

Golmar



GB2 Video Door Entry System Kit 2-Wire Nexa Modular



SER MANUAI

Code 50122080

TKIT632A VESTA7 EN REV.0317

INTRODUCTION

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

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

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

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SET-UP WARNINGS

- Do not overtighten the screws on the power supply connector.

- Always disconnect the power supply before installing or making modifications to the devices.

- The fitting and handling of these devices must be carried out by **authorised personnel**.
- The wiring must run at least 40cm away from any other wiring.
- Before connecting the device to the mains, check the connections between the door panel, power supply unit, distributors, camera interface, GSM interface, monitors and telephones.
- Use the Golmar RAP-2150 cable (2x1mm²).
- Always follow the instructions contained in this manual.

SAFETY PRECAUTIONS

- Always disconnect the power supply before installing or making modifications to the devices.
- The fitting and handling of these devices must be carried out by authorised personnel.
- The wiring must run at least 40 cm away from any other wiring.
- On the power supply unit:
 - ${\scriptstyle \textcircled{C}}$ Do not overtighten the screws on the connector.
 - © Install the power supply unit in a dry protected location free from the risk of dripping or splashing water.
 - CAvoid locations that are humid, dusty or near heat sources.
 - ${\ensuremath{\mathfrak{C}}}$ Ensure that the air vents are free from obstruction so that air can circulate freely.
 - ${\mathfrak C}$ To avoid damage, the power supply unit must be firmly secured in place.
- ${f c}$ To prevent electric shock, do not remove the cover or handle the wiring connected to the terminals.

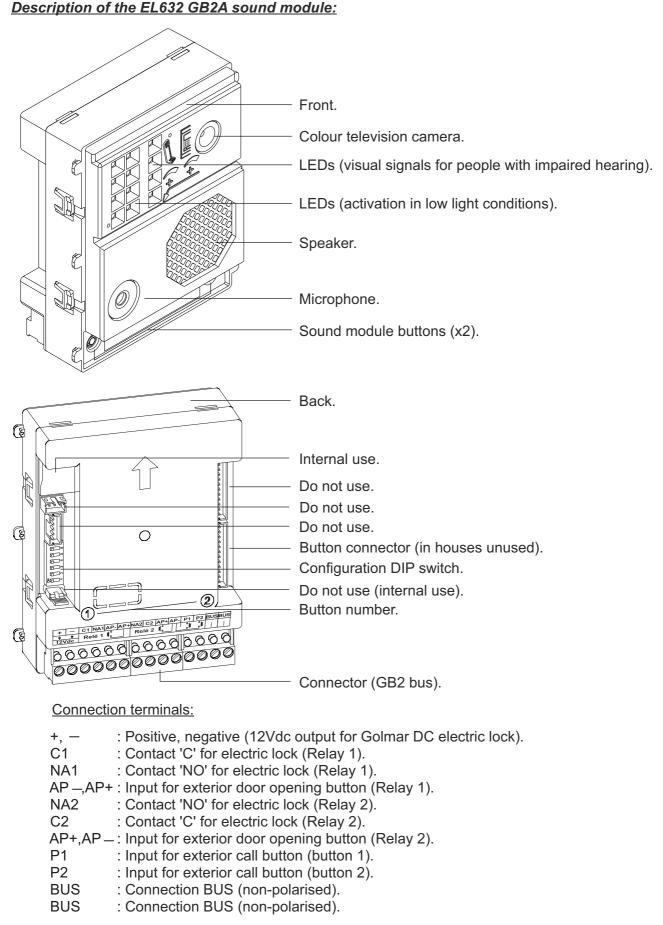
CHARACTERISTICS

- Video door entry system with simplified wiring (non-polarised 2-wire bus).
- Up to 4 access panels (DP-GB2A distributor required for more than one access panel) per installation.
- Up to 2 apartments (N5110 Vesta7 "1-apartment" kit and N5220 Vesta7 "2-apartments" kit) per installation.
- Maximum 18 Vesta7 monitors per installation.
- Maximum 16 Vesta7 monitors in one apartment.
- Maximum 4 Vesta7 monitors in parallel (without distributors) per installation.
- Call confirmation tone.
- -Visual signals on the door panel for people with impaired hearing (indicating call process, communication, door open and channel busy).
- Audible signals on the door panel for people with impaired vision (indicating call in progress, missed call, door open, call finished and engaged).
- Door opening timeable at 1 or 5 seconds.
- 2 outputs for independently activated lock releases.
- Relay 1 output to activate the DC or AC lock releases actuated by relay.
- Relay 2 output to activate the DC or AC lock releases actuated by relay.
- Input for exterior door opening button (Relay 1 output).
- Input for exterior door opening button (Relay 2 output).
- Maximum distance between the power supply and the furthest door panel: 80m with a cross-section of 1mm².
- Maximum distance between the power supply and the last distributor: 80m with a cross-section of 1mm².
- Maximum distance between distributor and monitor: 40m with a cross-section of 1mm².

SYSTEM OPERATION

- To make a call, the visitor must press the button of the apartment; an audible sound indicates that the call is being made and LED a will turn on. If vocal synthesis is enabled, a 'Call is in progress' message appears indicating that a call is being made. At this moment, the apartment's monitors receive the call. If another apartment is called by mistake, press the button for the correct apartment and the first call will be cancelled.
- In systems with several access doors, the other door panel(s) will be automatically disconnected. If another visitor tries to call, a number of telephone tones will be heard to indicate that the system is busy and LED will illuminate. If vocal synthesis is activated, the message 'System is busy, try later' will be indicated on the door panel.
- The call lasts for 40 seconds. The image appears on the monitor (with code 0 'apartment 1' or code 16 if the call is in 'apartment 2') when receiving the call without the visitor knowing.
- If the call is not answered within 40 seconds, LED 👵 will turn off and the channel will be freed.
- Communication will last for one and a half minutes or until button *s* is pressed again. When communication has finished, LEDs and will turn off and the channel will be freed. If vocal synthesis is activated, a 'Communication is finished' message will indicate that the call is over.
- -To open door 1 or 2, press the corresponding button C---- / <pre
- For a description of the functioning and setup of the monitor, see the monitor's user manual.

DESCRIPTION OF THE EL632 GB2A SOUND MODULE



Note: See wiring diagrams for connections (p.12-19).

DESCRIPTION OF THE NEXA MODULAR DOOR PANEL

Description of the door panel:

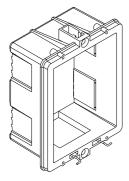
Door panel component assembly drawing.

Embedding box

Frame module

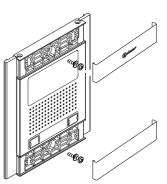
Sound module

Aluminium panel







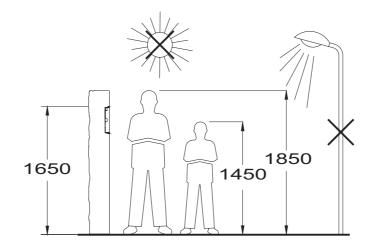




Sound module EL632 GB2A, video door entry system with colour television camera

INSTALLATION OF THE DOOR PANEL

Positioning the embedding box:

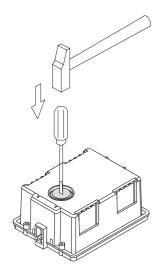


Make a hole in the wall to position the top of the door panel at a height of 1.65m. Hole dimensions:

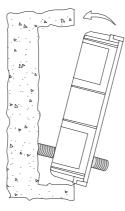
NCEV-90CS embedding box: 99(W) x 132.5(H) x 56.5(D) mm.

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

Preparing the cable entry:

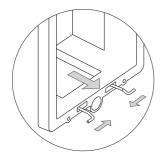


Break the flange to allow <u>entry of cables through</u> <u>the bottom part of the embedding box.</u>



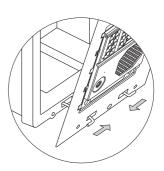
Pass the cable through the hole made in the embedding box. Embed the box and ensure that it is level and flush. Once embedded, remove the protective stickers from the screw holes.

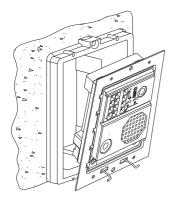
Fastening the frame to the embedding box:



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

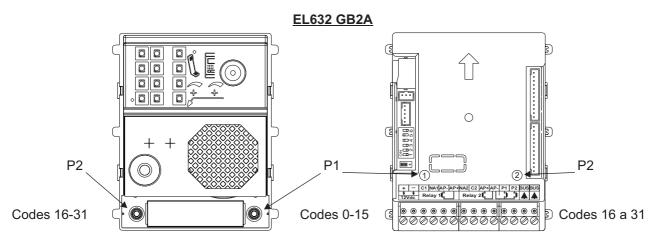
To fasten the frame to the embedding box, insert the spring hinge into the housings provided for this purpose in the frame, as shown in the drawing.





The frame can now be tilted horizontally to enable sound module connection and setting.

Codes assigned to the call buttons of the sound module:



The sound module's P1 and P2 buttons are assigned with factory codes.

- Apartment 1, button 'P1': Assigned with codes 0-15.

Monitors in this apartment must be set with codes in order of allocation of 0-15.

When button 'P1' on the door panel is pressed, all of the monitors in apartment 1 will receive the call and only the monitor assigned with code 0 will show the door panel image. If the call is answered from any other monitor in the apartment, the image on the monitor assigned with code 0 will disappear and audio and video communication will be established with the door panel.

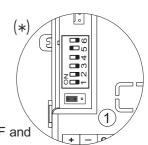
- Apartment 2, button 'P2': Assigned with codes 16-31 (only kits with 2 buttons).

Monitors in this apartment must be set with codes in order of allocation from 16 to 31.

When button 'P2' on the door panel is pressed, all of the monitors in apartment 2 will receive the call and only the monitor assigned with code 16 will show the door panel image. If the call is answered from any other monitor in the apartment, the image on the monitor assigned with code 0 will disappear and audio and video communication will be established with the door panel.

Description of the sound module DIP switch:

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

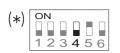


(*) ON [1 2 3 4 5 6]

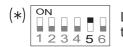
Door panel address: DIP switches: 1 and 2 OFF (address 1), 1 ON and 2 OFF (address 2), 1 OFF and 2 ON (address 3), 1 and 2 ON (address 4).



Leave in the OFF position.



Leave in the OFF position for use with door panels in houses and set to ON for use in apartment buildings.



Leave in the ON position to set the door opening time to 5 seconds. Set to OFF to set the door opening time to 1 second.



Set to ON to configure: (see p. 9-10) Vocal synthesis language, vocal synthesis volume, relay 1 and relay 2 of the lock release is NO or NC Leave in the OFF position once configuration is complete.

(*) Factory setting.

Description of the configuration jumper:

Important: Do not change the factory default position of the configuration jumper.

(*) Factory setting.

Description of the door panel illumination LEDs (for low light conditions):

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

Description of the visual signals on the door panel:

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

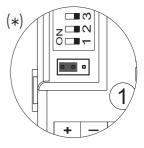
- While calling: LED of will illuminate during in call and in communication times.
- During communication: LED will illuminate during the communication process.
- During door release: LED will illuminate during door release.
- End of communication: LEDs 👼 and 】 will turn off.
- Calling at one door panel while another door panel is communicating (if there is more than one door panel): LED will illuminate for 3 seconds.
- While calling and the monitor is in 'Do not disturb' mode: LED 👼 will illuminate for 4 seconds.
- While calling (apartment with no monitor or telephone): LED 👵 will illuminate for 4 seconds.

Description of the vocal synthesis (audible signals on the door panel):

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

If vocal synthesis is enabled on the sound module (see page 7 and 9 for configuration), the following voice messages can be heard on the door panel:

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





Adjusting the door panel communication volume:

If after starting the system the door panel audio volume seems inadequate, follow these steps:

- Call an apartment.
- When the call is received in the apartment, establish communication by pressing button 🖛 on the monitor.
- Then press the button used to call the apartment for 3 seconds until a number of confirmation tones are heard and the door panel communication LED starts to blink.
- Each press on the call button will increase the door panel volume and blink speed of the LED. There are 5 volume settings and the blink speed of LED will increase for each. Slow to fast blink - low to high volume. After reaching setting 5, maximum blink speed and volume, the next setting is 1, minimum blink speed and volume (carousel mode).
- To save the volume setting keep the button pressed until a number of confirmation tones are heard and the door panel communication LED 1 turns off.

Selecting the vocal synthesis language:

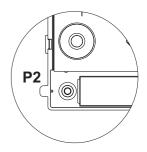
To activate the vocal synthesis of the door panel, follow these steps:

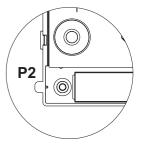
- Disconnect the door panel's power supply.
- Set DIP 6 on the sound module (see page 7) to ON.
- Reconnect the door panel's power supply.
- Press and hold down button P2 on the sound module for 6 seconds (until the confirmation tones end).
- Then continue pressing until the required language is reached.
- Finally, set DIP 6 to OFF.
- A confirmation tone will be heard.

Adjusting the vocal synthesis volume:

If after starting the system the vocal synthesis volume of the door panel seems inadequate, follow these steps:

- Disconnect the door panel's power supply.
- Set DIP 6 on the sound module (see page 7) to OFF.
- Reconnect the door panel's power supply.
- Set DIP 6 to ON.
- Press and hold down button P2 on the sound module for 6 seconds (until the vocal synthesis volume is heard and LED) on the door panel starts to blink).
- Then continue pressing to increase the vocal synthesis volume and the blink speed of LED . There are 5 volume settings and the blink speed of LED will increase for each. Slow to fast blink - low to high volume. After reaching setting 5, maximum blink speed and volume, the next setting will be 1, minimum blink speed and synthesis volume (carousel mode). Once the required volume is selected, stop pressing button P2.
- Finally, set DIP 6 to OFF.
 A confirmation tone will be heard and LED on the door panel will turn off.





Configuring the contact type for Relay 1 and Relay 2 (lock release):

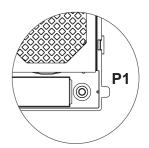
To change the contact type for lock release activation of Relay 1 and Relay 2 of the door panel, follow these steps:

- Disconnect the door panel's power supply.
- Set DIP 6 on the sound module (see page 7) to ON.
- Reconnect the door panel's power supply.
- Press and hold down button P1 on the sound module for 6 seconds (until the confirmation tones end and LED on the door panel blinks).
- After this, each press will change the type of contact, LED 📔 on the door panel will blink rapidly if the contact selected is NO (factory setting) or slowly if the contact selected is NC. Once the required option is selected, stop pressing P1.
- Finally, set DIP 6 to OFF.

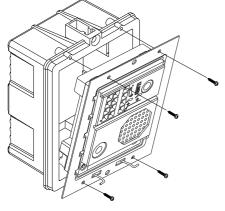
A confirmation tone will be heard and LED in on the door panel will turn off.

Important: The selected contact type will apply to both Relay 1 and Relay 2.

Closing the frame:



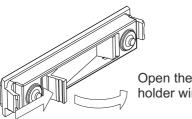
Description: Normally open: NO Normally closed: NC



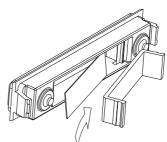
Once the wiring and configuration work is done, fix the frame to the embedding box using the screws supplied.

Important: Before closing the door panel, make a test call to any apartment to ensure that everything works correctly.

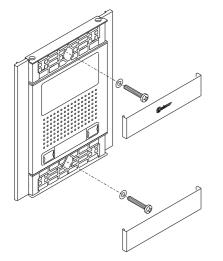
Inserting the button identification labels:



Open the label holder window.



Place the label and close.



Closing the door panel:

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

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

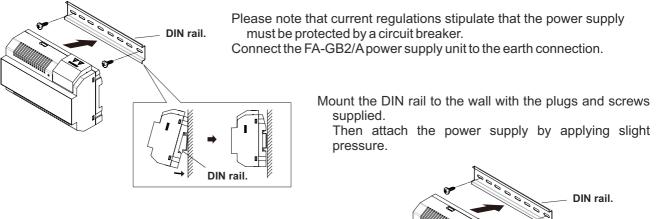
INSTALLATION OF THE POWER SUPPLY UNIT

Installing the FA-GB2/A power supply unit:

Install the power supply unit in a dry protected location free from the risk of dripping or splashing water. To prevent electric shock, do not remove the protective cover of the primary or handle the wiring. The fitting and handling of this device must be carried out by **authorised personnel** in the absence of

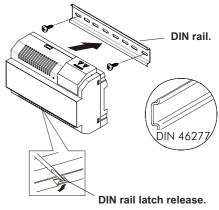
electrical current.

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



The power supply can be installed on a DIN 46277 rail. To remove the power supply unit from the DIN rail, use a flat screwdriver to lever it off, as shown in the drawing.

The FA-GB2/A model requires 8 elements on the rail.



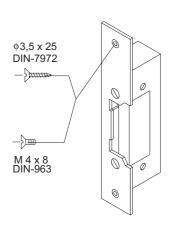
IMPORTANT: the maximum number of units that can be connected to an FA-GB2/A power supply is 18 VESTA7 GB2 monitors.

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

INSTALLATION OF THE LOCK RELEASE

Installing the lock release:

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

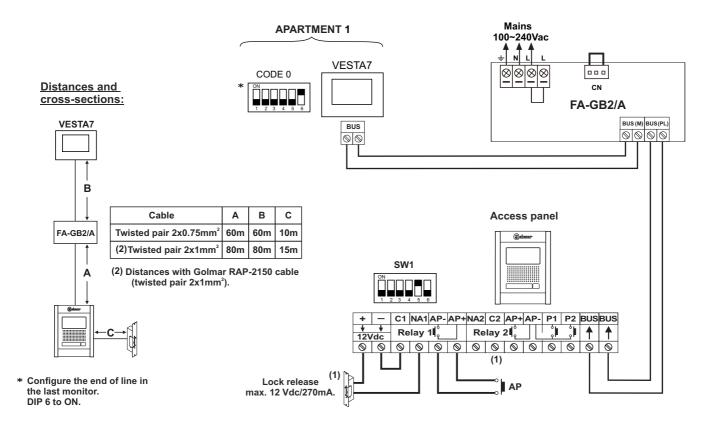


IMPORTANT:

- The lock release must be 12V DC or AC (Golmar).

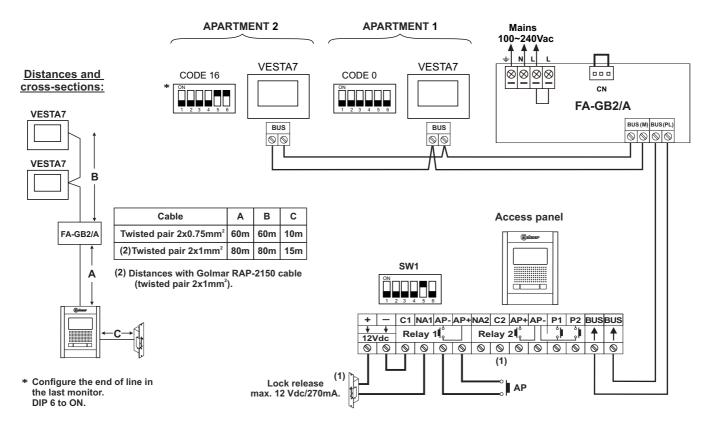
(See page 19 for AC lock releases and pages 12-19 for DC lock releases).

- The kit is supplied with two varistors. If connecting an AC lock release to one of the outputs, fit the varistor supplied directly to the lock release terminals to ensure the device functions correctly.

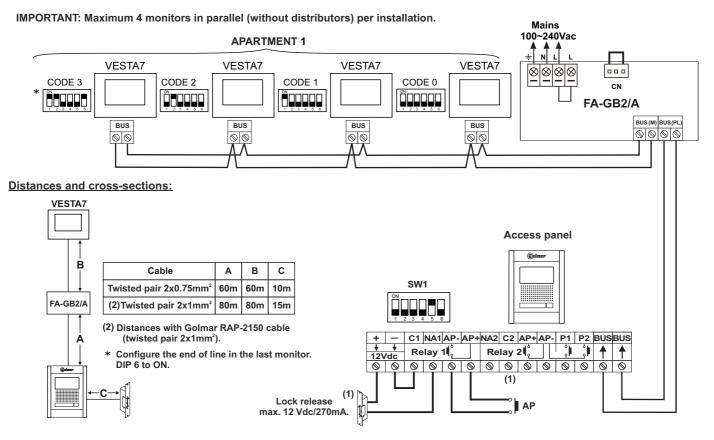


One-apartment kit (N5110 VESTA7 kit) and Golmar DC lock release.

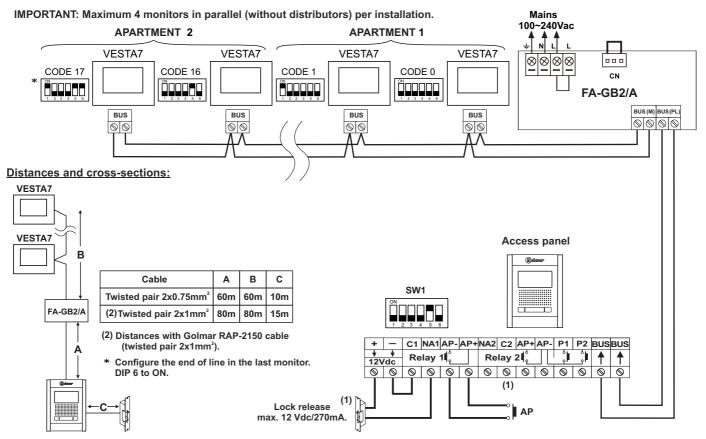
Two-apartment kit (N5220 VESTA7 kit) and Golmar DC lock release.

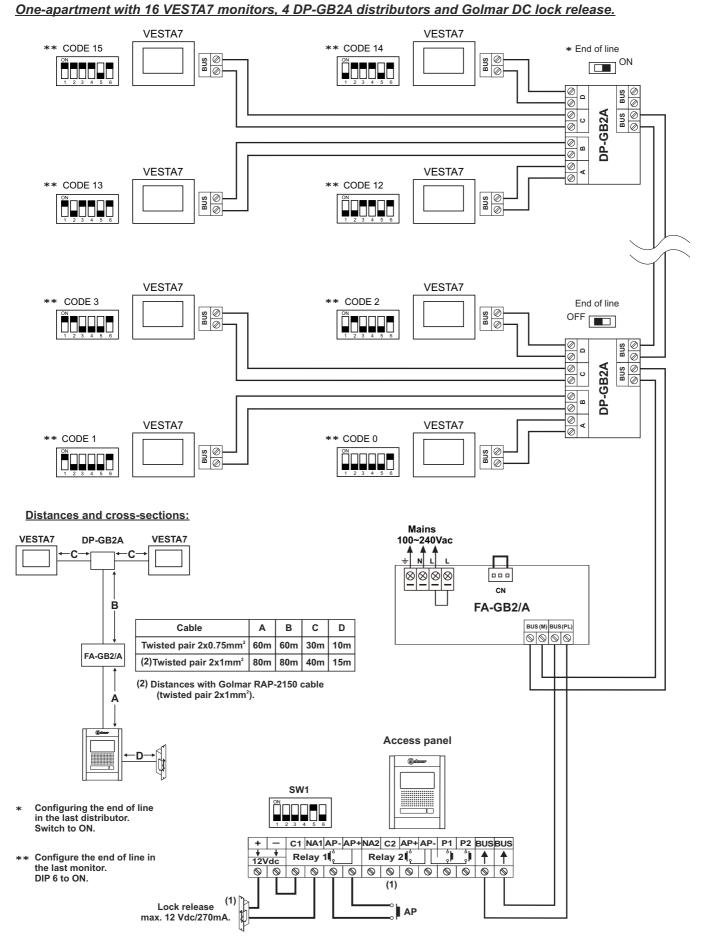


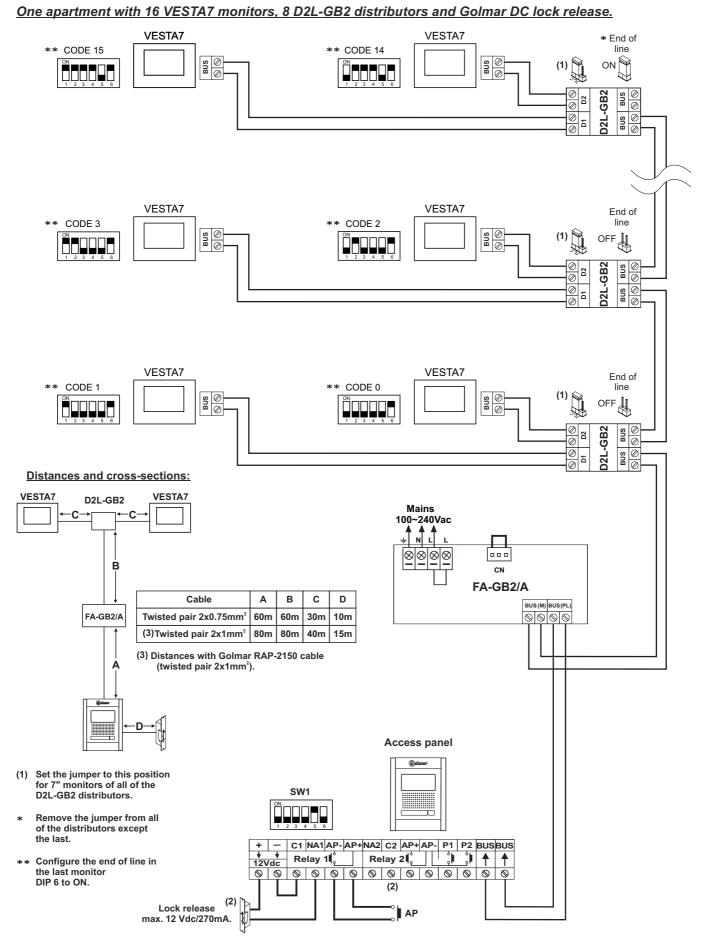
One-apartment kit (N5110 VESTA7 kit) with monitors in parallel (In-Out) and Golmar DC lock release.

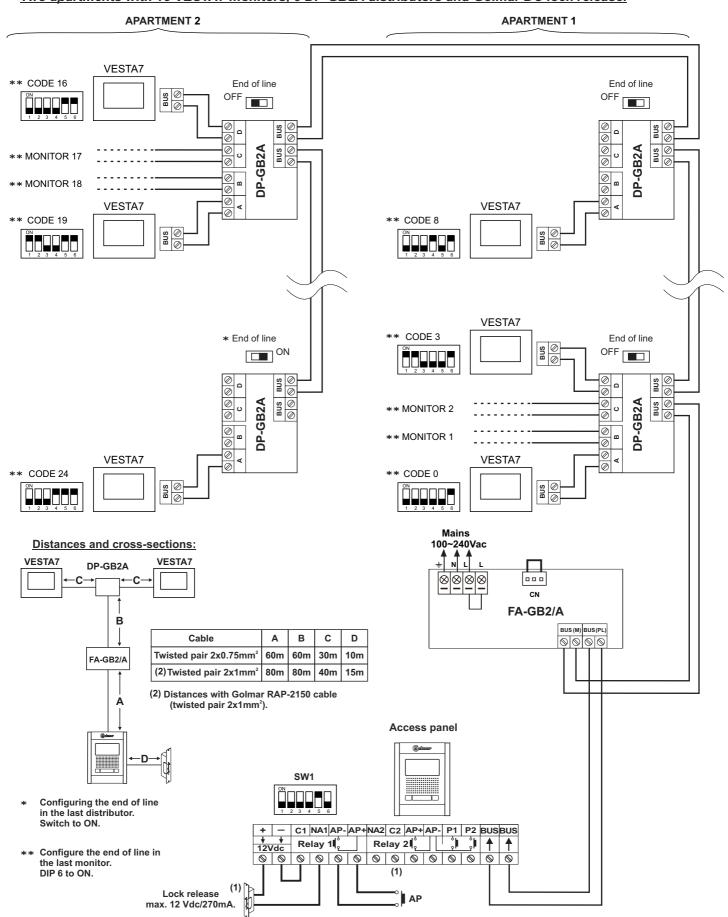


Two-apartment kit (N5220 VESTA7 kit) with monitors in parallel (In-Out) and Golmar DC lock release.

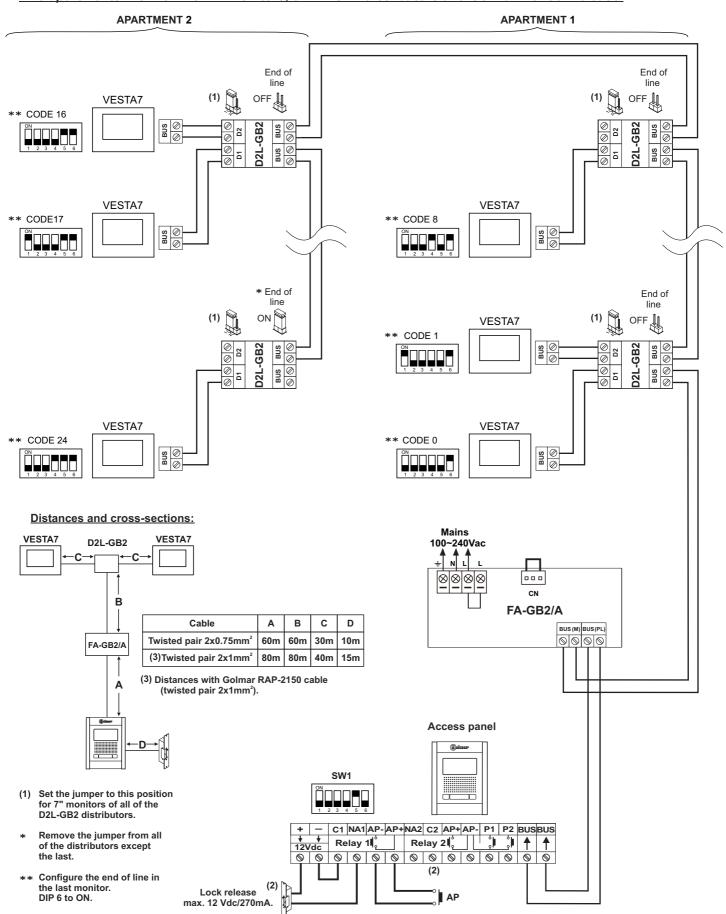




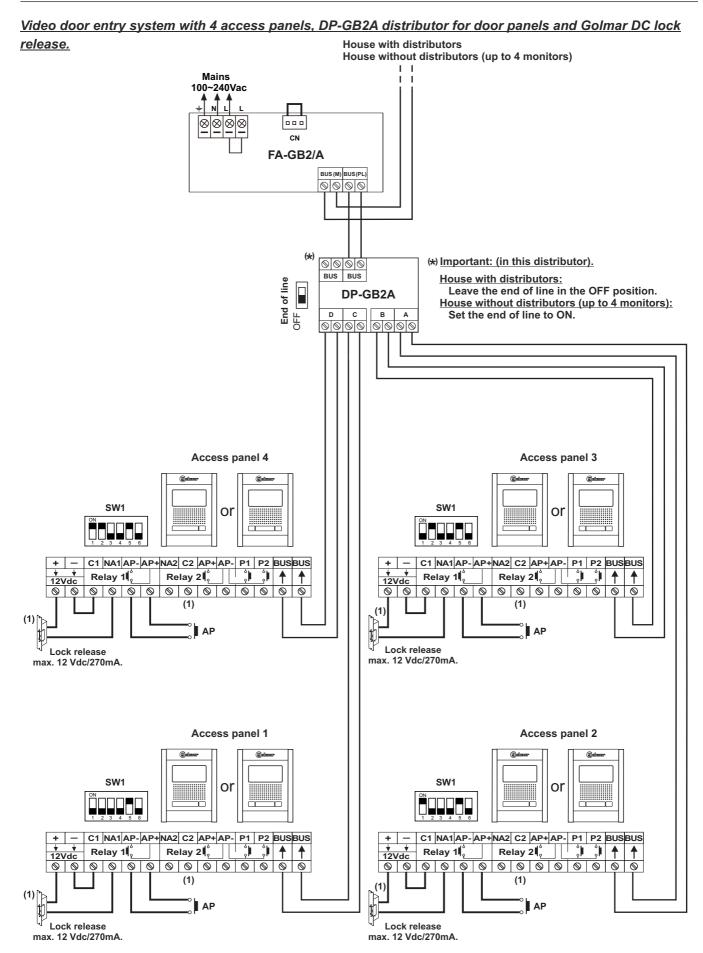




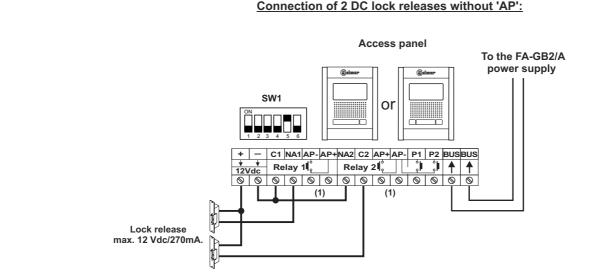
Two apartments with 18 VESTA7 monitors, 5 DP-GB2A distributors and Golmar DC lock release.



Two apartments with 18 VESTA7 monitors, 9 D2L-GB2 distributors and Golmar DC lock release.

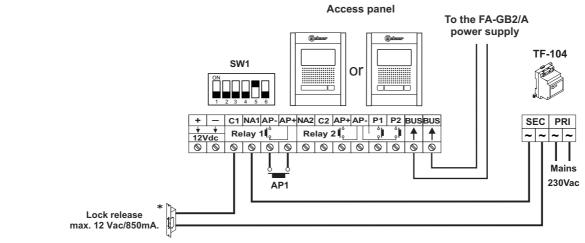


Connection of Golmar DC and AC lock releases.



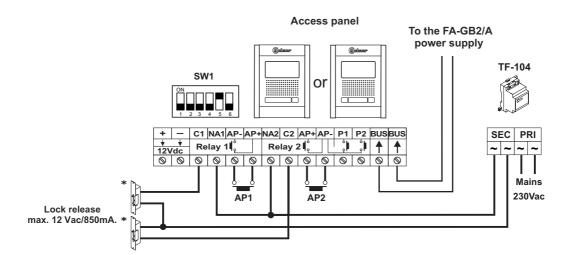
(1) Important: With 2 DC lock releases, it is not possible to use the "AP" door release buttons.

Connection of 1 AC lock release with 'AP':



* Important: Fit the varistor supplied with the kit directly to the terminals of the lock release.

Connection of 2 AC lock release with 'AP':



* Important: Fit the varistors supplied with the kit directly to the terminals of each or the 2 lock releases.



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