



C6d. 50124602

Video Kit  
3 + coax  
4 + tp

# Rock Series

Installation manual

**T801ML** rev.0216



First of all we would like to thank and congratulate you for the purchase of this product manufactured by Golmar.

The commitment to reach the satisfaction of our customers is stated through the ISO-9001 certification and for the manufacturing of products like this one.

Its advanced technology and exacting quality control will do that customers and users enjoy with the legion of features this system offers. To obtain the maximum profit of these features and a properly wired installation, we kindly recommend you to expend a few minutes of your time to read this manual.

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## STARTING RECOMMENDATIONS

- ☛ Do not use excessive force when tightening the power supply connector screws.
- ☛ The entire installation must be at least **40cm.** away from any **other installation.**
- ☛ Before to connect the system, check the connections between door panel, monitors, telephones, and the transformer connection. Do always follow the enclosed information.
- ☛ Each time the power supply is restarted, or after a modification, the system will remain blocked during 45 seconds.
- ☛ Always use **RG-59 B/U MIL C-17** or **RG-11** coaxial cables, (see page 69). **Never use coaxial antenna cable.** In installations no longer than 100m., **Golmar RAP-5130** cable can be used.



- ☞ Install or modify the equipment **without the power connected.**
- ☞ The installation and handling of these equipments must be performed by **authorised personnel.**
- ☞ The entire installation must be at least **40 cm.** away from any **other installation.**
- ☞ With power supply:
  - ☞ Do not use excessive force when tightening the connector screws.
  - ☞ Install the power supply in a dry and protected place without risk of drip or water projections.
  - ☞ Avoid to place it near to heating sources, in dusty locations or smoky environments.
  - ☞ Do not block ventilation holes of the unit so that air can circulate freely.
  - ☞ To avoid damage, the power supply has to be firmly fixed.
  - ☞ To avoid an electrical shock, neither remove the protection cover nor handle the connected wire in the terminals.
- ☞ With monitor, telephones and distributor:
  - ☞ Do not use excessive force when tightening the connector screws.
  - ☞ Install the power supply in a dry and protected place without risk of drip or water projections.
  - ☞ Avoid to place it near to heating sources, in dusty locations or smoky environments.
  - ☞ Do not block ventilation holes of the equipments so that air can circulate freely.
- ☞ Remember, the installation and handling of these equipments must be performed by authorized personnel and in the absence of electrical current.
- ☞ Do always follow the enclosed information.

## SYSTEM CHARACTERISTICS

- ☞ Microprocessed video system with **3 wires+coaxial installation or 4 wires+twisted pair installation without making any change on the doorpanel.** Uno technology.
- ☞ **IP-44 sealed door panel and anti-vandal IK-09.**
- ☞ Compatible with Tekna Plus monitors and telephones Uno and Plus.
- ☞ Compatible with electronic audio systems or video systems with four common wires, three wires + coaxial or four wires + twisted pair installations.
- ☞ Unlimited door panel number without using commutation units.
- ☞ Combinable with code general entrance panels, up to 250 internal houses.
- ☞ Maximum distance between door panel and monitor: 200m.
- ☞ Distance from door panel to last monitor is largest than 200 m, it will be necessary to use the digital repeater RD-Plus/Uno SE.
- ☞ Phone tones to confirm call and busy line.
- ☞ Temporized door opening for three seconds.
- ☞ Direct current or alternative current lock release activated by means of a relay.
- ☞ **Up to two monitors and one phone in each house without extra power supply.**
- ☞ In Tekna Plus SE Color monitors:(for installation Plus/ Uno).
  - ☞ Privacy on audio and video communications.
  - ☞ "Autoswitch-on" function.
  - ☞ "Video-spy" function with the communication channel remaining free.
  - ☞ Call volume control: maximum, medium and minimum.
  - ☞ Intercommunication function with other monitor o telephone of the same apartment.
  - ☞ Input for external door bell push button.
  - ☞ Negative output for additional call repeater (maximum current 250mA).
  - ☞ Call to a master and slave porter's exchange. Panic call to the porter's exchange.
  - ☞ Dip switches for quick programming mode monitor.
  - ☞ Activation of two auxiliary devices: secondary telecamera, courtesy light, ...
  - ☞ "Doctor mode" function (automatic door opening).
  - ☞ Input for external door release push button.
  - ☞ Brightness and color control.
  - ☞ Different call reception tones depending where the call is coming from: door panel, door bell push button, intercom., porter's exchange.

**Continue**



## Coming from previous page

- ☛ With T-540 Plus telephones:
  - ☞ Privacy on audio communications.
  - ☞ Three-position control for call volume: maximum, medium and off.
  - ☞ Input for external door bell push button.
  - ☞ Input for external door release push button.
  - ☞ Negative output for additional call repeater (maximum current 250mA).
  - ☞ Call to a master porter's exchange.
  - ☞ Panic call to the porter's exchange.
  - ☞ Allows ones of these functions at once, configuration with dip switch Sw1 (see page 61):
    - ☞ "Autoswitch-on" function.
    - ☞ Negative output for auxiliary relay activation (maximum current 400mA).
    - ☞ Call to a slave porter's exchange.
    - ☞ Intercommunication function with other monitor or telephone of the same apartment.
  - ☞ Different call reception tones depending where the call is coming from: main or slave door panels, door bell push button, intercom and porter's exchange.
- ☛ With T-540 Uno SE telephones:
  - ☞ Privacy on audio communications.
  - ☞ Input for external door bell push button.
  - ☞ Call to a master porter's exchange.
  - ☞ Different call reception tones depending where the call is coming from: main or slave door panel, porter's exchange and door bell push button.

# SYSTEM OPERATION

- ☛ To make a call, the visitor will have to push the door panel button: some acoustic tones will indicate that the call has been done. In this moment, the monitor (phone) of the house receives the call.
- ☛ In devices with several entry doors, the other door panel(s) will be automatically disconnected: if another visitor needs to call, some phone tones will indicate that the channel is busy.
- ☛ The call lasts for 45 seconds; the master Tekna Plus SE monitor shows the image 2 seconds after receiving the call; while the visitor does not perceive it and master monitor's status LED will illuminate (green). If the call is not answered before 45 seconds, the master monitor's status LED will illuminate (red) and the channel will be free.
- ☛ To communicate, lift the handset from the monitor (phone) and the monitor's status LED will illuminate (green).
- ☛ Communication will last for one minute and a half or until the handset is hung up. After the communication, the monitor's status LED will illuminate (red) and the channel will be free.
- ☛ To open the door, press the door opener button during the call or communication: one touch activates the door opener for three seconds.
- ☛ Pages 46, 57 and 61 contain the description of the function buttons.

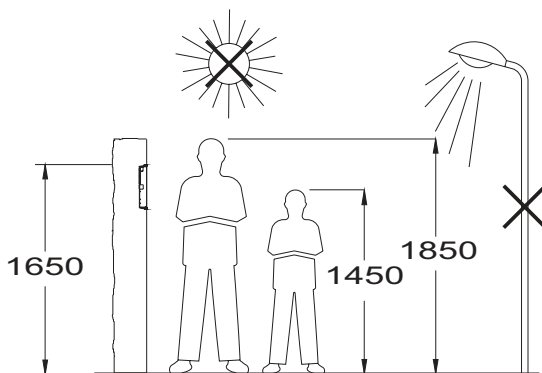
# VERY IMPORTANT NOTE

**This device is delivered fully programmed, so that it can be used with its monitor; if an additional monitor or phone is needed, it must be programmed (pages 51-52, 59 and 63).**

**If this device is part of a system with general door panels, the door panel and the monitor must be programmed as shown on page 64.**



## Positioning of the embedding box

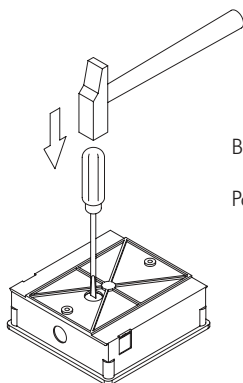


Drill one hole in the wall so that the upper part of the doorpanel is installed at a height of 1,65m.

Drill dimensions are: 131 (Width) x 131 (Height) x 45 (Depth) mm.

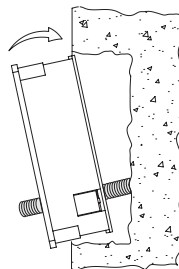
The door panel has been designed to resist several environmental conditions. However, it is better to take additional precautions to ensure a long life for it ( rain shields, covered places...). To obtain image maximum quality in video door entry systems, avoid back lighting caused by light sources (sun, lamps,...).

## Installation of the embedding box



Break the partition wall to enter cables.

Pass the wiring through the hole made in the bottom part of the embedding box. Fix the box in the wall, adjust and level it.  
After the embedding box has been installed, remove the protective stickers from the fixing holes.

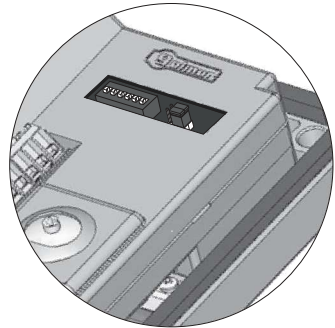




## D

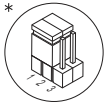
oor panel configuration.

The door panel is provided with microswitches (SW1) and a jumper (JP1) in its rear part; Their functions are described below.

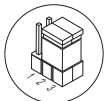


### JP1

\*

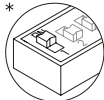
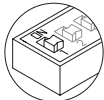


It allows the connection of an alternative current door opener; page 69 shows the connection diagram.

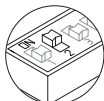
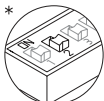


It allows the connection of a direct current door opener; page 69 shows the connection diagram.

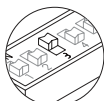
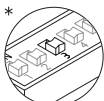
### SW1



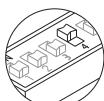
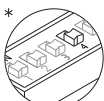
When this switch is ON, the door panel can autoswitch-on (audio and/or video communication without any call). In buildings with several door panels, just activate this function in one of them. In systems equipped with a general door panel, this function can be activated in one door panel of each detached house.



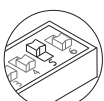
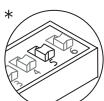
Select ON for monitors and telephones programming. Once the programming progress is finished return the switch to OFF position. Page 51-52 describes monitors program method; while pages 59 and 63 describes telephones program method.



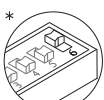
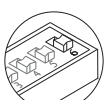
Select OFF in case of a main door panel. Each system must be equipped with just one main door panel; all the others must be slave door panels (ON). In systems provided with a general door panel, one door panel of each house will be configured as main door panel.



Select OFF if the door panel is provided with a camera. Select ON if it has no camera.



With a general door panel, select ON to program the backbone installation. Once the programming progress is finished return the switch to OFF position. Page 64 describes the program method.



Equip the installation with a communication resistance. To ensure a correct operation, this resistance must be activated only in the door panel which is the nearest to the backbone installation or in the general door panel (if one exists). If any RD-Plus/Uno SE repeater is used, it must be deactivated in the door panels behind it.

**\*Factory value**



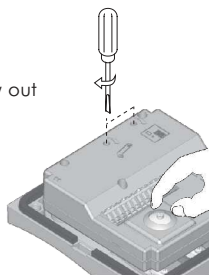
## Final adjustments

If, when using the device, audio volume is inadequate, it is necessary to carry out some adjustments, as shown in the picture.

The camera is equipped with an horizontal and vertical orientation device.

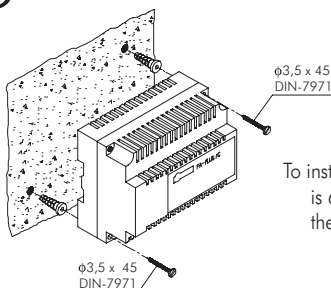
If orientation is not correct, change it.

Fix the doorpanel to the embedding box by means of the proper screws.



## POWER SUPPLY INSTALLATION

### Detail of FA-805 power supply installation.



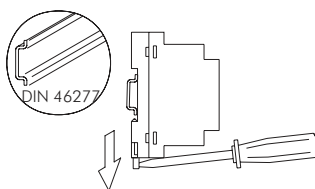
Install the power supply in a dry sheltered place.

Remember that, according to the regulations in force, it is necessary to protect the power supply by means of a magnetothermic switch.

To install the power supply in the wall, drill two holes whose diameter is 6mm and insert the plugs. Fix the power supply by means of the proper screws.

The power supply can be installed on a DIN 46277 guide rail (6 elements) pushing it slightly.

To remove the power supply from the guide rail, put a flat screwdriver under the edge and prise it open as shown in the picture.



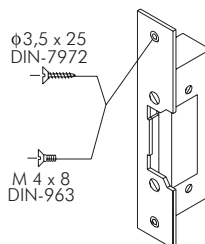
## LOCK RELEASE INSTALLATION

### Detail of the lock release installation.

If the lock release must be installed on a metal door, use a 3,5mm drill and thread the hole.

If it must be installed on a wooden door, use a 3mm drill.

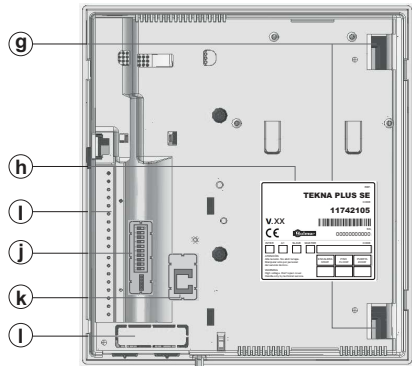
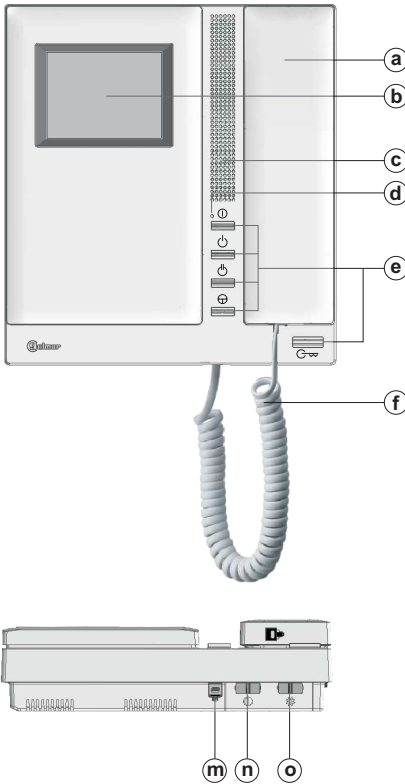
**WARNING:** See connection diagrams on page 69.





# MONITOR DESCRIPTION

## Description of the Tekna Plus SE monitor.



- a. Handset.
- b. Colour screen.
- c. Advanced programming LED.
- d. Monitor status LED (bicoloured):
  - Standby: LED illuminated red.
  - Call: LED illuminated green (master monitor)
  - Communication: LED illuminated green.
  - "Video-spy" if busy bus: LED fast blinking red.(With monitor V03 or later).
- Night mode: LED blinking red.
- Doctor mode: LED blinking green.
- e. Function / programming push buttons.
- f. Telephone cord.
- g. Attachment holes.
- h. Identification label.
- i. Connecting points.
- j. Dip switches.
- k. RJ-45 connector (installating with UTP cable).
- l. CN4 connector.
- m. Cord connector.
- n. Color control.
- o. Brightness control.

## Description of the identification label.

<b>TEKNA PLUS SE</b>				REF
CODE				
<b>11742105</b>				
V.XX				
CE				
000000000000				
INTER	A1	SLAVE	MASTER	CODE
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
ATENCIÓN Atta tencción. No abrir la tapa. Manipular sólo por personal del servicio técnico.				
ESCALERA STAIR		FISO FLOOR	PUERTA DOOR	
<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	
WARNING: High voltage. Don't open cover. Handle only by technical service.				

For an easiest repair, replacement or increase of the existing monitors, fill the indentifying label information.

MASTER: master monitor.

SLAVE: slave monitor.

INTER: slave monitor with intercom function.

A1: monitor connected to an auxiliary device.

CODE: push button code.

STAIR: backbone code (villa).



## Function push buttons.



One short press for 1 second, with the monitor in standby and the handset on or off the hook, activates night mode on the monitor, confirmed by the status LED blinking red. During a call, the monitor does not emit a ringtone unless it is an "apartment front door call".

One long press for 3 seconds, with the monitor in standby and the handset on or off the hook, turns the monitor on or off. After any resetting of the monitor and for the following 45 seconds, no operation with it can be performed.

One long press for 3 seconds during a call cancels the call on the monitor. If there are more monitors in the apartment, they will continue with the ringtones of the door panel. During communication with the door panel, the communication in progress will end.



With the handset lifted, the intercom (in the same apartment) is activated. One long press until a confirmation tone can be heard will call all of the monitors in the apartment. To call individual devices, press the button once to call the "master" monitor, twice to call "slave 1", 3 times to call "slave 2", 4 times to call "slave 3" and 5 times to call "slave 4". This selective intercom call mode is only available with the Tekna Plus SE monitor. This only functions if no call or communication is in progress. **Remind:** Up to two monitors and one phone in each house without extra power supply.





Regardless of the position of the handset, the auxiliary device is activated.



With the handset hung up, the image from the door panel configured as master can be viewed (if busy bus, the monitor status LED will indicate with fast blinking red. **With monitor V03 or later**). With the handset lifted, audio and video communication can be established with the door panel if it has its auto switch-on function activated. This only functions if no communication is in progress.



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

(\*) In advanced programming mode, the default functions push buttons  and  can be changed with one of the following functions at the same time and per button: "intercom", "auxiliary device activation", "Second camera activation" or "call to secondary guard unit" (see page 54).

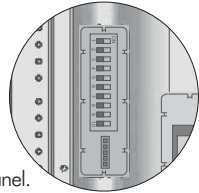


# MONITOR DESCRIPTION

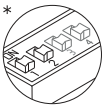
## Description of the SW2 DIP switch (quick programming mode).

The SW2 DIP switch is located on the left-hand side of the back of the monitor.

It enables the monitor to be configured as master / slave and an address to be assigned.

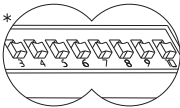


**Important:** This type of programming cannot be performed on a general door panel.



Dip1 and Dip2: To set the the monitor as master / slave. Dip1 and Dip2 to OFF master, Dip1 to ON and Dip2 to OFF slave 1, Dip1 to OFF and Dip2 to ON slave 2, Dip1 and Dip2 to ON slave 3.

**Remind:** Up to two monitors and one phone in each house without extra power supply.



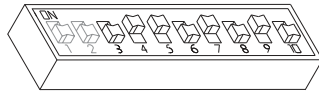
Dip3 to Dip10: To set the monitor address.

This kit video SV-801 SE, **must be set the monitor only with address "106"**. The switches set to OFF have a zero value..

The values of the switches set to ON are shown in the table below.

The monitor code is the sum of the values of the switches set to ON.

Switch number:	3	4	5	6	7	8	9	10
Value when ON:	128	64	32	16	8	4	2	1



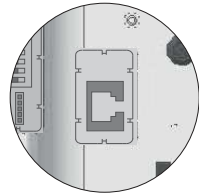
Example:  $0 + 64 + 32 + 0 + 8 + 0 + 2 + 0 = 106$

**\*Factory default**

## Description of the RJ-45 connector (installation with UTP cable).

The monitor features an RJ-45 connector for installation with a UTP cable. It is located on the left-hand side of the back of the monitor.

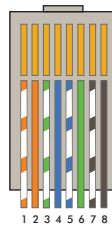
It enables connection of the system's main communication wires (+, -, A, D, Vp y Mp) in twisted-pair installations.



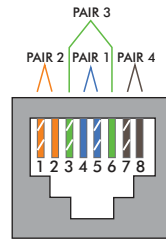
**RJ-45 equivalence table**

Pin	Ethernet cable	Golmar connection
1	White + Orange	GND (Audio)
2	Orange	Audio
3	White + Green	GND (Data)
4	Blue	+18V
5	White + Blue	+18V
6	Green	Data
7	White + Brown	Vp
8	Brown	Mp

**RJ-45 connector (Cable type: T568B)**



Male connector

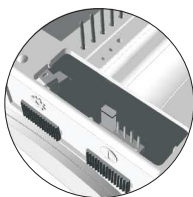


Female connector

**NOTE:** For this type of installation, contact our Golmar technical support department.



Use of the end of line jumper.

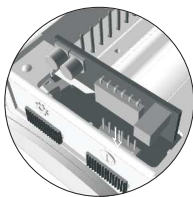


The end of line jumper is located in CN4 connector, in the rear part of the monitor. In systems with twisted pair, the end of line jumper is located in the EL562 module (see next paragraph)

Do not remove jumper in those monitors where the video cable end is located.

Remove jumper only in intermediate monitors.

EL562 module for video installations with twisted pair.



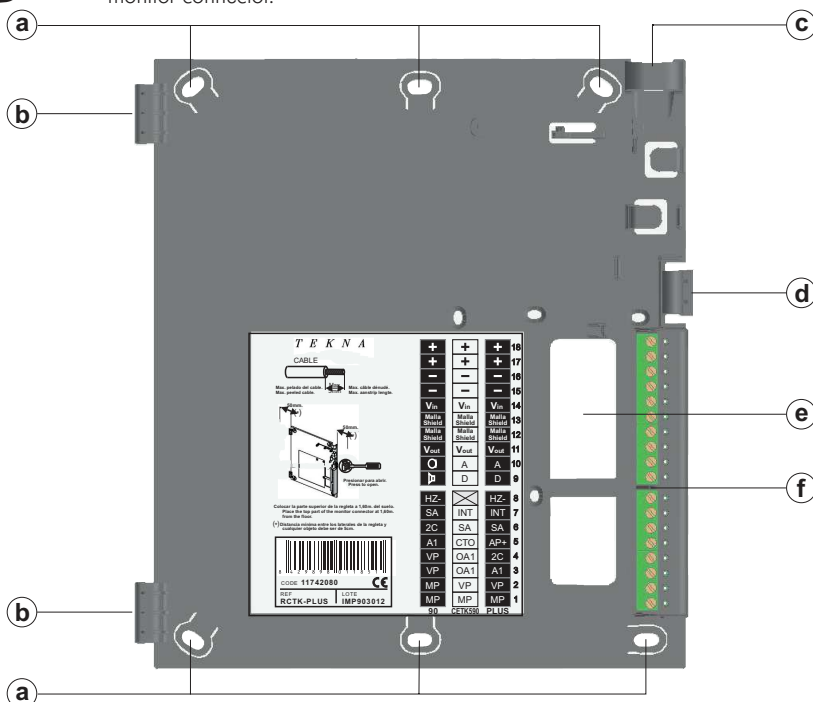
Find CN4 connector in the rear part of the monitor.

Before plug the EL562 module, remove the existing jumper.

**NOTE:** The door panel admits both installation types (coaxial or twisted pair installation) without making any change.  
See the specific installation diagram.



## Description of the RCTK-PLUS monitor connector.



a. Wall attachment hole (x6).

b. Monitor attachment hook (x2).

c. Vertical wiring input.

d. Attachment clip.

e. Wiring input hole.

f. Installation terminals: +, -: positive, negative (18Vdc).  
 Vin : video signal coaxial input.  
 Malla: coaxial shield.  
 Vout : video signal coaxial output.  
 A : audio communication.  
 D : digital communication.  
 HZ- : door bell push button input.  
 INT : intercom.  
 SA : (negative) output for additional call repeater (max. current 250mA).  
 AP+ : input for external door release push button.  
 2C : (negative) output for 2nd camera activation (max. current 50mA).  
 A1 : (negative) output for optional device activation (max. current 50mA).  
 Vp, Mp : twisted pair video signal.

Terminals +, - and Malla (shield) are duplicated for easiest cascade installation of parallel monitors or telephones. If the first monitor is not placed on the connector, cascade units will not be powered.

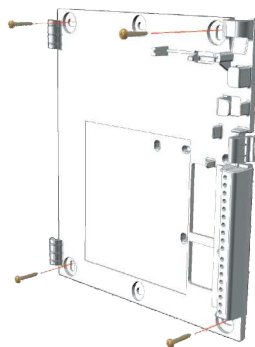


**F**ix the monitor connector to the wall.

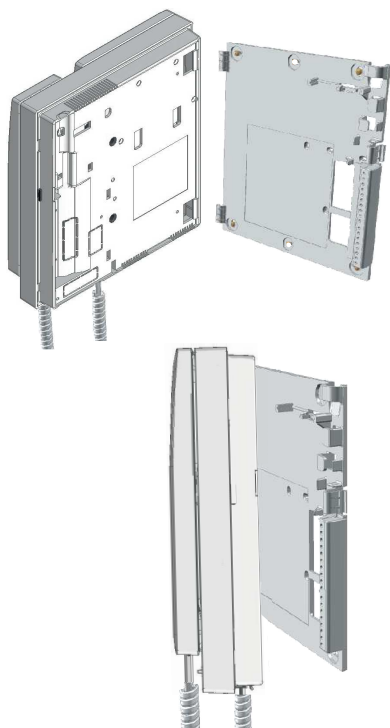
Avoid to place the monitor near to heating sources, in dusty locations or smoky environments.

To install the monitor directly over the wall, drill two holes of  $\varnothing 6\text{mm}$ . and use the supplied screws.

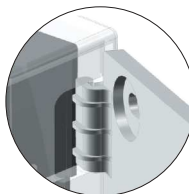
**The upper part of the monitor connector must be placed at 1,60m. height roughly. The minimum distance between the monitor connector and the closest object must be 5cm.**



**F**ix the monitor.



Place the monitor at right angles to the connector and align the attaching holes of the monitor with the attachment hooks of the connector, as it is shown on the drawing.



Lock out the monitor. Press the right side till the attachment clip locks the monitor firmly.

To disassemble the monitor from the connector, use a plain screwdriver to release the attachment clip. Remove the monitor from the connector, with special attention do not falls.



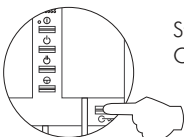
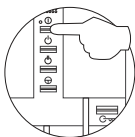
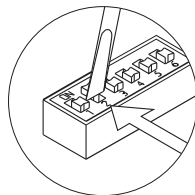


Programming the Tekna Plus SE monitors.

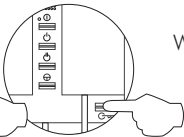
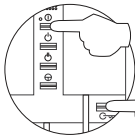
**REMEMBER:** Monitors must be programmed only in case of installed parallel units or if there are general door panels.

Find the configuration switch located in the rear part of the door panel and set number 2 to ON. The door panel will produce a tone, indicating that it has entered program mode. In systems with more than one door panel, this operation must be carried out only in the main door panel of each building.

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



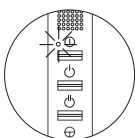
Switch off the monitor to be programmed.  
Once the monitor is off, press the door release push button.



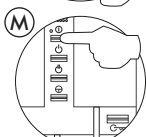
With the door release push button pressed switch on the monitor.



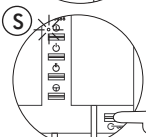
To show that the system is ready for programming, the door panel will reproduce a tone and the picture will appears on the monitor. At this moment, the door release push button can be released. Lift the handset to establish audio communication with the door panel.



Press the door panel push button.  
At this moment the door panel will reproduce a tone and the monitor's led will blink red.

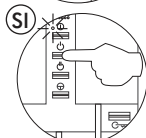


To programme the monitor as **Master**, press button ① for 3 sec.



To programme the monitor as **Slave 1** press button ② once, and the status LED will blink green once. Continue successively to **Slave 4**, pressing button ② four times, with the status LED blinking green four times.

**Remind:** Up to two monitors and one phone in each house without extra power supply.

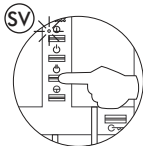




To programme the monitor as **Slave with intercom**, press button ③ and the status LED will blink green once.

**Continue**



Coming from previous page



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 have one master unit only; in case of parallel units configure them as slaves, both monitors or telephones.

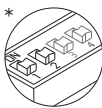
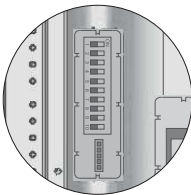


Make a call to check that the monitor has been successfully programmed.  
Repeat these steps to program the rest of monitors.  
Once the programming has been finished, set to OFF the programming switch. If you don't, the door panel will reproduce a tone to advise that the system is still into programming mode.

Description of the SW2 DIP switch (quick programming mode).

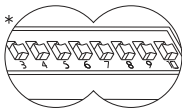
The SW2 DIP switch is located on the left-hand side of the back of the monitor.  
It enables the monitor to be configured as master / slave and an address to be assigned.

**Important:** This type of programming cannot be performed on a general door panel.



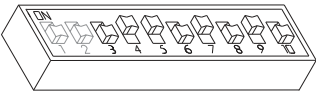
Dip1 and Dip2: To set the the monitor as master / slave. Dip1 and Dip2 to OFF master, Dip1 to ON and Dip2 to OFF slave 1, Dip1 to OFF and Dip2 to ON slave 2, Dip1 and Dip2 to ON slave 3.

**Remind:** Up to two monitors and one phone in each house without extra power supply.



Dip3 to Dip10: To set the monitor address.  
This kit video SV-801 SE, **must be set the monitor only with address "106"**. The switches set to OFF have a zero value..  
The values of the switches set to ON are shown in the table below.  
The monitor code is the sum of the values of the switches set to ON.

Switch number:	3	4	5	6	7	8	9	10
Value when ON:	128	64	32	16	8	4	2	1



Example: 0+64+32+0+8+0+2+0=106

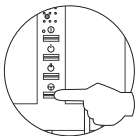
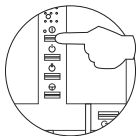
**\*Factory default**




## A

Advanced programming of Tekna Plus SE monitor.

Advanced programming enables the monitor's default settings to be changed:



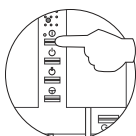
Switch off the monitor to be programmed.


Once switched off, press button  for 3 seconds to enter "Menu 1" of advanced programming, and the programming LED will illuminate.

### Menu 1:

Then adjust the settings as required:

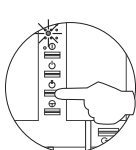
- **Adjusting the call volume:** High volume (default setting).




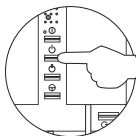
Adjusting the call volume: Press button  to select the required volume. (Options: minimum, medium and maximum). Regardless of the volume set, the "apartment front door call" ringtone will always sound at the highest level.


- **Changing the ring tone melody:**

The monitor has different ringtones to identify the origin of the call. The melodies assigned by default to the ringtones can be selected from among others available on the monitor.




Select the ringtone to be changed: Each press on button  selects a ringtone which is indicated with blinks (1 to 4 blinks) of the programming LED and in the following order: door panel, guard unit, intercom call and "HZ" apartment front door call. When the final selection is reached, the following press returns the user to the first selection and 1 blink of the programming LED (carousel mode).

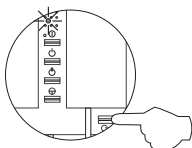



Then select the melody for the ringtone (selected in the previous step) by pressing button  until the required "carousel mode" melody is heard.

- **Activating / deactivating the doctor mode function:** Doctor mode not activated (default setting).

The "doctor mode" function enables the door release to be activated automatically 6 seconds after making a call from the door panel without having to establish communication or press door release button . The call ends after 20 seconds and the channel is freed.

(Only the master monitor should be configured with "doctor mode").



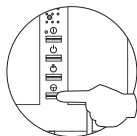
To activate doctor mode: Press button , and the programming LED will indicate with 2 blinks that the function is activated or with 1 blink that the function is deactivated.



**Continue**



**Coming from previous page**

- Accessing "Menu 2" or exiting programming mode:

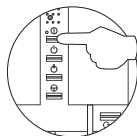


To access "**Menu 2**", press button , and the programming LED will blink twice.  
To exit programming mode, press button  for 3 seconds, and the programming LED will turn off (see page 56).


**Menu 2:**

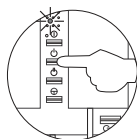
Then adjust the settings as required:



- Button  has no function.




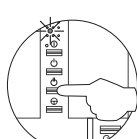
No function.



- Changing the function of button : Intercom function (default setting).



Select the function to assign to button : Each press on button  selects a different function which is indicated with blinks (1 to 4 blinks) of the programming LED and in the following order: auxiliary device activation "A1", call to secondary guard unit, second camera activation "2C" and intercom. When the final selection is reached, the following press returns the user to the first selection and 1 blink of the programming LED (carousel mode).

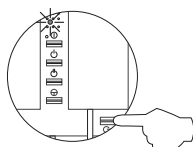
- Changing the function of button : Aux. device activation function "A1" (default setting).




Select the function to assign to button : Each press on button  selects a different function which is indicated with blinks (1 to 4 blinks) of the programming LED and in the following order: auxiliary device activation "A1", call to secondary guard unit, second camera activation "2C" and intercom. When the final selection is reached, the following press returns the user to the first selection and 1 blink of the programming LED (carousel mode).

- Intercom with Tekna Plus monitors: Intercom with Tekna Plus SE monitors (default setting).

If an apartment has Tekna Plus / Tekna Plus SE monitors and T-540 Plus telephones, the Tekna Plus SE monitors should be configured with "Intercom with Tekna Plus monitors" mode, as Tekna Plus monitors and T-540 Plus telephones do not allow an intercom call to a particular monitor/ telephone in the apartment to be made (selective intercom call). So when an intercom call is made, all of the monitors in the apartment will receive the call.



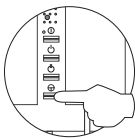
To activate the Intercom with Tekna Plus monitors mode: Press button , and the programming LED will indicate with 1 blink that the function is in "Intercom with Tekna Plus monitors" mode or with 2 blinks that the function is in "Intercom with Tekna Plus SE monitors" mode.

**Continue**



## Coming from previous page

- Accessing "Menú 3" or exiting programming mode:

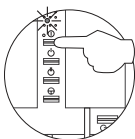


To access "Menu 3", press button  $\oplus$ , and the programming LED will blink 3 times.  
To exit programming mode, press button  $\oplus$  for 3 seconds, and the programming LED will turn off (see page 56).

## Menu 3:

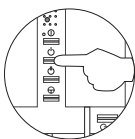
Then adjust the settings as required:

- **Repeating the ringtones:** One repeat (default setting).



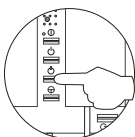
To "repeat the ringtone" on the monitor: Each press on button ① selects a repeat of the ringtones which is indicated with blinks (1 to 3 blinks) of the programming LED and in the following order: 1, 2 or 3 repeats. When the final selection is reached, the following press returns the user to the first selection and 1 blink of the programming LED (carousel mode).

- **Adjusting the "door panel communication time":**



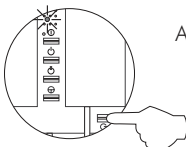
No function with SV-801 SE kit video.

- **Adjusting the "door panel call time":**



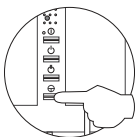
No function with SV-801 SE kit video.

- **Activating the in-call video:** The video appears when a call is received (default setting).



Activating the in-call video: Press button  $\hookrightarrow$ , and the programming LED will indicate with 2 blinks that the video will appear on the monitor when a call is received or with 1 blink that the video will appear at the end of the ringtone.

- **Accessing "Menu 4" or exiting programming mode:**



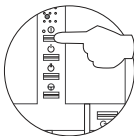
To access "Menu 4", press button  $\oplus$ , and the programming LED will blink 4 times.  
To exit programming mode, press button  $\oplus$  for 3 seconds, and the programming LED will turn off (see page 56).




**Coming from previous page****Menú 4:**

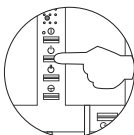
Then adjust the settings as required:

- **Default setting**, all the advanced monitor programming options:



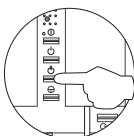
Set to "default setting": Press button ①, and the monitor will indicate with 2 acoustic tones that all the options of the advanced programming of the monitor (pág. 53-56) are with its default setting.  
(With monitor V03 and later).

- Button  has no function.



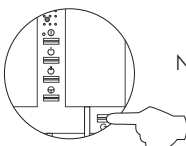
No function.

- Button  has no function.



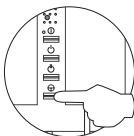
No function.


- Button  has no function.



No function.

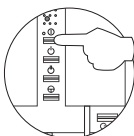
- **Accessing "Menu 1" or exiting programming mode:**



To access "**Menú 1**" press button , and the programming LED will blink once (see page 53).

To exit programming mode press button  for 3 seconds, and the programmin LED will turn off.

- **Turning on the monitor when exiting programming:**



When exiting advanced programming mode, the monitor will turn off: Press button ① for 3 seconds to turn the monitor back on. After any resetting of the monitor and for the following 45 seconds, no operation with it can be performed.

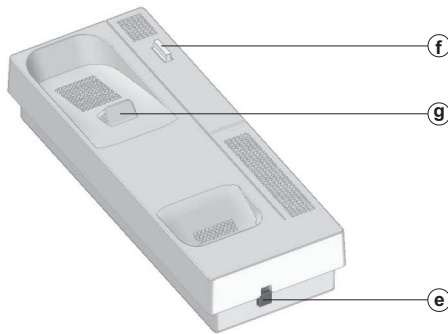


# TELEPHONE DESCRIPTION

## Description of T-540 Uno SE telephone.



- a. Handset
- b. Sound diffusion unit.
- c. Microphone.
- d. Fixing hole.
- e. Phone cord connector.
- f. Function button
- g. Hang up button.

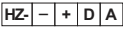


## Function button.

When the handset is lifted, it is possible to make a call to master porter's exchange.  
When a call is received or during communication, it enables the lock release.



## Terminal connector description.



- HZ- : door bell push button input.
- , + : positive, negative (18Vdc).
- D : digital communication.
- A : audio communication.



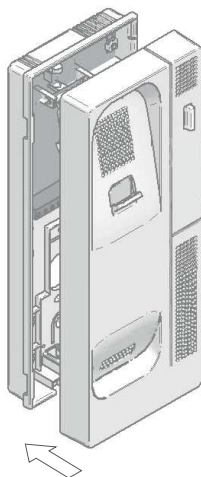
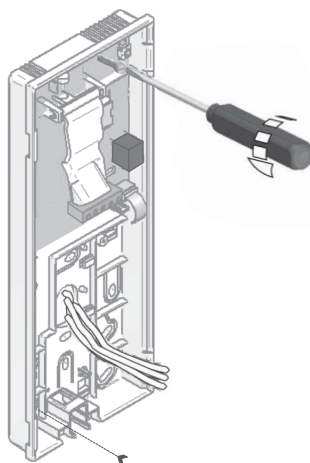
**F**ix the telephone to the wall.



In order to connect the phone and to fix it to the wall, it is necessary to open it.

Put a flat screwdriver in the proper openings as shown in the picture and prise them open.

Do not install the device near heat sources, in places with dust or fumes. The phone can be fixed in a universal box or directly to the wall. To fix it directly to the wall, drill two 6mm holes in the position shown in the picture, by means of 6mm screws and  $\varnothing 3,5 \times 25$ mm screws.



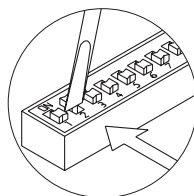
Pass the cables through the proper hole and connect them to the terminal block, as shown in installation diagrams. Close the phone as shown in the picture, then connect the handset by means of the phone cord and hang it up.



**P**rogramming the T-540 Uno SE telephones.

Find the configuration switch located in the rear part of the door panel and set number 2 to ON.

The door panel will produce a tone, indicating that it has entered program mode. In systems with more than one door panel, this operation must be carried out only in the main door panel of each building.

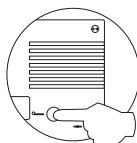


Lift the handset while pressing the lock release push button.



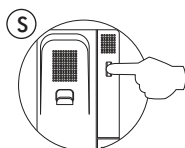
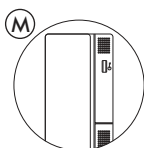
To show that the system is ready for programming, the door panel and handset will reproduce a tone, being possible to establish audio communication.

Release the lock release push button.



Press the door panel push button.

At this moment the door panel and handset will reproduce a tone.



With the handset lifted:

If programming the telephone as **Master**, replace the handset.

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

Each apartment must have one master unit only; in case of parallel units configure them as slaves, both monitors or telephones.



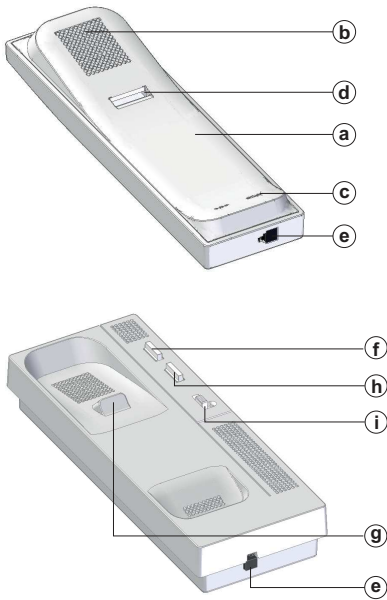
Make a call to check that the telephone has been successfully programmed.

Repeat these steps to program the rest of telephones.

Once the programming has been finished, set to OFF the programming switch. If you don't, the door panel will reproduce a tone to advise that the system is still into programming mode.



Description of the T-540 Plus telephone.



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

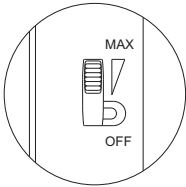
Terminal connector description.

+	-	A	D	AI	-	HZ	SA	+	Int	PA
---	---	---	---	----	---	----	----	---	-----	----

- +, - : Positive, negative (18Vdc).
- A , D : Audio, digital communication.
- AI : Connection to external door release push button.
- HZ : Door bell push button input.
- SA : (Negative) output for aux. calling device SAV-90.  
(Max. current 250mA).
- INT : Intercom.
- PA : (Negative) output for aux. relay activation.  
(Max. current 400mA).

Call volume control.

The telephone allows to regulate the call volume with a maximum, medium and off value. With the help of the switch of three positions placed in the right front of the telephone.





## Function push buttons.

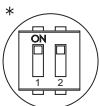
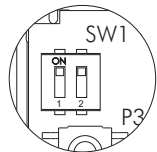


**KEY** If the handset is on the cradle sends a panic call to the porter's exchanges that have enabled the reception of this type of call. If not, allows to call to the master porter's exchange. During call reception and communication progresses allows the lock release activation.

**AUX** Auxiliary function push button, depending on setting in the SW1 dip switch will realize one of the following functions: Autoswitch-on, "PA" output, call to a slave porter's exchange and intercommunication.

## Description of configuration dip switch.

The SW1 configuration dip switch is located in the top part left of the circuit, it is accessed by opening the telephone and allow the next operation modes for the auxiliary function push button:



\* "Autoswitch-on" mode: switches 1 and 2 to ON.

With the handset off the cradle, allows to establish audio communication with the door panel that has been configured with the autoswitch-on function. This function is disabled if a communication is already established.



"PA" output mode: switches 1 to ON and 2 to OFF:

Regardless of the handset's position, it activates the "PA" telephone output.



"Call to a slave porter's exchange" mode: switches 1 to OFF and 2 to ON.

With the handset off the cradle, allows to call to a porter's exchange that it is configured as slave.



"Intercommunication" mode: switches 1 and 2 to OFF.

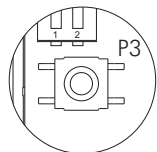
With the handset off the cradle, allows to make an intercom call between two units of the same apartment.

**IMPORTANT:** Select the auxiliary function push button mode before programming the telephone.

\* **Factory default**

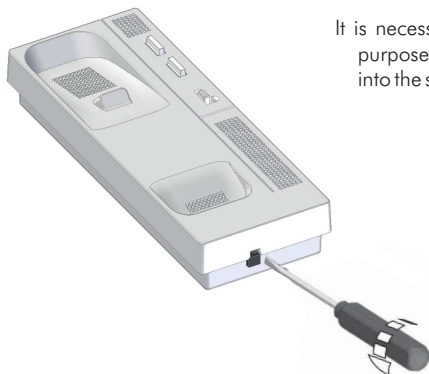
## Description of programming push button.

The P3 programm push button is located in the top part left of the circuit, it is accessed by opening the telephone. Allows to telephone enter in programming mode with the door panel, (see programming process on page 63).



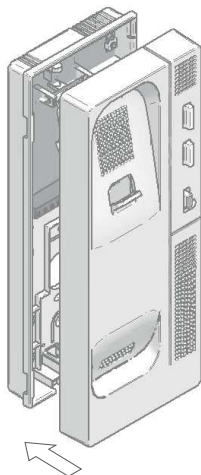
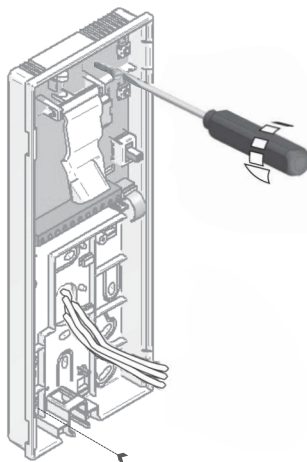


**F**ix the telephone to the wall.



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

Avoid placing the telephone near sources of heat, in dusty locations or smoky environments. The telephone can be fixed using an electrical embedding box or directly on the wall, as shown on the picture. If the telephone will be installed directly over the wall, drill two holes of  $\varnothing 6\text{mm}$  on the specified positions, using 6mm wall plugs and  $\varnothing 3.5 \times 25\text{mm}$  screws.



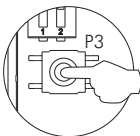
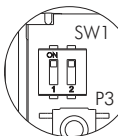
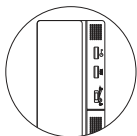
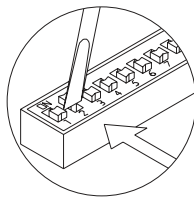
Pass the installation wires through the corresponding hole and connect them as shown on the installation diagrams. Close the telephone as shown on the picture. Once the telephone is closed, connect the handset using the telephone cord and put it on the cradle.



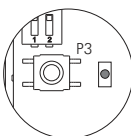
## Programming the T-540 Plus telephones.

Find the configuration switch located in the rear part of the door panel and set number 2 to ON.

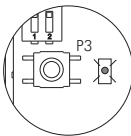
The door panel will produce a tone, indicating that it has entered program mode. In systems with more than one door panel, this operation must be carried out only in the main door panel of each building.



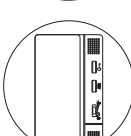
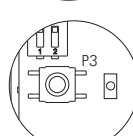
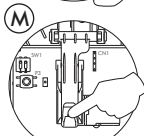
Open the telephone to programming (see page 62). Select in the SW1 dip switch the function mode for the auxiliary function push button (see page 61) and later press the P3 programming push-button.



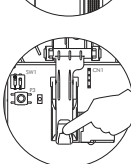
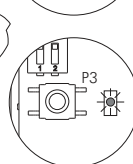
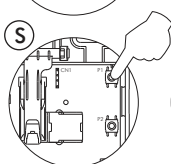
To show that the system is ready for programming, the door panel and the telephone's handset will reproduce a tone (the telephone led will light). Audio communication can be established.



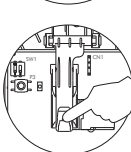
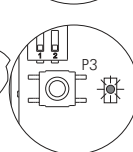
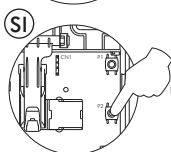
Press the door panel push button:  
At this moment both door panel and handset will reproduce tones (the telephone led will slow blink).



To program the telephone as **Master**, press the hook switch (the telephone led will off).  
Close the telephone.



To program the telephone as **Slave**, press the P1 door release push button (the telephone led will quick blink) and later press the hook switch (the led will off).  
Close the telephone.



To program the telephone as **Slave + Intercom.**, press the P2 auxiliary function push button (the led will quick blink) and later press the hook switch (the led will off).  
Close the telephone.

Each apartment must have one master unit only; in case of parallel units configure them as slaves, both monitors or telephones.



Make a call to check that the telephone has been successfully programmed. Repeat these steps to program the rest of telephones.

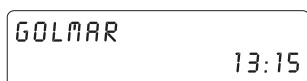
Once the programming has been finished, set to OFF the programming switch. If you don't, the door panel will reproduce a tone to advise that the system is still into programming mode.



This device can work as a partial door panel in building complexes with shared entrances. In this kind of systems, each partial door panel must be programmed with a different backbone code so that shared entrances recognize which is the partial door panel they have to call. To carry out this operation, do as follows.

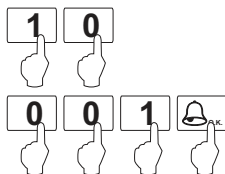
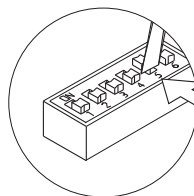
**NOTE:** For this type of installation, please contact the technical trade department of Golmar.

## B Backbone code programming.

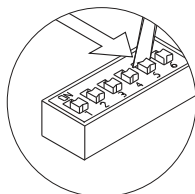


The general door panel enters programming mode after pressing the key button and inserting the installer secret code (factory value 1315). With Code Nexa door panel pressing the key button 3 times and inserting the installer secret code (default setting 2718).

Find the configuration switch located in the rear part of the detached house door panel and set number 5 to ON. Both door panels will produce tones to indicate that program mode is enabled. The coded door panel will display the "PROGRAM" message.



Insert the code of the backbone to be programmed (between 1 and 250), then 001 code and press the bell button. Both door panels will produce tones to indicate that programming has been successfully carried out.



In order to exit program mode, set microswitch number 5 of the detached house door panel to OFF and press "C" button of the general door panel.

**After programming the backbone, program monitors and telephones following the instructions shown on page 51-52, 59 and 63.**

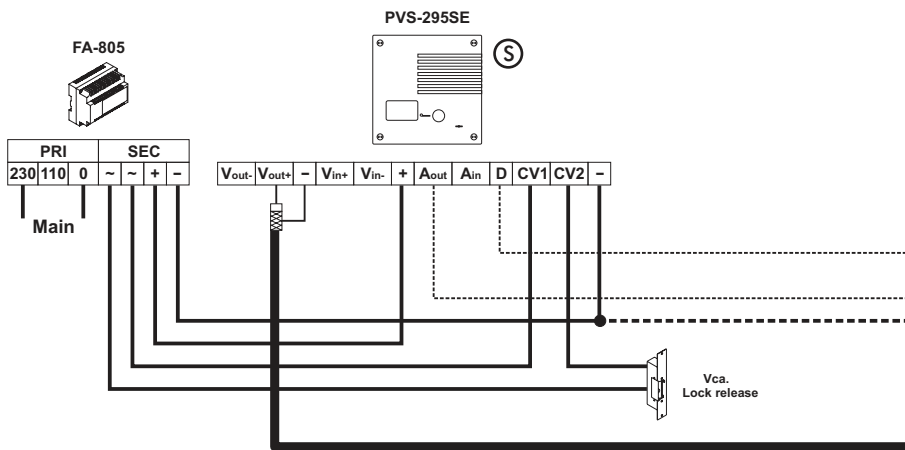
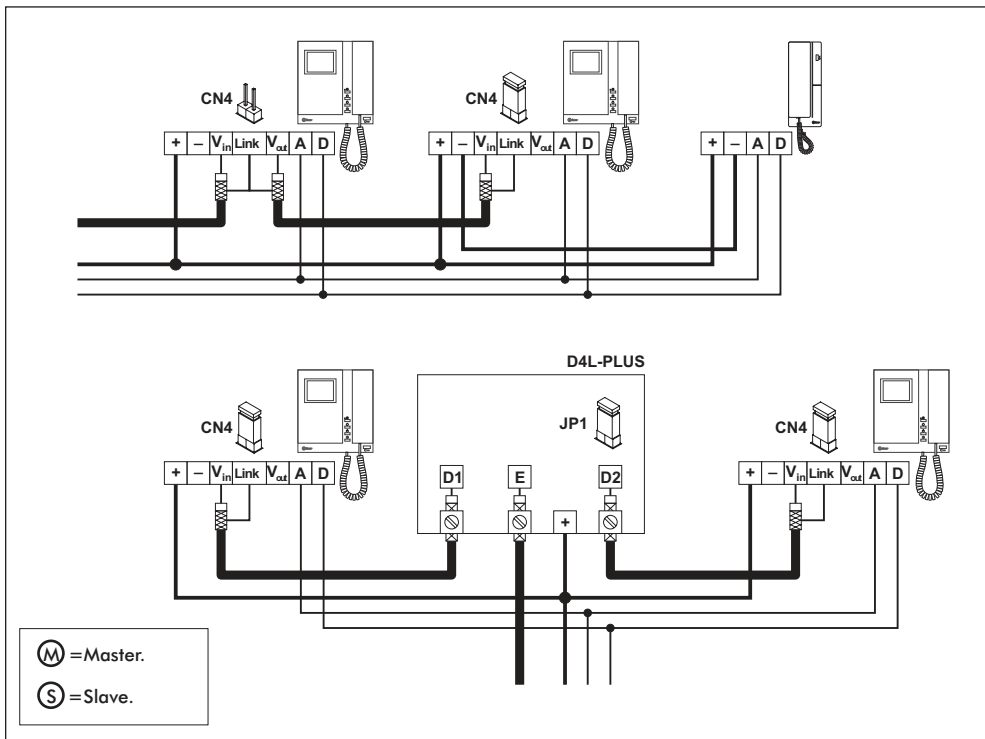
**Program all the other door panels in the same way.**

**Do NOT program more than one house door panel at the same time.**

**REMEMBER:** It is necessary to program the backbone code only if the door panel is part of a system equipped with general door panel/s (see note).



One or more accesses, alternative current lock release and coaxial cable.





**Example of cascade connected devices**

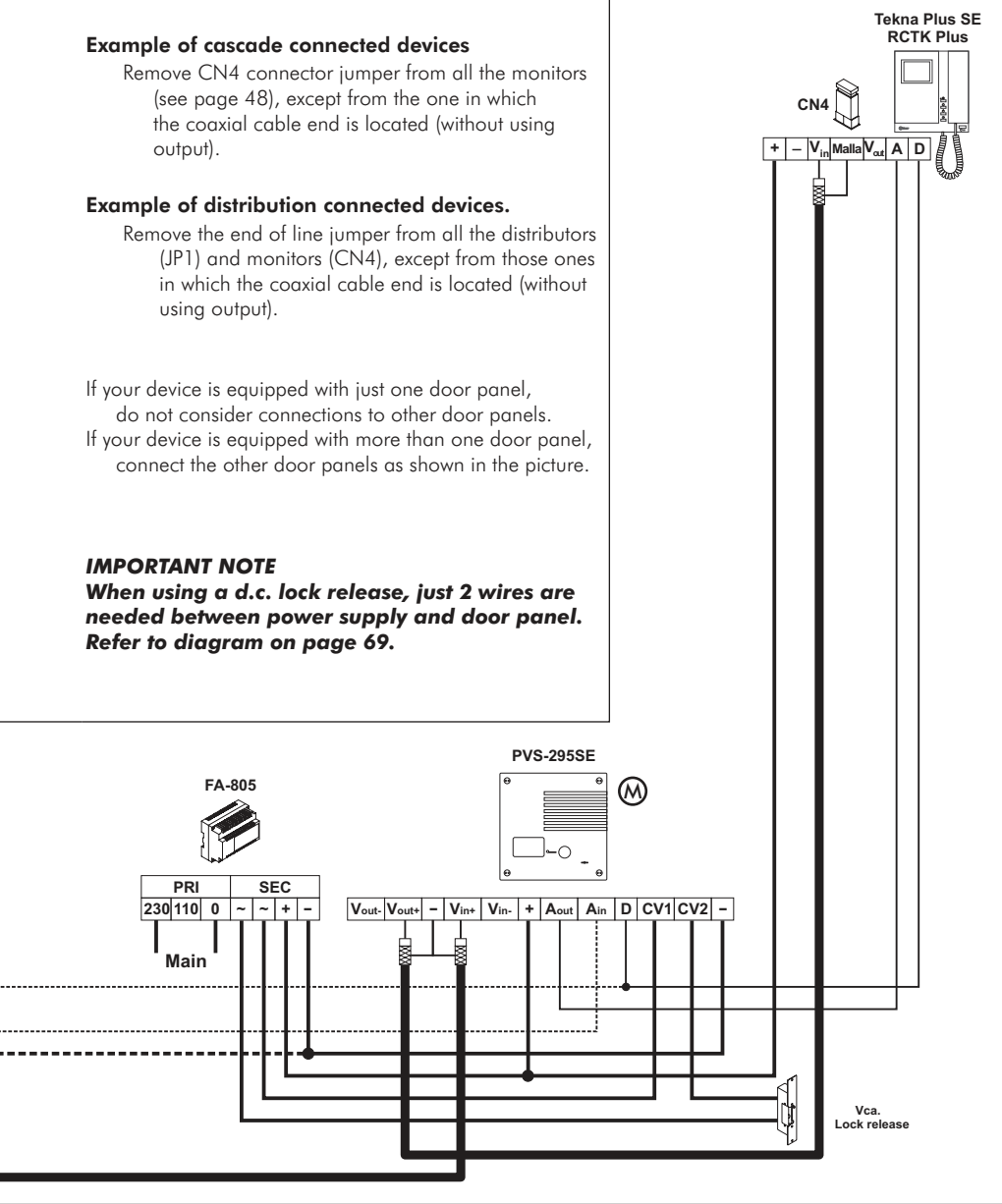
Remove CN4 connector jumper from all the monitors (see page 48), except from the one in which the coaxial cable end is located (without using output).

**Example of distribution connected devices.**

Remove the end of line jumper from all the distributors (JP1) and monitors (CN4), except from those ones in which the coaxial cable end is located (without using output).

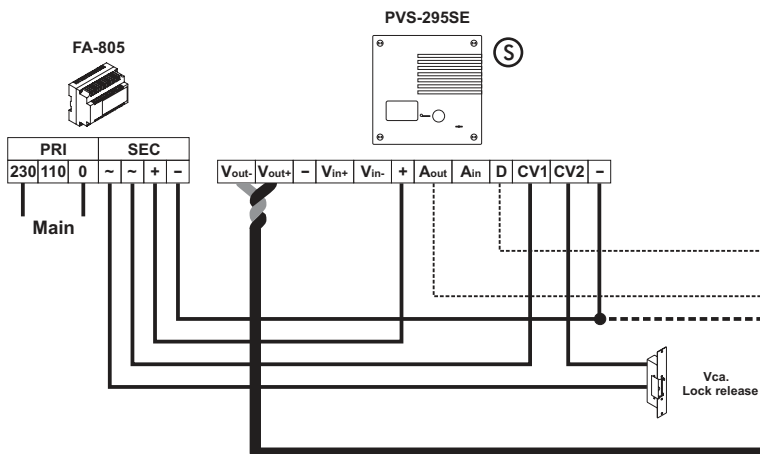
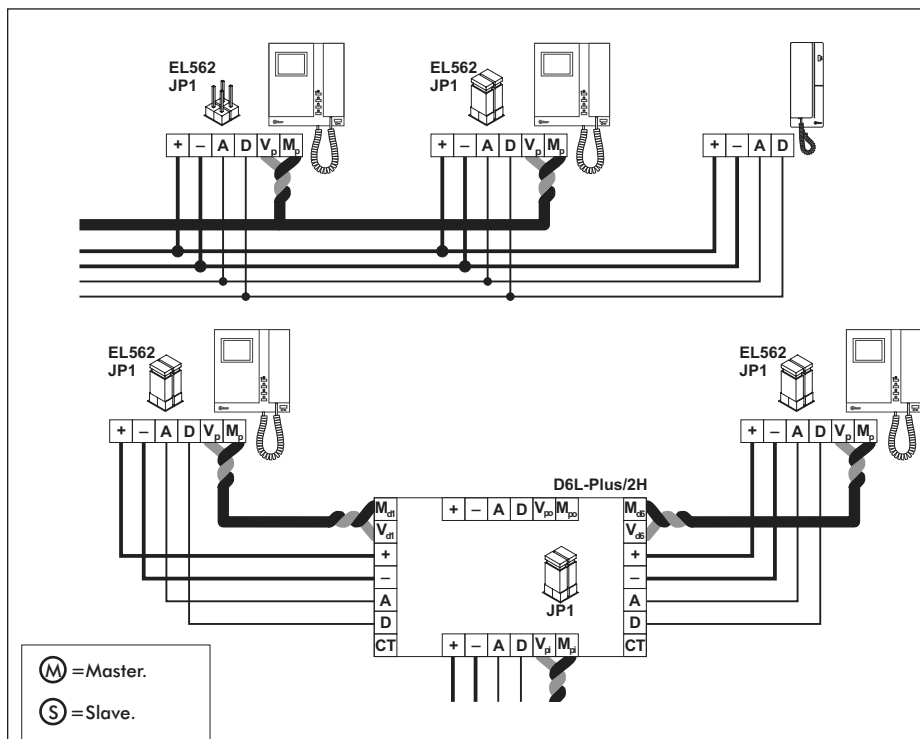
If your device is equipped with just one door panel, do not consider connections to other door panels.  
If your device is equipped with more than one door panel, connect the other door panels as shown in the picture.

**IMPORTANT NOTE**  
*When using a d.c. lock release, just 2 wires are needed between power supply and door panel. Refer to diagram on page 69.*





One or more accesses, alternative current lock release and twisted pair.





**Example of cascade connected devices.**

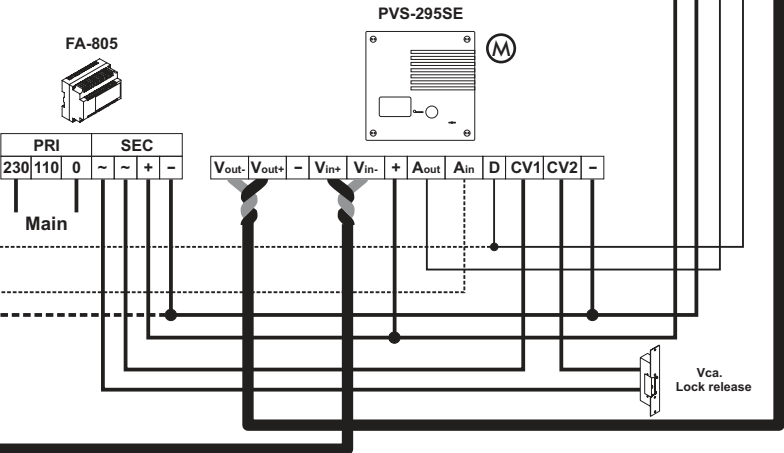
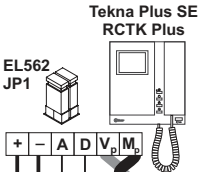
Remove jumper JP1 of all EL562 circuits from monitors (see page 48), except from the one in which the twisted pair end is located.

**Example of distribution connected devices.**

Remove the end of line jumper from all the distributors (JP1) and all EL562 (JP1) from monitors, except from those ones in which the twisted pair cable end is located (without using output).

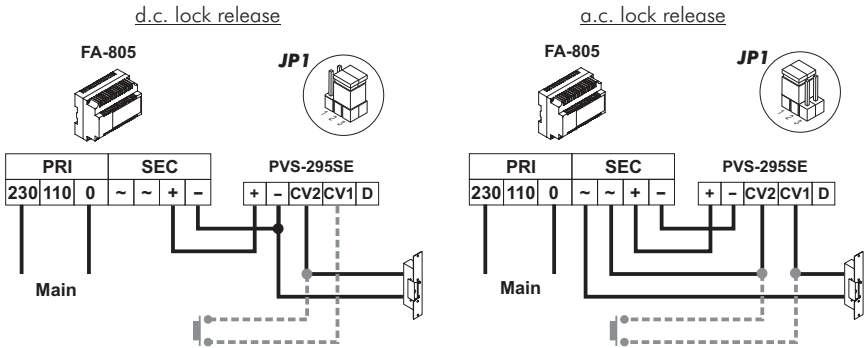
- If your device is equipped with just one door panel, do not consider connections to other door panels.
- If your device is equipped with more than one door panel, connect the other door panels as shown in the picture.

**IMPORTANT NOTE**  
*When using a d.c. lock release, just 2 wires are needed between power supply and door panel. Refer to diagram on page 69.*





**L**ock release connection.



In order to open the door in any moment by means of an external button, connect the button between door panel terminals 'CV1' and 'CV2' as shown in the diagram.  
This function allows the user to exit the building without using any key.

**S**ections chart.

Power supply / Door panel / Lock release	Sections up to	
	50m.	100m.
+, -, CV1, CV2	1,00mm <sup>2</sup>	2,50mm <sup>2</sup>
~	1,00mm <sup>2</sup>	1,50mm <sup>2</sup>
<b>Door panel / Monitor</b>	<b>100m.</b>	<b>200m.</b>
-, +	1,00mm <sup>2</sup>	2,50mm <sup>2</sup>
A <sub>in</sub> , A <sub>out</sub> , A, D	0,25mm <sup>2</sup>	0,25mm <sup>2</sup>
V <sub>in</sub> , V <sub>out</sub> (Coaxial)	* RG-59	* RG-59
V <sub>in</sub> , V <sub>out</sub> , V <sub>p,d</sub> (Twisted pair)	CAT-5	CAT-5


**C**oaxial cable characteristics RG-59 B/U MIL C-17.

* ELECTRICAL CHARACTERISTICS	VALUES
Core max. electrical resistance to 20°C Copper core Copper shield	≤ 158 Ω/Km ≤ 10 Ω/Km
Nominal capacitance	≤ 67 pf/m
Characteristic impedance	75 ± 3 Ω
Velocity of Propagation	≥ 66,6 %

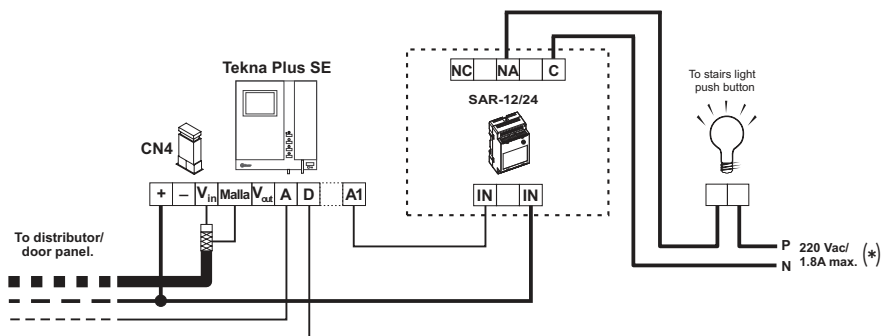


## Auxiliary devices activation with Tekna Plus SE monitor.

To activate auxiliary devices the use of a SAR-12/24 relay unit will be required. If this device is shared for all the Tekna Plus monitors, link their A1 terminal and use just one relay unit. In case that each monitor has its own application use a SAR-12/24 relay unit for each monitor and don't link the A1 monitor terminals.

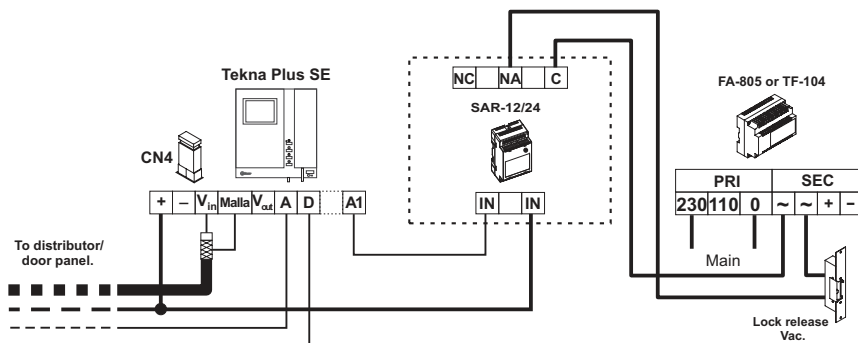
To activate this function, press  monitor push button at any moment with no dependence of the handset position.

Usual applications are the activation of stairs light, second lock release, ...



(\*) The neutral supply from the stairs light will be wired through the relay contacts SAR-12/24, the maximum current for stairs light will be 1.8A.

The use of a FA-805 power supply (maximum current 0,8A) or TF-104 transformer (maximum current 1,5A) will be necessary to activate a second lock release.





## A ctivation of a second camera.

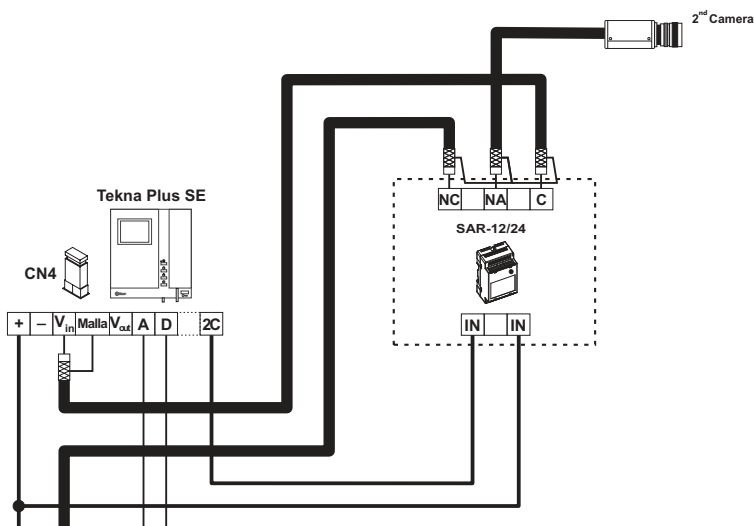
The use of a SAR-12/24 relay will be required to activate a second camera and set the monitor push button  $\odot$  with the function "second camera activation 2C", as it's described on pages 46 and 54. This facility disables the "intercom" function. If both functions are required, set the push button  $\odot$  with the function "second camera activation 2C" and use 2C terminal to activate the second camera, as it's described on pages 46 and 54.

To activate this function, press  $\odot$  monitor push button when the monitor is displaying the video from door panel with no dependence of the handset position.

If this device is shared for all Tekna Plus SE monitors, link their 2C terminal and use just one relay unit. In case that each monitor has its own camera use a SAR-12/24 relay unit for each monitor and don't link the 2C monitor terminals.

This push button can be used to activate other auxiliary devices, as the 2C terminal is used.

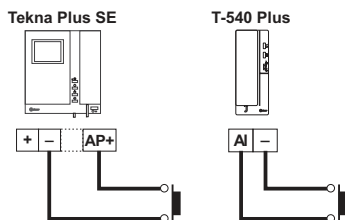
Usual applications are the surveillance of the elevator entrance, reception hall, ...



## E xternal lock release activation with Tekna Plus SE monitor and T-540Plus telephone.

During call reception and communication progresses allows the lock release activation, by using an external push button.

With the monitor / telephone in standby, it makes a panic call to the porter's exchanges configured to receive this type of call.





Intercom function.

Tekna Plus SE monitor and (\*) T-540Plus telephone have intercom facility between two units of the same apartment. To enable this function check the following conditions:

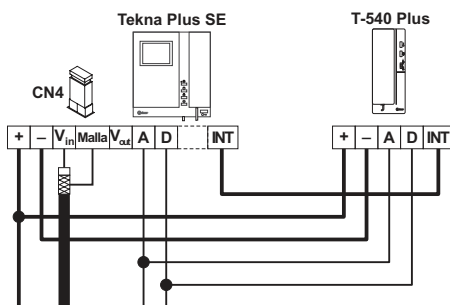
- One of the units has been configured as master and the other unit as slave with intercom, as described on pages 51 and 63. In case to intercom one monitor with one telephone, configure the monitor as master.
- Link the INT terminal of the units, as it is shown on the enclosed diagram.

To use the intercom function to call all of the monitors/ telephones in the apartment, lift the handset and press the button until a confirmation tone can be heard. To establish an intercom communication with T-540Plus telephone, lift the handset and press the intercom push button, acoustic tones will be reproduced on the handset confirming the call is in progress. To call individual devices, press the button once to call the "master" monitor, twice to call "slave 1", 3 times to call "slave 2", 4 times to call "slave 3" and 5 times to call "slave 4". This selective intercom call mode is only available with the Tekna Plus SE monitor. This only functions if no call or communication is in progress. A number of audible tones emitted by the handset will confirm that the call is being made or that the unit being called is in communication with the door panel. To establish communication, lift the handset of the unit being called. If a call is received from the door panel during an intercom process, the handset of the master unit will emit a number of audible tones and an image will appear. To establish communication with the door panel, press button  $\oplus$  on the unit configured as master or press the door release push button to simply open the door.

**Remind:** Up to two monitors and one phone in each house without extra power supply.

The ringtones vary depending on where the call is made from to enable the user to identify its origin.

**Note:** If the apartment also has Tekna Plus monitors or T-540Plus telephones, the Tekna Plus SE monitors must be configured as "Intercom with Tekna Plus monitors" (see page 54). This configuration mode does not allow selective intercom calls to different monitors/ telephones in the apartment; when the intercom button is pressed, all of the monitors/ telephones in the apartment will receive the call.



\* **IMPORTANT:** The T-540 Plus telephone must be configured with SW1 dip switch in "Intercom" mode function (see page 61).



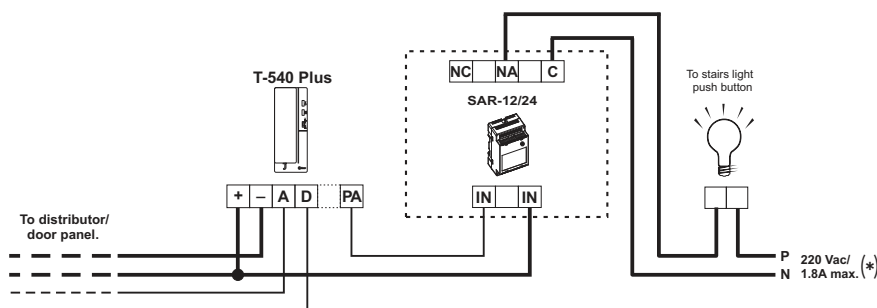
## Auxiliary devices activation with T-540 Plus telephone.

First the T-540 Plus telephone must be configured with SW1 dip switch in "PA" output mode function (see page 61).

To activate auxiliary devices the use of a SAR-12/24 relay unit will be required. If this device is shared for all the T-540 Plus telephones, link their PA terminal and use just one relay unit. In case that each telephone has its own application use a SAR-12/24 relay unit for each telephone and don't link the PA telephone terminals.

To activate this function, press **AUX** telephone push button at any moment with no dependence of the handset position.

Usual applications are the activation of stairs light, second lock release, ...

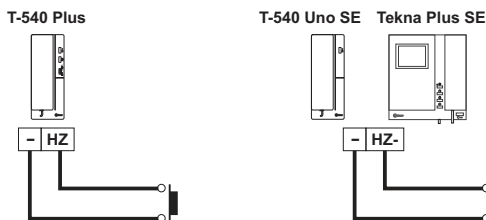


(\*) The neutral supply from the stairs light will be wired through the relay contacts SAR-12/24, the maximum current for stairs light will be 1.8A.

## Door bell push button connection.

The Tekna Plus SE monitor and the T-540 Plus and T-540 Uno SE telephones can be used to receive the calls made from the apartment door, saving the use of a bell. Wire the push button of the apartment door to the 'HZ-' and '-' monitor or telephone terminals.

The reproduced acoustic tones are different depending on their provenance, that allows the user to distinguish where the call is made from. If during a conversation a call is made from the apartment door, acoustic tones will be reproduced on the handset to advise that someone is calling.





- ☞ Your device does not work.
  - ☞ Make sure that power supply output tension between terminals '–' and '+' remains between 17,5 and 18,5Vd.c. Otherwise, disconnect the power supply from the system and measure tension again. If it is correct, there is a short circuit in the installation. Disconnect the power supply from the network and check the installation.
  - ☞ Make sure that terminal 'D' is not short circuited to terminals '–' or '+'.
  - ☞ Make sure that terminal 'D' has not been exchanged with 'A' in a part of the system.
- ☞ Audio volume inadequate.
  - ☞ Adjust audio levels following the instructions indicated on page 44. In case of feedback, reduce the volume until it disappears. If the feedback disappears only by reducing volume to a minimum level, probably another problem exists.
- ☞ Persisting audio feedback
  - ☞ Make sure that terminal 'A' is not short circuited to any other terminal and that it has been properly connected.
- ☞ Door opening function cannot be activated.
  - ☞ Remember that this function can be activated only during calls and communication.
  - ☞ Make sure that the JP1 jumper located in the rear part of the door panel is in a correct position (see page 43).
  - ☞ Make sure that the connection has been carried out according to the type of lock release installed (see page 69).
  - ☞ Make a short circuit between door panel terminals 'CV1' and 'CV2'; in this moment the value between the lock release terminals should be 12Vd.c. or a.c. (According to the door panel configuration, see page 69). In such a case, check lock release condition.
- ☞ The lock release remains enabled.
  - ☞ If you are using an alternative current door opener, check its connection by means of the diagram shown on page 69.
- ☞ The device cannot be programmed.
  - ☞ Make sure that number 2 in the configuration switch is set to ON (see page 43) and that the program sequence is correct (see pages 51 -52, 59 and 63).
  - ☞ Make sure that terminal 'D' is not short-circuited to any other terminal
- ☞ Some monitors (phones) do not receive calls.
  - ☞ Remember that each house must be equipped with a unique main terminal. Make sure that the terminal has been properly programmed and that it is on.
  - ☞ Make sure that the master monitor or phone is on.
- ☞ The monitor does not show images.
  - ☞ Make sure that number 4 in the configuration switch is set to OFF (see page 43).
  - ☞ Check the proper connection of coaxial cable or twisted pair by means of the diagrams shown on pages 65 to 68.
- ☞ The monitor shows a distorted or a low-defined image.
  - ☞ Check the proper connection of coaxial cable or twisted pair by means of the diagrams shown on pages 65 to 68, pay particular attention to the cable correct polarity.



Este producto es conforme con las disposiciones de las Directivas Europeas aplicables respecto a la Seguridad eléctrica **2006/95/CEE** y la Compatibilidad Electromagnética **2004/108/CEE**, así como con la ampliación en la Directiva del Mercado CE **93/68/CEE**.

*This product meets the essentials requirements of applicable European Directives regarding Electrical Safety **2006/95/ECC**, Electromagnetic Compatibility **2004/108/ECC**, and as amended for CE Marking **93/68/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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