.



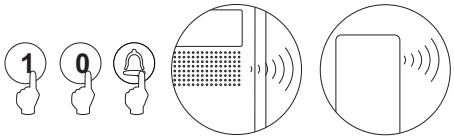
Turn off the monitor to be programmed by holding pressed the door release push button for one second.
Once off, press the auto switch-on button.



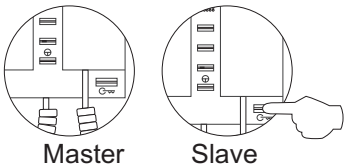
While holding pressed the auto switch-on button, simultaneously press the door release button.



To show that the system is ready for programming, the door panel will emit a tone and the image will appear on the monitor. The push buttons can now be released.
Lift the handset off the monitor.



Enter the code to be called by this monitor and press bell.
At this moment both door panel and handset will emit tones.



With the handset lifted:
If programming the monitor as master, replace the handset.
If programming it as slave, press the door release push button, then replace the handset.

Master Slave

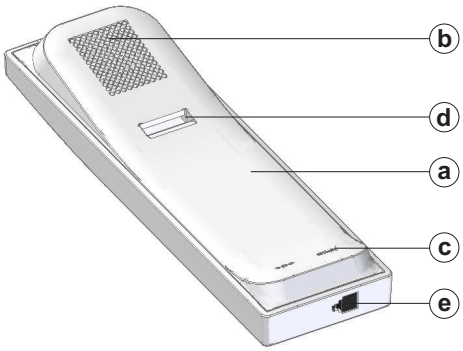
Each apartment must only have one master unit; if there are parallel units, whether monitors or telephones, they must be configured as slaves.

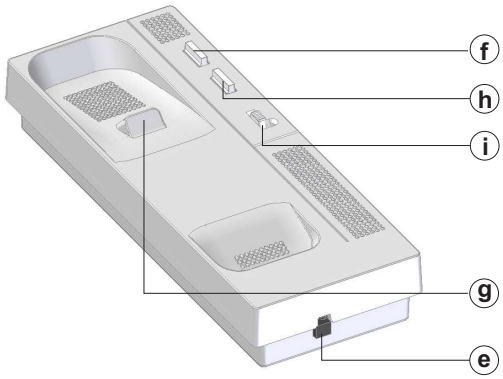
Make a call to check that the monitor has been successfully programmed. Programme the other telephones in the same way.
After programming, press button C.

IMPORTANT:
If the installation has a CD-PLUS/R5 converter with coded panel or guard unit, the programming codes assigned to the monitors must be between 1 and 250. To make it easier for the user to make a call, another parallel code can be assigned in a 2nd assignment table.

DESCRIPTION OF THE TELEPHONES

Description of the T-540 Plus telephone





a. Handset.
b. Speaker grille.
c. Microphone hole.
d. Subjection hole.
e. Telephone cord connectors.
f. Door release push button.
g. Hook switch.
h. Auxiliary function push button.
i. Volume control.

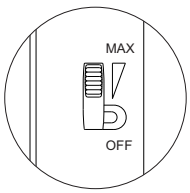
Description of the connection terminals:

+	–	A	D	AI	–	HZ	SA	+	Int	PA

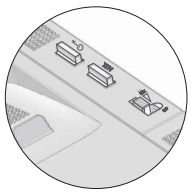
+, - : Positive, negative.
A , D : Audio, digital communication.
AI : Exterior door release push button connection.
HZ : Door bell connection.
SA : SAV-90 call repeater connection.
INT : Intercom function.
PA : Aux. relay activation output. (18Vdc/0.5A max.)

Volume control:

The telephone has a call volume control which can be set to maximum, medium or mute. With the help of the three-position switch located on the front right of the telephone.



Function push buttons:



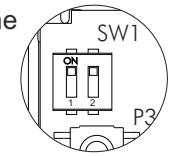
With the handset hung up, a panic call to the guard units configured to receive such calls is made. With the handset off the hook, a normal call can be made to the main guard unit. During call reception and communication processes, it allows lock release activation.

AUX Function button which, depending on the SW1 DIP switch setting, will perform one of the following functions: Auto switch-on, PA output, call to secondary guard unit and intercom.

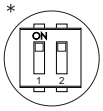
DESCRIPTION OF THE TELEPHONES

Description of the DIP switch:

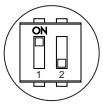
The SW1 DIP switch is located on the top left-hand side of the circuit and is accessible by opening the telephone. It allows the following operating modes for the P2 auxiliary function button:



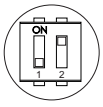
*



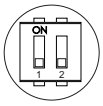
"Auto switch-on" mode: DIP switches 1 and 2 set to ON.
With the handset off the hook and then by pressing the function button, this enables audio communication to be established with the door panel, if it has this function activated, without being called. This only functions if no operation is in progress.



"PA output" mode: DIP switch 1 set to ON and DIP switch 2 set to OFF:
Regardless of the position of the handset and by pressing the function push button, this enables the telephone's "PA" output to be activated.



"Secondary CE call" mode: DIP switch 1 set to OFF and DIP switch 2 set to ON.
With the handset off the hook and then by pressing the function push button, this enables a call to be made to the guard unit configured as secondary.

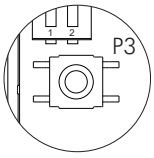


"Intercom" mode: DIP switches 1 and 2 set to OFF.
With the handset off the hook and then by pressing the function button, this enables the intercom function between two points in the same apartment.

IMPORTANT: Select the function mode of the P2 button before programming the telephone.

* Factory setting

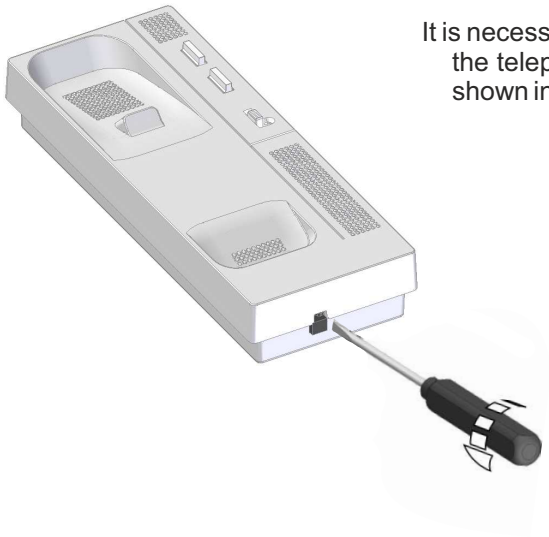
Description of the programming button



The P3 programming button is located on the top left-hand side of the circuit and is accessible by opening the telephone. It enables the telephone to enter programming mode with the door panel (see the programming process on p. 137).

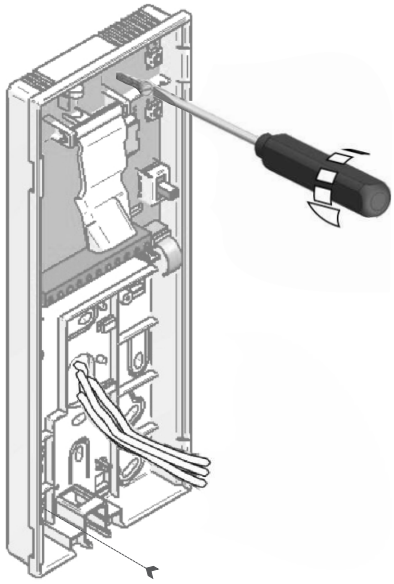
DESCRIPTION OF THE TELEPHONES

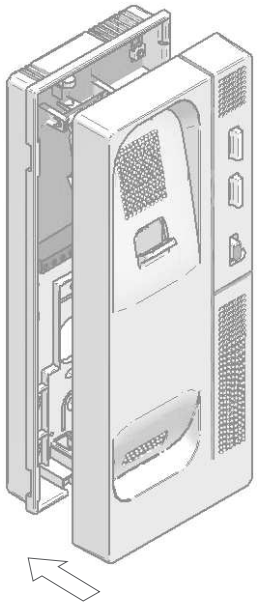
Fixing the telephone to the wall:



It is necessary to open the telephone for wiring and fixing purposes. To open the telephone, insert a flat screwdriver into the slots and gently lever as shown in the drawing.

Avoid dusty or smoky environments or locations near sources of heat. The telephone can be secured using an electrical embedding box or directly to the wall. To secure directly to the wall, drill two 6mm holes at the specified positions using 6mm wall plugs and Ø3.5 x 25mm screws.



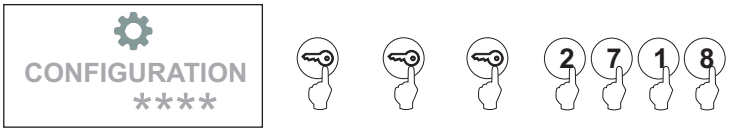


Feed the wires through the holes and connect them to the wall mount connector as per the wiring diagram. Close the telephone as shown in the drawing. Once the telephone is closed, connect the handset using the telephone cord and put it on the cradle.

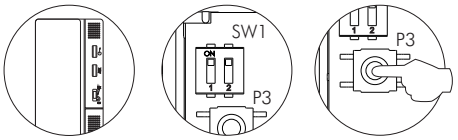
PROGRAMMING THE TELEPHONES

Programming T-540 Plus telephones:

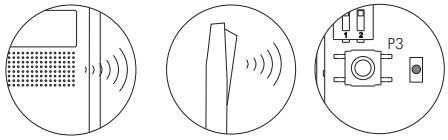
If it is a general entrance door panel in a residential complex, only programme the monitors from their inner door panels, as indicated in the instruction manuals supplied.
If it is an inner door panel in a residential complex or a door panel for a single building, programme the monitors as shown below.



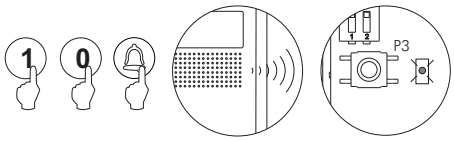
To enter configuration mode, press the key button three times and then enter the secret administrator pin (factory code 2718) as described on p. 129.



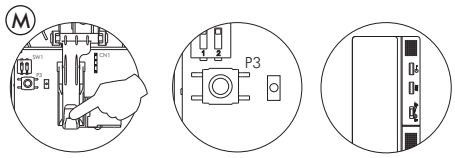
Open the telephone to be programmed (see p. 157). In the SW1 DIP switch, select the P2 button function mode (see p. 156) and then press the P3 programming button.



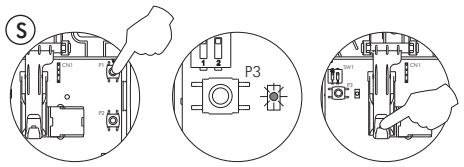
To show that the system is ready for programming, the door panel and the telephone handset will emit a number of tones (the LED on the telephone will light up), enabling audio communication to be established with the door panel.



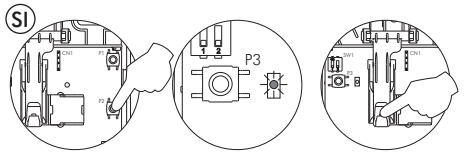
Enter the code of the monitor to be programmed and then press the bell button. At this moment, the door panel and the handset will emit a number of tones (the LED on the telephone will blink slowly).



To programme the telephone as the *Master*, press the hang up button (the LED will go out). *Close the telephone.*



To programme the telephone as the *Slave*, press the P1 lock release button (the LED will blink rapidly), and then press the hang up button (the LED will go out). *Close the telephone.*



To programme the telephone as the *Slave* + *Intercom*, press the P2 function button (the LED will blink rapidly), and then press the hang up button (the LED will go out).
Close the telephone.

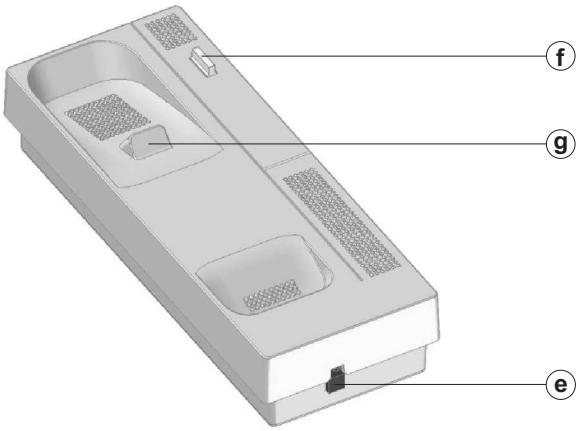
Each apartment must only have one master unit; if there are parallel units, whether monitors or telephones, they must be configured as slaves.

Make a call to check that the telephone has been successfully programmed. Programme the other telephones in the same way.
After programming, exit by pressing ⓒ.

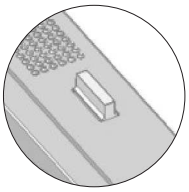
DESCRIPTION OF THE TELEPHONES

Description of the T-530 R5 telephone:

a. Handset.
b. Speaker grille.
c. Microphone hole.
d. Subjection hole.
e. Telephone cord connectors.
f. Function push button.
g. Hook switch.



Function push button:



With the handset off the hook, a normal call can be made to the main guard unit. During call reception and communication processes, it allows lock release activation.

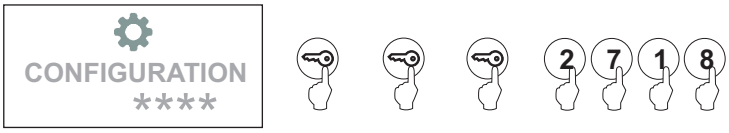
Description of the connection terminals:

+	–	A/D	SA

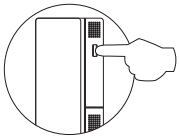
+ , – : Positive, negative.
A/D : Audio and digital communication.
SA : Auxiliary call repeater output.

PROGRAMMING THE TELEPHONES

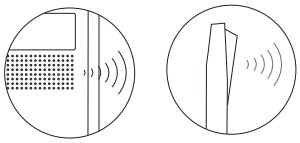
Programming T-530 R5 telephones:



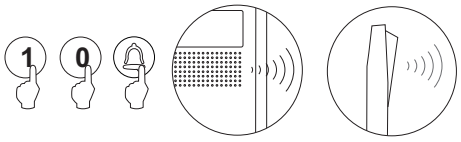
To enter configuration mode, press the key button three times and then enter the secret administrator pin (factory code 2718) as described on p. 129.



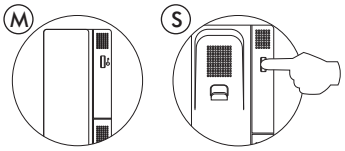
With the door release push button pressed, pick up the telephone's handset.



To show that the system is ready for programming, the door panel and handset will emit a number of tones, and audio communication can be established.
Release the door release push button.



Enter the code to be called by this telephone and press bell.
At this moment both door panel and handset will emit tones.



Master Slave

With the handset lifted:
If programming the telephone as master, replace the handset.
If programming it as slave, press the door release push button, then replace the handset.

Each apartment must only have one master unit; if there are parallel units, whether monitors or telephones, they must be configured as slaves.

Make a call to check that the telephone has been successfully programmed. Programme the other telephones in the same way.
After programming, press button C.

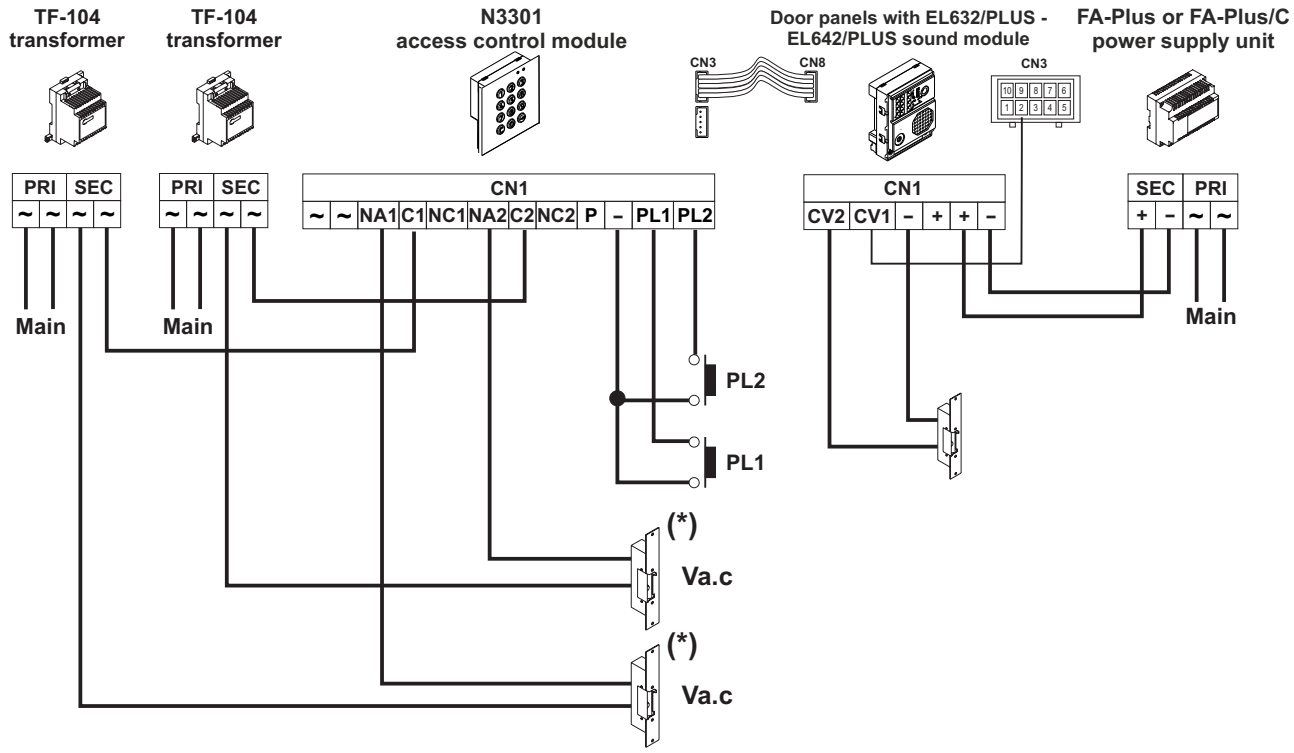
IMPORTANT:
If the installation has a CD-PLUS/R5 converter with coded door panel or guard unit, the programming codes assigned to the telephones must be between 1 and 250. To make it easier for the user to make a call, another parallel code can be assigned in a 2nd assignment table.

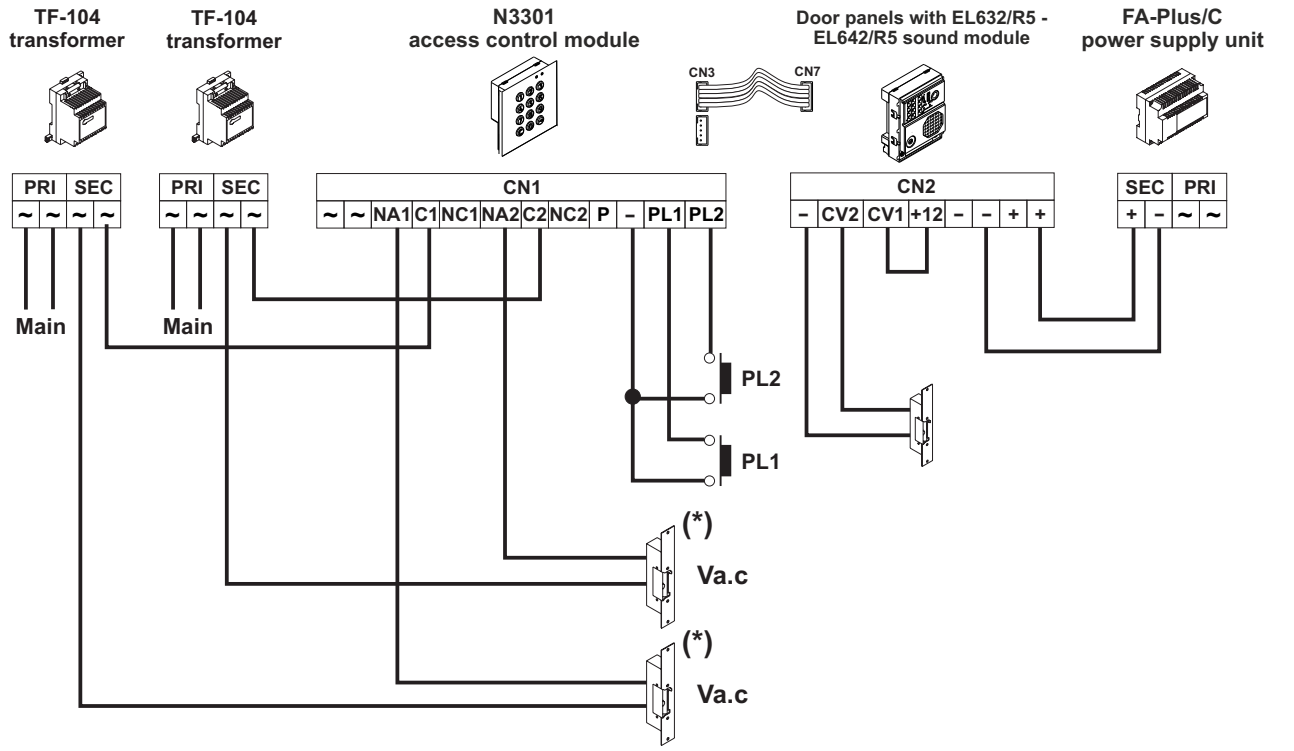
WIRING DIAGRAMS

Combined with Nexa Modular / Nexa Stainless Steel panels:

The connection of the access control module with EL632 and EL642 sound modules should be made by means of the Nexa Bus link hose supplied with the modules. See p. 126 to check the connection.

Electronic or video access control systems with digital installation.

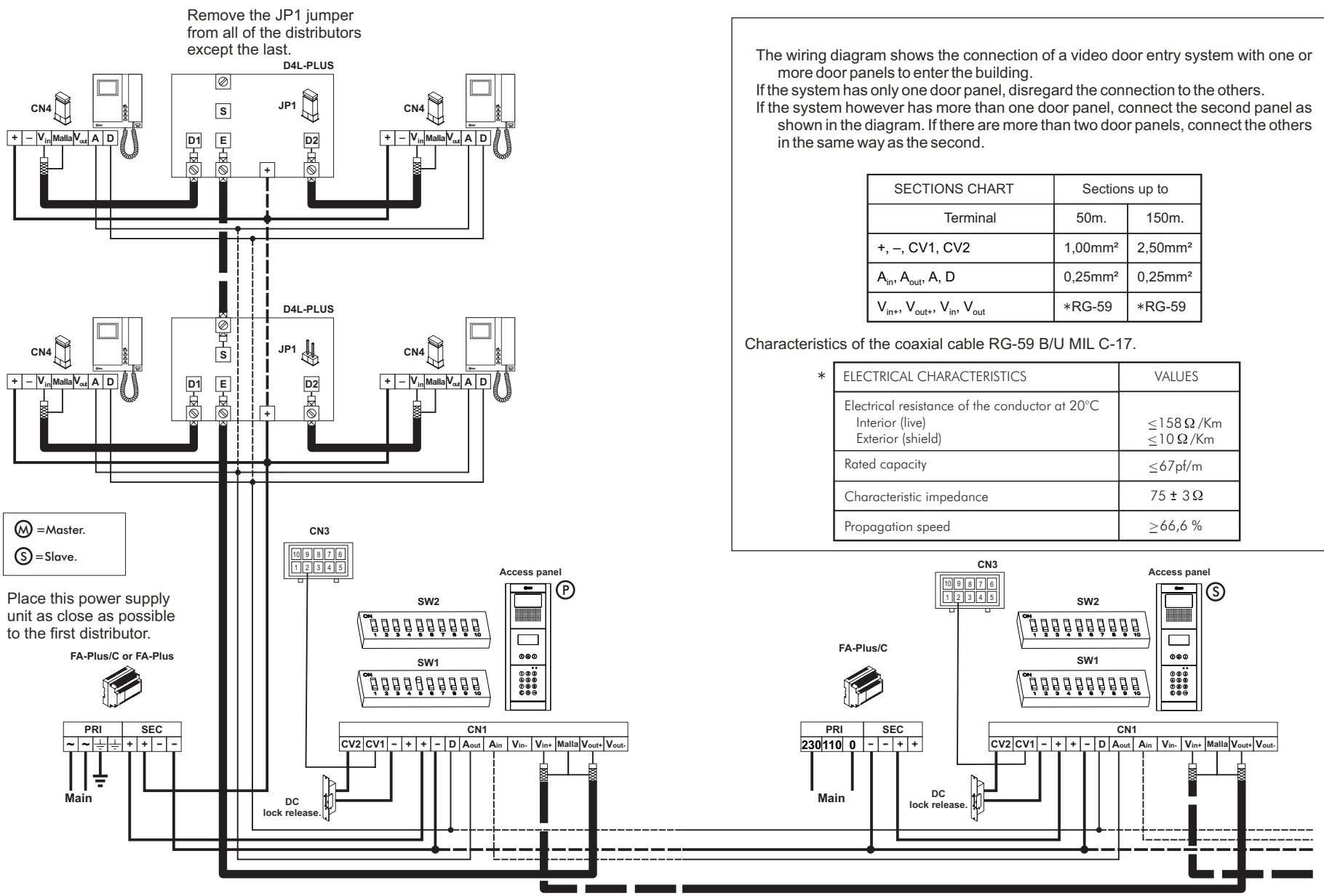




(*) Use the varistor supplied if using an AC lock release directly on the terminals of the lock release.

WIRING DIAGRAMS

Video door entry system with coaxial cable:



The wiring diagram shows the connection of a video door entry system with one or more door panels to enter the building.
If the system has only one door panel, disregard the connection to the others.
If the system however has more than one door panel, connect the second panel as shown in the diagram. If there are more than two door panels, connect the others in the same way as the second.

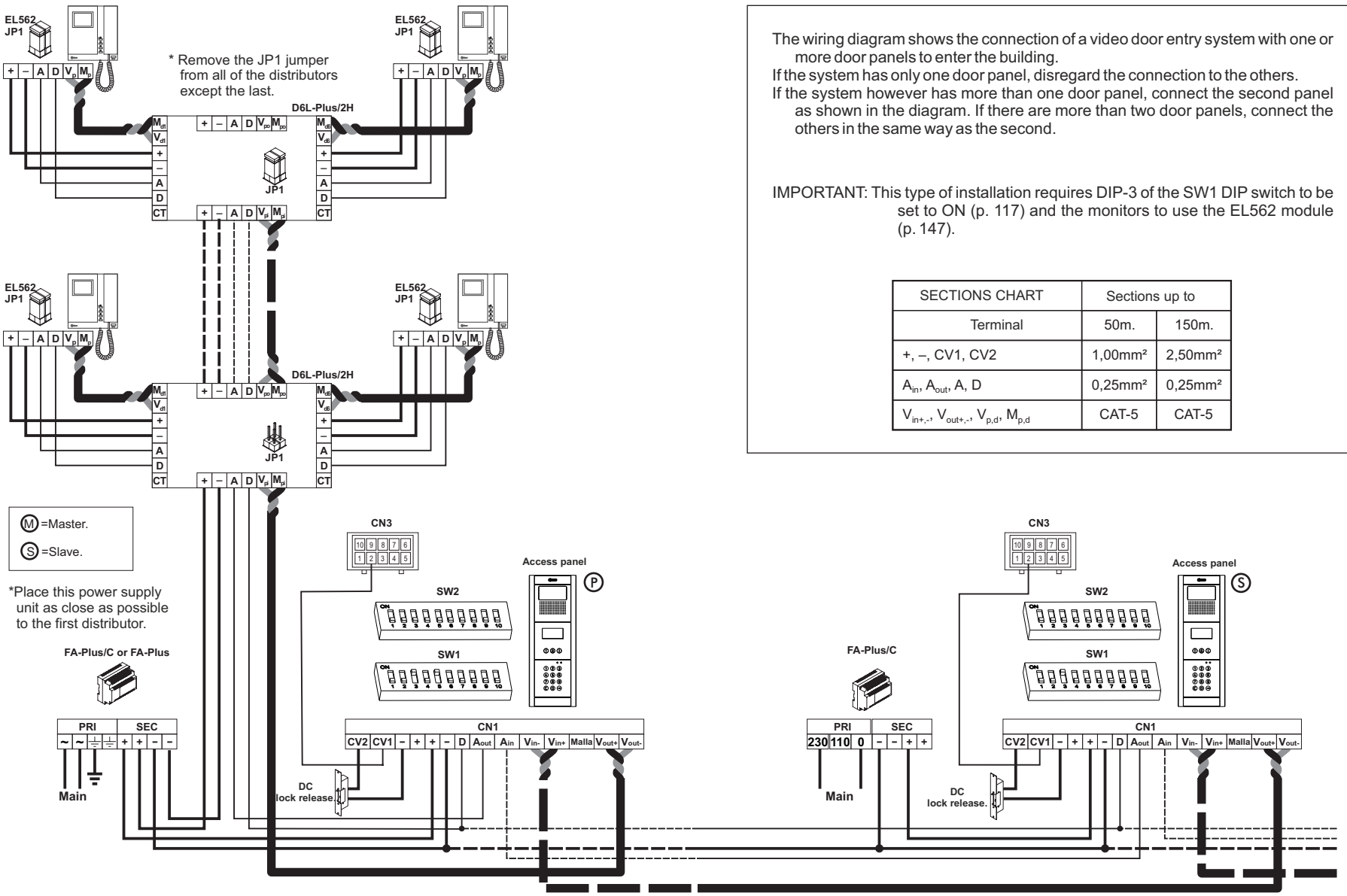
SECTIONS CHART	Sections up to	
Terminal	50m.	150m.
+, –, CV1, CV2	1,00mm²	2,50mm²
A_{in}, A_{out}, A, D	0,25mm²	0,25mm²
V_{in+}, V_{out+}, V_{in}, V_{out}	*RG-59	*RG-59

Characteristics of the coaxial cable RG-59 B/U MIL C-17.

* ELECTRICAL CHARACTERISTICS	VALUES
Electrical resistance of the conductor at 20°C Interior (live) Exterior (shield)	 ≤158 Ω /Km ≤10 Ω /Km
Rated capacity	≤67pf/m
Characteristic impedance	75 ± 3 Ω
Propagation speed	≥66,6 %

WIRING DIAGRAMS

Video door entry system without coaxial cable:



The wiring diagram shows the connection of a video door entry system with one or more door panels to enter the building.
If the system has only one door panel, disregard the connection to the others.
If the system however has more than one door panel, connect the second panel as shown in the diagram. If there are more than two door panels, connect the others in the same way as the second.

IMPORTANT: This type of installation requires DIP-3 of the SW1 DIP switch to be set to ON (p. 117) and the monitors to use the EL562 module (p. 147).

SECTIONS CHART	Sections up to	
Terminal	50m.	150m.
+, –, CV1, CV2	1,00mm²	2,50mm²
A_{in}, A_{out}, A, D	0,25mm²	0,25mm²
$V_{in+,-}$, $V_{out+,-}$, $V_{p,d}$, $M_{p,d}$	CAT-5	CAT-5

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