



C6d. 50121860

Replacement video  
door entry system

# Vista Nexa

Instructions manual

**T632/R5 EN** rev.0116

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.

## INDEX

Introduction .....	93	Power supply & lock release installation ....	108
Index .....	93	Tekna R5 Col SU-R5 monitor .....	109
Safety precautions .....	93-94	Description & function push buttons .....	109
Systems characteristics.....	94	End of line resistor.....	110
System operation .....	94	Monitor connector description .....	111
Definition & minimum requirements.....	95	Monitor installation.....	112
Door panel description .....	96	Programming.....	113
Modules description .....		T-530/R5 SU-R5 telephone .....	
Sound modules EL632-R5/EL642-R5 .....	97	Description & function push button.....	114
Push buttons module EL610D.....	98	Telephone installation .....	115
Door panel .....		Programming.....	116
Embedding box positioning .....	99	Installation .....	
Embedding box installation .....	99-100	Door panel.....	117-118
Assembling electronic modules .....	100	Power supply and lock release .....	119
Hold the frame .....	101	Reassignment of conductors .....	120
Push buttons connection.....	101-102	Floor distribution .....	121-122
Push buttons coding .....	102	Installation diagrams with D4L-R5 .....	
Description Cn7 Bus Nexa connector ....	103	Video sys. with d.c. lock release .....	123
Connection illumination module .....	103	Video sys. with a.c. lock release/TF104 ..	125
Description illumination leds .....	104	Installation diagrams with D4L-R5R .....	
Description visual indications .....	104	Video sys. with d.c lock release .....	127
Sound module configuration.....	105	Installation diagram Audio system .....	129
Final adjustments & close the frame.....	106	Optional connections .....	131-135
Place the nameplate labels .....	106	Troubleshooting hints .....	136
Assembly & close the door panel .....	107	Compliance.....	139

## SAFETY PRECAUTIONS

- ❏ 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.

**Continue**







**Coming from previous page**

- ☛ With monitor, telephones and distributor:
  - ⌚ Do not use excessive force when tightening the connector screws.
  - ⌚ Install the equipments 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.
- ☛ Do always follow the enclosed information.

## SYSTEM CHARACTERISTICS

- ☛ Video door entry system with simple installation specially-designed to replace 4 + n audio door entry systems. Installation is done through 5 common wires **without independent call lines**.
- ☛ Bus Nexa Cn7: It allows the connection of illumination module (Nexa coded panel, see manual **TCode/CD Nexa**).
- ☛ Up to 6 door (access) panels which do not need switching units.
- ☛ Up to 200 terminals (monitors and telephones) for installation without using converters.
- ☛ Up to 132 apartments with door panels of push buttons and up to 200 apartments with Stadio/ Inox coded panels (requires the use of the digital converter **CD-PLUS/R5**) or Nexa code panel with Cn7 Bus Nexa.
- ☛ Visual indications on the door panel for people with impaired hearing.
- ☛ Acoustic busy channel and call acknowledgement signals.
- ☛ Door opening timed at 3 seconds.
- ☛ A.C. or D.C. lock release operated through a relay.
- ☛ With telephones T-530/R5 SU-R5:
  - ⌚ Completely private conversation.
  - ⌚ Output for connection to call repeater.
  - ⌚ Up to 1 additional monitor or telephone per apartment (installation of an additional monitor requires a supplementary power supply in the landing, see page 131-132).
  - ⌚ Function: opening the 'second door' (requires the use of the **SU-R5 Relay Unit**).
  - ⌚ Does NOT require batteries for operation.
- ☛ With monitors Tekna R5 Col SU-R5, in addition to the above features:
  - ⌚ Privacy on audio and video communications.
  - ⌚ 'Video-Spy' function with the communication channel remaining free.
  - ⌚ Colour screen.

## SYSTEM OPERATION

- ☛ To make a call the visitor should press the push button corresponding to the apartment he wishes to contact: an acoustic tone will be heard confirming the call is in progress once the push button has been pressed and the door panel led  will turn on. At this moment the call will be received at the monitor (telephone) in the dwelling. During the call the visitor can correct his call by pressing a push button corresponding to a different apartment, in which case the original call is cancelled.
- ☛ In systems with several access doors, the other door panel(s) will be automatically disconnected: if a visitor tries to call from other door panel an acoustic tone will be heard and the door panel led  will be on confirming the system is busy.
- ☛ The call tone will be reproduced on the monitor during 3 seconds: after this time the picture will appear on the master monitor without the visitor being aware of this. To see the image on a slave monitor pick up its handset, disappearing the image on the other monitor. If the call is not answered in 45 seconds, the door panel led  will turn off and the system will be freed.
- ☛ To establish communication pick up the monitor (telephone) handset, the door panel led  will turn on.
- ☛ The communication will last for one and a half minutes or until the handset is replaced. Once the communication has finished the door panel led  will turn off and the system will be freed.
- ☛ To open the door, press the door release push button during call or communication progresses: with one press, the door release operates during 3 seconds and the led  will also turn on for 3 seconds.  
If there are SU-R5 Relay Units in the installation, two rapid presses open the door release of the 'second door' or the door release of the SU-R5 Relay Unit selected (see TSU-R5 ML manual).

The Golmar **Vista PLUS** video door entry system is a digital system, specially designed to replace the 4+n or conventional electronic door entry systems in both apartment blocks and villas, making use of the existing installation. Adding to this, the fact that the system does not use coaxial cable for video signal transmission (it is transmitted via an untwisted pair of wires), necessitates a detailed study of the existing installation before installing the system. To check that your installation complies with the system's minimum recommended requirements, please read carefully the following chapters, which provide details of the checks to be done.

## MINIMUM REQUIREMENTS

Before installing this system, we must ensure that the existing installation complies with the following requirements:

- **All the wires of the installation must use the same conduit, especially those that carry the video signal and ground.**
- **The wires must not be spliced, frayed, nor touch metal parts, and must not vary in cross section throughout the entire installation.**
- **The entire installation must be at least 40cm away from any other installation otherwise there is a risk that the audio signal be exposed to interference, or that the system does not work correctly.**
- All branch connections must be made using D4L-R5 or D4L-R5R distributors.
- Each floor must have physical space to situate the distributor/s and junction box in case of using D4L-R5R distributors, in case they are necessary.
- Each apartment must have sufficient space to install the video system monitor.
- Maximum distance between the power supply and the farthest monitor: 50mts.
- Maximum distance between the door panel and the farthest monitor: 50/100mts (according to power supply's position).
- Maximum number of terminals in total (monitors, telephones, call repeaters, etc.): 200 (without using converters)
- Before connecting the system's power supply, we must ensure that there are **NO parallel units, relays or call repeaters in the apartments**. If so, we must disconnect them or replace them with units that are compatible with the new system, otherwise the installation could be seriously damaged or burnt.

If any of the first three requirements are not met, it will be necessary to replace the installation riser. If the branch connections to the apartments are in good condition, their replacement will not be necessary.

If replacing the column, use these sections:

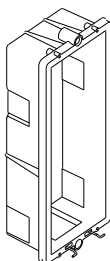
SECTIONS CHART	Power supply - Door panel		Door panel - Monitors	
Terminal	50m.	100m.	50m.	100m.
+, -, CV1, CV2, ~, ~	1.00mm <sup>2</sup>	2.5mm <sup>2</sup>	1.00mm <sup>2</sup>	2.5mm <sup>2</sup>
V+, V-, A/D			0.25mm <sup>2</sup>	0.25mm <sup>2</sup>

Golmar has a special cable for this system, its reference number is **RAP-8415**. The use of this cable ensures the correct functioning of the system and simplifies the riser replacement given that it contains all the necessary wires for the installation.

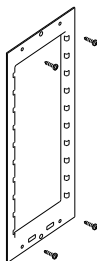
## Door panel description.

General detail of parts, for assembly the door panel.

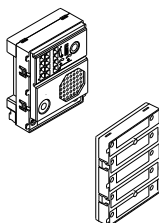
Embedding boxes



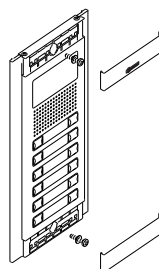
Frame modules



Electronic modules

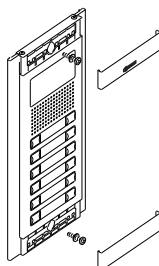


Aluminium modules

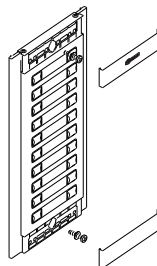


Door panel description.

Main module

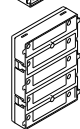


Push buttons module



Sound module

EL632/R5 , on video systems with color camera.  
EL642/R5 , on audio systems.



Push buttons electronic module

EL610D, for 5 single push-buttons or 10 double push buttons.



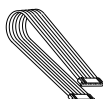
Bus Nexa connection cable (length 50 cm).

For the connection of the EL632/R5 or EL642/R5 modules with others Bus Nexa modules (see page 103).



Short connection cable, It is supplied with EL610D module (16 cm length).

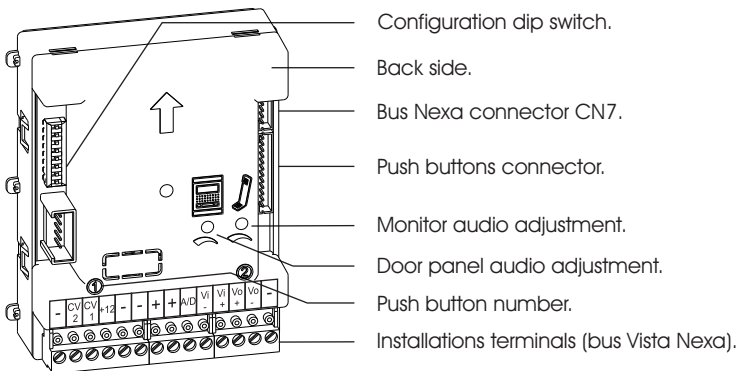
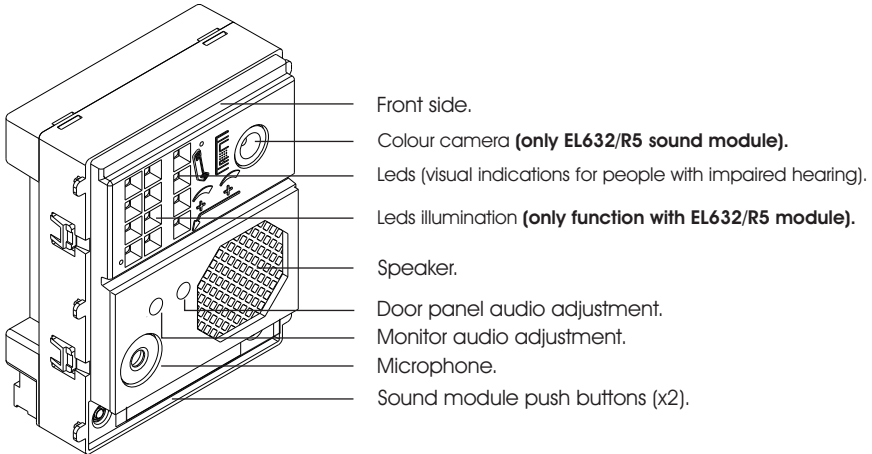
For the connection of the push-buttons between the sound module and the push buttons module EL610D and between push-buttons modules EL610D.



Connection cable RAP-610D (27 cm length).

For the connection of the push-buttons between the sound module and the push buttons module EL610D and between push-buttons modules EL610D.  
This cable is necessary when the distance between modules to connecting is greater due to the distribution of these modules in the door panel/s.

## Sound module description (EL632/R5 and EL642/R5).

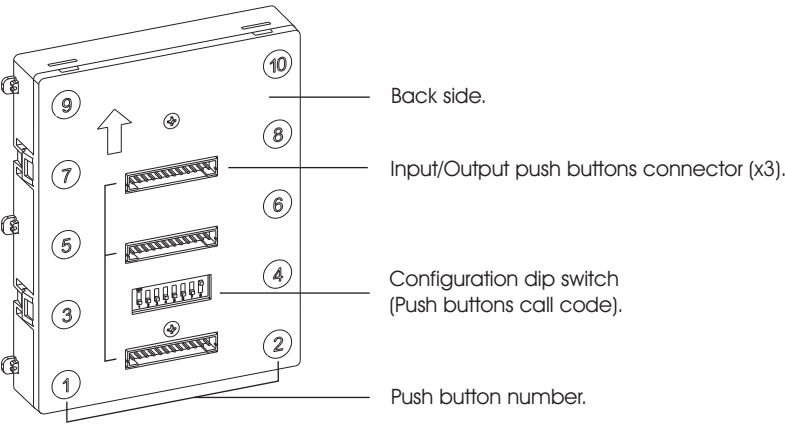
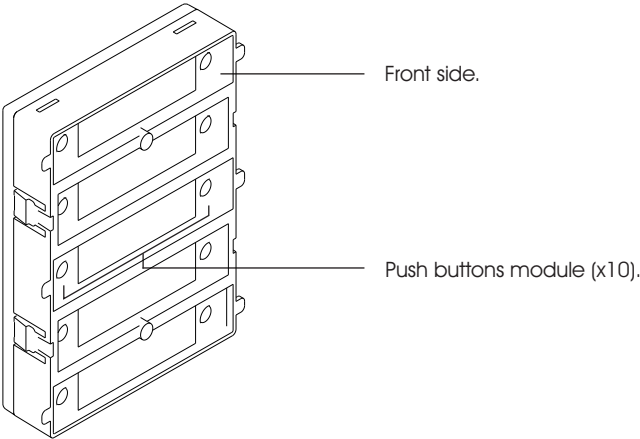


### Installation terminals:

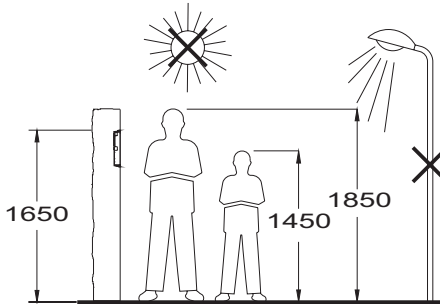
- + , - : Positive, ground.
- Vi+, Vi- : Video signal input.
- Vo+, Vo- : Video signal output.
- A/D : Audio/Digital communication.
- CV1 : "C" contact free for lock release.
- CV2 : "N.O" contact free for lock release.
- +12 : Lock release power supply (+12Vd.c.).

**Note:** See installation diagrams for wiring.

Push buttons electronic module EL610D description.



## E<sub>m</sub>bedding box positioning.

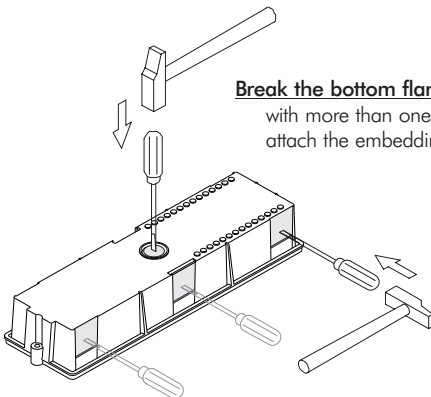


The upper part of the door panel should be placed at 1,65m. height roughly. The hole dimensions will depend on the type of door panel.

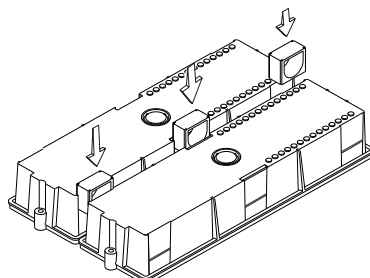
Door panel Model	90CS CEA90C	90C CEV90C	90 CEV90
An	99	99	99 mm.
Al	143	250	328 mm.
P	40	56	56 mm.

The door panel has been designed to be placed under most of the environmental conditions. However it's recommended to take additional cautions like rainproof covers. To obtain a good quality picture on video door entry systems, avoid direct incidence from light sources.

## P<sub>r</sub>eparing the cables entry.

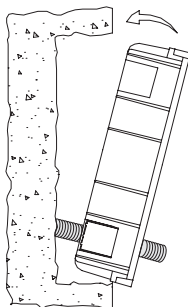


**Break the bottom flange** to pass the cables through. In case of door panels with more than one embedding box, break the side flanges and attach the embedding boxes using UC junctions.





Place the embedding box.



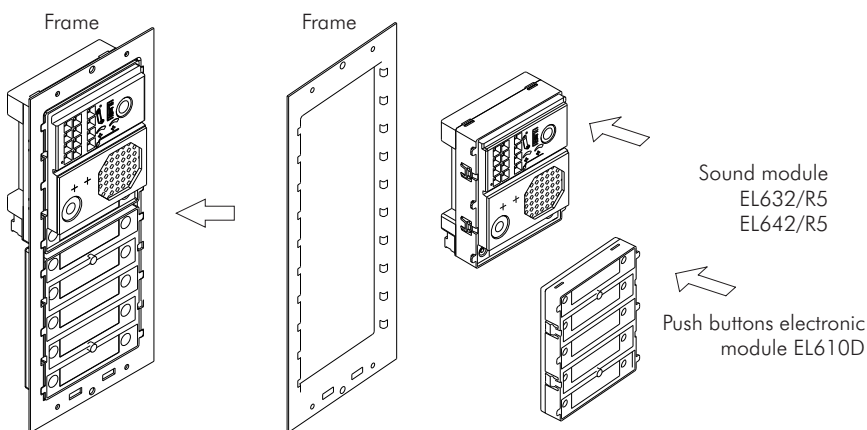
Pass the wiring through the hole made in the bottom part of the embedding box. Level and flush the embedding box. Once the embedding box is placed, remove the protective labels from the attaching door panel holes.

Assembly the electronic modules.

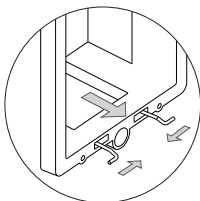
Insert the sound module in the top part of the module frame.

Align the tabs on the sound module in their respective housings of the module frame and later exercise a light pressure until correct placement.

If there is push buttons module repeat the above process, locating under the sound module, as shown in the drawing.

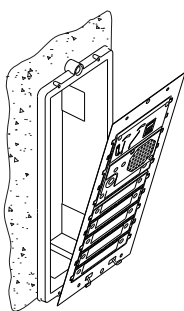


**H**old the frame on the embedding box.

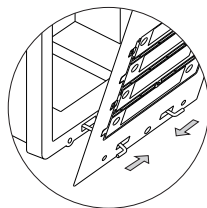


Insert the hinge that it is supplied with the product in the embedding box, as shown in the drawing.

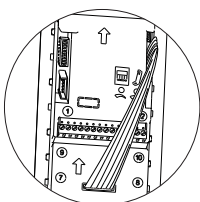
To hold the frame on the embedding box, insert the hinge in the housings arranged for this purpose in the frame, as shown in the drawing.



The frame can now be folded horizontally facilitating the connection and adjustments in the sound module and push buttons electronic module.

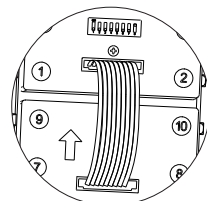
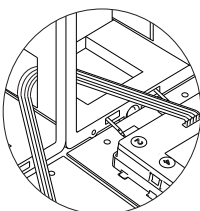


**P**lug the push buttons with the short connection cable.



Insert the short connection cable that it is supplied with the product EL610D, in the push buttons connector of the sound module and the other end of the connection cable in the connector placed in the top part of the push buttons EL610D module, as shown in the drawing.

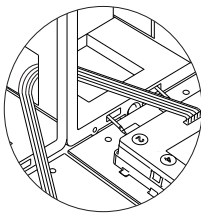
Between push buttons modules EL610D of the same embedding box, insert the short connection cable of the low connector of the first push buttons module to the top connector of the second push buttons module, as shown in the drawing.




Between push buttons modules EL610D of different embedding boxes, insert the short connection cable in the low connector of the last module EL610D of the first embedding box and the other end of the connection cable in the middle connector of the last push buttons module EL610D placed in the low part of the second embedding box, as shown in the drawing.

Plug the push buttons with the connection cable RAP-610D.

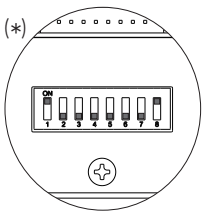
Use the connection cable RAP-610D, for the connection of the push buttons between the sound module and the push buttons module EL610D and between push buttons modules EL610D, when the distance between modules to connecting is greater due to the composition of the door panels.



Configuration of the push-buttons code.

The push buttons module EL610D must be configured, to assign a call code to the push buttons (use the tool  that is supplied with the sound module). Make this configuration with the dip switch placed in the back side of the module. Depending on the setting selected, the push buttons are assigned to a specific call code.

In case to combine these door panels with coded door panels or porter's exchange, it will be necessary to know the call code of each push button, as shown in the table below.



Push buttons module EL-610D

		Dip switch								Push buttons code										(1)
		Dip1	Dip2	Dip3	Dip4	Dip5	Dip6	Dip7	Dip8	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	
Module configuration option	1	On	Off	Off	Off	Off	Off	Off	On	1	2	3	4	5	6	7	8	9	10	(*)
	2	Off	On	Off	Off	Off	Off	Off	On	11	12	13	14	15	16	17	18	19	20	
	3	Off	Off	On	Off	Off	Off	Off	On	21	22	23	24	25	26	27	28	29	30	
	4	Off	Off	Off	On	Off	Off	Off	On	31	32	33	34	35	36	37	38	39	40	
	5	Off	Off	Off	Off	On	Off	Off	On	41	42	43	44	45	46	47	48	49	50	
	6	Off	Off	Off	Off	Off	On	Off	On	51	52	53	54	55	56	57	58	59	60	
	7	Off	Off	Off	Off	Off	Off	On	On	61	62	63	64	65	66	67	68	69	70	
	8	On	Off	Off	Off	Off	Off	Off	Off	71	72	73	74	75	76	77	78	79	80	
	9	Off	On	Off	Off	Off	Off	Off	Off	81	82	83	84	85	86	87	88	89	90	
	10	Off	Off	On	Off	Off	Off	Off	Off	91	92	93	94	95	96	97	98	99	100	
	11	Off	Off	Off	On	Off	Off	Off	Off	101	102	103	104	105	107	108	109	110	111	
	12	Off	Off	Off	Off	On	Off	Off	Off	112	113	114	115	116	117	118	119	120	121	
	13	Off	Off	Off	Off	Off	On	Off	Off	122	123	124	125	126	127	128	129	130	131	

(1)P1- P10: Push button 1 to push button 10.

**Note:**Sound module, factory set the code "106" in P1 and "132" in P2.

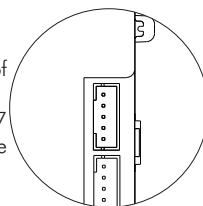
**Important:** Select a different configuration option for each module EL610D.

(\*) Factory default.

## Description CN7 Bus Nexa connector.

The connector CN7 Bus Nexa is located at the upper right side of the back of the sound module.

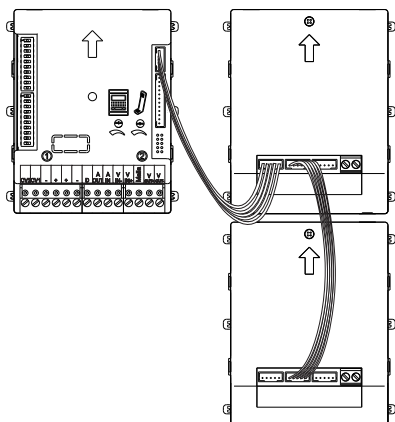
Insert the connection cable that it is supplied with the module in the CN7 connector of the sound module and the other end of the connection cable in the module with connector Bus Nexa.



The modules to connect with connector Bus Nexa are the next :

- ⇒N3403/AL: Connect to the module to add to the system with a graphic display module (coded panel, see **TCode/CD Nexa** manual).
- ⇒N3301/AL: Connect to the module to add to the system with an access control module and coded panel, (see **TCode/CD Nexa** manual).
- ⇒N3301A/AL: Connect to the module to add to the system with an alphabetic module, (see **TCode/CD Nexa** manual).
- ⇒EL3002: Connect to power the illumination module (Maximum 6 EL3002 modules).
- ⇒CD-NEXA/BT: Connect to the module to add to the system with a configuration RFC interface (wireless device of 2,4 Ghz). Only for N3301 and N3403 modules.

## Connection with EL3002 illumination modules.



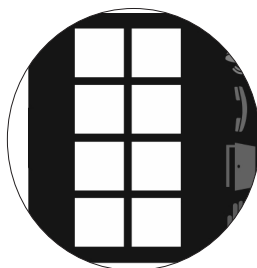
Insert the Bus Nexa connection cable that it is supplied with the product, in the CN7 connector of the sound module and the other end of the connection cable in any of the three connectors placed at the bottom of the EL3002 illumination module (maximum 6 EL3002 modules).

To connect to other illumination modules use any of the two free connectors.

**NOTE:** Only the EL632/R5 or EL642/R5 sound module must be connected to power supply. The EL3002 illumination module take the power through Bus Nexa connection cable (once the Bus Nexa connection cable has been connected in the sound module).








## Description illumination leds.

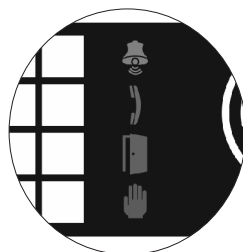
The door panel illumination leds, will turn on during call and communication progresses. Allowing us to see from apartment's monitor the person who has called. (Only EL632/R5 sound module).



## Description visual indications leds.


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

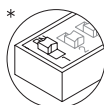
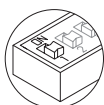
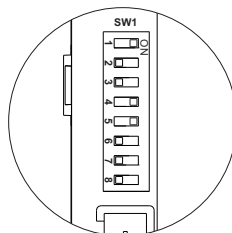
- While calling: The led  will turn on during the call time process.
- During communication: The led  will turn on during communication process.
- During door release: The led  will turn on during door release.
- End of communication: The led  will turn off.
- In systems with several accesses doors in the building and one access door panel is in communication:  
The other accesses doors panels would have the led  of busy system turn on until end communication.
- While calling and the monitor is switch off: The led  will blink during 3 seconds.
- If a general door panel calls to a building with an inner door panel already in communication, the led  of the general door panel will blink during 3 seconds.



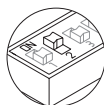
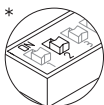
**D**escription of the SW1 configuration dip-switch of the sound module.

The SW1 configuration dip-switch is located at the upper left side of the back of the module.

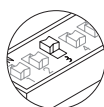
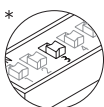
For dip switch settings, use the tool  that is supplied with the sound module.



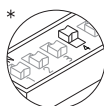
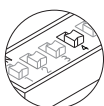
Switch number 1 allows the autoswitch-on function (audio and video communication without previous call) at the door panel that has this switch set to the ON position. In buildings with several door panels, activate only one of them. In systems with a general entrance door panel this function can be activated in one door panel of each building.



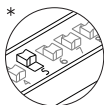
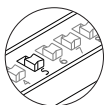
Set to ON the switch number 2 for monitor or telephones programming. Once the programming is finished return the switch to the OFF position. The programming process is described on pages 113 (monitors) and 116 (telephones).



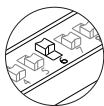
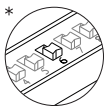
Set to OFF the switch number 3 in case of a master door panel. Each system must have only one master door panel; the rest must be slaves (ON). In systems with general entrance panel set as master one door panel of each internal building.



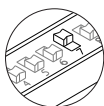
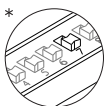
Set to ON if the door panel has telecamera. Set to OFF if the door panel doesn't have telecamera.



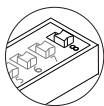
Set to ON only on one door panel in each installation, if the building has more accesses, set the rest to OFF



Set to ON to divert calls from the door panel to the porter's exchange when the latter is active, set to OFF if this function is not desired (Requires the use of the **CD-PLUS/R5** digital converter and that the door panel capture is activated in the porter's exchange).



Set to ON so that the tone volumes emitted by the door panel are *HIGH*, or set to OFF if a *NORMAL* tone volume is desired.



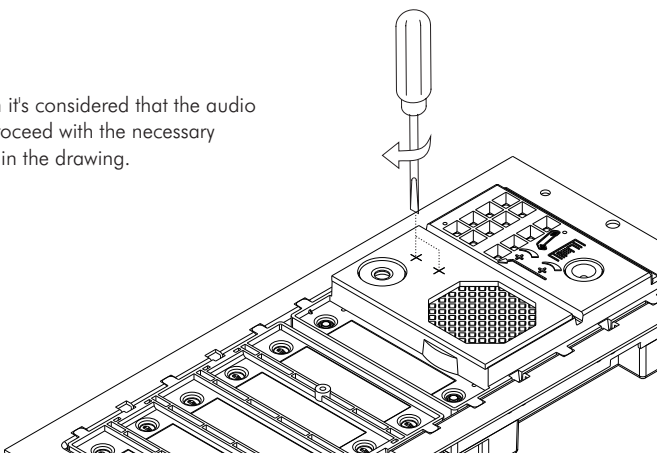
Not used.

**\*Factory default**

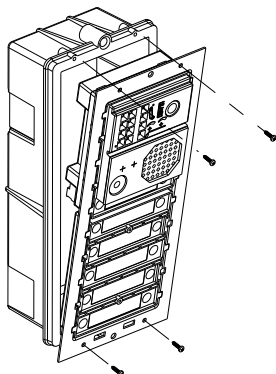
## F

inal adjustments.

If after starting the system it's considered that the audio volume isn't correct, proceed with the necessary adjustments as shown in the drawing.

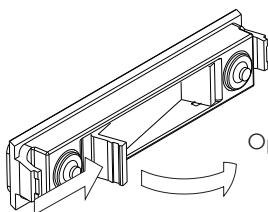


## C

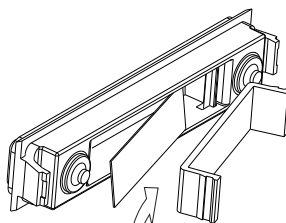
lose the frame.

Once finished the works of wiring, configuration and final adjustments, fix the frame in the embedding box with the supplied screws.

## P

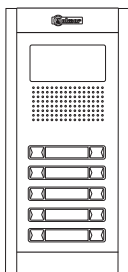
lace the nameplate labels.

Open the label holder.

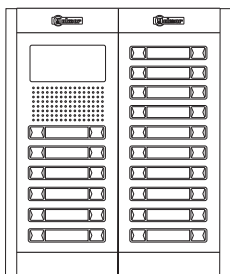


Place the label and close.

## Door panel assembly.



In assemblies of a single door panel, it is ready from factory to be mounted.

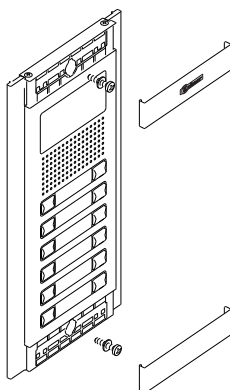


If the door panel to installing is of more than one module it will be necessary make some adjustments to join a door panel with other one.

### IMPORTANT:

To make these adjustments of joining several door panels, see the document that is supplied with the door panel and follow the steps that are described in the section " Mechanical assembly for double door panel" and once finished the adjustments stick the adhesive gasket (that is supplied with the push buttons module) in the rod of joining modules.

## Close the door panel.



Fix the door panel by using the supplied screws.

Finish the door panel assembly by placing the closing heads, put the head on one side and then make a slight pressure on the other end, to its correct placement.

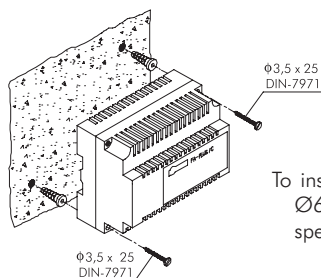


Installing the FA-PLUS/C power supply.

Install the power supply in a dry and protected place without risk of drip or water projections. To avoid an electrical shock, neither remove the primary protection cover nor handle the connected wire in the terminals.

The installation and handling of these equipments must be performed by **authorised personnel** and **without the power connected**.

To avoid damage, the power supply has to be firmly fixed.



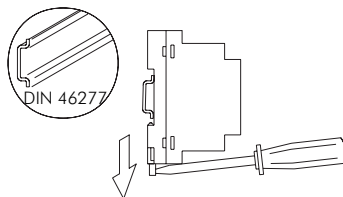
It's recommended to protect the power supply by using a thermo-magnetic circuit breaker.

To install the power supply directly on the wall, drill two holes of Ø6mm. and insert the wallplugs. Fix the transformer with the specified screws.

The power supply can be installed on a DIN 46277 guide simply pressing it.

To disassemble the power supply from the DIN guide, use a plain screwdriver to lever the flange as shown on the picture.

The FA-Plus/C model uses 6 units over DIN guide.



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

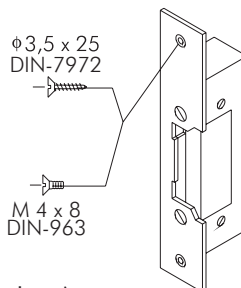
## LOCK RELEASE INSTALLATION

Lock release installation.

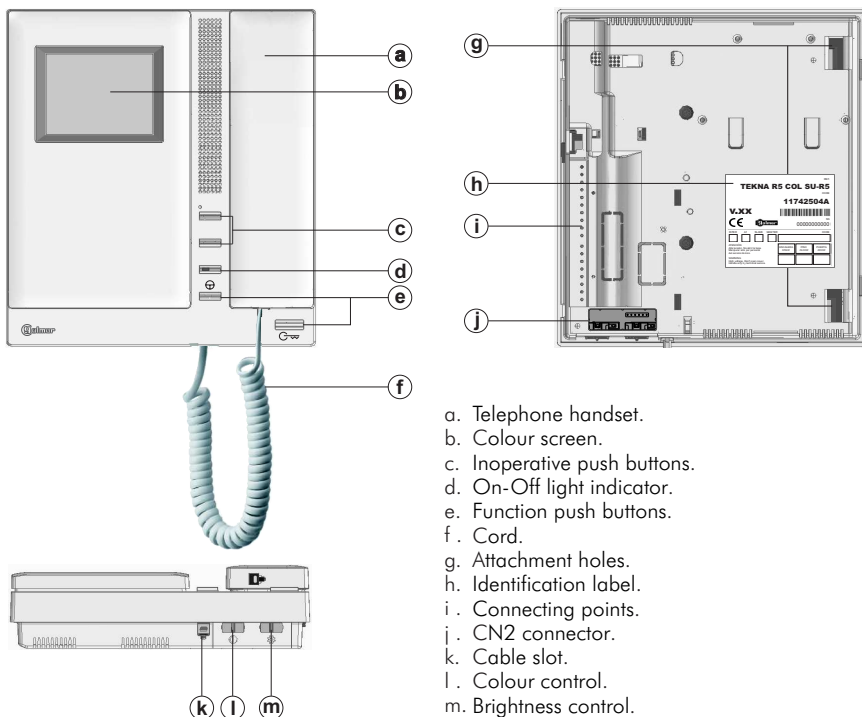
If the lock release will be installed in a metal door, use a Ø3,5mm. drill and tap the hole. In case of wood door, use a Ø3mm. drill.

### IMPORTANT:

- The lock release must be of (Golmar) 12Vd.c or a.c.  
(See page 125 (a.c lock release) and pages 123, 127-130 (d.c lock release).
- A varistor is supplied with the sound module. In case to connect an a.c. lock release, place the varistor on the lock release terminals directly to ensure a proper system operation.



## Description of the Tekna R5 Col SU-R5 monitor.



## Function push buttons.



The image from the master door panel can be viewed if the handset is on the cradle. If not, audio and video communication can be established with the door panel that has been configured with the autoswitch-on function. This function is disabled if a communication is already established.

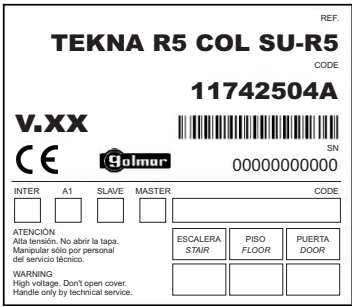
During call reception and communication processes, if there are SU-R5 Relay Units "second door" (see manual TSU-R5 ML) in the installation, pressing each time the image will switch (in carousel mode) from the door panel to the camera connected to the SU-R5 Relay Unit(s).



With the handset on the cradle, hold pressed for 1 second to turn the monitor on or off. For a period of 45 seconds after the monitor is turned on, it will only be able to receive calls. With the handset off the cradle, a call can be made to the master porter's exchange. During call reception and communication processes, it allows lock release activation.

During call reception and communication processes, if there are SU-R5 Relay Units "second door" (see manual TSU-R5 ML) in the installation, two rapid presses open the door release of the "second door" or the door release of the SU-R5 Relay unit selected.

Description of the identification label.



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

MASTER: master monitor.

SLAVE: slave monitor.

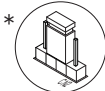
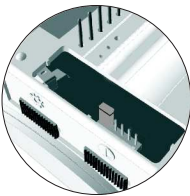
INTER: Not used.

A1: Not used.

CODE: push button code (page 102).

STAIR: Not used.

Handling the end of line jumper.



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



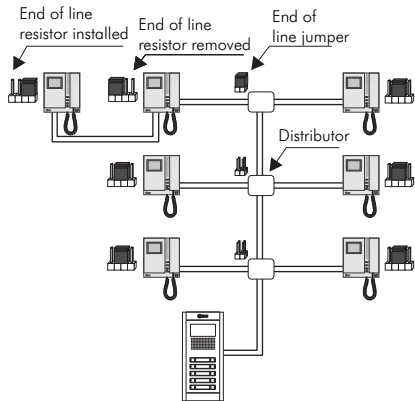
If there is a parallel monitor, set to this position on the first monitor. (Deactivated mode)



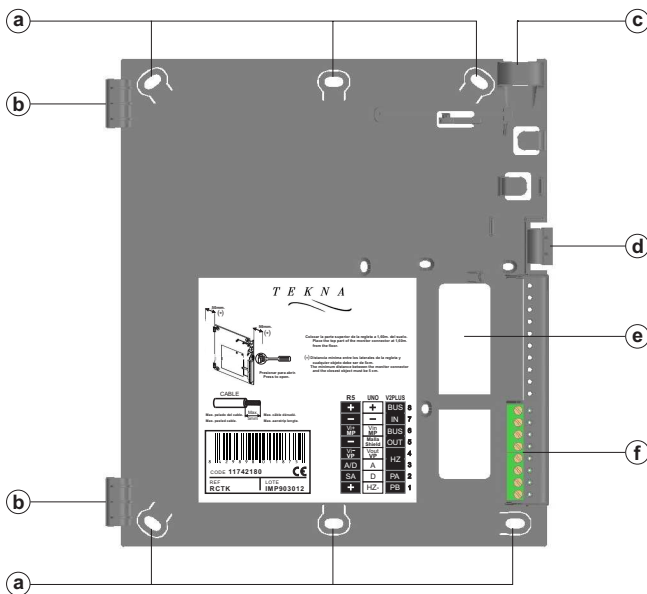
If there is a parallel monitor, set to this position on the last monitor. (Activated mode)

\* Factory Default

Example configuration of the end of line jumper in the monitors. For more details, see installation diagrams on pages 123 to 135.



## Description of the RCTK monitor connector.



- a. Wall attachment holes (x6).
- b. Monitor attachment hooks (x2).
- c. Vertical wiring input.
- d. Attachment clip.
- e. Wiring input hole.
- f. Installation terminals:

+, -: Positive, ground.  
 Vi + / MP: video signal MP input.  
 Vi - / VP : video signal VP input.  
 A/D : audio and digital communication.  
 SA : auxiliary call repeater output.

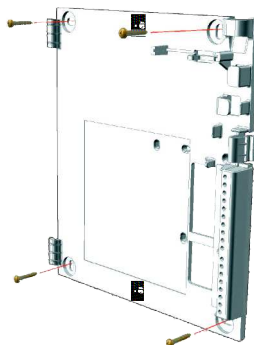
The '+' and '-' terminals are duplicated to facilitate cascade installation of parallel monitors or telephones. If the first monitor is not placed on the connection block, cascade units will not be powered.

**F**ix the monitor connection block to the wall.

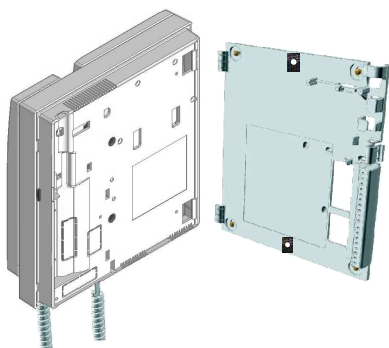
Avoid placing the monitor near sources of heat, in dusty locations or smoky environments.

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

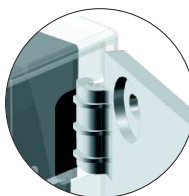
**The upper part of the monitor connection block must be placed at 1.60m height. The minimum distance between the monitor connection block and the closest object must be 5cm.**



**F**ix the monitor.

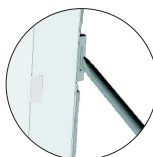


Place the monitor at right angles to the connection block and align the attaching holes of the monitor with the attachment hooks of the connection block, as it is shown on the drawing.



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

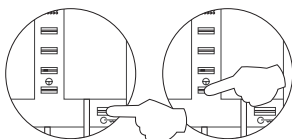
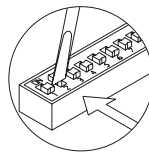
To disassemble the monitor from the connector, use a plain screwdriver to release the attachment clip. Remove the monitor from the connection block, with special attention do not falls.



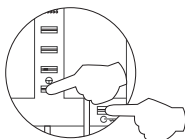
## Programming the Tekna R5 Col SU-R5 monitors.

Locate the configuration dip switch placed at the upper left side of the back of the sound module and set number 2 to ON, as described on page 105.

The door panel will emit a tone which indicates that it's in programming mode. In systems with more than one door panel, the programming process shall be done on the master door panel only.



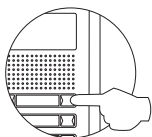
Turn off the monitor to be programmed by holding pressed the door release push button for one second. Once off, press the autoswitch-on push button.



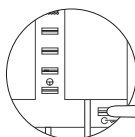
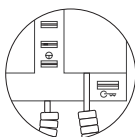
While holding pressed the autoswitch-on push button, simultaneously press the door release push button.



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



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



Master

Slave

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.

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

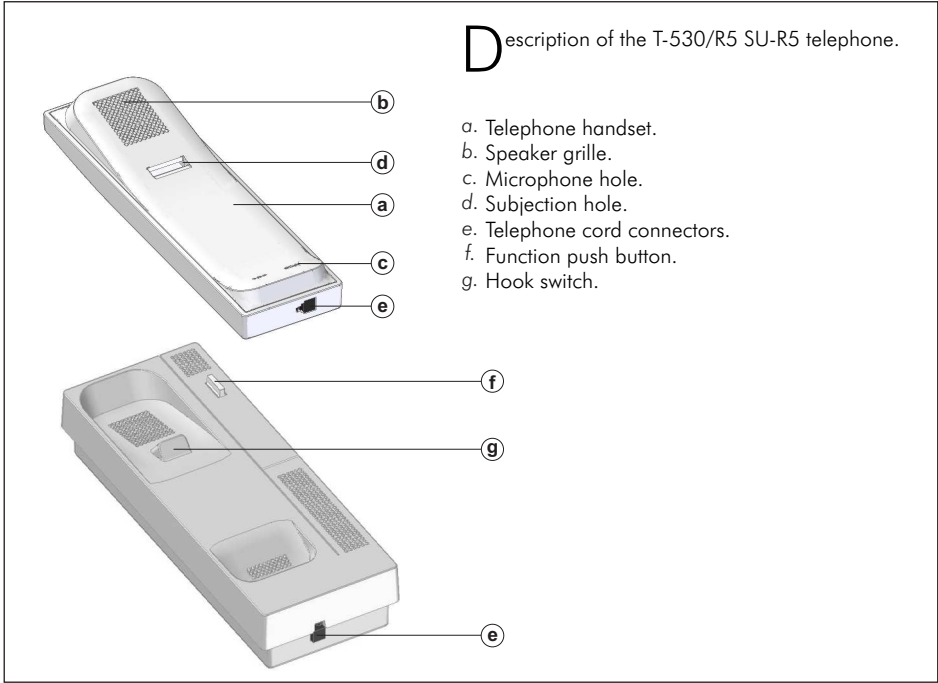


Make a call to check that the monitor has been successfully programmed. Repeat these steps to program the rest of monitors.

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

### IMPORTANT:

If the installation has a CD-PLUS/R5 converter with coded door panel or porter's exchange, the programming codes assigned to the monitors must be between 1 and 250. To make it easier for the user to make a call, can assign in a parallel manner another code in a 2<sup>nd</sup> assignment chart (see manual: T-590ML porter's exchange or T-3403ML coded door panel).



**F**unction push button.

With the handset lifted, a normal call can be made to the master porter's exchange. During call reception and communication processes, it allows lock release activation.

During call reception and communication processes, if there are SU-R5 Relay Units "second door" (see manual TSU-R5 ML) in the installation, two rapid presses open the door release only of the SU-R5 Relay unit with address "1".

**T**erminal connector description.

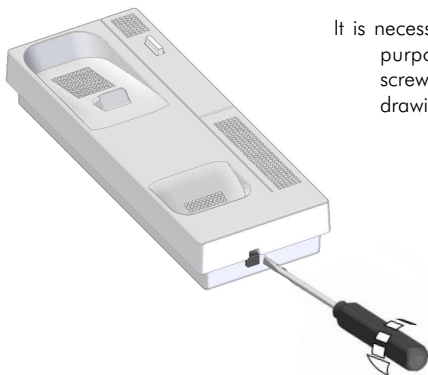
+	-	A/D	SA
---	---	-----	----

+ , - : Positive, ground.

A/D : audio and digital communication.

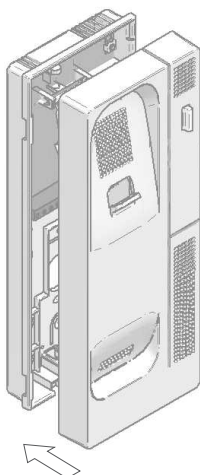
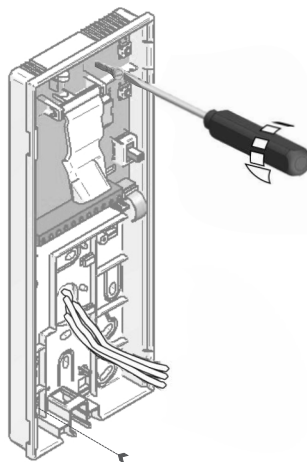
SA : auxiliary call repeater output.

**F**ix the telephone.



It is necessary to open the telephone for wiring and fixing purposes. To open the telephone, insert a plain screwdriver into the slots and rotate it 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.



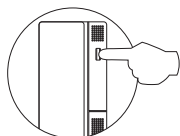
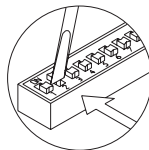
Pass the installation wires through the corresponding hole and connect them as shown on the installation diagrams. Close the telephone as shown on the picture. Once the telephone is closed, connect the handset using the telephone cord and put it on the cradle.



## Programming the T-530/R5 SU-R5 telephones.

Locate the configuration dip switch placed at the upper left side of the back of the sound module and set number 2 to ON, as described on page 105.

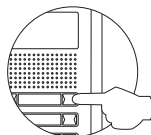
The door panel will emit a tone which indicates that it's in programming mode. In systems with more than one door panel, the programming process shall be done on the master door panel only.



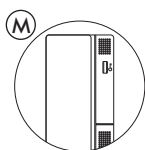
With the door release push button pressed, lift the handset off the telephone.



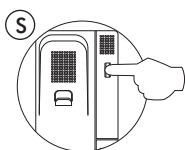
To show that the system is ready for programming, the door panel and handset will emit a tone, and audio communication can be established. Release the door release push button.



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



Master



Slave

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

Each apartment must have one master unit only; in case of parallel units configure them as slaves, whether they are 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 sound to advise that the system is still into programming mode.

### IMPORTANT:

If the installation has a CD-PLUS/R5 converter with coded door panel or porter's exchange, the programming codes assigned to the telephones must be between 1 and 250. To make it easier for the user to make a call, can assign in a parallel manner another code in a 2<sup>nd</sup> assignment chart (see manual: T-590ML porter's exchange or T-3403ML coded door panel).

Door panel installation.

To make maximum use of the existing installation, pay careful attention to the following indications.

**Door panel:** We will join the independent call lines (the wires connected to the push buttons) of the door panel to be replaced, and we will connect them to the new door panel's ground terminal.

The remaining wires will be used according to the following chart:

Door panel to be replaced	Golmar R5 door panel
— (3)	+
⊗ (5)	V+
⊠ (10)	V—
Lock release (P1)	A/D
Independent (call line)	—

Max. 0.25 mm<sup>2</sup>

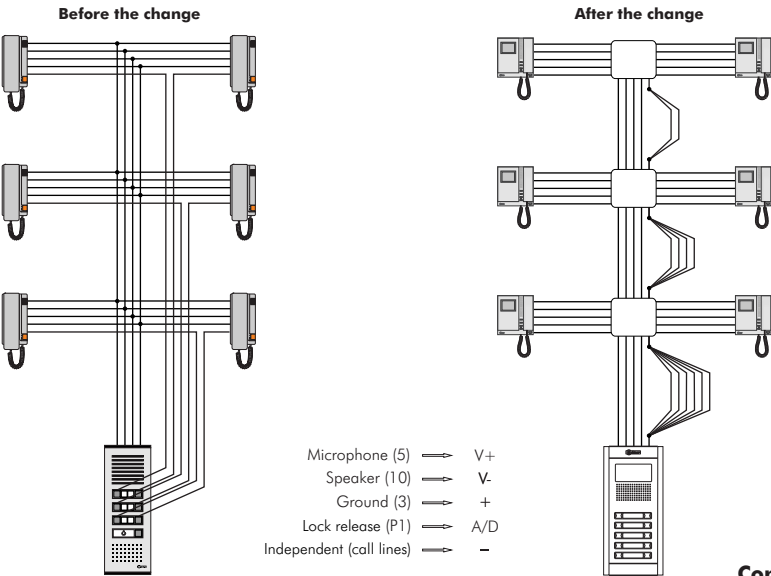
It is essential to follow this order in all the installation points.

All the wires of the installation must use the same conduit, especially those that carry the video signal and ground.

The wires must not be spliced, frayed, nor touch metal parts, and must not vary in cross section throughout the entire installation.

The entire installation must be at least 40cm away from any other installation otherwise there is a risk that the audio signal be exposed to interference, or that the system does not work correctly.

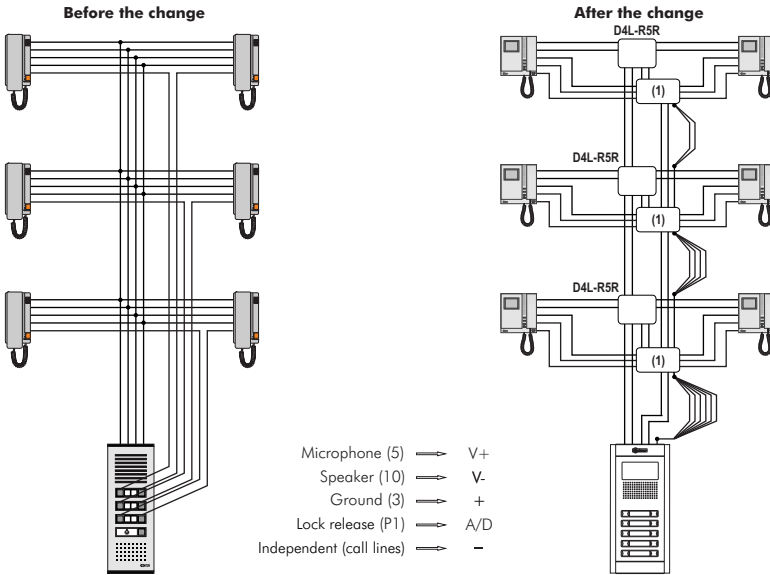
Installation with D4L-R5 video distributors



Continue

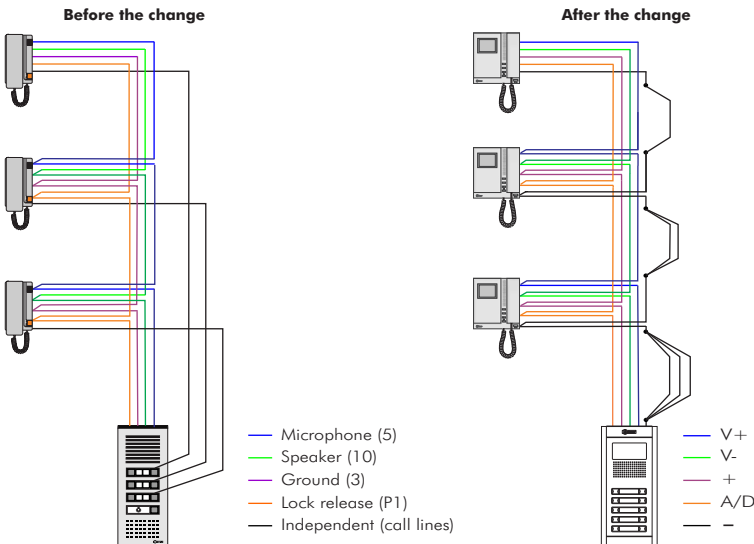
**Coming from previous page**

**Installation with D4L-R5R video distributors**



(1) Install a junction box (not supplied with the unit) on each floor for connecting terminals "+" , "-" and "A/D" of the installed equipment.

**Cascade installation**



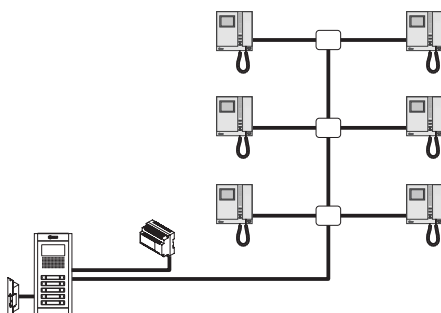
**IMPORTANT:** In cascade installations the wiring between monitors must be continuous, do not use connection blocks or splices. The wiring must run from the master riser to the monitors.

## Power supply and lock release.

The power supply's position in the installation and the way it's connected to the system can affect its performance. Pay careful attention to this point in order to obtain maximum performance from the video door entry system.

We will normally come across the following possibilities:

### If the conductors between door panel-power supply use a conduit independent of the rest of the installation:



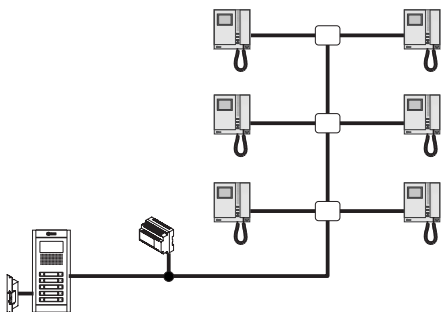
**The power supply is connected to the door panel, which in turn, is connected to the riser:**

- Deteriorates the electricity supply by increasing the distance between the power supply and farthest monitor, pay careful attention to the cross section of the positive wire.
- Greater resistance to video-audio interference.

- Greater protection against interference when installing an alternating current door release (requires a transformer **TF104** and 4 wires available between the door panel and power supply), see page 125 and 126.

### If the conductors between door panel-power supply use the same conduit as the rest of the installation:

- The installation of a direct current door release is recommended.



**The power supply is connected to a point somewhere between the door panel and the first distributor:**

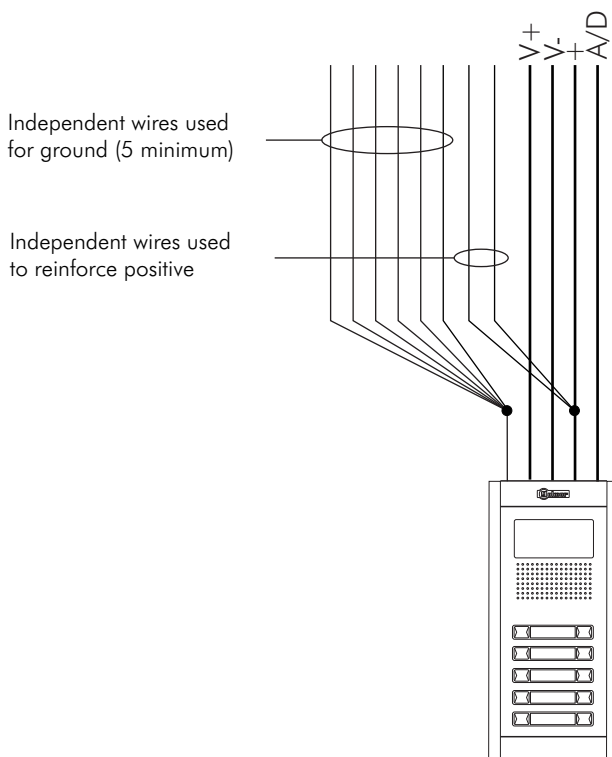
- Improves the electricity supply by reducing the distance between the power supply and farthest monitor.
- Less resistance to video-audio interference, pay careful attention to the cross section of the ground wire. This resistance will deteriorate the greater the distance between the power supply and door panel.

- Greater possibility of interference when installing an alternating current door release (requires a transformer **TF104** and 4 wires available between the door panel and power supply), see page 125 and 126.
- The installation of a direct current door release is recommended.

## Rearrangement of conductors.

Given that we must adapt to the available wiring, in some installations we may have to rearrange some independent wires in order to use to reinforce the positive. This rearrangement will be done in the section between the door panel and the first distributor.

As a general rule, when the cross section of the positive wire is less than  $0.5\text{mm}^2$  and a minimum of 5 independent wires dedicated to negative are available, then for each 3 independent wires we will use 1 to reinforce the positive.



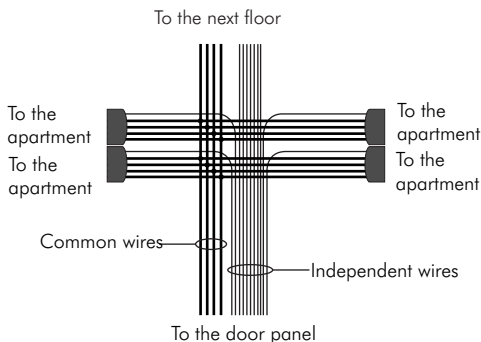
If the riser wiring shows clear signs of deterioration or does not comply with the minimum requirements (see page 95), then the installation riser must be replaced. For this, Golmar recommends using the **RAP-8415** cable. If the branch connections to the apartments are in good condition then their replacement will not be necessary.

If you have doubts about how to allocate the available wires, please contact our technical-commercial department.

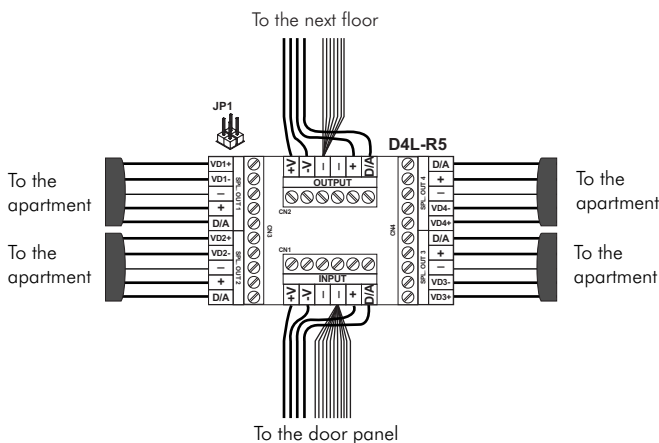
**F**loor distribution with D4L-R5 distributor.

**Distribution:** We will situate one or more D4L-R5 video distributors on each floor (one for each 4 monitors). We will cut all the independent call lines coming from the door panel (currently connected to ground) and we will connect them to the distributor's ground. The number of independent call lines remaining on that floor will be equal to the number of apartments, the rest will continue to the following floor. We must connect the ones that remain to the ground of each of the 4 distributed outputs (SPL.OUT) of the D4L-R5, the rest will be joined and connected to the distributor output. We will do the same with the 4 common terminals, as shown in the drawings.

**Before the change**



**After the change**

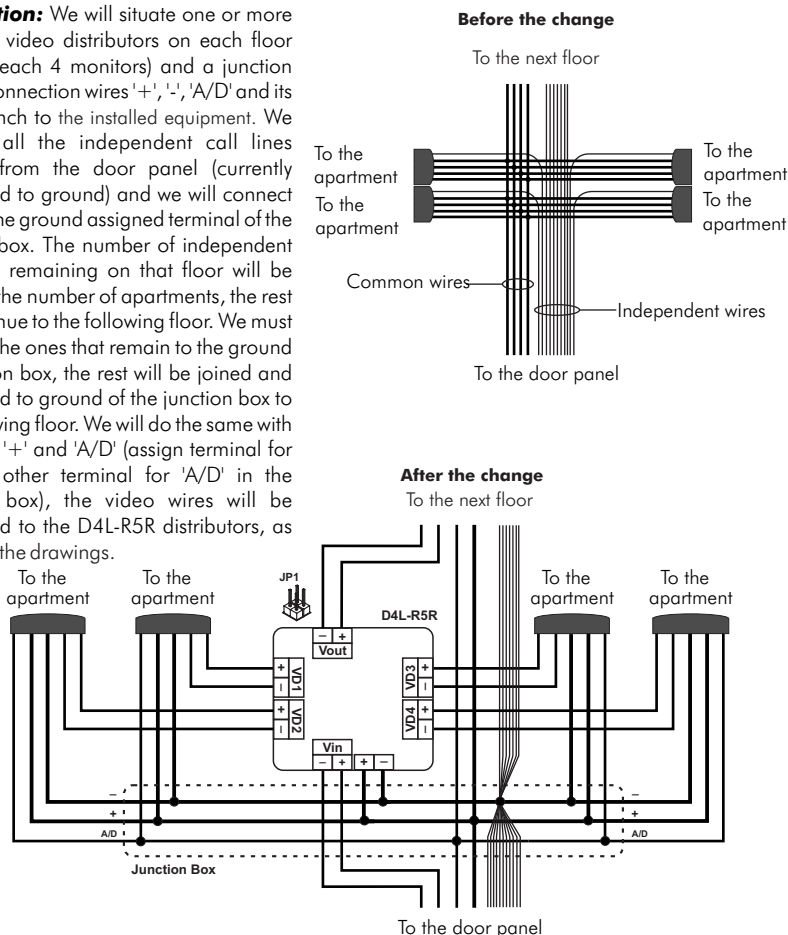


**Apartments:** We will disconnect the telephone and connect the monitor following the corresponding instructions indicated for the door panel. If a parallel monitor is needed then an additional power supply must be installed on that floor (see page 131), however if the parallel unit to be installed is a telephone or call repeater, then additional power is unnecessary. Only one additional unit per apartment can be installed. The maximum number of terminals in total is 200 (including parallel units).

**IMPORTANT:** We must be sure that in the apartments there are no relays, call repeaters or parallel telephones left over from the previous installation, otherwise serious damage could be caused to the new system or even to the apartment (they could burn).

## Floor distribution with D4L-R5R distributor.

**Distribution:** We will situate one or more D4L-R5R video distributors on each floor (one for each 4 monitors) and a junction box for connection wires '+', '-', 'A/D' and its later branch to the installed equipment. We will cut all the independent call lines coming from the door panel (currently connected to ground) and we will connect them to the ground assigned terminal of the junction box. The number of independent call lines remaining on that floor will be equal to the number of apartments, the rest will continue to the following floor. We must connect the ones that remain to the ground of junction box, the rest will be joined and connected to ground of the junction box to the following floor. We will do the same with the wires '+' and 'A/D' (assign terminal for '+' and other terminal for 'A/D' in the junction box), the video wires will be connected to the D4L-R5R distributors, as shown in the drawings.



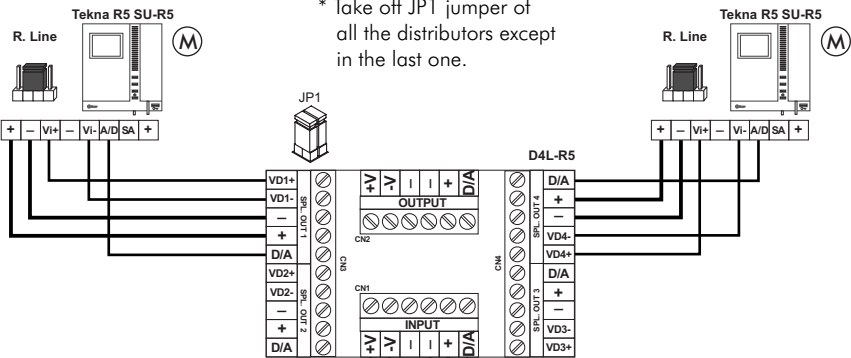
**Apartments:** We will disconnect the telephone and connect the monitor following the corresponding instructions indicated for the door panel. If a parallel monitor is needed then an additional power supply must be installed on that floor (see page 132), however if the parallel unit to be installed is a telephone or call repeater, then additional power is unnecessary. Only one additional unit per apartment can be installed. The maximum number of terminals in total is 200 (including parallel units).

### IMPORTANT:

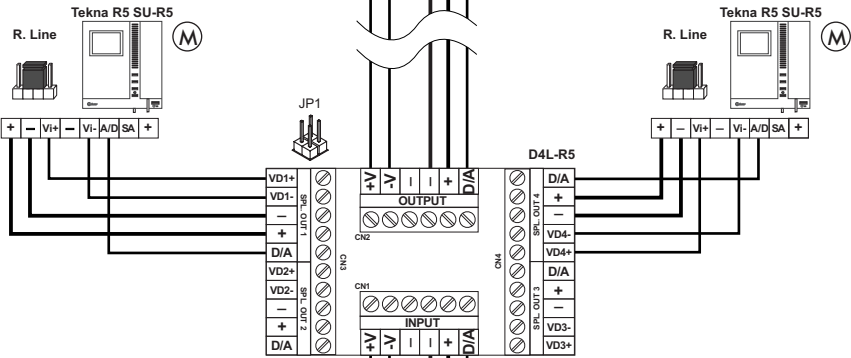
D4L-R5R distributor may be used only 2 distributed outputs connected to apartments with 2 monitors, the others 2 outputs of the D4L-R5R distributor must be connected to apartments with 1 monitor, (see page 132).

We must be sure that in the apartments there are no relays, call repeaters or parallel telephones left over from the previous installation, otherwise serious damage could be caused to the new system or even to the apartment (they could burn).

Top Floor



1<sup>st</sup> Floor

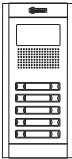


FA-PLUS/C  
rev. 938072

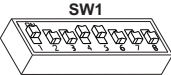
PRI	SEC
230 110 0	- - + +

Main

Vista Nexa door panel



SW1



Lock release  
Vd.c.

CN1
- CV2 CV1 +12 - + A/D Vi- Vi+ VO+ VO-



**V**ideo door entry system with D4L-R5 distributor and direct current door release.

The installation diagram shows the connection of a video system with one or several door panels for the same building.

If the system has one door panel only, override the wiring to the second door panel.

If the system has more than one door panel, wire the second panel as shown on the diagram. In case of more than two door panels, wire them as the second is connected.

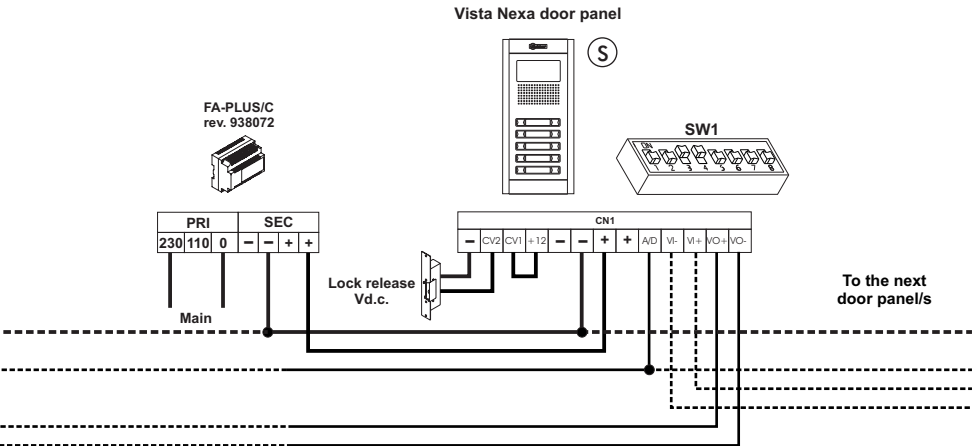
**Wire correspondences**

Audio to be replaced	Golmar Vista PLUS
— (3)	+
α (5)	V+
🔊 (10)	V—
Lock release (P1)	A/D
Independent (call line)	—

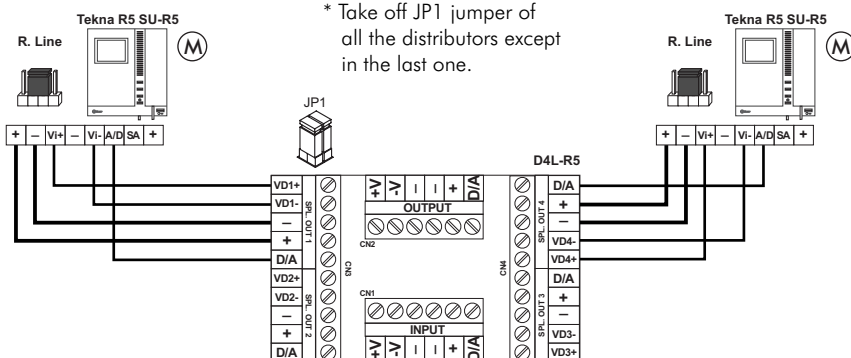
Max. 0.25mm<sup>2</sup>

Ⓜ = Master.

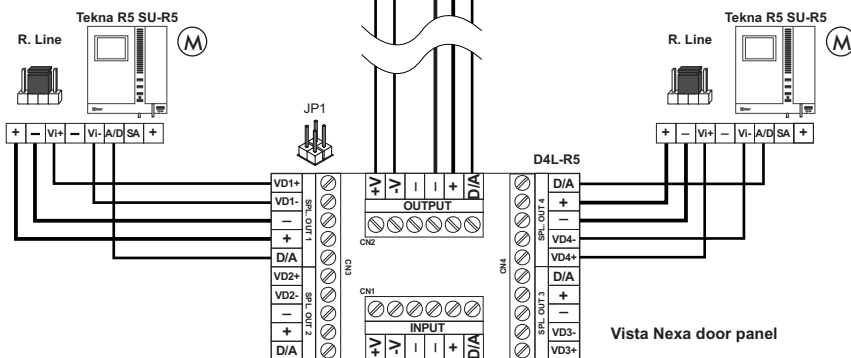
Ⓢ = Slave.



## Top Floor



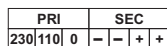
## 1<sup>st</sup> Floor



FA-PLUS/C  
rev. 938072



TF104

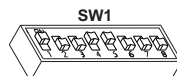
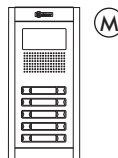


Main



Main

Vista Nexa door panel



\* Lock release  
Va.c.

### \* Important:

Place the varistor supplied with the sound module on the lock release terminals directly to ensure a proper system operation.

Video door entry system with D4L-R5 distributor and alternating current door release and additional **TF104** transformer.

The installation diagram shows the connection of a video system with one or several door panels for the same building.

If the system has one door panel only, override the wiring to the second door panel.

If the system has more than one door panel, wire the second panel as shown on the diagram. In case of more than two door panels, wire them as the second is connected.

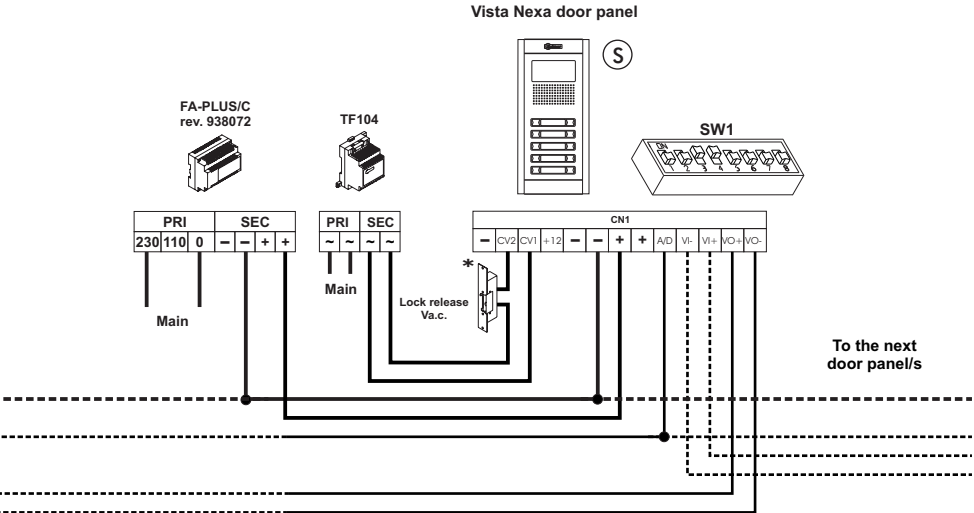
**Wire correspondences**

Audio to be replaced	Golmar Vista PLUS
— (3)	+
α (5)	V+
⏏ (10)	V—
Lock release (P1)	A/D
Independent (call line)	—

Max. 0.25mm<sup>2</sup>

Ⓜ = Master.

Ⓢ = Slave.



CV  
Vd.c.

**V**ideo door entry system with D4L-R5R distributor and direct current door release.

The installation diagram shows the connection of a video system with one or several door panels for the same building.

If the system has one door panel only, override the wiring to the second door panel.

If the system has more than one door panel, wire the second panel as shown on the diagram. In case of more than two door panels, wire them as the second is connected.

**IMPORTANT:**

D4L-R5R distributor may be used only 2 distributed outputs connected to apartments with 2 monitors, the others 2 outputs of the D4L-R5R distributor must be connected to apartments with 1 monitor, (see page 132).

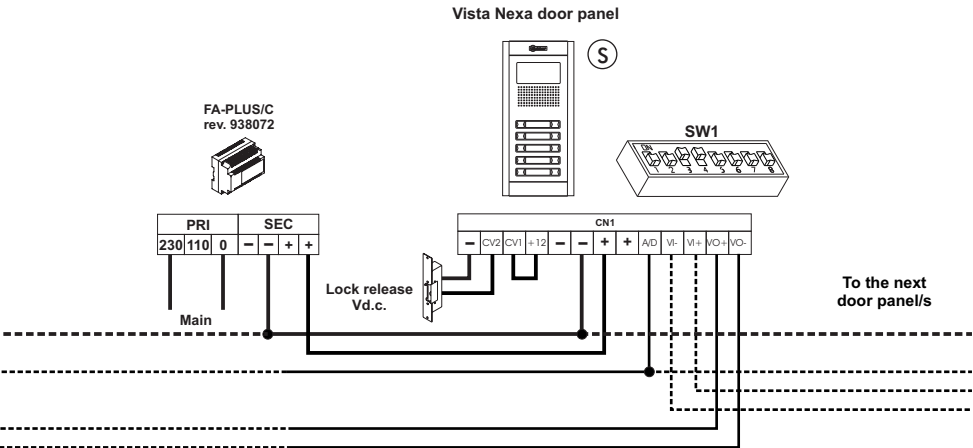
**Wire correspondences**

Audio to be replaced	Golmar Vista PLUS
— (3)	+
α (5)	V+
🔊 (10)	V—
Lock release (P1)	A/D
Independent (call line)	—

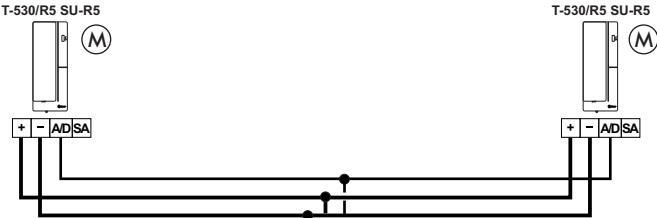
} Max. 0.25mm<sup>2</sup>

Ⓜ = Master.

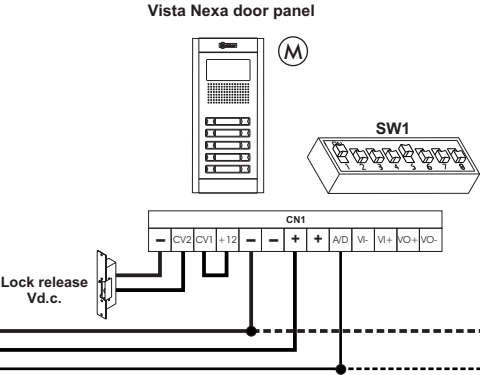
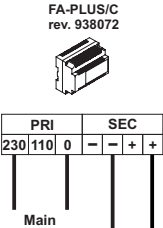
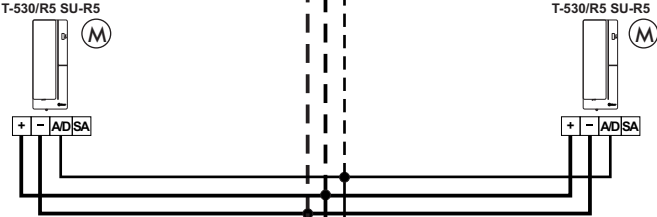
Ⓢ = Slave.



Top Floor



1<sup>st</sup> Floor



Audio door entry system with direct current door release.

The installation diagram shows the connection of an audio system with one or several door panels for the same building.

If the system has one door panel only, override the wiring to the second door panel.

If the system has more than one door panel, wire the second panel as shown on the diagram. In case of more than two door panels, wire them as the second is connected.

IMPORTANT:

It is recommended not to cut the 2 extra wires 'V+' and 'V-' in case a monitor needs to be installed in the future.

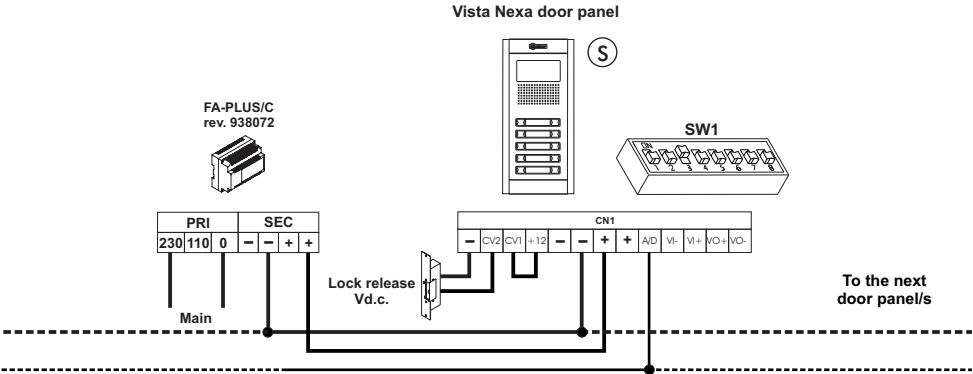
Wire correspondences

Audio to be replaced	Golmar Vista PLUS
— (3)	+
Ⓐ (5)	V+
🔊 (10)	V—
Lock release (P1)	A/D
Independent (call line)	—

Max. 0.25mm<sup>2</sup>

Ⓜ = Master.

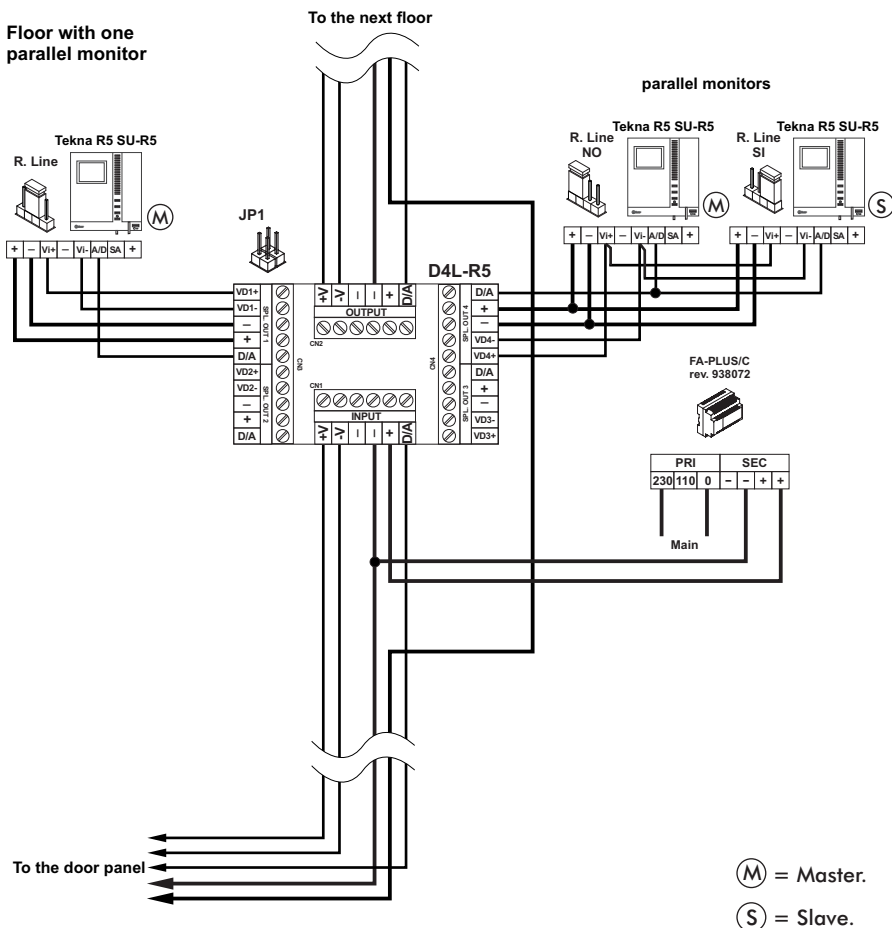
Ⓢ = Slave.



## Parallel monitor with D4L-R5 distributor.

If a parallel monitor is installed in an apartment, then an additional power supply must be installed as close as possible to the distributor. The positive originating from the door panel/power supply **must not** supply the distributor on that floor, it should continue to the following floors, if any. **The ground of both power supplies must be linked.**

**REMEMBER:** The total number of elements per apartment (monitors, telephones, call repeaters, etc.) must never exceed two units.



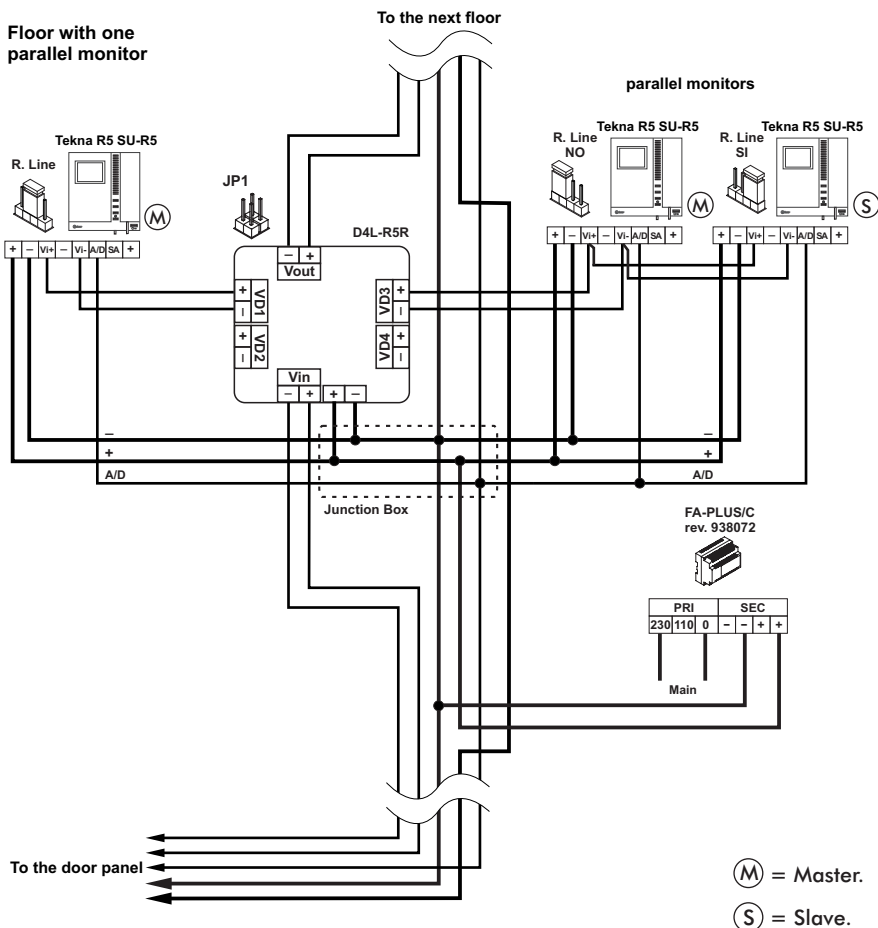


## Parallel monitor with D4L-R5R distributor.

If a parallel monitor is installed in an apartment, then an additional power supply must be installed as close as possible to the distributor. The positive originating from the door panel/power supply **must not** supply the distributor on that floor, it should continue to the following floors, if any. **The ground of both power supplies must be linked.**

**REMEMBER:** The total number of elements per apartment (monitors, telephones, call repeaters, etc.) must never exceed two units.

**IMPORTANT:** D4L-R5R distributor may be used only 2 distributed outputs connected to apartments with 2 monitors, the others 2 outputs of the D4L-R5R distributor must be connected to apartments with 1 monitor.

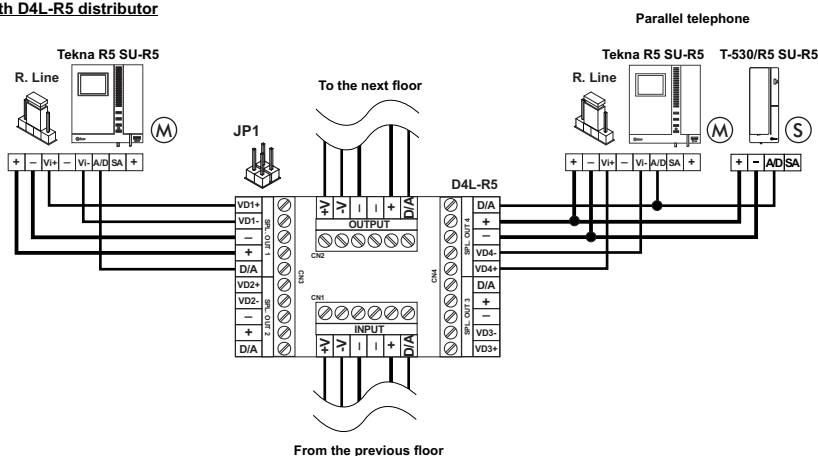


## Parallel telephone.

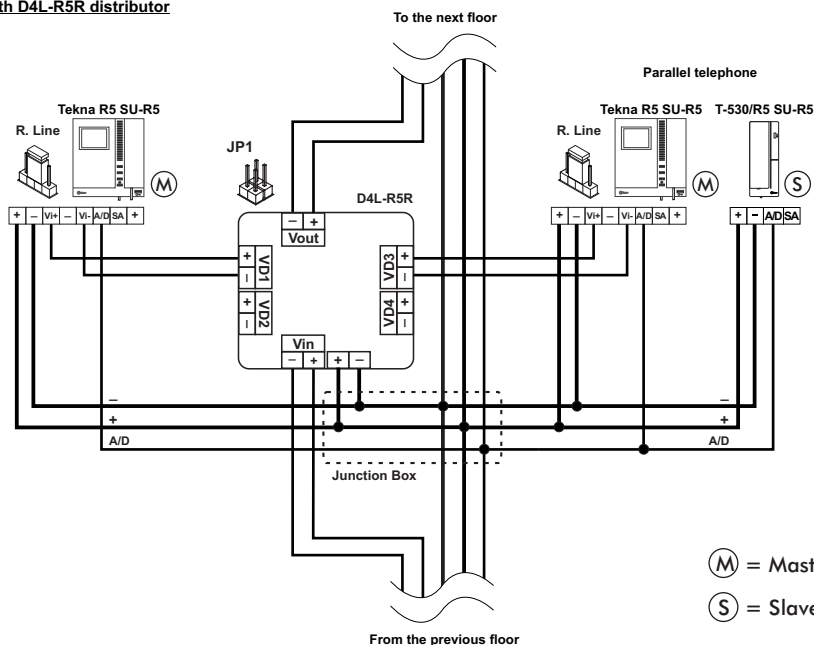
The installation of a parallel telephone does not require additional power.

**REMEMBER:** The total number of elements per apartment (monitors, telephones, call repeaters, etc.) must never exceed two units.

### With D4L-R5 distributor



### With D4L-R5R distributor

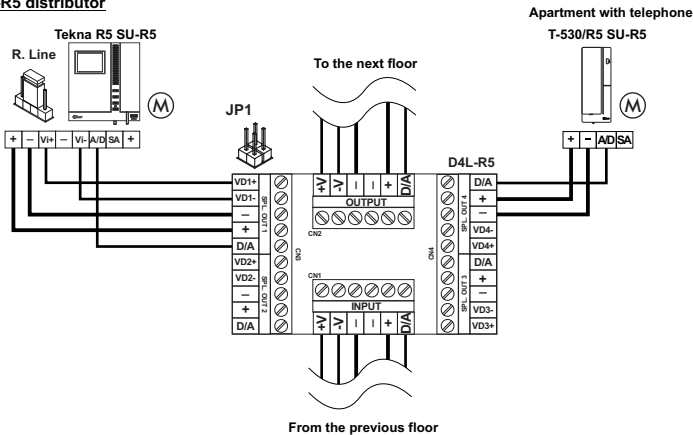


Apartment with telephone.

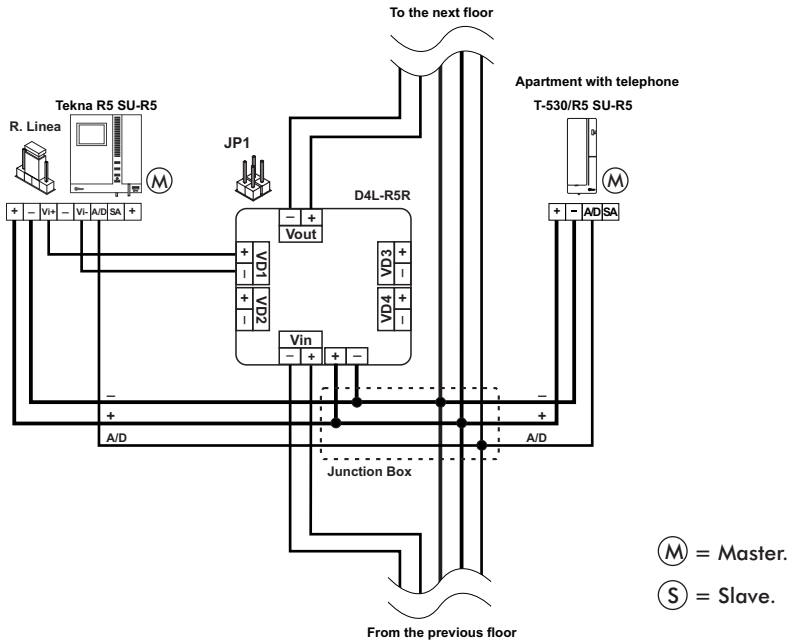
If an apartment does not desire a video system monitor, then a T-530/R5 SU-R5 telephone can be installed using just 3 wires. It is recommended not to cut the 2 extra wires in case a monitor needs to be installed in the future.

**REMEMBER:** The total number of elements per apartment (monitors, telephones, call repeaters, etc.) must never exceed two units.

With D4L-R5 distributor



With D4L-R5R distributor



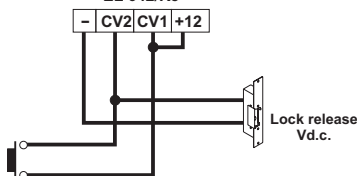
## External lock release activation.

The lock release can be activated at any moment by using an external push button, that must be connected between 'CV1' and 'CV2' of the door panel.

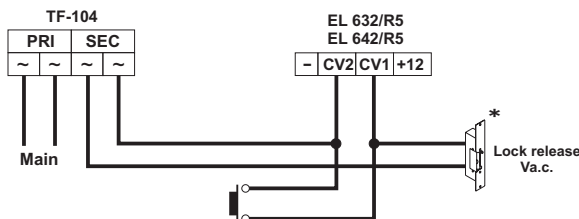
This function will allow to exit from the building being not necessary the use of a key.

### d.c. Lock release

EL 632/R5  
EL 642/R5



### TF-104 and a.c. Lock release

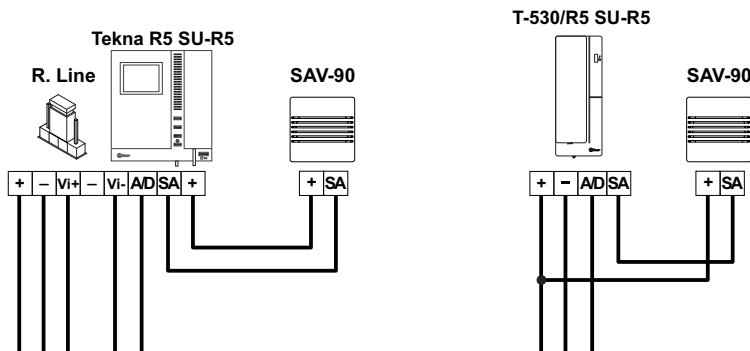


**\*Important:** Place the varistor supplied with the sound module on the lock release terminals directly.

## Additional call repeater connection.

The SAV-90 call repeater unit allows the call on the monitor to be repeated in another part of the apartment.

**REMEMBER:** The total number of elements per apartment (monitors, telephones, call repeaters, etc.) must never exceed two units.



An easy way to check that the system is working properly is to disconnect the wiring from the door panel and to check the monitor/telephone directly connected to the sound module.

A short circuit between different terminals of the installation will never damage the connected systems.

☛ Nothing operates.

- ☞ Remember that the system remains inactive for 45 seconds after connecting the power supply, the same occurs upon connecting any unit to the installation.
- ☞ Check the output power supply voltage between '-' and '+' terminals: it should have 17,5 to 18,5Vd.c. If not, disconnect the power supply from the installation and measure again. If it's correct now, it means there is a short circuit in the installation: Disconnect the power supply from mains and check the installation.
- ☞ Check that 'A/D' terminal is not shortcircuited with '-' or '+' terminals.

☛ Inappropriate audio level.

- ☞ Adjust the level volumes as shown on page 106. In case of feedback, reduce the audio levels until feedback fade out. If feedback doesn't disappear refer to the following hint.

☛ Continuous audio feedback.

- ☞ Check that 'A/D' terminal is not shortcircuited with other terminals.

☛ Door open function no operates.

- ☞ Remember that this function is only available during call and communication progresses.
- ☞ The CV1 and CV2 terminals for door opening are voltage free outputs. The cable requires a connection depending on whether 12Vdc or 12Vac is needed, as shown on page 123-130.
- ☞ Make a short circuit between the 'CV1' and 'CV2' terminals on the sound module; there should be 12V (d.c. or a.c. depending on the type door release installed) between the terminals on the door release. If so, check the lock release and its wiring.

☛ The system cannot be programmed.

- ☞ Check that the switch number 2 of the configuration dip switch is set to ON (see page 105) and that the programming steps are correctly followed.
- ☞ Check that 'A/D' terminal is not shortcircuited with other terminals.

☛ Some units don't receive calls.

- ☞ Remember that each apartment must have a master unit only. Check that the units are switched on and correctly programmed.

☛ No video image.

- ☞ Check that dip switch 4 on the EL632/R5 module is set to ON.
- ☞ Check that power is reaching the distributors, the voltage between the '+' and '-' terminals must be between 15 to 18Vd.c.

☛ Push buttons don't work.

- ☞ When the push button is pressed check that the door panel emits a confirmation tone, if not, check the wiring of the push buttons (pages 101 to 102).
- ☞ If there is a confirmation tone, check the programming of the monitors or telephones (pages 113 and 116).

This image shows a full page of primary-ruled paper. It features multiple sets of horizontal lines designed for handwriting practice. Each set consists of a solid top line and two dashed midlines, creating a guide for letter height and placement. The lines are evenly spaced across the entire page, providing a template for writing practice.

[illegible]

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 Marcado 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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