



T220ML

rev.0111

Video
door entry system
Kits
2 wires installation

SV-220S

Instructions manual

Cod. 50121256

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

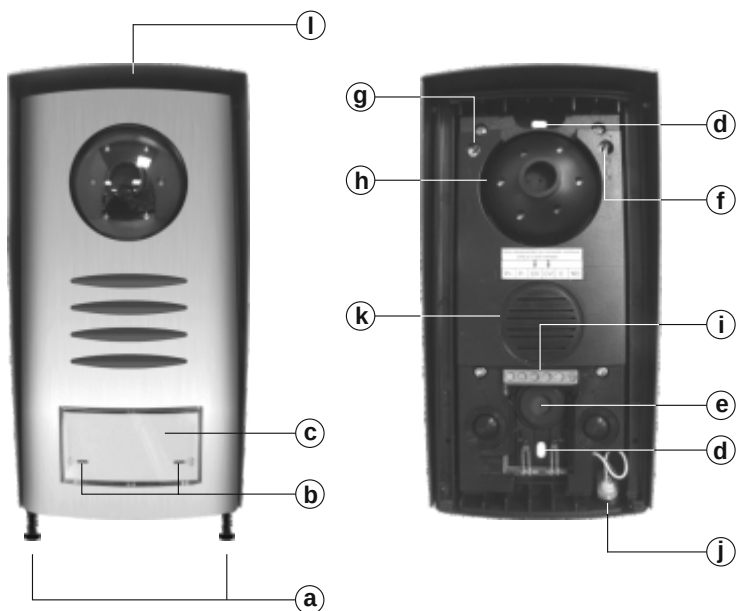
- ☛ Do not use excessive force when tightening the power supply connection block screws.
- ☛ Install the equipment without the power connected.
- ☛ Before connecting the system, check the connections between door panel, monitors and the power supply connection.
- ☛ Only use compatible color and b&w monitor Platea-22.
- ☛ Only use parallel or twisted cable (to sections see page 46).
- ☛ Do not use single wire.
- ☛ Do not double the cable to increase the section.
- ☛ The entire installation must be at least 40 cm. 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.
- ☛ Always use 12 Vd.c. lock releases (cod. 20600149, not included i the kit).
- ☛ Do not switch voltage higher tha 12 Vd.c. / 1A between C and NO door panel terminals.
- ☛ Both monitor and door panel are delivered with a protective film, to avoid scratches during the installation. These films must removed by the end user only.
- ☛ Do always follow the enclosed information.

- ☐ Video door entry system with simplified installation (polarised 2 wire bus).
- ☐ Up to 2 access door panel.
- ☐ Up to 2 monitors per installation, (each monitor needs its own PA-22 power supply).
- ☐ Acoustic call acknowledgment signals.
- ☐ maximum distance between the door panel and the last monitor: 80m.
- ☐ Maximum distance between power supply and monitor: 10m.
- ☐ Door opening timed at 2 seconds.
- ☐ D.C. lock release.
- ☐ Contact free auxiliary for activating auxiliary devices, do not switch voltage and current higher than 12Vcc/1A between C and NO door panel terminals.
- ☐ *Platea-22 monitor:*
 - ☞ "Autoswitch-on" function.
 - ☞ "Intercommunication" function.
 - ☞ Activation auxiliary device.
 - ☞ B/W and Colour monitor.
 - ☞ Three positions call reception volume control: maximum, medium and mute.
 - ☞ Brightness and contrast control (colour control in case of colour screen).
 - ☞ Different call tones which identify the call procedure: door panel and intercom.
 - ☞ Four different ring tones selection for door panel call.

SYSTEM OPERATION

- ☐ To make a call, the visitor should press the over one of the push button ends, as it is shown on the label of the push button. At this moment, the call will be received at the monitor(s) in the apartment.
- ☐ The call tone lasts for 40 seconds, unknown to the visitor, the picture is displayed in the monitor (s) just a few seconds after the call is received. If the call is not answered in 40 seconds, the picture will disappears.
- ☐ To establish communication pick up the monitor handset. The picture will disappears on the second monitor (if exists).
- ☐ The communication will last for 80 seconds or until the handset is replaced.
- ☐ if during communication with a door panel, a call is made from a second door panel (if exists), the monitor in communication will automatically enter in communication with the last calling door panel.
- ☐ To open the door, press the door release push button during call reception, communication or autoswitch-on processes: with one press, the door release operates during 2 seconds. During activation, the picture will disappear from the monitor screen.
- ☐ The description of the function push buttons is shown on page 41.

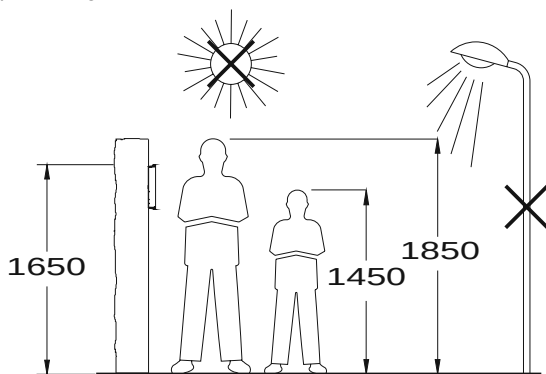
Door panel description.



- a. Screws of fixation of the aluminium front (x2).
- b. Call push button.
- c. Label push button.
- d. Wall attachment hook (x2).
- e. Wiring input hole.
- f. Monitor audio adjustment.
- g. Door panel audio adjustment.
- h. Telecamara position adjustment.
- i. Installation terminals.
- j. Microphone.
- k. Speaker.
- l. Rainproof cover.

D

oor panel positioning.



The upper part of the door panel should be placed at 1,65m.

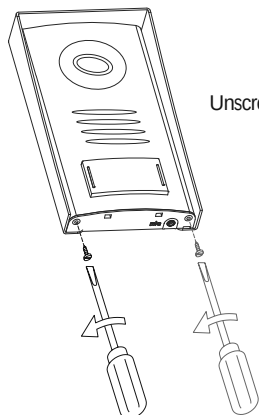
The door panel has been designed to be placed under most of the environmental conditions.

However it's recommended to take additional cautions, like the use of the supplied rainproof cover or the installation under a covered place.

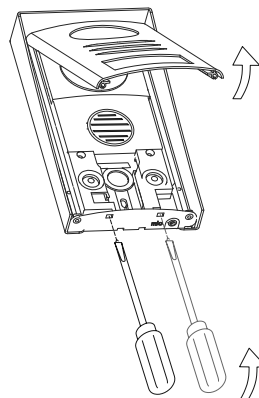
To obtain a good quality picture on video door entry systems, avoid direct incidence from light sources (sun, streetlights, ...). It's recommended the use of an external illumination source in case of low light conditions.

R

emove the aluminium front.

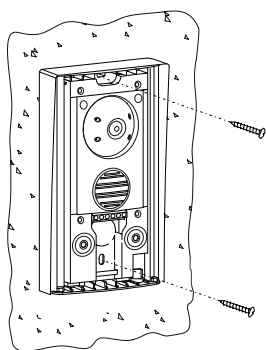


Unscrew the door panel bottom screws.



With help of a plain screwdriver, remove the aluminium front making a light pressure in the door panel bottom holes, as shown on the picture.

Place the door panel.

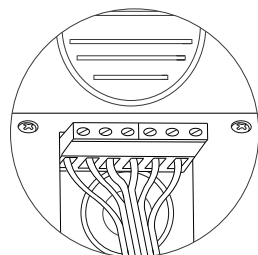


Face the door panel to the wall by placing the top at 1,65m. height and insert the installation wires through the cables entry.

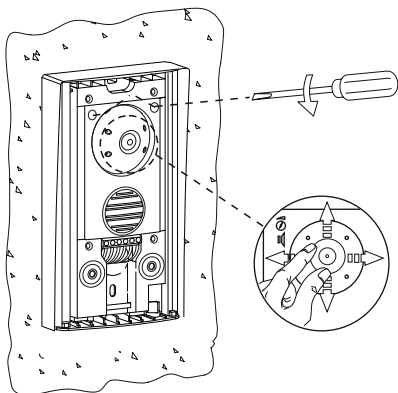
Drill two holes of 6mm. diameter and insert the wallplugs. Fix the door panel with especificed screws.

Door panel wiring.

Connect the installation wires to the terminal connector, according to the installation diagrams.



Final adjustments.



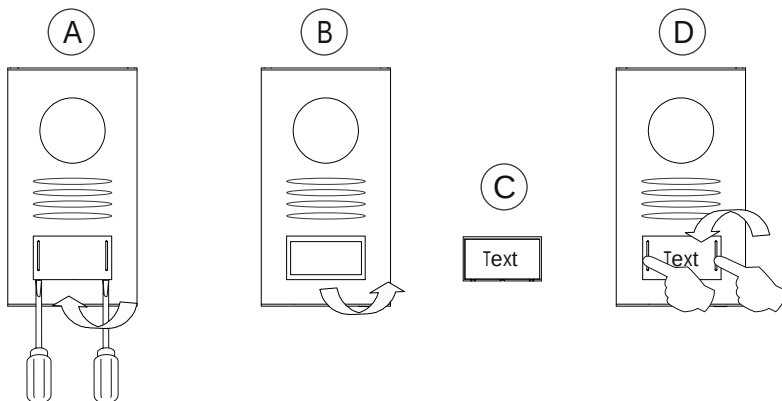
If after starting the system it's considered that the audio volume isn't correct, proceed with the necessary adjustments as shown on the picture.

The telecamera has a pan and tilt mechanism. If the orientation is not adequate the correct its position.

Push button label.

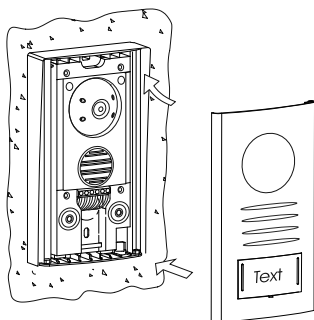
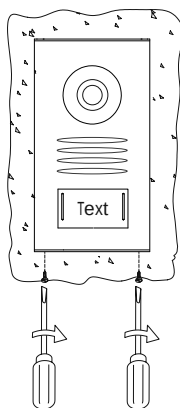
To customize the push button label, insert a flat screwdriver to accede to the label, remove the push button front cover, see picture (A) & (B). The label is now accesible to mark a text, see picture (C).

Replace the push button front cover, making a light pressure until listening a click in both sides of the front cover, see picture (D).



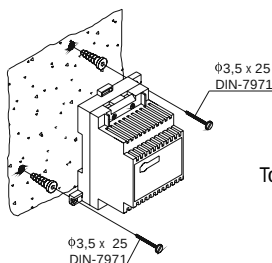
Close the door panel.

Finish the door panel assembly by replacing the aluminium front.



With help of a plain screwdriver, fix the aluminium front with especified screws, as shown on the picture.

Detail of the FA-22 power supply installation and technical features.

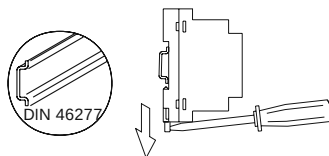


The power supply must be installed in a dry and protected place. It's recommended to protect the power supply by using a thermo-magnetic circuit breaker and to use a ground connection.

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-22 power supply uses 3 units over DIN guide.



This device has been exclusively designed to be used on Golmar Kit video SV220S Colour & B/W, SV-270S Colour, SV-370S Colour. Golmar will not be responsible of the possible damages caused for an improper use or when used for other purposes than the specified. Install the power supply according to your country rules.

Technical features

Input	230 Vac / 50 Hz
Power	25 VA
Output	17 Vdc 1,5A
Working temperature	0°C ~ + 35°C
Dimensions	54(W) x 83(H) x 58(D) mm.
Weight	130 gr.

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

LOCK RELEASE INSTALLATION

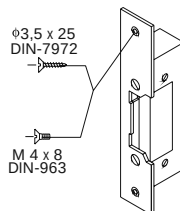
Lock release installation.

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.

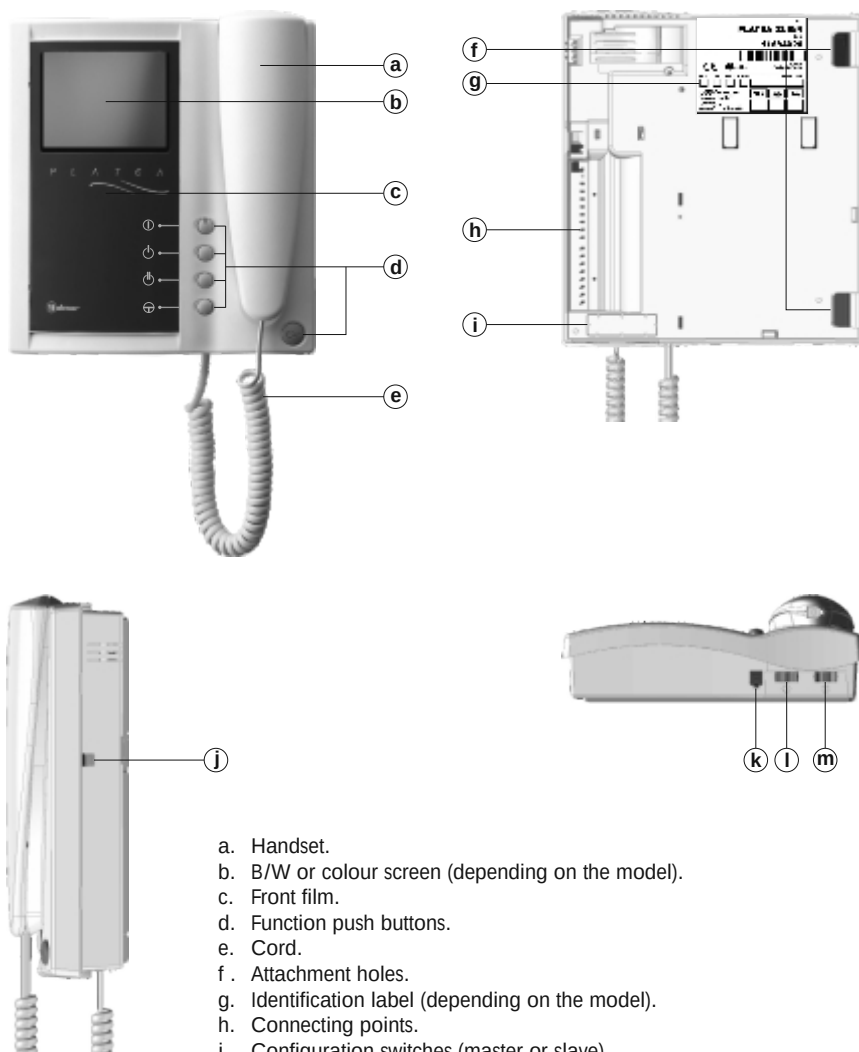
IMPORTANT:

The lock release must be 12V direct current, (see page 45).

Optionally lock release 12Vac with TF104 transformer and R-3 relay (see page 46).



Description Platea-22 monitor.



- a. Handset.
- b. B/W or colour screen (depending on the model).
- c. Front film.
- d. Function push buttons.
- e. Cord.
- f. Attachment holes.
- g. Identification label (depending on the model).
- h. Connecting points.
- i. Configuration switches (master or slave).
- j. Three positions call reception volume control (max., medium & mute).
- k. Cable slot.
- l. Contrast control (colour control in case of colour screen).
- m. Brightness control.

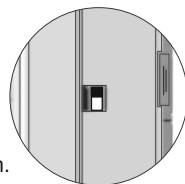
Function push buttons.

-  Push button ring tone selection monitor, (for description see page 44).
-  Push button for intercom function (only available on systems with additional monitor, for description and connection see page 44 y 45).
-  Regardless of the handset position, during call reception, communication and autoswitch-on processes, activate the auxiliary device (see page 46). During activation, the picture will disappear from the monitor screen.
-  It allows to visualize the video and the audio from the door panel during 40 seconds. With the handset off the cradle, it allows to establish audio and video communication with the door panel. In case of systems with two door panels, press the button again to monitor the picture from the second door panel.
-  During call reception, communication and autoswitch-on processes, it allows lock release activation. During activation, the picture will disappear from the monitor screen.

Call volume control.

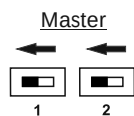
The monitor allows to regulate the volume of call with the switch of three positions placed in the right side of the monitor.

-   Maximum: For a high volume, place the switch in the top position.
-   Medium: For a medium volume, place the switch in the medium position.
-   Mute: Without volume, place the switch in the low position. If the monitor ring tone is muted and a call is made on the door panel, the picture will appears on the monitor; to establish audio communication pick up the handset.

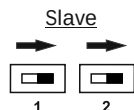


Configuration switches.

The configuration switches are placed on the monitor base.

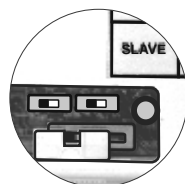


On installation with one monitor only, set it as master; when installations with two monitors, set as master the monitor where the door panel is connected and the other monitor as slave.

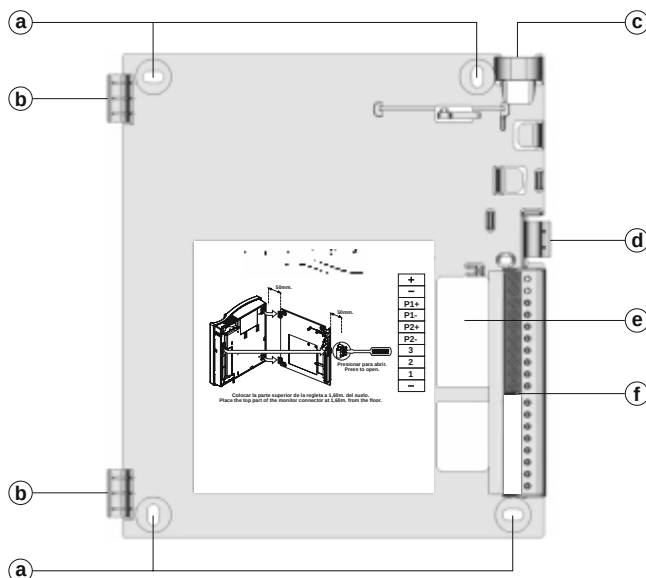


On installations with two monitors, set as slave the monitor that is not connected the door panel.

IMPORTANT: On installations with two monitors, set as master the monitor where the door panel is connected.



Monitor connector description.



- a. Wall attachment hole (x4).
- b. Monitor attachment hook (x2).
- c. Vertical wiring input.
- d. Attachment clip.
- e. Wiring input hole.
- f. Installation terminals:

- + : Positive.
- : Ground.
- P1+ : Connection to door panel1.
- P1- : Connection to door panel1.
- P2+ : Connection to door panel2.
- P2- : Connection to door panel2.
- 3 : Intercom.
- 2 : Intercom.
- 1 : Intercom.
- : Ground.

Note: To connect one or two door panels (see page 45).

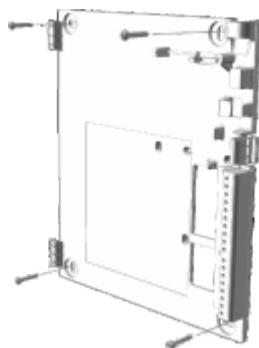
To connect "Intercom" between two monitors (see page 45).

Fix the monitor connector to the wall.

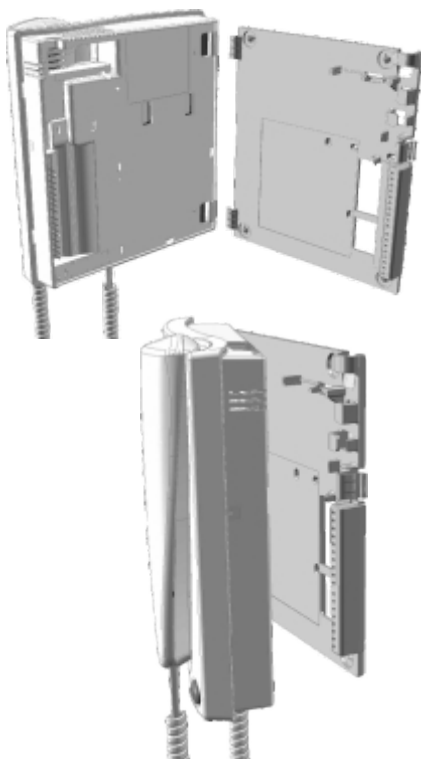
Avoid to place the monitor near to heating sources,
in dusty locations or smoky environments.

To install the monitor directly over the wall,
drill two holes of Ø6mm. and use the supplied screws.

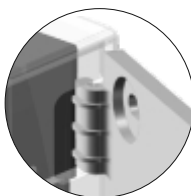
The upper part of the monitor connector must be placed
at 1,60m. height roughly. The minimum distance
between the monitor connector and the closest object
must be 5cm.



Fix the monitor.

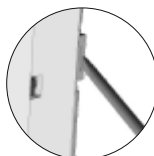


Place the monitor at right angles to the connector
and align the attaching holes of the monitor
with the attachment hooks of the connector,
as it is shown on the drawing.



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.



C hanging the front film.

The monitor is supplied with a reversible front film, that allow the owner to choose between two colors. To change the front film, remove the front plate by inserting a plain screwdriver in the triangle marks, as it is shown on the drawing.



R ing tone selection.

It's possible to select for each monitor between four different ring tones.

To select a ring tone:

1. Press the push button  to play the selected ring tone.
2. Press the push button  to play the next ring tone. Repeat this stage till find the desired ring tone.
3. To save the desired ring tone and exit press the push button .

The monitor exit of the ring tone selection to the 40 seconds, saving the last selected ring tone.

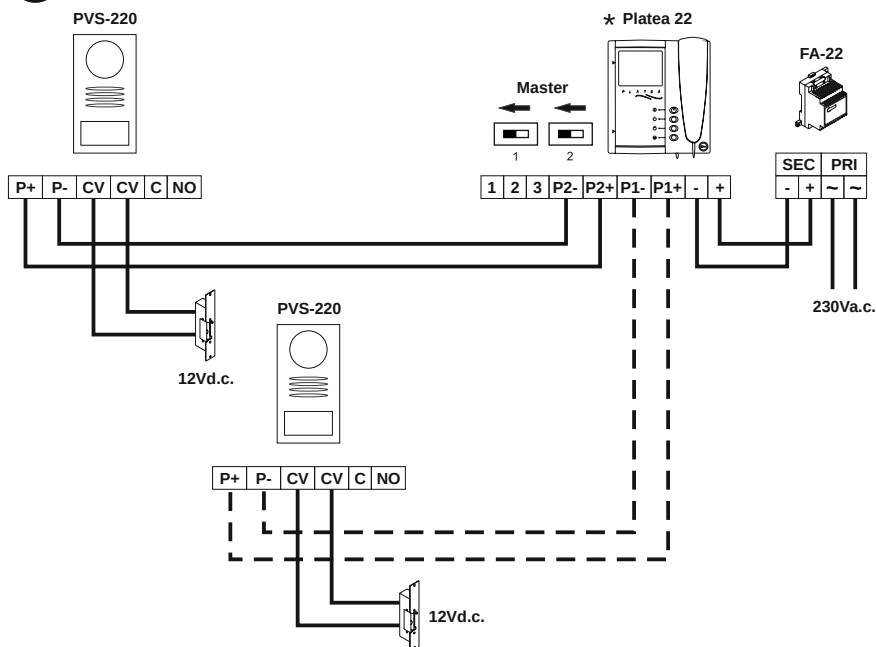
I ntercom function.

Platea-22 monitor, incorporate as standard the intercom function between two monitors of the same apartment. To enable this function check the following conditions:

- The monitor that is connected to door panel(s) has been configured as master and slave the other monitor.
- Link the 1, 2 and 3 terminals of the units (see page 45).

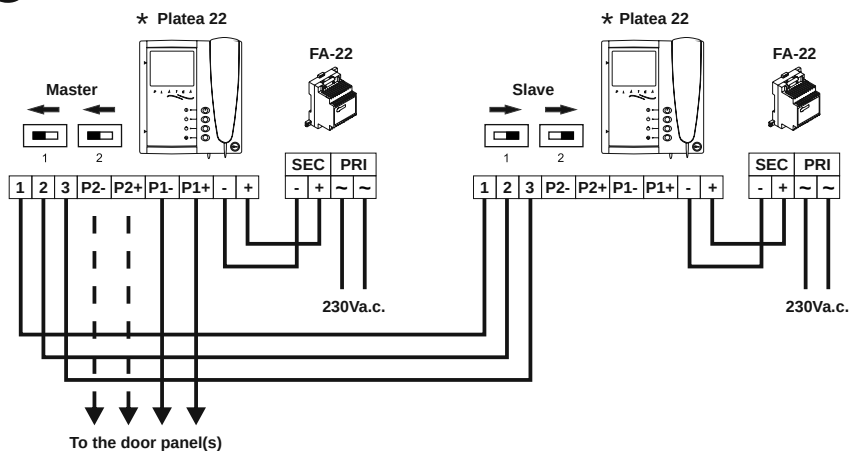
To establish an intercom communication lift the handset and press the intercom push button  on the calling monitor: acoustic tones will be reproduced on the handset confirming the call is in progress, the called monitor will receive the call. To establish communication, lift the handset of the called monitor. To finish the communication, press the push button  at any of the monitors. If during an intercom communication a call is made from the door panel, the intercom function will be cancelled, establishing audio and video communication between the door panel and the master monitor.

One or two door panels.



★IMPORTANT: Only use compatible Colour Platea 22 (cód. 11684021) or B/W Platea 22 (cód. 11684020) monitors.

Connection of an additional monitor.

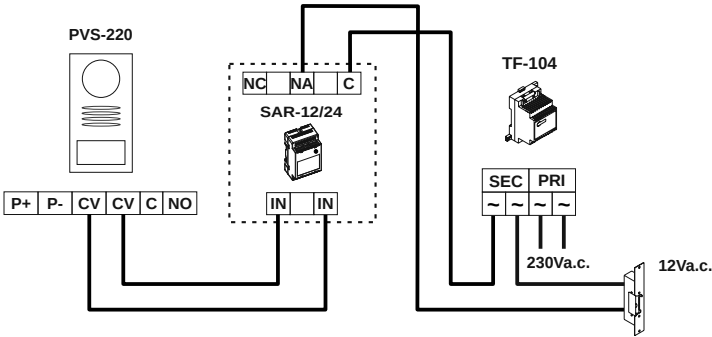


★IMPORTANTE: Only use compatible Colour Platea 22 (cód. 11684021) or B/W Platea 22 (cód. 11684020) monitors.

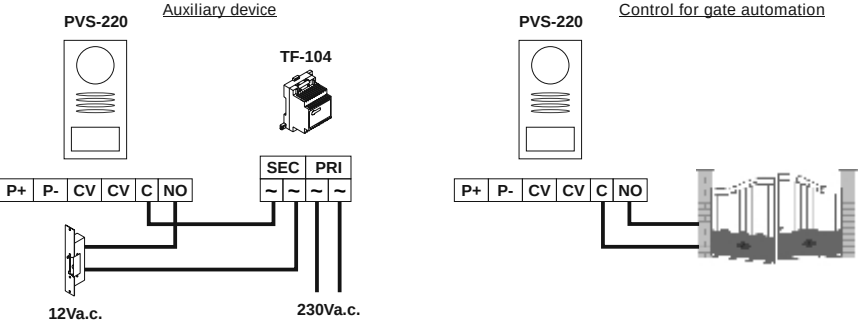
Sections chart.

Terminal	Distance up to		
	10m.	20m.	80m.
P + , P- , P1 + , P1- , P2 + , P2-	1,00mm ²		1,50mm ²
+ , -	1,50mm ²	- - - -	
1 , 2 , 3	1,00mm ²		- -
CV , CV	1,50mm ²	- - - -	

Connection of an a.c. lock release by using TF-104 transformer and SAR-12/24 relay.



Connection of an auxiliary device or control for gate automation.



-Use an external relay for devices with higher consumption than 12Vd.c. / 1A.
-'C' and 'NO' contact free auxiliary.

- ⇨ Nothing operates.
 - ⌚ Check the output power supply voltage between '-' and '+' is of 17Vd.c. Otherwise, disconnect the power supply from the installation and measure again. If its correct now, it means there is a short circuit in the installation. Disconnect the power supply from the mains and check the installation.
 - ⌚ Check the polarity wiring.
 - ⌚ On installations with only one monitor, check the monitor is configured as master1, (see page 41).
 - ⌚ On installations with two monitors, check the monitor connected to door panel(s) has been configured as master and slave the other monitor, (see page. 41).
- ⇨ Monitor don't receive calls.
 - ⌚ Check the output power supply voltage between '-' and '+' is of 17Vd.c. Otherwise, disconnect the power supply from the installation and measure again. If its correct now, it means there is a short circuit in the installation. Disconnect the power supply from the mains and check the installation.
 - ⌚ Check the polarity wiring.
 - ⌚ On installations with only one monitor, check the monitor is configured as master1, (see page 41).
 - ⌚ On installations with two monitors, check the monitor connected to door panel(s) has been configured as master and slave the other monitor, (see page. 41).
- ⇨ Don't listen the monitor ring tone.
 - ⌚ Check the monitor call volume is not in "mute" position, (see page. 41).
- ⇨ Inappropriate audio level.
 - ⌚ Adjust the audio levels as shown on page 37.
- ⇨ Does not work the intercom.
 - ⌚ Remember that this function is only possible on installations with two monitors.
 - ⌚ Check the intercom function steps have been realized correctly, (see page 44).
 - ⌚ Check wiring between monitors is correct, (see page 45).
- ⇨ Door open function no operates.
 - ⌚ Remember that this function is only available during call, communication and autoswitch-on progresses.
 - ⌚ Check the lock release and its wiring.



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