USER MANUAL

Audio and video door entry system with NFC access control combined with Nexa button panels

INTRODUCTION

First of all, we thank and congratulate you for purchasing this product.

Our commitment to achieving the satisfaction of customers like you is manifested through our ISO-9001 certification and the manufacture of products like the one you have just purchased.

Its advanced technology and strict quality control will ensure that customers and users enjoy the numerous features that this device offers. To get the most out of them and ensure proper operation from day one, we recommend that you read this instruction manual.

CONTENTS

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 EL4503NFC module 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**.
- On the power supply

    Do not overtighten the screws on the connector.

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

    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 wires connected to the terminals.

- On 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.

- Note 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.

CHARACTERISTICS OF THE SYSTEM

Characteristics:

Configuration of the NFC access control with call buttons equips a button panel with access control, allowing users to make calls to apartments using the call buttons and to access the site by waving a Residents'/Visiting access card/key tag over the proximity reader.

EL4503NFC access control module:

- NFC standalone access control module (Golmar proximity cards).
- Capacity of up to 2,000 Residents' cards/key tags and 30 Master cards/key tags.
- Basic configuration using configuration DIP switches.
- Basic configuration using the Master card.
- Advanced configuration and management of the NFC access control. **Mobile with NFC and AC Manager app required (Android only),** see the "**TAC Manager manual (code 50124945)**".
  (Consult our technical service department).
- Enables management of the residents' card/key tag to activate the lock release of the NFC access control via mobile. **Mobile with NFC and OpenGo app required (Android only)**, see the "**TOPENGO manual (code 50124946)**".
  (Consult our technical service department).
- Power supply 12Vac or 18Vdc.
- Can be combined with 'Nexa Modular' and 'Inox Modular' door panels.
- Potential-free output relay (NO, C, NC).
- Potential-free three-contact relay (NO, C, NC), maximum load: 18 Vac /1A 18VA or 24Vdc /0.75A 18W).
- Input for external relay 1 door opening activation button (PL1).
- Programmable activation time for relay 1 from 3 to 99 seconds (default 3 seconds).
- Internal buzzer for reproducing tones (confirmation and error).
- Two-colour LED on the front to indicate operating status (confirmation, error and programming).
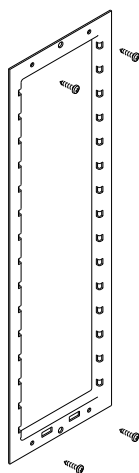
DESCRIPTION OF THE DOOR PANEL

Description of the Nexa modular door panel:

Exploded view of the parts of the panel.
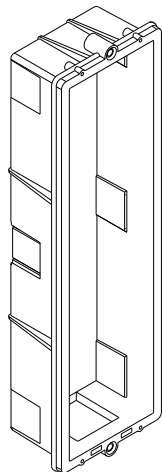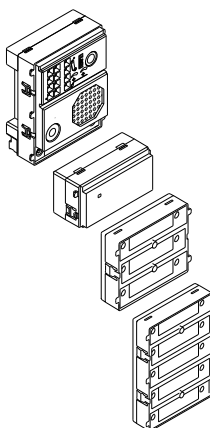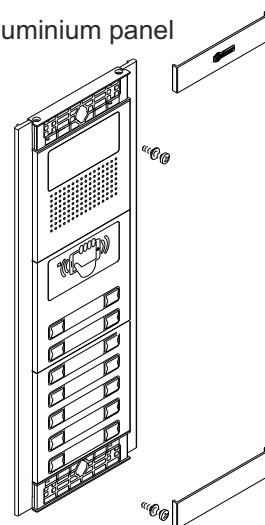
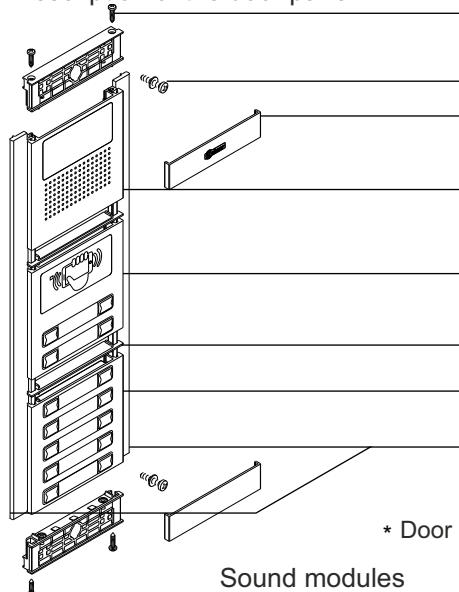Embedding boxes   Frame modules   Electronic modules   Aluminium panel

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.
N3001/AL blind viewer module
Call viewer module:
    N31X1/AL and N32X1/AL.
Nexa module separator (x2)

N3XXX button modules
    N3XXX

Side profile (x2)

Side profile   * Door panel UNE rod

* Door panel UNE rod: Enables 2 door panels to be joined.

Sound modules
    EL632/PLUS P/T video door entry system with colour television camera, 3 wires + COAX.
    EL642/PLUS audio door entry system, 4 common wires.
    EL632/R5 P/T 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.
    EL632/G2+ SE video door entry system with colour camera (non-polarised 2-wire bus).
    EL642/G2+ audio door entry system (non-polarised 2-wire bus).

Access control module
    EL4503/NFC access control module.

Button modules
    EL606D for 3 individual or 6 double buttons.

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 connection cable supplied with the EL610A module (length 8cm).

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

LRAP-610A connection cable (length 55cm).

Pfor connecting 2 EL610A button modules in different embedding boxes.
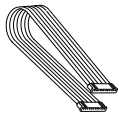
Short connection cable supplied with the EL610A module (length 16cm).

For connecting the buttons between the sound module and the EL610D button module and between EL610D button modules.
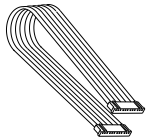
RAP-610D connection cable (length 27cm).

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.

DESCRIPTION OF THE SOUND MODULES

Description of the EL655 sound module:
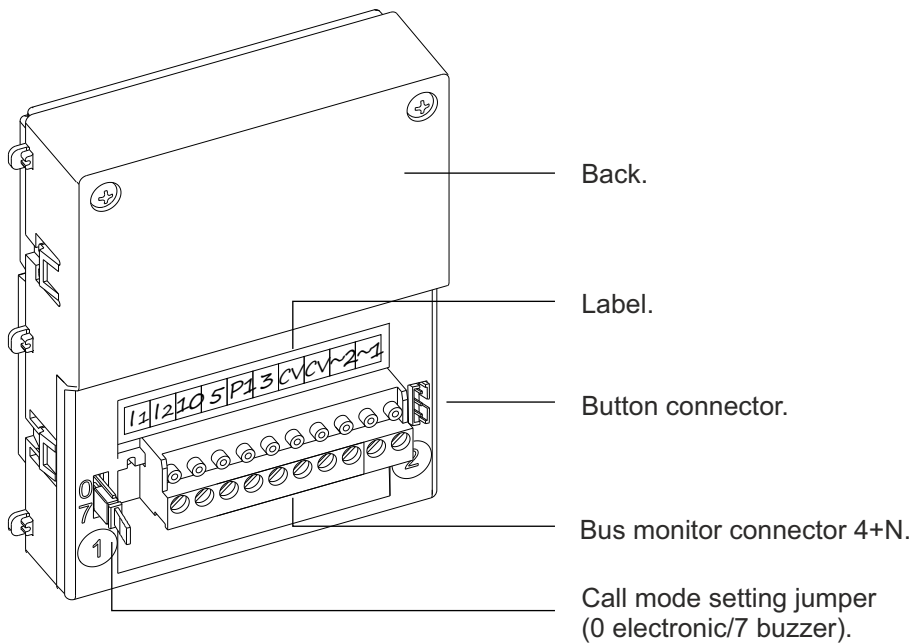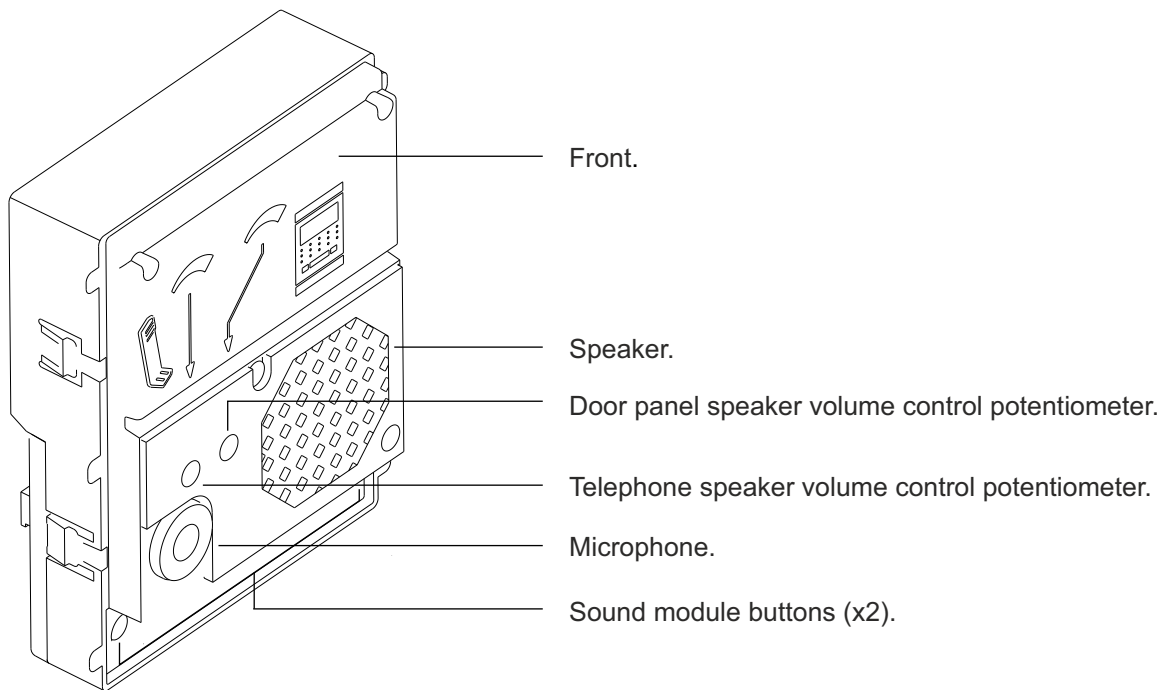
Front.

Speaker.

Door panel speaker volume control potentiometer.

Telephone speaker volume control potentiometer.

Microphone.

Sound module buttons (x2).

Back.

Label.

Button connector.

Bus monitor connector 4+N.

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

- I1   : Ind. of call button 1.
- I2   : Ind. of call button 2.
- 10   : Door panel microphone output.
- 5   : Door panel speaker input.
- P1   : Door release signal input.
- 3   : Negative.
- CV : 'NO' contact for electric lock.
- CV : 'C' contact for electric lock.
- ~2   : TF104 power supply input.
- ~1   : TF104 power supply input.

DESCRIPTION OF THE SOUND MODULES

Descripción módulo de sonido EL651:

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.

Bus monitor connector 4+N and busy channel.

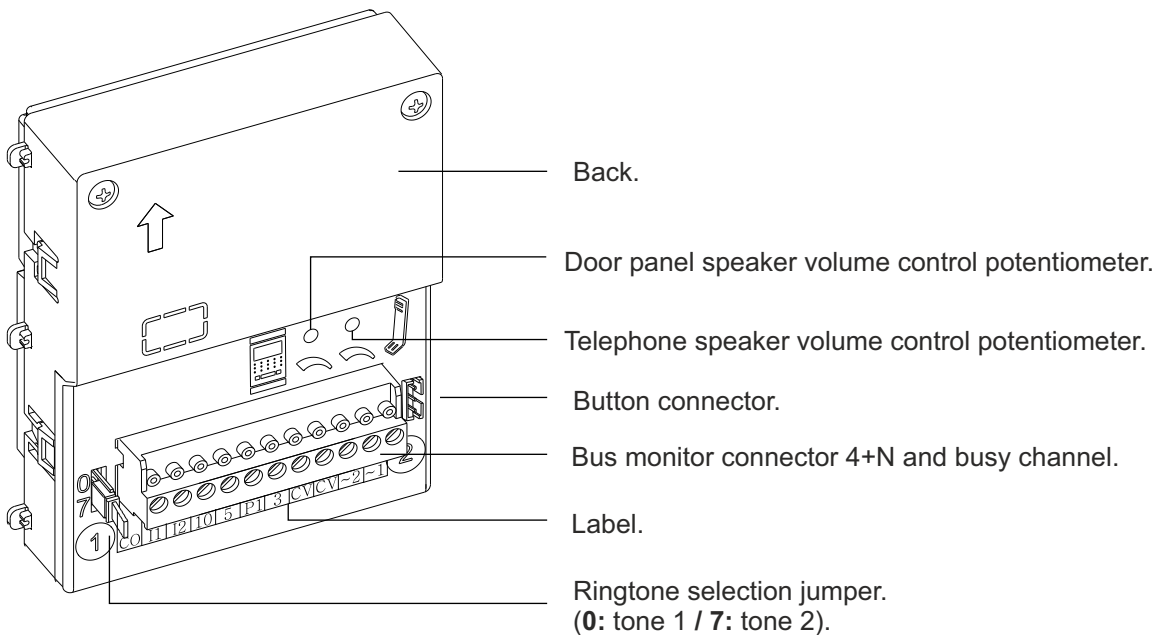Label.

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

- CO : Busy channel.
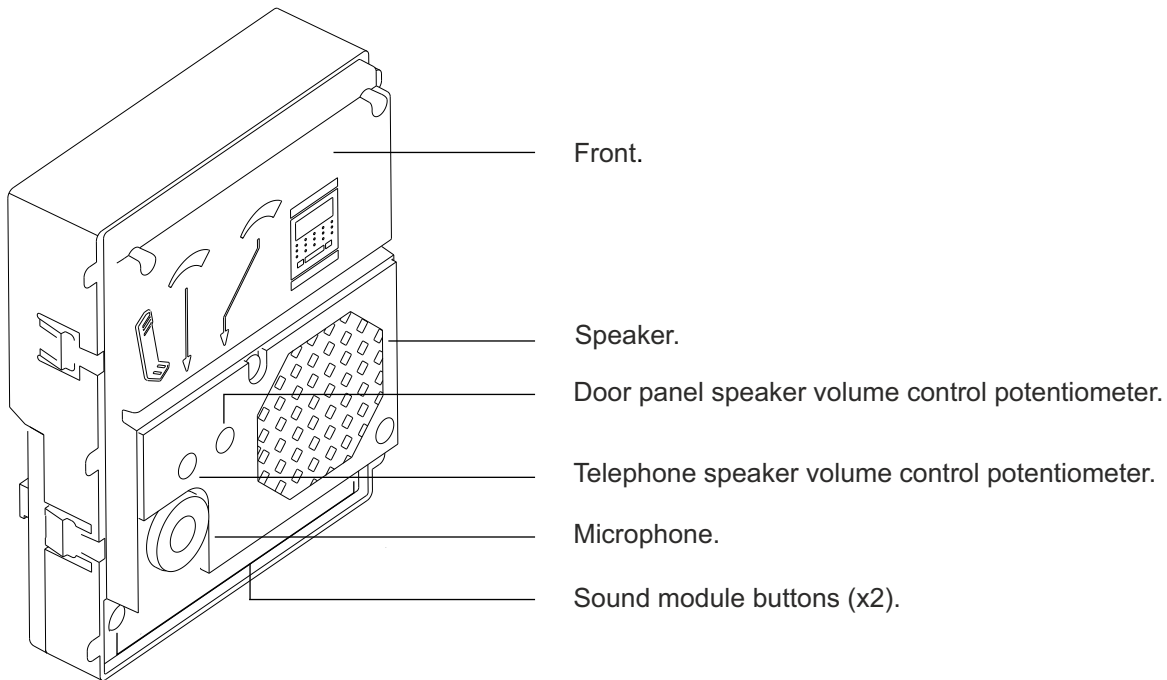- I1   : Ind. of call button 1.
- I2   : Ind. of call button 2.
- 10 : Door panel microphone output.
- 5   : Door panel speaker input.
- P1 : Door release signal input.
- 3   : Negative.
- CV : 'NO' contact for electric lock.
- CV : 'C' contact for electric lock.
- ~2 : TF104 power supply input.
- ~1 : TF104 power supply input.
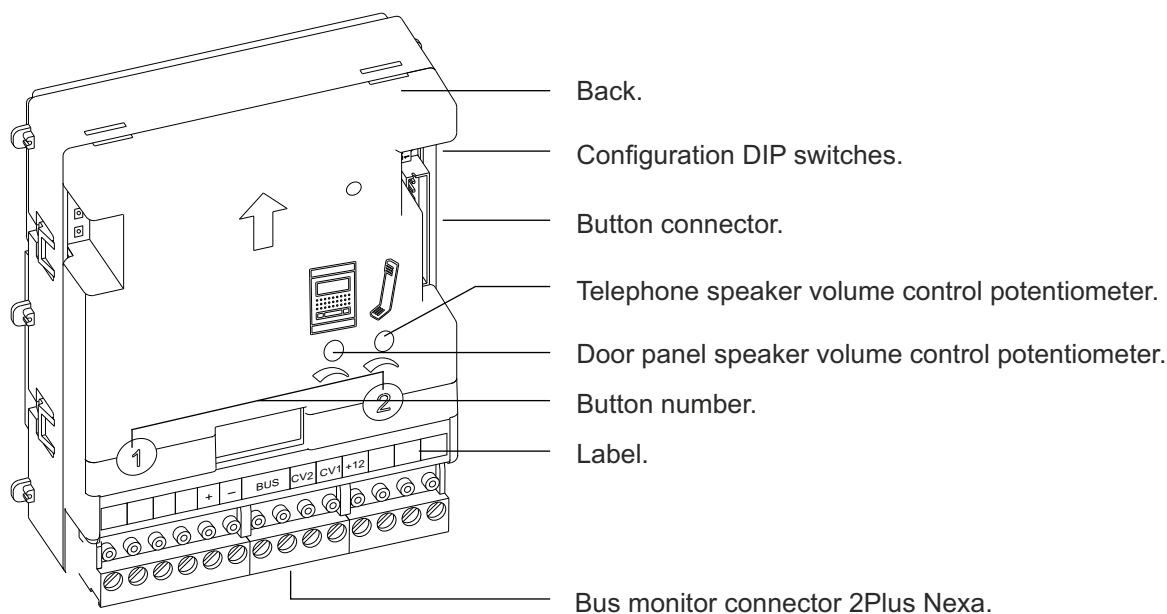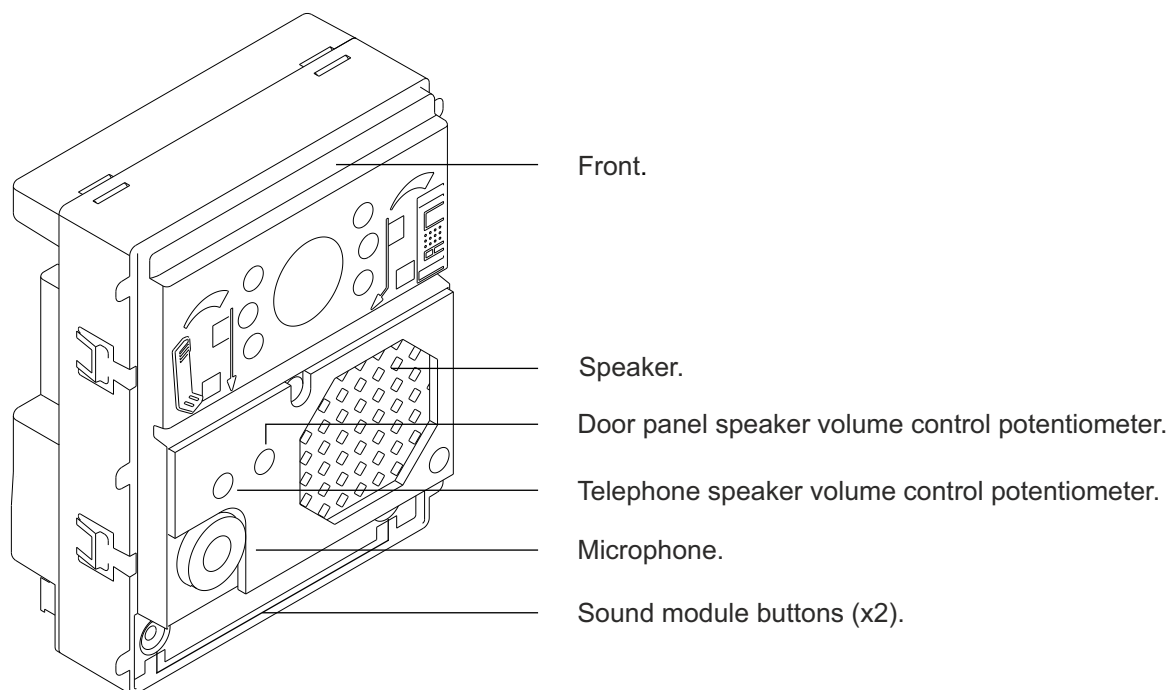
DESCRIPTION OF THE SOUND MODULES

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 switches.

Button connector.

Telephone speaker volume control potentiometer.

Door panel speaker volume control potentiometer.

Button number.

Label.

Bus monitor connector 2Plus Nexa.

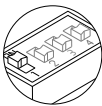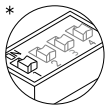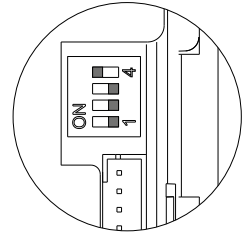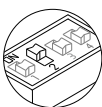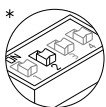| $+$	: Positive.
$-$	: Negative.
BUS	: Digital communication bus.
CV1	: 'C' contact for electric lock.
CV2	: 'NO' contact for electric lock.
$+12$	: Power supply +12Vdc for electric lock.

DESCRIPTION OF THE SOUND MODULES

### *Description of the SW1 programming DIP switch:*

The SW1 configuration DIP switch is located on the top right-hand side of the back of the 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.
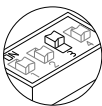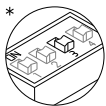
Set to ON to divert calls from the door panel to the guard unit when activated. Set to OFF if this function is not necessary (CD-2PLUS converter and door panel capture on the guard unit required).
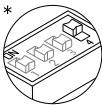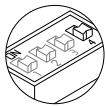
Set to ON for HIGH door panel tone volume or OFF for LOW volume.

*Factory setting

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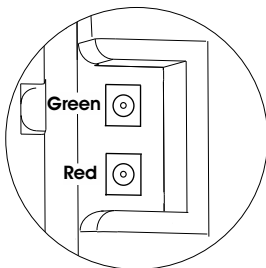
The self-testing LEDs are located on the top left-hand side of the back of the sound module.

Green LED
<u>On:</u> Proper functioning.
<u>Blinking:</u> Door panel is being programmed (DIP switch 2 set to ON).

Red LED
<u>On:</u> More than one panel is configured as *master.*
<u>Blinking:</u> There is a short circuit in the wiring* between the wires of the bus or no door panel has been configured as *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 P/T / EL642/PLUS sound module:

Front.

Television camera. (Only the EL632 PLUS P/T module).

LEDs (visual signals for people with impaired hearing).

LEDs **(Only functions with the EL632 Plus P/T sound module).**

Speaker.

Door panel speaker volume control potentiometer.

Telephone speaker volume control potentiometer.

Microphone.

Sound module buttons (x2).

SW2 configuration DIP switch.

SW1 configuration DIP switch.

Back.

CN8 NEXA Bus connector. **(Not used in this mode).**

CN6 button connector.

Telephone speaker volume control potentiometer.

CN3 function connector.

Door panel speaker volume control potentiometer.

Button number.

Monitor connector.

CV1	: 'C' contact for electric lock. Relay 3.
CV2	: 'NO' contact 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).
Mesh	: Coaxial cable mesh.
Vi+	: Video signal input through coaxial cable.
Vo+	: Video signal output through coaxial cable.

DESCRIPTION OF THE SOUND MODULES

Description of the SW1 programming DIP switch:

The SW1 configuration DIP switch is located on the left-hand side of the back of the module.
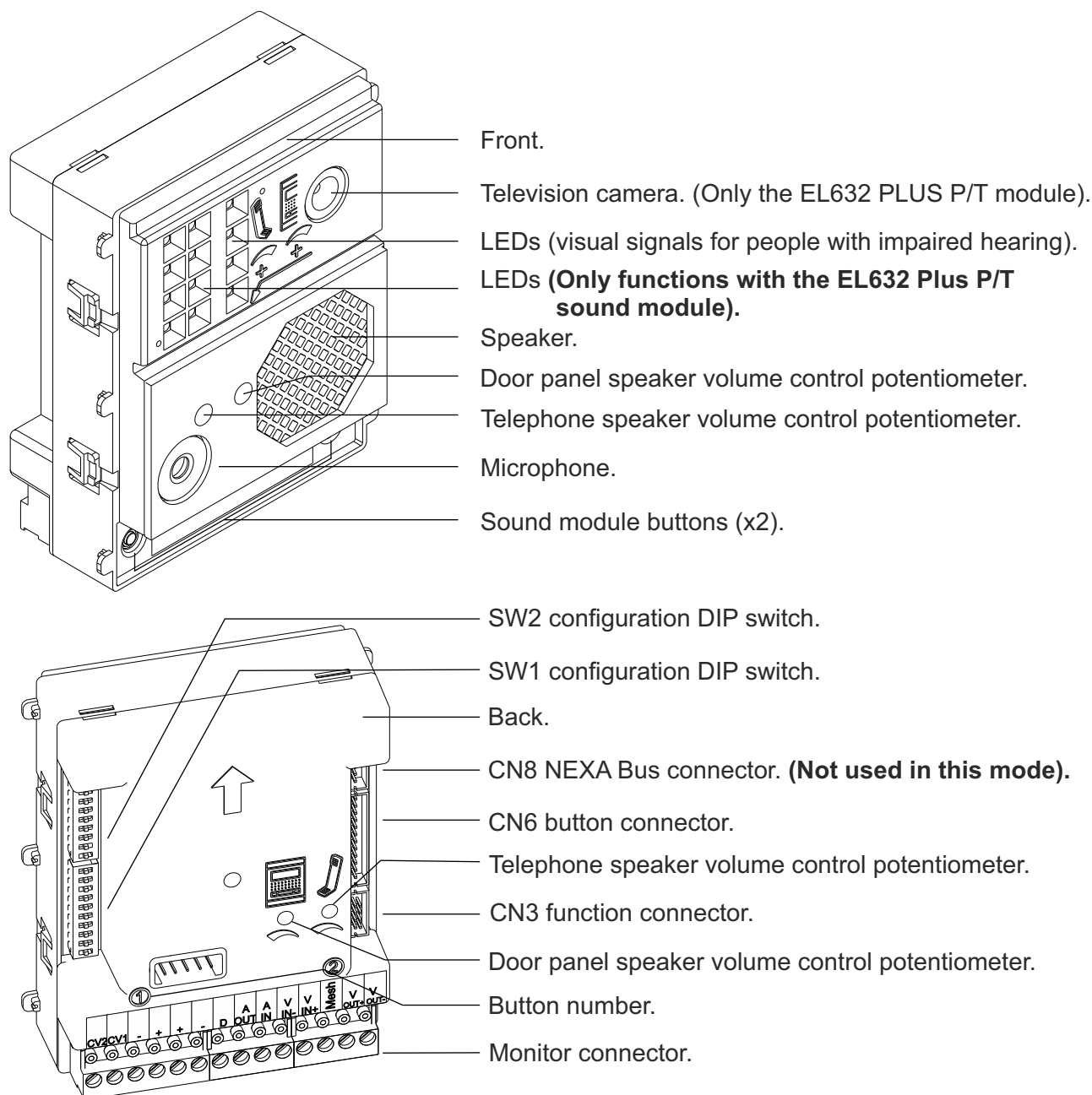
DIP switches 9 and 10 have no function.
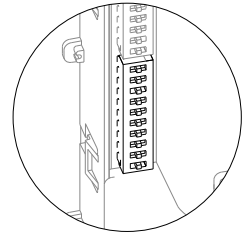
Leave in the OFF position if the sound module is configured as operating mode EL500.
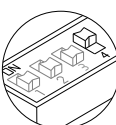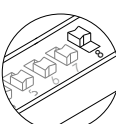Set to ON to configure the sound module as operating mode EL501 (general entrance door panel).

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 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.
If an RD Plus/Uno repeater is used:
In the installation channel or at the entry of the interior 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, system busy and door open) for HIGH or leave in the OFF position for LOW volume.

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 programming DIP switch:

The SW2 configuration DIP switch is located on the left-hand side of the back of the module.
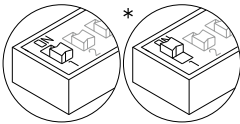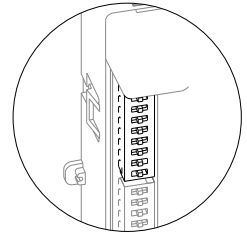
This enables the auto switch-on (audio and/or video communication without having been called) of the door panel if it has this switch set to the ON position. In buildings with several door panels, only activate on one of them; in systems with a general entrance door panel, it can be activated on one door panel in each building.
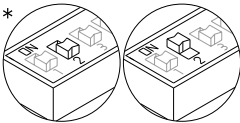
Set to ON for monitor or telephone programming. After programming, return it to the OFF position. The programming method is described on p. 31 for monitors and p. 34 for telephones.
On the general entrance door panel (EL501 mode), set to ON to programme the buttons of the general entrance door panel or the monitors/telephones of the channel (building). The programming method is described on p. 37 and p. 40. Once the programming is complete, return it to the OFF position.
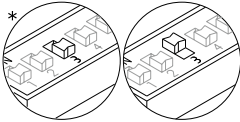
Leave in the OFF position if it is a master door panel. Each system must have only one master door panel; the others must be slaves (ON).
In systems with a general entrance door panel, a door panel from each channel (building) must be configured as the master and the general entrance door panel must be configured as a slave. By doing so, the user will know from which door panel the call is being made.
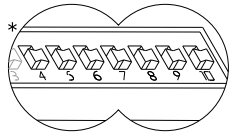
They define the code of the channel (building). In channels with more than one door panel, set the same code for all panels; in systems with a general entrance door panel, set different codes for each channel. Set a code between 1 and 120 for the interior channels (up to 127 if the general entrance door 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.

* Factory setting

Binary coding of the SW2 programming DIP switch:

Switches set to the OFF position have a zero value. The values of the switches set to ON are shown in the table below. 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
Value when ON:	64	32	16	8	4	2	1
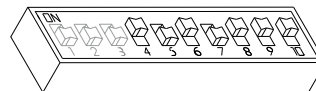
Example: 64+0+16+0+4+2+1=87

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. 12). 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.
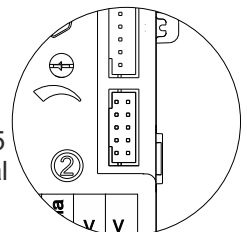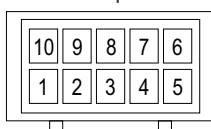
Description of the CN3 connector

CN3 top view

10	9	8	7	6
1	2	3	4	5

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 P/T - EL642/R5 sound module:

Front.

Television camera (only the EL632 R5 P/T module).

LEDs (visual signals for people with impaired hearing).

LEDs **(Only functions with the EL632 R5 P/T sound module).**

Speaker.

Door panel speaker volume control potentiometer.

Telephone speaker volume control potentiometer.

Microphone.

Sound module buttons (x2).

SW1 configuration DIP switch.

Back.

CN7 NEXA Bus connector. **(Not used in this mode).**

CN2 button connector.

Telephone speaker volume control potentiometer.

Door panel speaker volume control potentiometer.

Button number.

Monitor connector.

|	
—	: Negative
CV1	: 'C' contact for electric lock. Relay 3.
CV2	: 'NO' contact 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 configuration DIP switch is located on the top left-hand side of the back of the module.
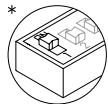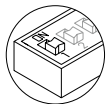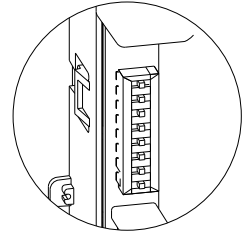
This enables the auto switch-on (audio and/or video communication without having been called) of the door panel if it has this switch set to the ON position. In buildings with many door panels, activate only one of them. In systems with a general entrance door panel this function can be activated on one door panel of each building.
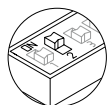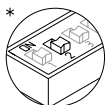
Set to ON for monitor or telephone programming.
Once the programming has finished, return the switch to the OFF position.
The programming method is described on p. 38 for monitors and p. 41 for telephones.
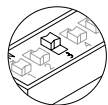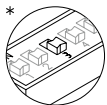
Set to OFF if it is a master door panel. Each system must have only one master door panel; the others must be slaves (ON). In systems with a general entrance door panel, set one door panel from each building as the master.
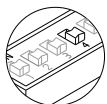
Set to ON if the door panel features a television camera. Set to OFF if the door panel has no television camera.
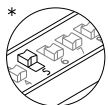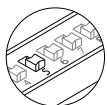
Set to ON *only on one door panel in each building or channel*. If the building has more access doors, set the others to OFF.
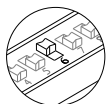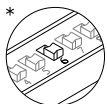
Set to ON to divert calls from the door panel to the guard unit when activated. Set to OFF if this function is not necessary (*CD-PLUS/R5* digital converter and door panel capture on the guard unit required).
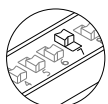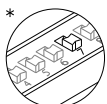
Set to ON for *HIGH* door panel tone volume or OFF for *NORMAL* volume.

Not used.

*Factory setting

DESCRIPTION OF THE SOUND MODULES

Description of the EL632 G2+ SE / EL642 G2+ sound module:

Front.

Colour telecamera (only EL632 G2+ SE sound module).

LEDs (visual signals for people with impaired hearing).

LEDs (activation in low light conditions).
(Only EL632 G2+ SE sound module).

Speaker.

Door panel audio adjustment.

Monitor audio adjustment.

Microphone.

Video module push buttons P1 & P2 (x2).

Back side.

Connector to CD-NEXA/G2+ digital converter module.

Configuration DIP switch.

EL610D button module connector

EL3002H module connector.

External call push buttons P1 & P2 connector.

No utilizar (uso interno).

Jumper for volume control of the "tones mode" and "vocal
synthesis" (minimum, maximum and mute) of the door panel.

"P1" y "P2" button number of the sound module.

Connector (Bus G2+).

Connection terminals:

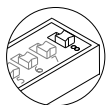|	
+, −	: Positive, negative (12Vdc output for Golmar DC electric lock).
C1	: Contact "C" for electric lock (Relay 1).
NA1	: Contact "NO" for electric lock (Relay 1).
AP+	: Input for external door opening button (Relay 1).
AP−	: Input for external doors opening buttons (Relay 1 and Relay 2).
AP+	: Input for external door opening button (Relay 2).
C2	: Contact "C" for electric lock (Relay 2).
NA2	: Contac "N.O" for electric lock (Relay 2).
NC2	: Contac "N.C" for electric lock (Relay 2)
GND	: Input GND for CCTV analogic camera (only EL632 G2+ SE sound module).
CCTV	: Input for CCTV analogic camera (only EL632 G2+ SE sound module).
BUS	: Connection BUS (non-polarised).
BUS	: Connection BUS (non-polarised).

DESCRIPTION OF THE SOUND MODULES

Description of the EL632 G2+ SE / EL642 G2+ sound module DIP switch:

The DIP switch is located on the top left side of the back of the module.
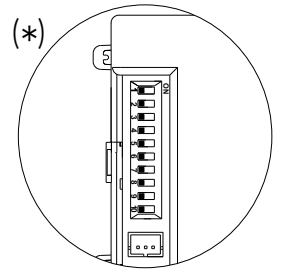
(∗) Door panel address:
Dip switches 1 & 2 leave to OFF position (address 1).

(∗) Leave to the OFF position for door panels with double button and set to ON for door panels with single button.

(∗) To Select the vocal synthesis language or tones mode (for call in progress, missed call, door open and call finished) of the door panel. Factory default: vocal synthesis with Spanish language (see page 27).

(∗) Leave the "automatic door opening (doctor mode)" function ON on the door panels where the "automatic door opening (doctor mode)" function is not desired, leave it OFF on the door panels where the "automatic door opening (doctor mode)" function is desired. **Important:** This function is available with the EL632/G2+ SE module with V07 and later, with the EL642/G2+ module with V05 and later. **Note:** For "Doctor Mode" settings on the apartment master monitor/ telephone, see the quick guide enclosed with the corresponding monitor/telephone.

(∗) To program the P1 and P2 buttons with another call code (see page 28).
 Remember: Leave Dip 10 to OFF after finishing the work to change the call code.

(∗)**Factory default.**

Audio level jumper description (vocal synthesis and tones mode) EL632 G2+ SE / EL642 G2+ module:

Audio level jumper is located on the left side of the back module.

The jumper for volume control, allows to select between a minimum, maximum or mute of the vocal synthesis and tones mode from the door panel.
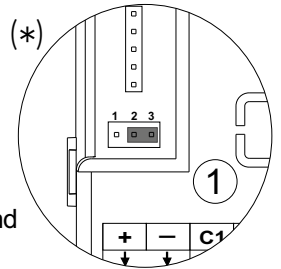
(∗) Jumper placed between 2 and 3, set to minimum volume the vocal synthesis and tones from the door panel.

 Jumper placed between 1 and 2, set to maximum volume the vocal synthesis and tones from the door panel.

 Jumper removed, set to mute volume the vocal synthesis and tones from the door panel.

(∗)**Factory default.**

Description of the LED lights (low light conditions) EL632 G2+ SE module:

The door panel lighting LEDs will turn on during a call if the door panel lighting at that moment is low. This enables the user to view the person who has called from the apartment monitor.
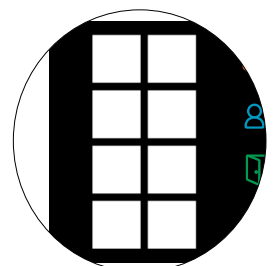
DESCRIPTION OF THE SOUND MODULES

Description of the visual signals on the door panel (EL632 G2+ SE / EL642 G2+ module):

Visual signals on the door panel for people with impaired hearing:

- While calling: LED ⌂ will illuminate during in call process.
- During communication: LED ⌂)) will illuminate during the communication process.
- During door release: LED ⌂ will illuminate during door release.
- End of communication: LED ⌂)) will turn off.
- Calling at one door panel while another door panel is communicating (if there is more than one door panel): LED ' ✋ ' will illuminate for 3 seconds.
- While calling and the monitor is in "Do not disturb" mode: LED ⌂ will illuminate during in call process.
- While calling (apartment with no monitor or audio terminal): No visual indication.

Description of the vocal synthesis (audible signals on the door panel) EL632 G2+ SE / EL642 G2+:

Audible signals on the door panel for people with impaired vision.

If vocal synthesis is enabled on the sound module (see page 19 for configuration),
the following voice messages can be heard on the door panel:

- While calling: "Call is in progress".
- During door release: "Door Opened".
- End of communication: "Communication is finished".
- Calling at one door panel while another door panel is communicating (if there is more than one door panel): "System is busy, try later".
- While calling and the monitor is in "Do not disturb" mode: "Call is in progress".
- While calling (apartment with no monitor or audio terminal): "Call is in progress - Resident unavailable".

Tones mode description (audible signals on the door panel) EL632 G2+ SE / EL642 G2+:

Tones mode audible signals on the door panel.

If tones mode is enabled on the sound module (see page 19 for configuration),
the following tones can be heard on the door panel:

- While calling: 2 long tones.
- During door release: 1 long tone.
- End of communication: No audible signals.
- Calling at one door panel while another door panel is communicating (if there is more than one door panel): 5 short tones.
- While calling and the monitor is in "Do not disturb" mode: 2 long tones.
- While calling (apartment with no monitor or audio terminal): 2 long tones and 5 short tones.

Description of the P1 and P2 external buttons (EL632 G2+ SE / EL642 G2+ sound module):

The connector is located on the right side of the back sound module.

Insert the connection cable supplied with module to connect the external call buttons P1 and P2 of the sound module.
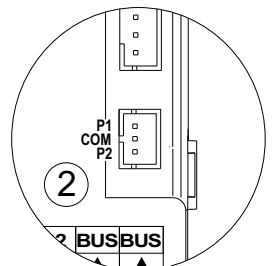
External button P1

External button P2
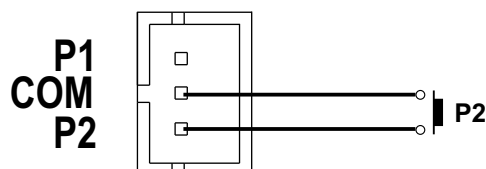
DESCRIPTION OF THE SOUND MODULES

Selecting vocal synthesis language or tones mode (EL632 G2+ SE / EL642 G2+ module):

(∗)
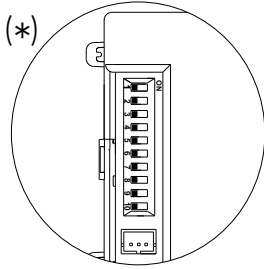
The configuration Dip switch is located on the top left side of the back of the module.

If you want to change the language of the vocal synthesis or select the tones mode of the door panel, configure dips 4 to 8 of the configuration Dip switch (page 17), see the following selection table:

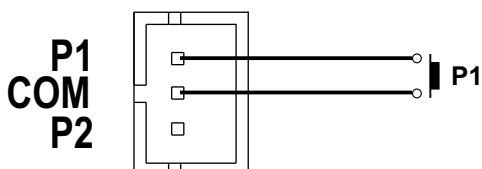| Vocal Synthesis	Dip4	Dip5	Dip6	Dip7	Dip8
(∗) Español	OFF	OFF	OFF	OFF	OFF
Catalán	**ON**	OFF	OFF	OFF	OFF
Gallego	OFF	**ON**	OFF	OFF	OFF
Vasco	**ON**	**ON**	OFF	OFF	OFF
Tones Mode	OFF	OFF	**ON**	OFF	OFF
Arabic	**ON**	OFF	**ON**	OFF	OFF
Bulgarian	OFF	**ON**	**ON**	OFF	OFF
Croatian	**ON**	**ON**	**ON**	OFF	OFF
Czech	ON	OFF	OFF	**ON**	OFF
Dansk	**ON**	OFF	OFF	**ON**	OFF
Dutch	OFF	**ON**	OFF	**ON**	OFF
English	**ON**	**ON**	OFF	**ON**	OFF
French	OFF	OFF	**ON**	**ON**	OFF
German	**ON**	OFF	**ON**	**ON**	OFF
Greek	OFF	**ON**	**ON**	**ON**	OFF
Hungarian	**ON**	**ON**	**ON**	**ON**	OFF
Italian	OFF	OFF	OFF	OFF	**ON**
Norwegian	**ON**	OFF	OFF	OFF	**ON**
Polish	OFF	**ON**	OFF	OFF	**ON**
Portuguese	**ON**	**ON**	OFF	OFF	**ON**
Romanian	OFF	OFF	**ON**	OFF	**ON**
Russian	**ON**	OFF	**ON**	OFF	**ON**
Serbian	OFF	**ON**	**ON**	OFF	**ON**
Slovak	**ON**	**ON**	**ON**	OFF	**ON**
Swedish	OFF	OFF	OFF	**ON**	**ON**
Turkish	**ON**	OFF	OFF	**ON**	**ON**

(∗) **Factory default.**

DESCRIPTION OF THE SOUND MODULES

Change the call code of the P1 and P2 button of the EL632 G2+ SE / EL642 G2+ module:

If you want to change the call code of button P1 of the sound module, follow these steps: (Factory value P1 = 128).

1- In the sound module configuration Dip switch (see page 17), set **Dip8 to OFF.**

2- Then set **Dip1 to Dip7** the new call code.

The Dip switches placed in the OFF position have a value of zero and in the ON position they have been assigned the values in the attached table.

The calling code will be equal to the sum of the values of the Dip switches set to ON.

Table of values

Switch number:	1	2	3	4	5	6	7
Value when ON:	1	2	4	8	16	32	64

Example: 0 + 0 +4+0+16+0+0= 20

3- Set the **Dip 10 to ON**, a tone will confirm that the new call code has been successfully programmed.

4- Set the **Dip 10 to OFF** and Dips 1 to 8 as previously configured (address door panel, double / single button and language or tone mode).

If you want to change the call code of button P2 of the sound module, follow these steps: (Factory value P2 = 127).

1- In the sound module configuration Dip switch (see page 17), set **Dip8 to ON.**

2- Then set **Dip1 to Dip7** the new call code.

The Dip switches placed in the OFF position have a value of zero and in the ON position they have been assigned the values in the attached table.

The calling code will be equal to the sum of the values of the Dip switches set to ON.
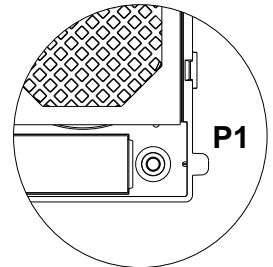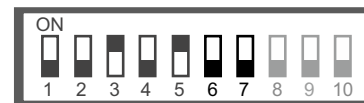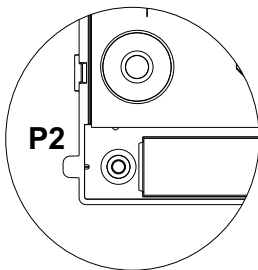
Table of values

Switch number:	1	2	3	4	5	6	7
Value when ON:	1	2	4	8	16	32	64
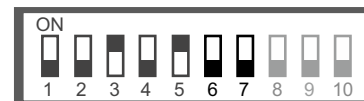
Example: 0 + 0 +4+0+16+0+0= 20

3- Set the **Dip 10 to ON**, a tone will confirm that the new call code has been successfully programmed.

4- Set the **Dip 10 to OFF** and Dips 1 to 8 as previously configured (address door panel, double / single button and language or tone mode).

Final adjustments:

If after starting the system it's considered that audio volume isn't correct, proceed with the necessary adjustments as shown in the drawing.
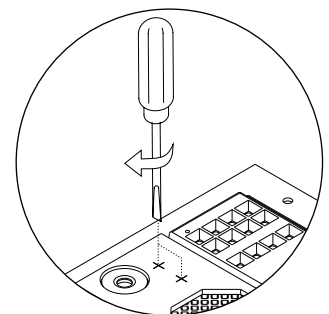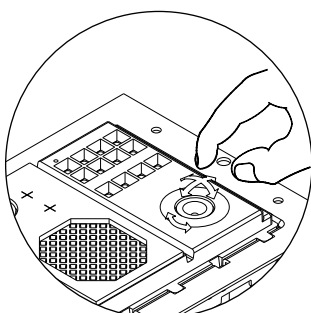
The telecamera has a pan and tilt mechanism built in to adjust the telecamera position (only EL632 G2+ SE).

DESCRIPTION OF THE BUTTON MODULES

Description of the EL610A button module:

Front.

Module buttons (x10).

Back.

Button connector input.

Label.

Button monitor connector
(independent of call).

Button connector output.

Button number.
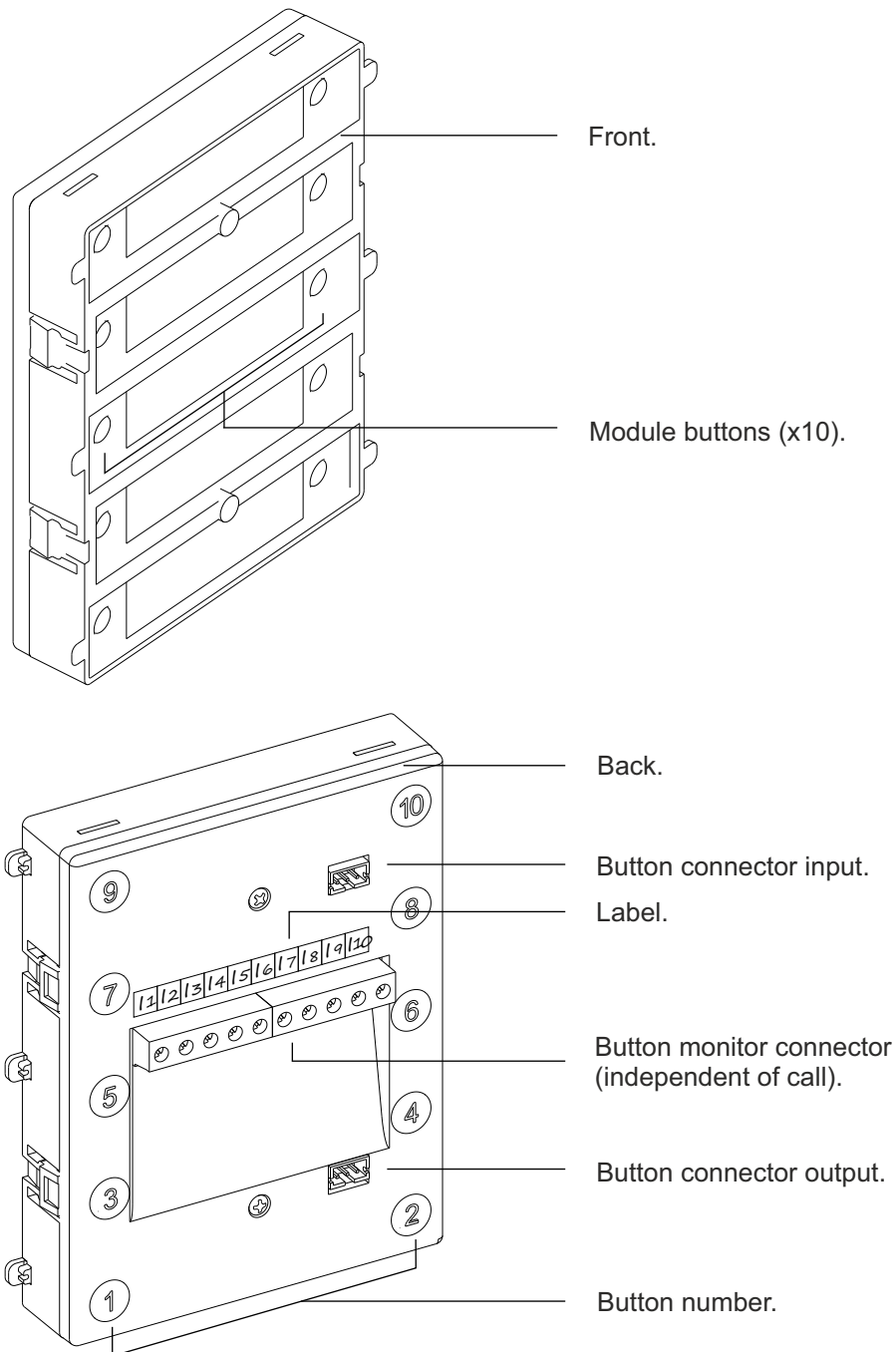
- I1   : Ind. of call button 1.
- I2   : Ind. of call button 2.
- I3   : Ind. of call button 3.
- I4   : Ind. of call button 4.
- I5   : Ind. of call button 5.
- I6   : Ind. of call button 6.
- I7   : Ind. of call button 7.
- I8   : Ind. of call button 8.
- I9   : Ind. of call button 9.
- I10 : Ind. of call 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.
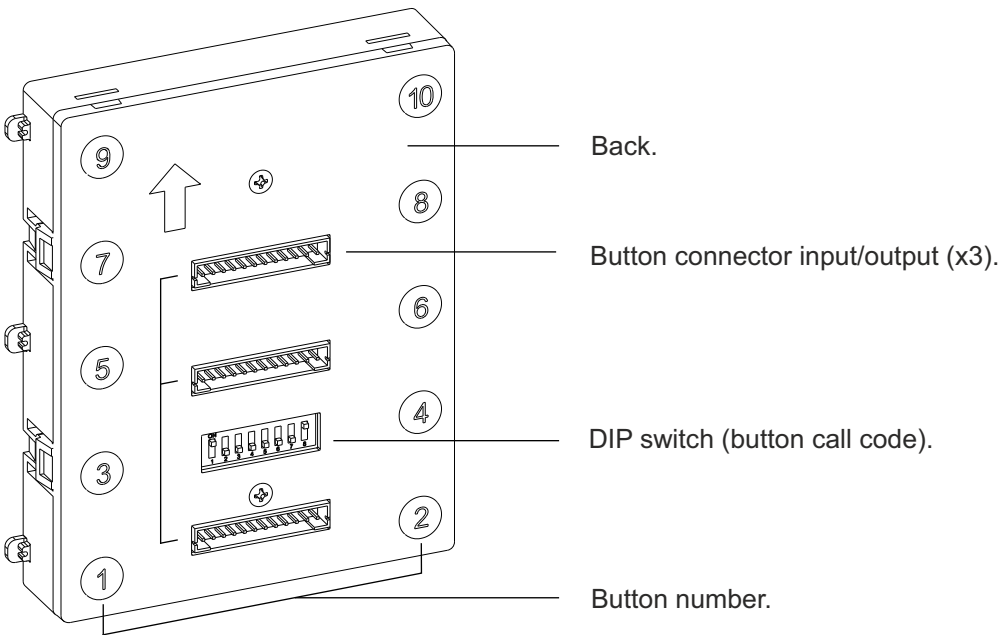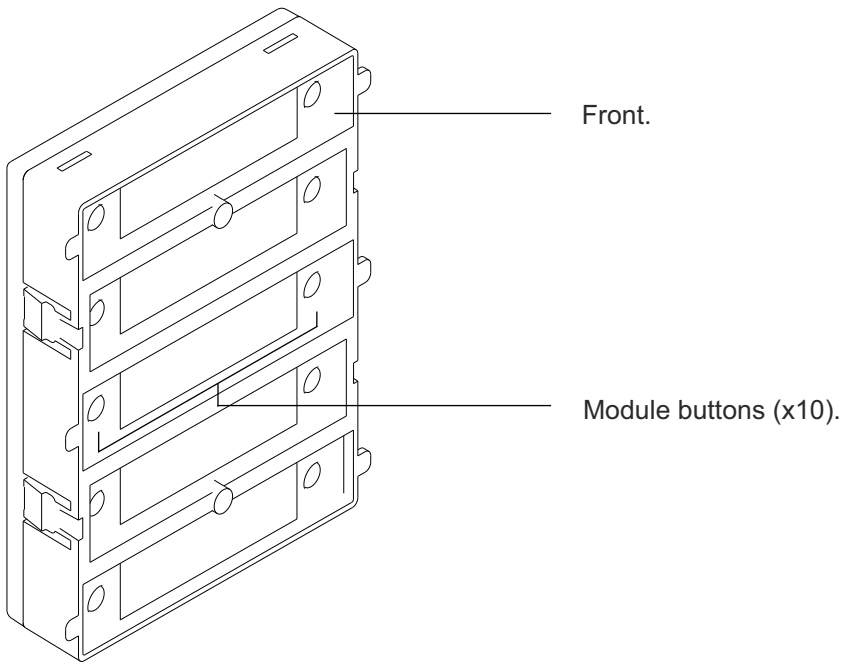
DESCRIPTION OF THE BUTTON MODULES

Description of the EL606D button module:
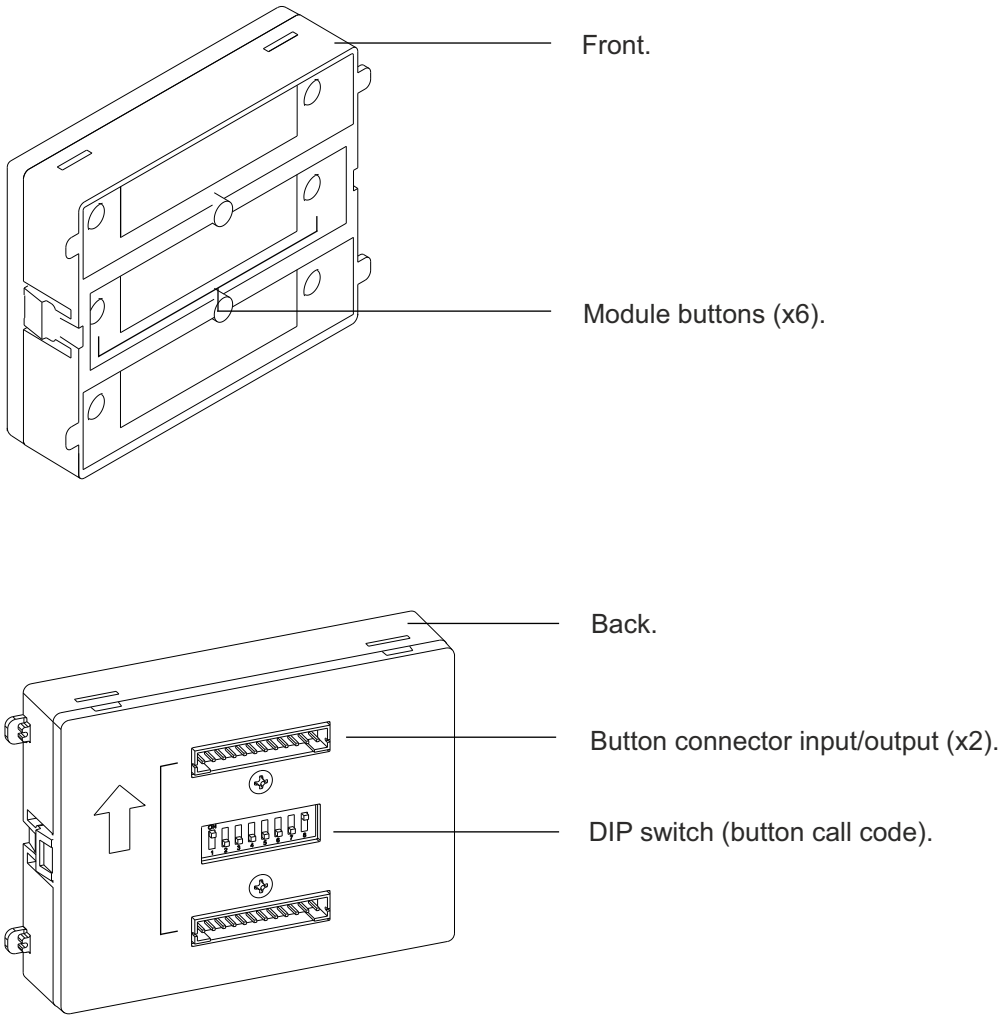
Front.

Module buttons (x6).

Back.

Button connector input/output (x2).

DIP switch (button call code).

DESCRIPTION OF THE ACCESS CONTROL MODULE

Description of the EL4503/NFC module:

Front.

Proximity card reader.

Two-colour LED (red/green).

Back.

P1 button.

Sw1 programming DIP switch.

Monitor connector.
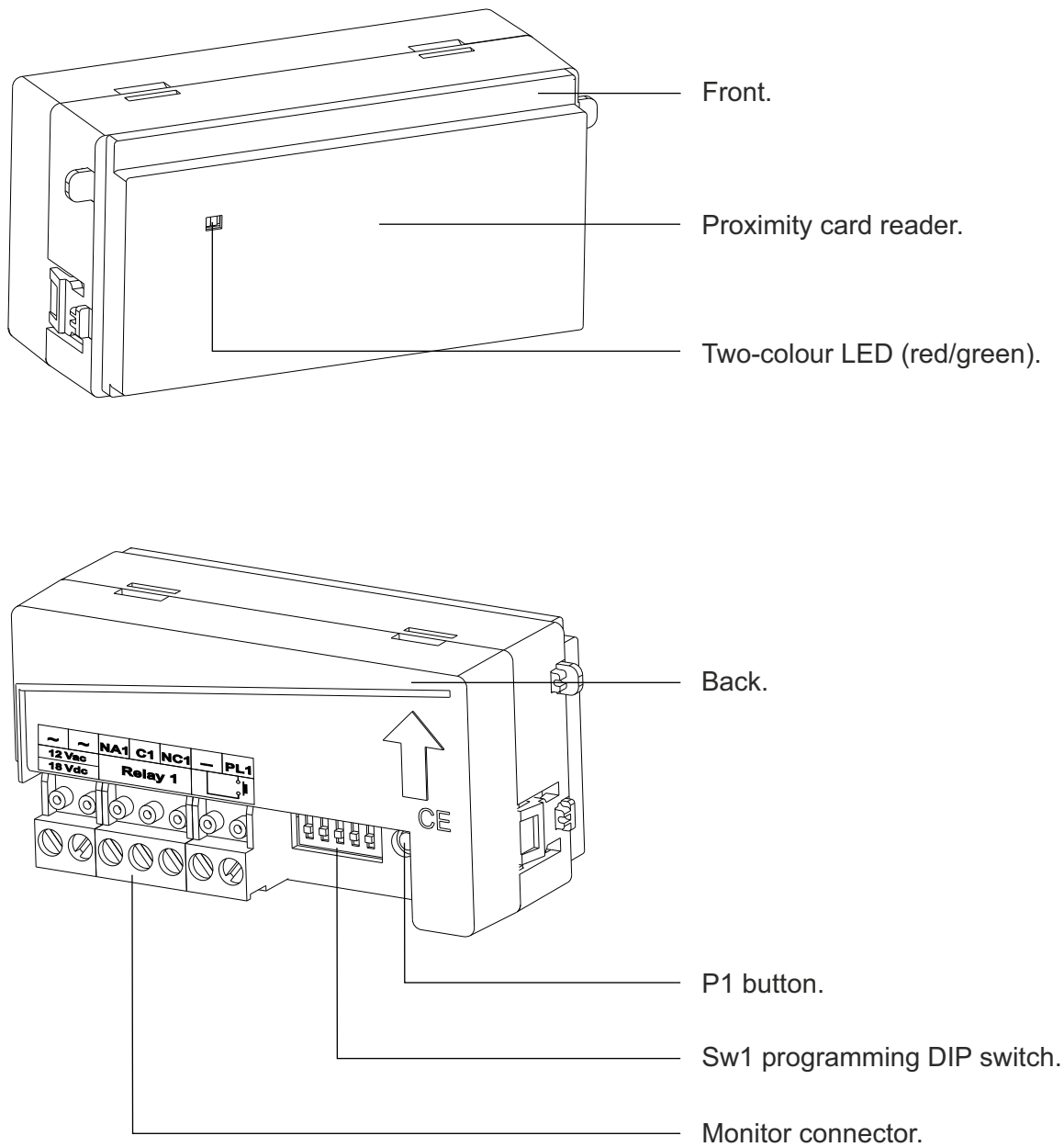
~ ~	: Power input
NA1	: Normally open output relay 1.
C1	: Common relay 1.
NC1	: Normally closed output relay 1.
-	: Negative.
PL1	: Input for exterior button relay 1.

DESCRIPTION OF THE ACCESS CONTROL MODULE

Description of the SW1 DIP switch:

The SW1 configuration DIP switch is located on the top right-hand side of the back of the module. It enables cards to be added/removed.

With DIP switch 2 set to ON, it enables Master user cards to be added. (See p. 32 and p. 34).

With DIP switch 3 set to ON, it enables Residents', one-access Visiting and multi-access Visiting user cards to be added. (See p. 32).

With DIP switch 4 set to ON, it enables Installation cards to be added. (See p. 32).

With DIP switches 1 and 2 set to ON, it enables all Master user cards to be removed. (See p. 33).

With DIP switches 1 and 3 set to ON, it enables Residents', One-access Visiting and multi-access Visiting user cards to be removed. (See p. 33).

With DIP switches 1 and 4 set to ON, it enables all Installation cards to be removed. (See p. 33).

With DIP switches 1, 2 and 3 set to ON, it enables all cards, except Installation cards, to be removed. (See p. 33).

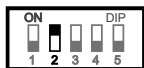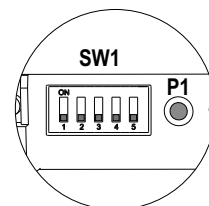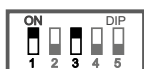With DIP switch 5 set to ON, it enables programming of the activation time of relay 1 and the activation/deactivation of confirmation and error tones by waving an added access card/key tag over the proximity reader. (See p. 33).

To activate the G2+ compatibility mode, set DIP switch 4 and 5 to ON (see page 33 & 43).

Description of the self-testing LEDs:

The two-colour (red and green) self-testing LED is located on the top left-hand side of the front of the module.
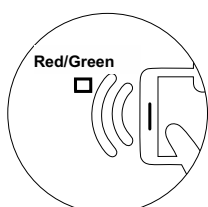
	Operation	Red LED	Green LED
Standby	Normal	Off	Off
	Correct access	Off	On (1.5 seconds)
	Incorrect access	On (1.5 seconds)	Off
Programming mode	With SW1 DIP	Slow blink	Off
	With Master card	On	Off
	Card programmed	Off	On (1.5 seconds)
	Card already exists	Rapid blink	Off
	Deleting cards	Rapid blink	Off
	Card deleted	Off	On (1.5 seconds)
	Memory full (error)	Off	On

Description of the tones:

The NFC access control module features an internal buzzer for reproducing operating tones:

Operation	Duration
Correct access	2 rapid tones
Incorrect access	1 long tone
Card programmed	2 rapid tones
Card deleted	2 rapid tones

Continued overleaf

INSTALLATION OF THE DOOR PANEL

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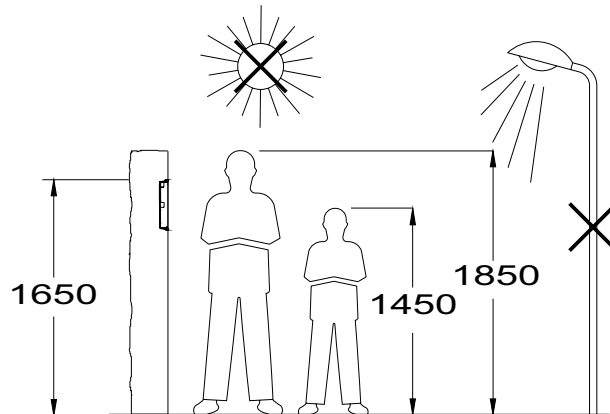
Make a hole in the wall to position the top of the door panel at a height of 1.65m.
Hole dimensions depend on the type of door panel.

Modules	1	2	3
Model	NCEV90CS	NCEV90C	CEV90
W (width)	99	99	9mm.
H (height)	132,5	238	328mm.
P	56,5	56	56mm.

The door panel has been designed to withstand diverse 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.)

Description of the Nexa modular door panel:

Exploded view of the parts of the panel.
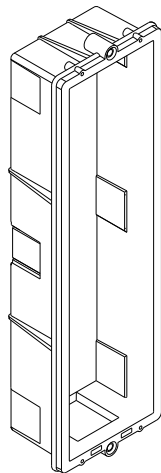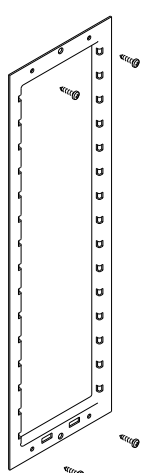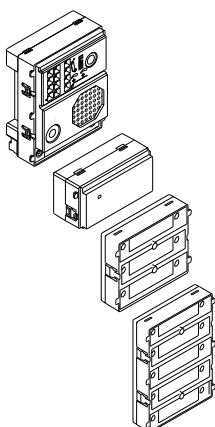
Embedding boxes	Frame modules	Electronic modules	Aluminium panel
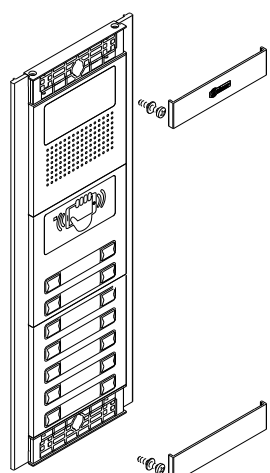
INSTALLATION OF THE DOOR PANEL

Preparing the cable entry:
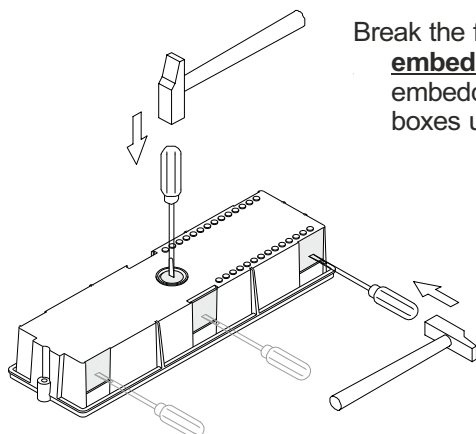
Break the flange to allow cable **entry through the bottom part of the embedding box.** In the case of door panels with more than one embedding box, break through the side holes and join the embedding boxes using cable grommets.
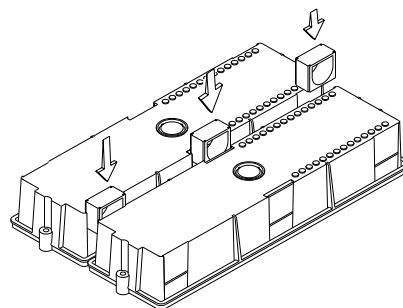
Fitting the embedding box:
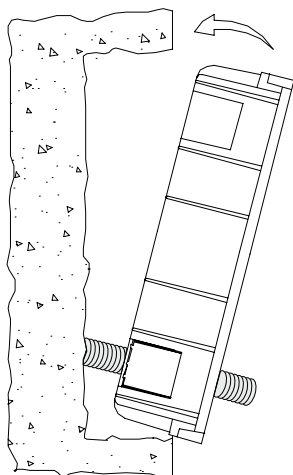
Pass the cable through the hole made in the embedding box. Embed the box and ensure that it is level and flush. Once the embedding box is positioned, remove the protective stickers from the door panel's fixing holes.

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.

Then, underneath the sound module, insert the EL4503/NFC module; if there is a button module, repeat the previous process, placing it under the EL4503/NFC module, as shown in the drawing.

Sound module:
EL655   EL632 Plus P/T   EL642 R5
EL651   EL642 Plus   EL632 G2+
EL620   EL632 R5 P/T   EL642 G2+

Access control module
EL4503/NFC
Only the EL606D button
module (if used)

Button modules
EL610X
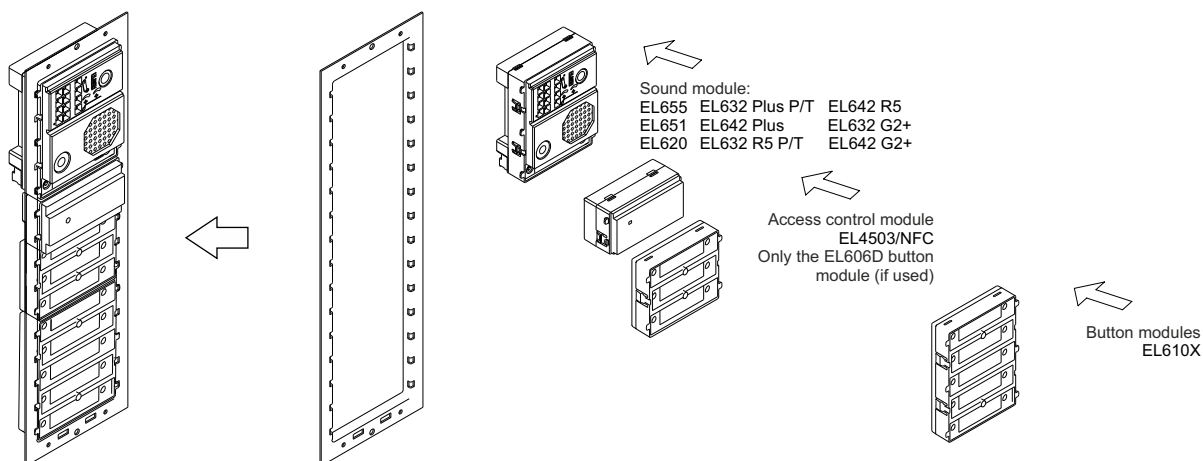
INSTALLATION OF THE DOOR PANEL

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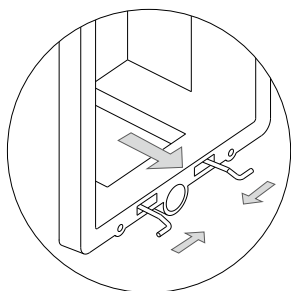
Insert the spring hinge which attaches to the product in the embedding box, as shown in the drawing.

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.
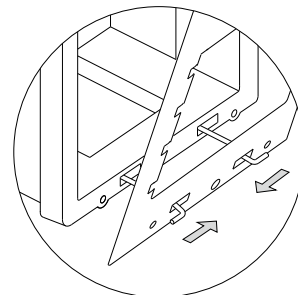
The frame can now be tilted horizontally to enable connection and setting of the sound module, button modules and NFC access control module.
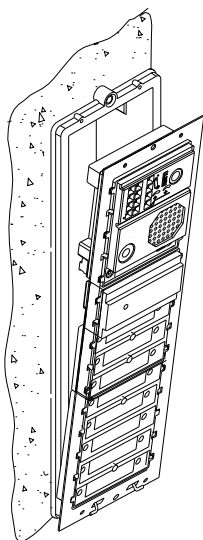
Cabling, connection and button configuration:

See the manual supplied with the sound module.

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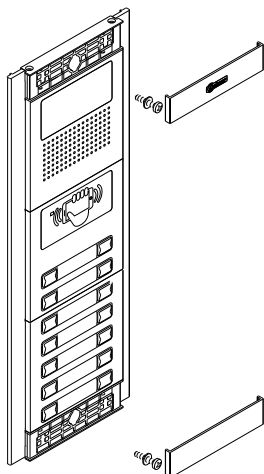
Fix the door panel to the embedding box using the screws supplied.

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 protected location free from the risk of dripping or splashing water.
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.

φ3,5 x 45
DIN-7971
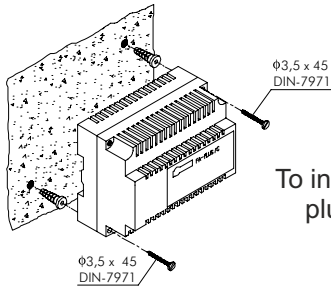
Please note that current regulations stipulate that the power supply must be protected by a circuit breaker. Connect the FA-Plus power supply unit to the earth connection.

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.

φ3,5 x 45
DIN-7971

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.

DIN 46277
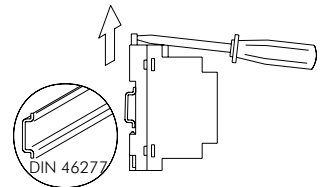
IMPORTANT: the maximum number of units that can be connected to FA-Plus/C and FA-Plus power supply unit is 10 and 50, respectively.

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

INSTALLATION OF THE LOCK RELEASE

Lock release

φ3,5 x 25
DIN-7972

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.

M 4 x 8
DIN-963

IMPORTANT: the access control module is supplied with two varistors. If you are going to connect 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.
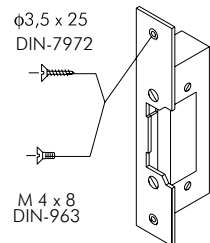
OPERATION OF THE DOOR PANEL

Description of door panel operation

In addition to the operating mode of the access control module described on p. 31, it is possible to make calls to telephones and/or monitors on the site using the door panel's corresponding call buttons.

PROGRAMMING THE DOOR PANEL

Programming the module and card management

To programme the NFC access control module, see pp. 32-35.

DESCRIPTION OF THE NFC CARDS AND KEY TAGS

Types of NFC card and key tag:

The NFC access control module allows the following types of card and key tag:

<u>Residents' cards/key tags:</u> NFC/US cards/key tags, when added as 'Residents' Cards,' allow access (see p. 32).
Up to 2,000 cards (Residents', visiting (one-access) and visiting (multi-access) can be added.

<u>Master cards/key tags:</u> NFC/US cards/key tags, when added as 'Master Cards,' allow you to
(see p. 34 and p. 35).
  -Add: Residents', one-access visiting and multi-access visiting, and Installation cards/key tags.
  -Add Residents', visiting (one-access) and visiting (multi-access) cards and can be assigned to the Master card as a
   group of Residents' cards. **AC Manager app and mobile with NFC required (Android only).**
  -Remove: Residents', one-access visiting and multi-access visiting, and Installation cards/key tags.
  -Remove a group of Residents' cards/key tags assigned to a Master card. **AC Manager app and mobile with NFC
   required (Android only).**
Up to 30 Master cards/key tags can be added.

<u>Visiting cards (one-access):</u> NFC/1U cards when added enable only 1 use, but are reprogrammable to allow them
  to be added again (see p. 32).

<u>Visiting cards (multi-access):</u> NFC/MU cards when added enable up to 100 uses, the exact number of which (1 to
  100) can be set before adding the card in the module **(AC Manager app and mobile with NFC required, Android
  only).** These cards are not reprogrammable so become unusable once the number of uses set is reached (see
  p. 32).

<u>Installation cards:</u> NFC/IN cards enable the access control module to be linked to a mobile with NFC for advanced
  configuration and management of the NFC access control installation with the AC Manager app previously installed
  on the mobile phone (see p. 32). **AC Manager app and mobile with NFC required (Android only).**
  Up to 5 NFC/IN cards can be added.

Description of the NFC cards and key tags:

NFC CARD USER NFC/US	Code: 11812100
NFC CARD INSTALLER NFC/IN	Code: 11812105
NFC CARD GUEST NFC/1U	Code: 11812110
NFC CARD TICKETING NFC/MU	Code: 11812115
NFC KEY TAG USER TAGNFC/US	Code: 11812125

NFC CARD USER NFC/US

NFC KEY TAG USER TAGNFC/US

golmar

08940 SPAIN NFC/US 11812100

golmar
TAGNFC/US
11812125
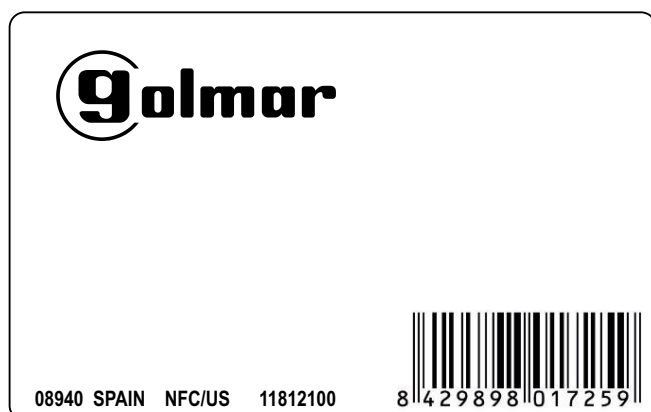
OPERATION OF THE EL4503/NFC MODULE

Description of module operation

Module in standby mode.

In standby mode, the module can perform the following operations:

Activation of the external button: This enables activation of the relay 1 output using the exterior PL1 button.
The button can be configured by means of programming to activate the output by pressing the button and deactivate it after a period of between 3 and 99 seconds has elapsed.

By access card:

Opening by user card/key tag (Residents'): This enables activation of the relay 1 output by waving an added Residents' access card/key tag over the proximity reader, with deactivation after 3 seconds. The module will emit 2 confirmation tones and the LED will light up (green) for one second.

Opening by visiting card (one-access): This enables activation of the relay 1 output by waving an added Visiting card (one-access) over the proximity reader, with deactivation after 3 seconds. The module will emit 2 confirmation tones and the LED will light up (green) for one second.

Notes:
Visiting cards (one-access) enable only 1 use, but are reprogrammable to allow them to be added again.
Visiting cards (one-access) can be added in different access control modules, but can only be used once for each access control.

Opening by visiting card (multi-access): This enables activation of the relay 1 output by waving an added Visiting card (multi-access) over the proximity reader, with deactivation after 3 seconds. The module will emit 2 confirmation tones and the LED will light up (green) for one second.

Notes:
Visiting cards (multi-access) when added enable up to 100 uses, the exact number of which (1 to 100) can be set before adding the card in the module **(mobile with NFC and AC Manager app required (Android only),** see the **TAC Manager manual (code 50124945).**
Visiting cards (multi-access) are not reprogrammable so become unusable once the number of uses configured is reached.

**Note**: The activation time for access cards/key tags can be set at between 3 and 99 seconds .

PROGRAMMING THE EL4503/NFC MODULE

Card and key tag management with the SW1 configuration DIP switch:

Basic configuration of the access control with the SW1 configuration DIP switch. It is located on the top right-hand side of the back of the module.

It enables the adding/removing of Master, access (residents', one-access and multi-access visiting) and Installation cards and key tags. As well as the programming of relay 1 opening times.
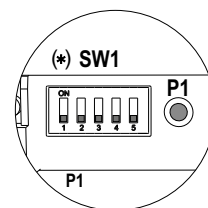
Add user cards/key tags (Master): set DIP switch 2 to ON, the LED on the front will blink (red). Then wave the new NFC/US cards / TAGNFC/US key tags (Golmar) that you wish to add over the proximity reader one by one, the module will emit 2 tones and the LED will light up (green) for one second every time a Master proximity card/key tag is memorised or the LED will blink rapidly (red) if the card/key tag has already been memorised. Up to 30 Master cards can be memorised.
To exit 'Add Master cards/key tags' mode, set DIP switch 2 to OFF, the LED on the front (red) will turn off.

Add user cards/key tags (Residents'): set DIP switch 3 to ON, the LED on the front will blink (red). Then wave the new NFC/US cards / TAGNFC/US key tags (Golmar) that you wish to add over the proximity reader one by one, the module will emit 2 tones and the LED will light up (green) for one second every time a Residents' proximity card/key tag is memorised or the LED will blink rapidly (red) if the card/key tag has already been memorised. To exit 'Add Residents' cards/key tags' mode, set DIP switch 3 to OFF, the LED on the front (red) will turn off.

Add visiting cards (one-access): set DIP switch 3 to ON, the LED on the front will blink (red). Then wave the new NFC/1U cards (Golmar) that you wish to add over the proximity reader one by one, the module will emit 2 tones and the LED will light up (green) for one second every time a Visiting proximity card (one-access) is memorised or the LED will blink rapidly (red) if the card has already been memorised.
To exit 'Add Visiting cards (one-access)' mode, set DIP switch 3 to OFF, the LED on the front (red) will turn off.
Note: Visiting cards (one-access) are reprogrammable to allow them to be added again.

Add visiting cards (multi-access, up to 100 accesses): set DIP switch 3 to ON, the LED on the front will blink (red). Then wave the new NFC/MU cards (Golmar) that you wish to add over the proximity reader one by one, the module will emit 2 tones and the LED will light up (green) for one second every time a Visiting proximity card (multi-access) is memorised or the LED will blink rapidly (red) if the card has already been memorised.
To exit 'Add Visiting cards (multi-access)' mode, set DIP switch 3 to OFF, the LED on the front (red) will turn off.
Note: Visiting cards (multi-access) can be configured with up to 100 accesses when they are added using DIP switch 3 of the module. If you wish to set the number of accesses (from 1 to 99), first open the AC Manager app to set the number and then add the card using the NFC access control module. The card is not reprogrammable so it will become unusable once the number of accesses configured is reached.

Note: Up to 2,000 cards (Residents', one-access and multi-access visiting) can be added. The module will emit an error tone and the green LED will light up to warn of when the memory is full.

Add Installation cards: set DIP switch 4 to ON, the LED on the front will blink (red). Then wave the new NFC/IN cards (Golmar) that you wish to add over the proximity reader one by one, the module will emit 2 tones and the LED will light up (green) for one second every time an Installation proximity card is memorised or the LED will blink rapidly (red) if the card has already been memorised.
Up to 5 installation cards can be memorised.
To exit 'Add Installation cards' mode, set DIP switch 4 to OFF, the LED on the front (red) will turn off.
**Note:** The installation card is for advanced configuration and management of access control **(mobile with NFC and AC Manager app required, Android only),** see the **TAC Manager manual (code 50124945).**

(∗)Factory setting.

PROGRAMMING THE EL4503/NFC MODULE

Continued from previous page
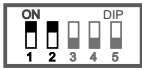
Remove all user cards/key tags (Master): set DIP switches 1 and 2 to ON, the LED on the front will blink (red). Press the P1 button for 5 seconds (the red LED will blink rapidly), then the module will emit 2 tones and the LED will light up (green) for 1 second confirming that all Master cards/key tags have been deleted. To exit 'Remove all user cards/key tags (Master)' mode, set DIP switches 1 and 2 to OFF, the LED on the front (red) will turn off.
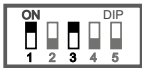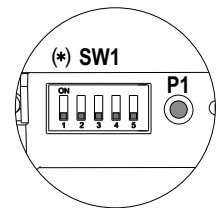
Remove all residents' user cards/key tags (one-access and multi-access visiting): set DIP switches 1 and 3 to ON, the LED on the front will blink (red). Press the P1 button for 5 seconds (the red LED will blink rapidly), then the module will emit 2 tones and the LED will light up (green) for 1 second confirming that all residents' user cards/key tags (one-access and multi-access visiting) have been deleted.
To exit 'Remove all residents' user cards/key tags (one-access and multi-access visiting)' mode, set DIP switches 1 and 3 to OFF, the LED on the front (red) will turn off.

Remove all Installation cards: set DIP switches 1 and 4 to ON, the LED on the front will blink (red). Press the P1 button for 5 seconds (the red LED will blink rapidly), then the module will emit 2 tones and the LED will light up (green) for 1 second confirming that all Installation cards have been deleted.
To exit 'Remove all Installation cards' mode, set DIP switches 1 and 4 to OFF, the LED on the front (red) will turn off.

Remove all cards/key tags (with the exception of 'Installation' cards): set DIP switches 1, 2 and 3 to ON, the LED on the front will blink (red). Press the P1 button for 5 seconds (the red LED will blink rapidly), then the module will emit 2 tones and the LED will light up (green) for 1 second confirming that all cards/key tags have been deleted (with the exception of 'Installation' cards). To exit 'Remove all cards/key tags (except Installation cards)' mode, set DIP switches 1, 2 and 3 to OFF, the LED on the front (red) will turn off.

Programming relay 1 activation time by access with card/key tag: set DIP switch 5 to ON, the LED on the front will blink (red). Press and hold down the P1 button, the red LED will turn off and the green LED will blink; each blink will increase the minimum activation time of 3 seconds already set at the factory by 1 second. Once the desired activation time has been selected, stop pressing the P1 button, the module will then emit 2 short tones and the LED will light up (green) for 1 second confirming the new activation time.
If you wish to reset the default time of 3 seconds, press the P1 button.
To exit 'Relay 1 activation time with card/key tag' mode, set DIP switch 5 to OFF, the LED on the front (red) will turn off.

Programming relay 1 activation time by access with the external PL1 button: set DIP switch 5 to ON, the LED on the front will blink (red). Press and hold down the external PL1 button, the red LED will turn off and the green LED will blink; each blink will increase the minimum activation time of 3 seconds already set at the factory by 1 second. Once the desired activation time has been selected, stop pressing the external PL1 button, the module will then emit 2 short tones and the LED will light up (green) for 1 second confirming the new activation time.
If you wish to reset the default time of 3 seconds, do a short press on the external PL1 button.
To exit 'Relay 1 activation time with the external PL1 button' mode, set DIP switch 5 to OFF, the LED on the front (red) will turn off.

Activating/deactivating confirmation and error tones by access with card/key tag:
The proximity reader enables activation/deactivation of confirmation and error tones by waving an added access card/key tag over it (value 'activated' by default).

To deactivate the tones: The proximity reader must be in standby mode and DIP switches 1 to 5 must be set to OFF. Then, while pressing and holding the P1 button, set DIP switch 5 from ON to OFF once, the LED on the front will blink (green) for 2 seconds and no confirmation tone will be heard.

To activate the tones: The proximity reader must be in standby mode and DIP switches 1 to 5 must be set to OFF. Then, while pressing and holding the P1 button, set DIP switch 5 from ON to OFF once, the LED on the front will blink (green) for 2 seconds and 2 confirmation tone will be heard.

To activate the G2+ compatibility mode, set DIP switch 4 and 5 to ON (see page 43).

PROGRAMMING THE EL4503/NFC MODULE

Management of cards and key tags with the Master card/key tag:

Basic configuration of the access control with the Master card/key tag.

It enables the adding/removing of Master, residents' access (one-access and multi-access visiting) and Installation cards/key tags.

Important: First of all, the Master card(s)/key tag(s) need to be added with the SW1 configuration DIP switch.
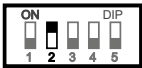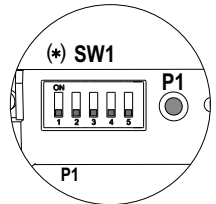
Add user cards/key tags (Master): set DIP switch 2 to ON, the LED on the front will blink (red). Then wave the new NFC/US cards / TAGNFC/US key tags (Golmar) that you wish to add over the proximity reader one by one, the module will emit 2 tones and the LED will light up (green) for one second every time a Master proximity card/key tag is memorised or the LED will blink rapidly (red) if the card/key tag has already been memorised.

Up to 30 Master cards/key tags can be memorised. Assigning a group of cards/key tags (Residents', one-access visiting and multi-access visiting) to each Master card is for advanced configuration and management of the access control **(mobile with NFC and AC Manager app required, Android only),** see the **TAC Manager manual (code 50124945).**

To exit 'Add Master cards/key tags' mode, set DIP switch 2 to OFF, the LED on the front (red) will turn off.

Once the Master cards/key tags have been added, the rest of the cards/key tags will be added.

Add Residents' access (one-access and multi-access visiting) and Installation cards/key tags:

-Step 1: Wave a Master card/key tag over the proximity reader, the LED on the front will light up (red).

-Step 2: Wave the new Residents' NFC/US cards / TAGNFC/US key tags (Golmar) that you wish to add over the proximity reader one by one, the module will emit 2 tones and the LED will light up (green) for one second every time a Residents' access card/key tag is memorised or the LED will blink rapidly (red) if the card has already been memorised.

-Step 3: Wave the Golmar NFC/1U one-access Visiting cards that you wish to add over the proximity reader one by one, the module will emit 2 tones and the LED will light up (green) for one second every time a one-access Visiting card is memorised or the LED will blink rapidly (red) if the card has already been memorised.

-Step 4: Wave the Golmar NFC/MU multi-access Visiting cards that you wish to add over the proximity reader one by one, the module will emit 2 tones and the LED will light up (green) for one second every time a multi-access Visiting card is memorised or the LED will blink rapidly (red) if the card has already been memorised.

-Step 5: Wave the Golmar NFC/IN Installation cards that you wish to add over the proximity reader one by one (maximum 5 installation cards), the module will emit 2 tones and the LED will light up (green) for one second every time an Installation card is memorised or the LED will blink rapidly (red) if the card has already been memorised.

- Step 6: To exit 'Add access and Installation cards' mode, wave the same Master card used in Step 1 over the proximity reader again, the LED on the front (red) will turn off.

Notes:

-The installation card is for advanced configuration and management of the access control **(mobile with NFC and AC Manager app required, Android only),** see the **TAC Manager manual (code 50124945).**
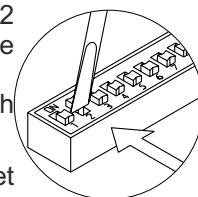
-A maximum of 2,000 cards/key tags can be added in steps 2, 3 and 4. The module will emit an error tone and the green LED will light up to warn of when the memory is full.

Remove Residents' access (one-access and multi-access visiting) and Installation cards/key tags:

-Step 1: Wave a Master card/key tag over the proximity reader, the LED on the front will light up (red).

-Step 2: Wave the Residents' NFC/US cards / TAGNFC/US key tags that you wish to remove over the proximity reader, the LED on the front will blink (red) for a few seconds, the module will emit 2 tones and the LED will light up (green) for one second confirming that the Residents' card/key tag has been removed. Repeat Step 2 if you wish to remove more Residents' cards/key tags.

-Step 3: Wave the NFC/1U one-access Visiting card that you wish to remove over the proximity reader, the LED on the front will blink (red) for a few seconds, the module will emit 2 tones and the LED will light up (green) for one second confirming that the one-access Visiting card has been removed. Repeat Step 3 if you wish to remove more one-access Visiting cards.

-Step 4: Wave the NFC/MU multi-access Visiting card that you wish to remove over the proximity reader, the LED on the front will blink (red) for a few seconds, the module will emit 2 tones and the LED will light up (green) for one second confirming that the multi-access Visiting card has been removed. Repeat Step 4 if you wish to remove more multi-access Visiting cards.

-Step 5: Wave the NFC/IN Installation card that you wish to remove over the proximity reader, the LED on the front will blink (red) for a few seconds, the module will emit 2 tones and the LED will light up (green) for one second confirming that the Installation card has been removed. Repeat Step 5 if you wish to remove more Installation cards.

- Step 6: To exit 'Remove residents' access (one-access and multi-access visiting) and Installation cards/key tags' mode, wave the same Master card/key tag used in Step 1 over the proximity reader again, the LED on the front (red) will turn off.

(∗)Factory setting.   **Continued overleaf**

PROGRAMMING THE EL4503/NFC MODULE

Continued from previous page

Remove a Master card/key tag:
-Step 1: Wave the Master card/key tag that you wish to remove over the proximity reader, the LED on the front will light up (red).
-Step 2: Keeping the Master card/key tag over the proximity reader, after 2 seconds the red LED will start blinking, the module will emit 2 tones and the LED will light up (green) for one second confirming that the Master card/key tag has been removed and the LED of the front will turn off.
-Step 3: Repeat Steps 1 and 2 if you wish to remove another Master card/key tag.

Remove a group of Residents' access (one-access and multi-access visiting) cards/key tags:
-Step 1: Wave a Master card/key tag over the proximity reader, the LED on the front will light up (red).
-Step 2: Wave the Master card/key tag with the number of the group linked to the access cards/key tags (Residents', one-access and multi-access visiting) that you wish to remove over the proximity reader, the LED on the front will blink (red) for a few seconds, the module will emit 2 tones and the LED will light up (green) for one second confirming that the group of access cards/key tags linked to the Master card/key tag waved over the proximity reader in Step 2 has been removed.
-Step 3: Repeat Step 2 if you wish to remove another number of a group of access cards/key tags linked to another Master card/key tag.
-Step 4: To exit 'Remove a group of access cards/key tags' mode, wave the same Master card/key tag used in Step 1 over the proximity reader again, the LED on the front (red) will turn off.
Note:
-'Remove a group of access cards/key tags' mode is for advanced configuration and management of the access control **(mobile with NFC and AC Manager app required, Android only),** see the **TAC Manager manual (code 50124945).**

PROGRAMMING THE MONITORS

Programming TEKNA PLUS SE monitors:

Locate the SW2 configuration DIP switch situated on the top left-hand side of the back of the EL632 PLUS P/T 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, only perform this procedure on the main panel of each building.
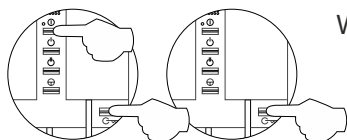
Important: To perform this programming, the monitor's SW2 configuration DIP switches should be set to **OFF**.

Switch off the monitor to be programmed.
Once switched off, press the door release button.

While keeping the door release button pressed, switch on the monitor.

To show that the system is ready for programming, the door panel will emit a number of tones and an image will appear on the monitor, at which point the door release push button can be released. To establish audio communication with the door panel, lift the handset.

Press the door panel 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 *Master*, press button ① for 3 seconds.

To programme it as *Slave 1*, press button ⌐ once, and the status LED will blink (green) once. Continue successively to **Slave 4**, pressing button ⌐ four times, and the status LED will blink (green) four times.

To programme the monitor as *Slave with intercom*, press button ⏻ and the status LED will blink green once.

To programme the monitor as *Slave without video*, press button ⏻ and the status LED will blink green once. If button ⏻ is pressed again, the monitor will return to being programmed as **Slave with video**, and the status LED will blink green twice. The door panel video will be displayed during a call depending on whether the monitor has been programmed as: Slave with video or Slave without video.

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

Make a call to check that the monitor has been successfully programmed. Programme the other monitors 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

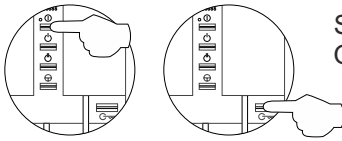### *Programming TEKNA PLUS SE monitors from a general entrance door panel (SW1-1 ON):*
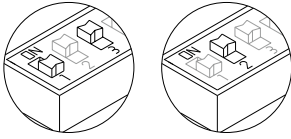
Locate the SW2 configuration DIP switch on the general entrance door panel situated on the top left-hand side of the back of the EL632 PLUS P/T module. With switch 1 OFF and switch 3 ON, set switch 2 to ON: the general entrance door panel will emit a tone indicating that it has entered programming mode.
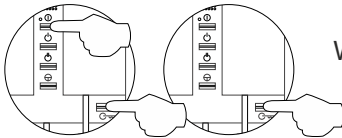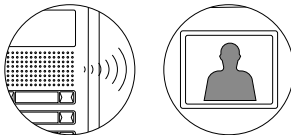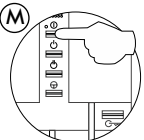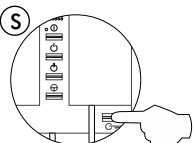
In systems with more than one door panel, only carry out this procedure on the main door panel.

Important: To perform this programming, the monitor's SW2 configuration DIP switches should be set to **OFF**.

Switch off the monitor to be programmed.
Once switched off, press the door release button.

While keeping the door release button pressed, switch on the monitor.

To show that the system is ready for programming, the door panel will emit a number of tones and an image will appear on the monitor, at which point the door release push button can be released. To establish audio communication with the door panel, lift the handset.
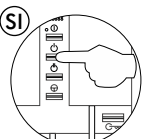
Press the door panel button that will call this monitor.
At this moment the door panel will reproduce a sound and the monitor led will blink.

To programme the monitor as *Master*, press button ① for 3 seconds.

To programme it as *Slave 1*, press button 🔓 once and the status LED will blink (green) once. Continue successively to **Slave 4**, pressing button 🔓 four times, and the status LED will blink (green) four times.
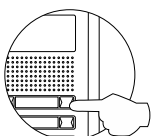
To programme the monitor as *Slave with intercom*, press button ⏻ and the status LED will blink green once.

To programme the monitor as *Slave without video*, press button 🖐 and the status LED will blink green once. If button 🖐 is pressed again, the monitor will return to being programmed as **Slave with video**, and the status LED will blink green twice. The door panel video will be displayed during a call depending on whether the monitor has been programmed as: Slave with video or Slave without video.

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

Make a call to check that the monitor has been successfully programmed. Programme the other monitors 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

### *Programming TEKNA R5 COL SU-R5 monitors:*

Locate the DIP switch situated at the back of the EL632 R5 P/T sound module and set number 2 to ON, as described on p. 15. 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, only perform this procedure on the main panel of each building.
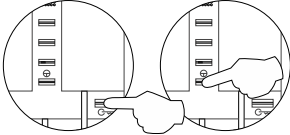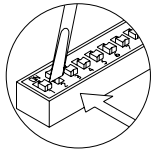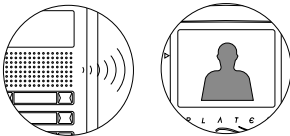
Turn off the monitor to be programmed by holding pressed the door release push button for one second.
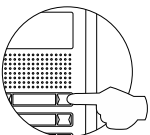Once off, press the auto switch-on button.
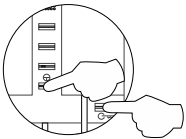
While holding pressed the auto switch-on button, simultaneously press the door release button.

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 buttons can now be released.
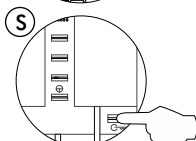Lift the handset off the monitor.
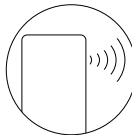
Press the door panel button that will call this monitor.
At this moment both door panel and handset will emit tones.

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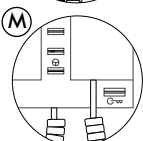
With the handset lifted:
If programming the monitor as master, replace the handset.
If programming it as slave, press the door release push button, then replace the handset.

Master   Slave

Each apartment must only have one master unit; if there are parallel units, either monitors or telephones, they must be configured as slaves.
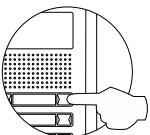
Make a call to check that the monitor has been successfully programmed. Programme the other monitors in the same way.
Once the programming has finished, set the programming switch to OFF. If this is not done, the door panel will emit tones to indicate that the system is still in programming mode.

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.
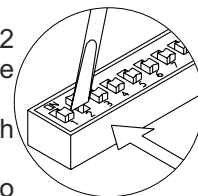
PROGRAMMING THE TELEPHONES
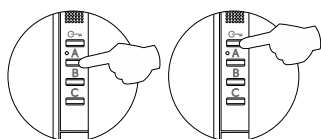
Programming T-540 PLUS SE telephones:

Locate the SW2 configuration DIP switch situated on the top left-hand side of the back of the EL632 PLUS P/T 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, only perform this procedure on the main panel of each building.
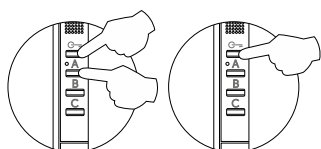
Important: To perform this programming, the telephone's SW1 configuration DIP switch should be set to **OFF**.

Switch off the telephone to be programmed.
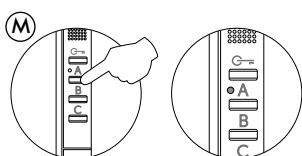Once switched off, press the door release button.

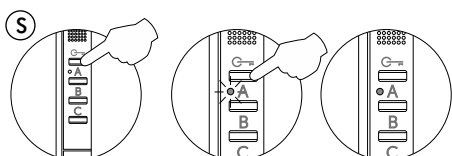While keeping the door release button pressed, switch on the telephone.

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 illuminate red), enabling the door release button to be released. To establish audio communication with the door panel, lift the handset.
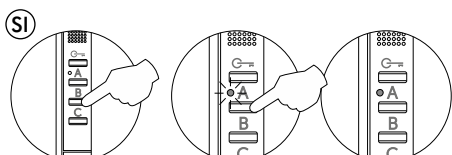
Press the button of the door panel that will call this telephone.
At this moment, the door panel and handset will emit a number of tones (the LED on the telephone will blink red).

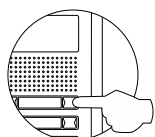(M) To programme the telephone as *Master*, press button A for 3 seconds (the telephone's LED will illuminate red).

(S) To programme it as *Slave 1*, press button ⊙⟲ once and the status LED will blink (green) once. Continue successively to **Slave 4**, pressing button ⊙⟲ four times, and the status LED will blink (green) four times.

(SI) To programme the telephone as *Slave + Intercom*, press button B and the LED will blink (green) once. Then press button A for 3 seconds (the telephone's LED will illuminate red).

Each apartment must only have one master unit; if there are parallel units, either telephones or monitors, 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 SE telephones from a general entrance door panel (SW1-1 ON):
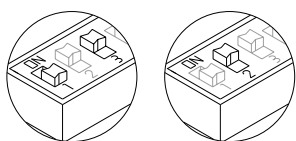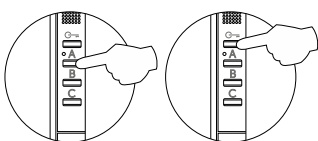
Locate the SW2 configuration DIP switch on the general entrance door panel situated on the top left-hand side of the back of the sound module. With switch 1 OFF and switch 3 ON, set switch 2 to ON: the general entrance door panel will emit a tone indicating that it has entered programming mode.
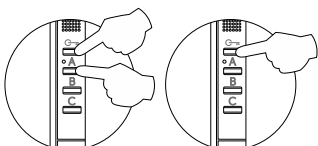
In systems with more than one door panel, only carry out this procedure on the main door panel.

Important: To perform this programming, the telephone's SW1 configuration DIP switch should be set to **OFF**.
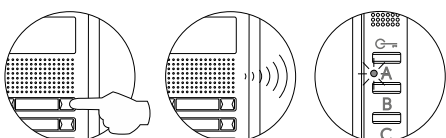
Switch off the telephone to be programmed.
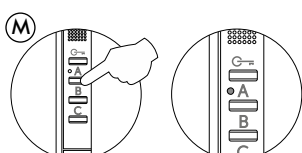Once switched off, press the door release button.

While keeping the door release button pressed, switch on the telephone.
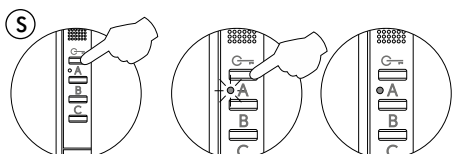
To show that the system is ready for programming, the door panel and the telephone handset will emit a number of tones (the LED on the telephone will illuminate red), enabling the door release button to be released. To establish audio communication with the door panel, lift the handset.
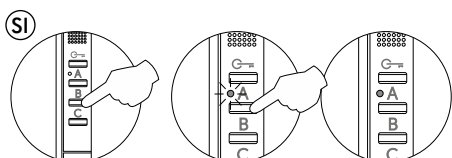
Press the button of the door panel that will call this telephone.
At this moment, the door panel and handset will emit a number of tones (the LED on the telephone will blink red).

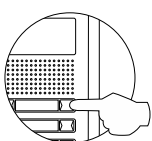(M) To programme the telephone as *Master*, press button A for 3 seconds (the telephone's LED will illuminate red).

(S) To programme it as *Slave 1*, press button ⊙━ once and the status LED will blink (green) once. Continue successively to **Slave 4**, pressing button ⊙━ four times, and the status LED will blink (green) four times.

(SI) To programme the telephone as *Slave + Intercom*, press button B and the LED will blink (green) once. Then press button A for 3 seconds (the telephone's LED will illuminate red).

Each apartment must only have one master unit; if there are parallel units, either telephones or monitors, 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

Programming T-530 R5 SU-R5 telephones:

Locate the DIP switch situated at the back of the sound module and set number 2 to ON, as described on
  p. 15.
  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, only perform this procedure on the main panel of each
  building.
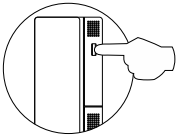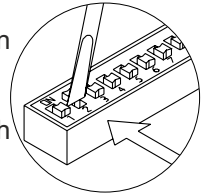
With the door release button pressed, lift the handset of the telephone.

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 button of the door panel that will call this telephone.
    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.

Master   Slave

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

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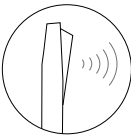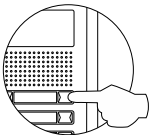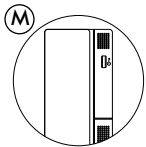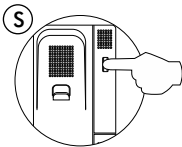 telephones in the same way.
Once the programming has finished, set the programming switch to OFF. If this is not done, the door
  panel will emit tones to indicate that the system is still in programming mode.

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.

EL4503/NFC access control module — **Door panels with EL632 PLUS P/T / EL642 PLUS sound module** — **FA-Plus or FA-Plus/C power supply unit**

MEL4503/NFC access control module — **Door panels with EL632 R5 P/T / EL642/R5 sound module** — **FA-Plus/C power supply unit**

Continued overleaf

WIRING DIAGRAMS

Continued from previous page

| EL4503/NFC access control module | Door panels with EL620/2PLUS sound module | FA-Plus/C power supply unit |

Mains

| EL4503/NFC access control module | Door panels with **EL632/G2+ SE - EL642/G2+** sound module | FA-G2+ power supply unit |

Red

**Lock release
max. 12 Vdc/270mA.**

| EL4503/NFC access control module | Door panels with **EL632/G2+ SE - EL642/G2+** sound module | FA-G2+ power supply unit |

Red

(∗)

**Lock release
max. 12 Vac/850mA.**

SW1

 To activate the G2+ compatibility mode, set DIP switch 4 & 5 to ON (see page 33).

(∗)Important: Fit the varistor supplied with the access control module directly to the terminals of the a.c lock release.

WIRING DIAGRAMS

Continued from previous page

Combined with Nexa Modular / Nexa Stainless Steel panels:

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

EL4503/NFC
access control module

Door panels with EL655
sound module

TF-104
transformer

CN1						
~	~	NA1	C1	NC1	–	PL1

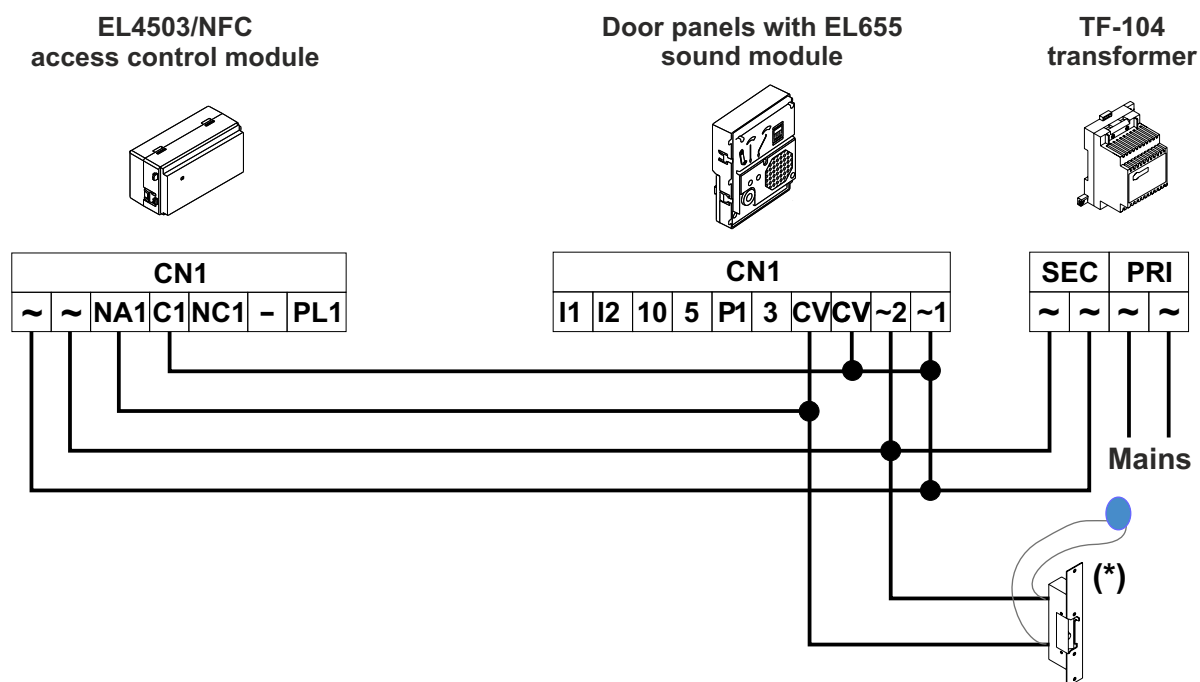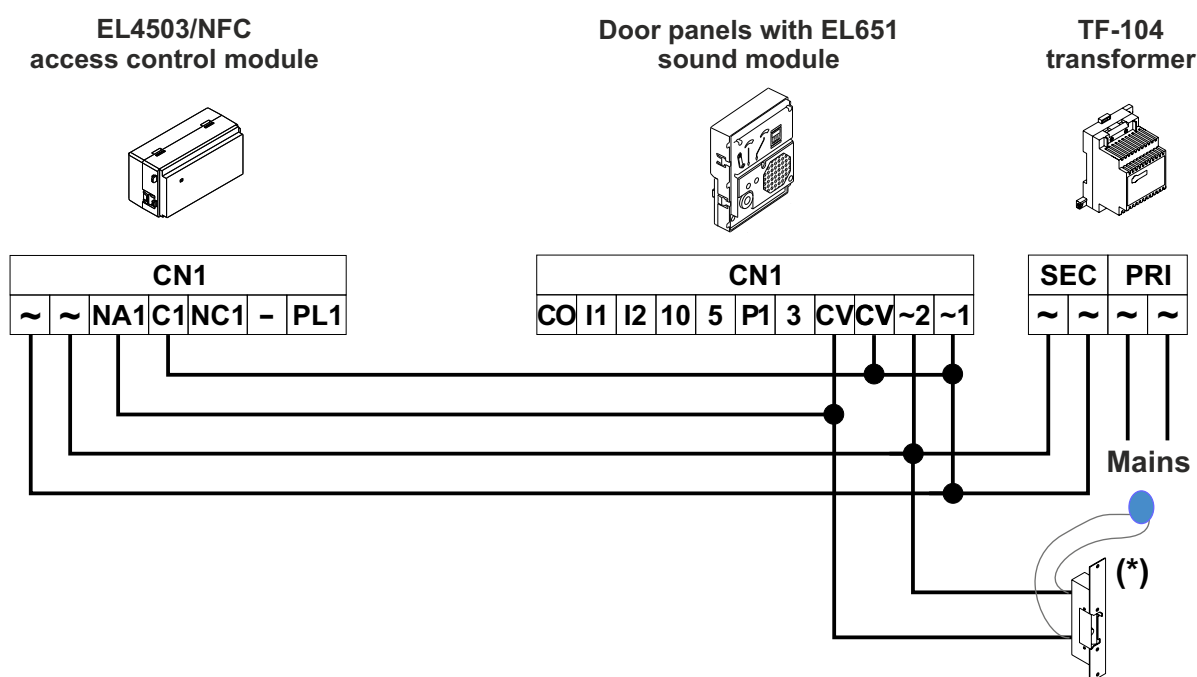| CN1									
I1	I2	10	5	P1	3	CV	CV	~2	~1

SEC		PRI	
~	~	~	~

Mains

(*)

(*) 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 a.c lock release.

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

EL4503/NFC
access control module

Door panels with EL651
sound module

TF-104
transformer

CN1						
~	~	NA1	C1	NC1	–	PL1

CN1										
CO	I1	I2	10	5	P1	3	CV	CV	~2	~1

SEC		PRI	
~	~	~	~

Mains

(*)

(*) 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 a.c lock release.
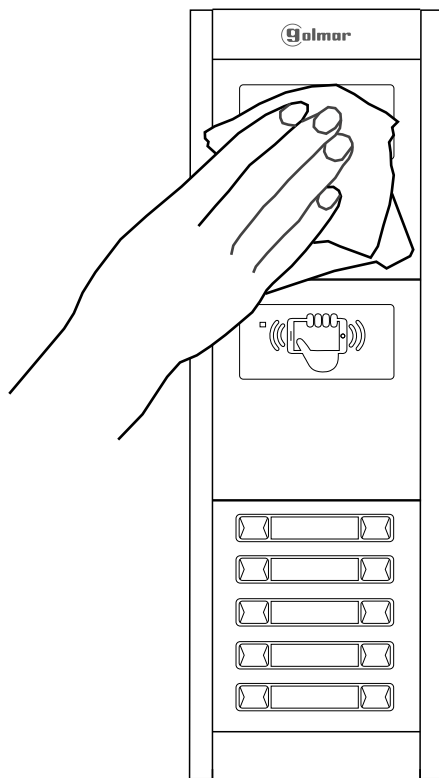
CLEANING THE DOOR PANEL

- Do not use solvents, detergents or cleaning products that contain acids, vinegar or abrasive components.

- Use a soft damp lint-free cloth with water.

- Always wipe the door panel in the same direction, from top to bottom.

- After cleaning the monitor, remove any moisture with a soft dry lint-free cloth.

COMPLIANCE:

Este producto es conforme con las disposiciones de las Directivas Europeas aplicables respecto a la Seguridad Eléctrica *2014/35/CEE* y la Compatibilidad Electromagnética *2014/30/CEE.*

El módulo EL4503/NFC también es conforme con las disposiciones de las Directivas Europeas aplicables respecto a Equipos de Radio *2014/53/CEE.*

This product meets the essentials requirements of applicable European Directives regarding Electrical Safety 2014/35/ECC and Electromagnetic Compatibility 2014/30/ECC.

Additionally, EL4503/NFC module meets the essentials requirements of applicable European Directives regarding Radio Equipment 2014/53/ECC.

NOTA: El funcionamiento de este equipo está sujeto a las siguientes condiciones:
(1) Este dispositivo no puede provocar interferencias dañinas, y (2) debe aceptar cualquier interferencia recibida, incluyendo las que pueden provocar un funcionamiento no deseado.

NOTE: Operation is subject to the following conditions:
(1) This device may not cause harmful interference, and (2) this device must accept any received interference, including the ones that may cause undesired operation.

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