INDEX

GENERAL DIRECTIONS FOR INSTALLATION

This manual lists the wiring diagrams of the most common installations. The following general directions are valid for each type of installation.

1) Install the conductors in appropriate tubing, which should be different from the tubing used for the 230V and 380V power supply. It is advisable to use conductors which are differently coloured in order to facilitate the connection.
2) The equipment must be installed in a dry place far from any source of heat.
3) Make the system connections and check the mains voltage. Check that interphone handsets are on-hook, before proceeding with the general test and inspection. Adjust the volume and the connection time whenever needed.
4) To operate electric locks at the same time, in connections with very long lines, use a repeater relay type 170/001. This relay can be used for activating equipment operating at 125-230V, e.g. for switching on stair lights.

N.B. We recommend that the instructions of every diagram are carefully followed and that the sections of the conductors compared to the distances are respected.

WARNINGS FOR INSTALLERS

- Carefully read the instructions on this manual: they give important information on the safety, use and maintenance of the installation.
- After removing the packing, check that the device is complete and undamaged. Packing components (plastic bags, expanded polystyrene etc.) are dangerous for children. Installation must be carried out according to national safety regulations.
- Upstream of the audio or video door entry system, it is necessary to install a suitable bipolar switch with distance between contacts of at least 3mm.
- Before connecting the device, ensure that the data on the label correspond to those of the network.
- Before cleaning or maintenance, disconnect the device.
- In the event of a fault and/or poor operation of the device, switch off the mains power with the bipolar switch on the audio or video door entry system and do not tamper with the device. For repairs apply only to the technical assistance centre authorized by the manufacturer. Safety may be compromised if these instructions are disregarded.
- Do not obstruct openings of ventilation/heat exit slits.
- Installers must ensure that manuals with the above instructions are left on connected units after installation, for users' information.
- The unit must be used only for the purpose for which it was expressly designed, i.e. for audio door entry systems. Any other use is deemed improper and hence dangerous. The manufacturer can accept no responsibility for any damage deriving from improper, incorrect or unreasonable use.

CE

Product is according to CE mark and directives:
- EC Directives 89/336/EEC and following norms.
- EC Directives 73/23/EEC and following norms.

Power supplies constitute SELV sources in compliance with the requirements stipulated in Article 411.1.2.2 of CEI standard 64-8 (ed. 1998).

Conversion table for section-diameter and resistance of 100 m. standard conductors.

Section mm^2	0.12	0.25	0.35	0.50	0.75	1.00	1.50	2.50	4.00	6.00
Diameter mm.	0.40	0.58	0.68	0.80	1.00	1.15	1.40	1.80	2.30	2.80
Diameter (tenths)	4/10	6/10		8/10	10/10	12/10	14/10	18/10		
Resistance Ω 100m.	14.00	6.60	4.80	3.50	2.20	1.70	1.14	0.69	0.39	0.28

SYMBOLS


A.C. bell


Bulb


Loudspeaker


A.C. supply from mains


A.C. buzzer


Push-button


Amplified microphone


Ground


Electric lock


Switch


Receiver


Coaxial cable block

MINIMUM CONDUCTOR SECTION FOR AUDIO DOOR ENTRY SYSTEM (mm²)

Section type	Terminals	Ø up to 50 m.	Ø up to 100 m.	Ø up to 200 m.
a	0, 3, 12, 15, -, AS, S1 C1, C2, C3, P1, P2 lock, calls	0,5 mm²	0,75 mm²	1,5 mm²
b	Other	0,25 mm²	0,5 mm²	1 mm²

MINIMUM CONDUCTOR SECTION FOR STANDARD VIDEO DOOR ENTRY SYSTEM AND TWO-CHANNEL VERSION WITH COAXIAL CABLE (in mm²)

Section type	Terminals	Ø up to 50 m.	Ø up to 100 m.	Ø up to 200 m.
a	0, 3, 12, 15, -, +, AS, S1 C1, C2, C3, P1, P2, +T lock, calls	1 mm²	1,5 mm²	2,5 mm²
b	Other	0,75 mm²	1 mm²	1,5 mm²
Video	75 Ohm coaxial cable (type RG59) or RG11double insulation			

MINIMUM CONDUCTOR SECTION FOR VIDEO DOOR ENTRY SYSTEM WITHOUT COAXIAL CABLE (in mm²)

Section type	Terminals	Ø up to 50 m.	Ø up to 100 m.	Ø up to 200 m.
a	0, 15, -, +, S1, P1, P2, +T lock, calls	1 mm²	1,5 mm²	2,5 mm²
b	Other	0,75 mm²	1 mm²	1,5 mm²

MINIMUM CONDUCTOR SECTION FOR 4-WIRES KIT SYSTEM (in mm²)

Monitor terminal	up to 10 m.	up to 30 m.	up to 50 m.	up to 100 m.
11 - 12	1,5mm²	-	-	-
1 - 2	**type 63CV** / 0,5 mm²		0,75 mm²	1mm²
Video	**type 63CV** Coaxial cable 75 Ohm (type RG59)		Coaxial cable 75 Ohm (type RG59)	

CONNECTION LEGEND

———————— Connection with section type b

———————— Connection with section type a

— — — — — — — Call connections with section type a

INTERPHONES

PETRARCA SERIES

The PETRARCA series wall-mounted interphones made of ABS are equipped with a loudspeaker for electronic calls and with screws for mounting on a rectangular vertical box or with wall plugs. Desk-top installation requires the use of conversion kits. Although supplied with a single push-button, the interphones are designed to accommodate a further 8 push-buttons or accessories. Dimensions: 89x226x65 mm.

type 6200

Interphone for audio door entry system, video door entry system and intercommunicating system for use with power supplies type 931, 931A, 931A+935A, 931+935A, 936, 938A, 931/0CT, 931/0CT+935A, (type 6680) or with series 152 Sound System audio switchboards.

type 6201

Interphone for audio door entry system with 1+n wire and video door entry system without coaxial cable for use with power supplies type 6837, 837/0CT, 6568 and series 142 and 162 Sound System audio switchboards.

Installation instructions

Fig. 1-

To separate the base of the interphone from the cover, insert a screwdriver in the slit in the middle and push inwards until the unit clicks open.

Fig. 2-

Fix the interphone to the rectangular, vertical flush-mounted back-box with the 2 screws supplied, or fix the screws with the ø5 expansion plugs. Connect the wires to the terminals. You are advised to fix the top of the interphone at a height of about 1.5 m above the ground.

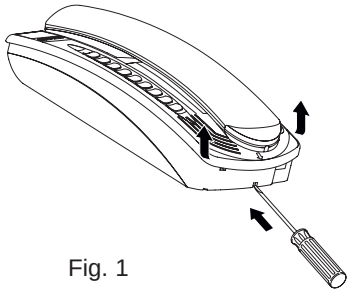


Fig. 1

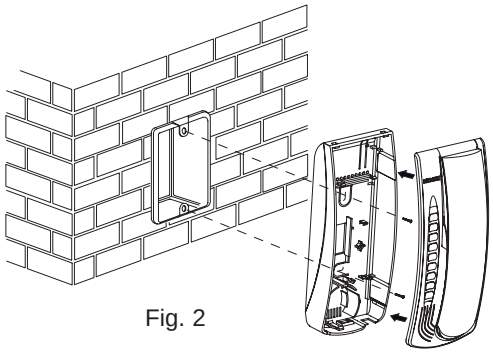


Fig. 2

PETRARCA SERIES ACCESSORIES

type 6140

Conversion kit for converting interphones into desk-top version, with 2 metres of 6-conductor cable and equipped with fixed terminal block.

type 6A40

Conversion kit for converting interphones into desk-top version, with 2 metres of 16-conductor cable and equipped with socket with removable plug.

type 6154

Signalling module with red LED and eight transparent keys. For use with Petrarca interphones for auxiliary services. Supply voltage 15V DC or AC.

type 6V54

Signalling module with green LED and eight transparent keys. For use with Petrarca interphones for auxiliary services. Supply voltage 15V DC or AC.

type 6152

Pack of 8 additional buttons (normally open) for fitting on Petrarca series interphones type 6200 and type 6201.

type 6153

4-position switching module for fitting in PETRARCA interphones. The module is used for setting the call volume to one of three levels and disabling it. The latter state is indicated by means of a red LED. The switching module must be fitted
in the appropriate seat after removing the bezel. A green LED indicates that the door is open when connected to a suitable lock or door.

type 6155

Conversation privacy card for fitting in interphones type 6200 and operating with power supplies type 931, 931A, 931/0CT, 837/0CT and 6680. Do not use with intercommunicating systems.

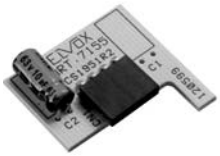
type 6157

Additional push-button (normally closed) for controlling automated gate systems, which can be fitted in the interphone.

type 6150

Ding-Dong ringtone card for fitting in interphones to change the call ringtone.
The card can be used in all audio and video systems with Sound System call and AC call, but not for intercommunicating systems with audio door entry system. Supply voltage 13.5-18V D.C.

type 7155



Conversation privacy card for fitting in interphones type 6201 for use with power supply type 837/0CT, 6837 and 6568.

8870 SERIES

Series 8870 wall-mounted interphones in ABS, equipped with two push-buttons, loudspeaker for electronic calls and screws for mounting on a rectangular vertical box or with wall plugs. Dimensions: 75x220x60 mm.

type 8875

Interphone without conversation privacy for audio and video door entry systems, for use with power supplies type 931, 931A, 936, 931/0CT, 833 and 6680.

type 8872

Interphone without conversation privacy for audio and video door entry systems, for use with power supplies type 931, 931A, 936, 931/0CT, 833 and 6680. Equipped with push-button for enabling conversation on interphone.

type 8878

Interphone with conversation privacy for audio door entry systems, for use with power supplies type 931, 931A and 931/0CT.

type 8877

Interphone without conversation privacy for audio door entry system with 1+n wire, for use with power supplies type 6837, 837/0CT and 6568.

type 8873

Interphone with conversation privacy for audio door entry system with 1+n wire, for use with power supplies type 6837 and 837/0CT.

type 887E

Interphone for switchboard 153A without conversation privacy with loudspeaker for Sound-System call.

Installation instructions

Fig. 1 -
To separate the base of the interphone from the cover, insert a screwdriver in the slit in the middle and turn it until the unit clicks open.

Fig. 2 -
Fix the top screw (A) in the flush-mounted box (or wall plug), leaving the screw head to protrude by 2 mm.
Hook the interphone onto the top screw using the appropriate hole in the back, by placing it close to the wall and then pulling downwards
Complete mounting by screwing the bottom screw (B) into the appropriate hole.

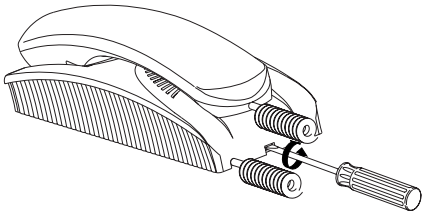


Fig. 1

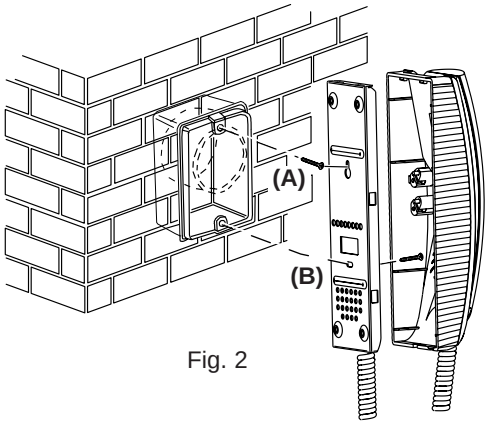


Fig. 2

MONITORS

PETRARCA SERIES

Petrarca series monitors may be used in conjunction with interphones type 6200-6201 for "Sound System" video door entry systems. These monitors may be also used with A.C. call, DIGI BUS and "w/o coax cable" systems. They may also be used separately with the correct accessories.
Dimensions: 135x226x45 mm.

TYPE 6000

Slim-line surface wall-mounted monitor with 4” B/W flat screen
Minimum supply voltage: 15 V d.c. (maximum 20 V d.c.)
Video signal standard: CCIR with 625 lines and 50 frames
(EIA standard available on request)
Passband: 4 MHz
Video signal input voltage: 1Vpp via 75 Ohm coax cable or twisted pair.
Supplied with interconnection circuit.

TYPE 6003

Slim-line surface wall-mounted monitor with 4” LCD colour screen
Minimum supply voltage: 15 V d.c. (maximum 20 V d.c.)
Video signal standard: PAL
Video signal input voltage: 1 Vpp via 75 Ohm coax cable.
Supplied with interconnection circuit.

ACCESSORIES

TYPE 6145

Wall-mounted fixing bracket for combined interphone (type 6200, type 6201) and monitor (6000-6003)

TYPE 6A47

Wall-mounted fixing bracket for individual monitor (type 6000, type 6003). The bracket is equipped with a housing for a monitor interconnection circuit and with fixing screws for mounting on a rectangular, vertical box.

TYPE 6142

Desk-top conversion kit for combined interphone (type 6200, type 6201) and monitor (type 6000, type 6003). Supplied with 2-metre, 12-conductor cable and coax. Equipped with socket and removable plug.

TYPE 6A42

Desk-top conversion kit for combined interphone (type 6200, type 6201) and monitor (type 6000, type 6003). Supplied with 2-metre, 26-conductor cable and coax. Equipped with socket and removable plug.

TYPE 6A41

Desk-top conversion kit for individual monitor (type 6000, type 6003). Supplied with 2-metre, 8-conductor cable and coax. Equipped with socket and removable plug.
Supplied with monitor interconnection circuit.

TYPE 6160

Power supply for installation in desk-top kits type 6142 and 6A42. This power supply is fitted in installations with several monitors connected in parallel or in systems with extremely long cable runs prone to excessive voltage drops. The power supply is equipped with a white power supply cable. Power supply: 230 Vac.

Installation instructions

The following instructions explain how to install the monitor with the interphone.

Fig.1 -

Fix the bracket type 6145 to the wall at a height of approximately 1.4 m above the ground.

Fig. 2 - 3

Open the interphone, and separate the cover from the base by inserting a screwdriver into the slit in the bottom until the unit
clicks open.

Fig.4 -

Inside the interphone, fit the connection card supplied with monitor type 6000 or type 6003 and connect the
card to the interphone by means of the connectors CN2 (card) and CN1 (interphone 6200) or CN4 (interphone 6201).

Fig.5 -

Fit the base of the interphone into the appropriate seats to the left of the bracket. Slide the base of the interphone downwards
until it is completely fastened. Connect the wires to the terminals of the interphone and monitor card.

Fig.6 -

Connect the wiring of the monitor to the connection card by means of connector CN1 on the card.
Fit the monitor in the appropriate seats in the bracket. Slide the base of the monitor downwards
until it is completely fastened.

Fig.7 -

Close the interphone by hooking the cover onto the base and pressing the bottom of the cover until
it clicks shut. To remove the interphone or monitor from the bracket, press the safety tab with a screwdriver in the direction of the arrows.

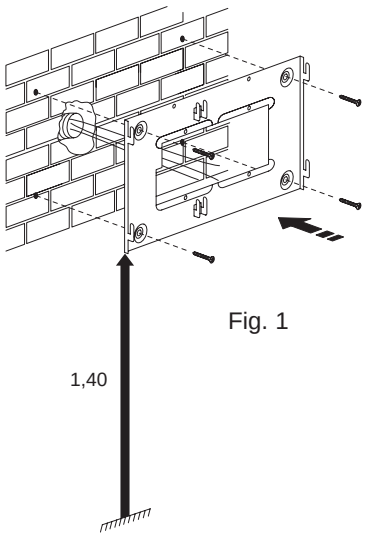


Fig. 1

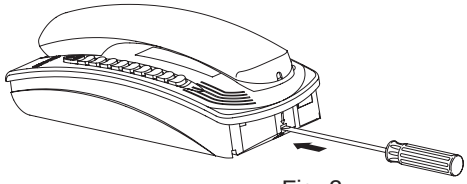


Fig. 2

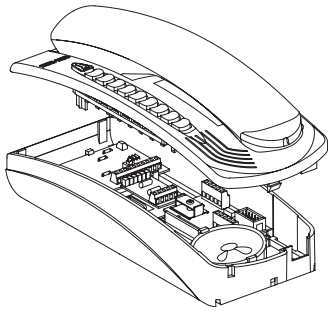


Fig. 3

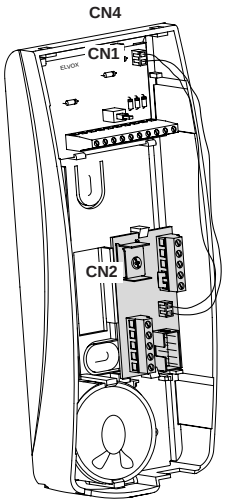


Fig. 4

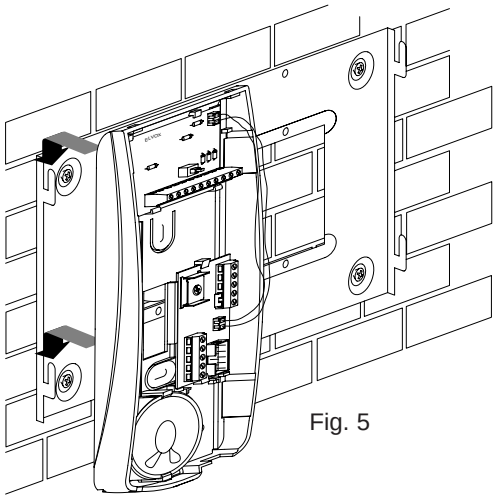


Fig. 5

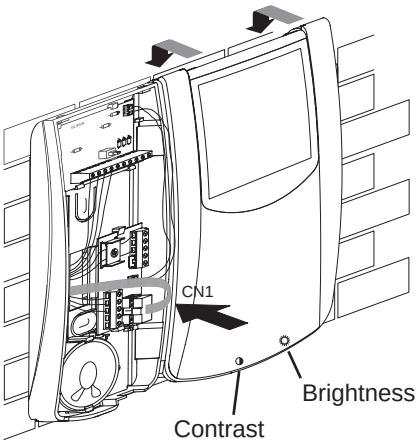


Fig. 6

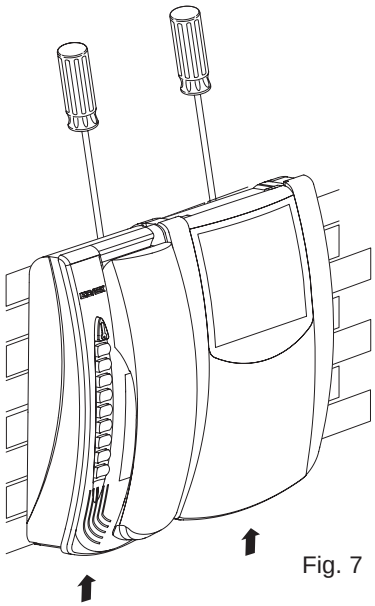


Fig. 7

Assembly of desk-top conversion kit for monitor and interphones:

Fig. 8 -
Assemble the base of the interphone as illustrated in figures 2-3-4-5. Connect the cable on the base to the terminal blocks. Then fit the monitor as illustrated in figures 6-7.

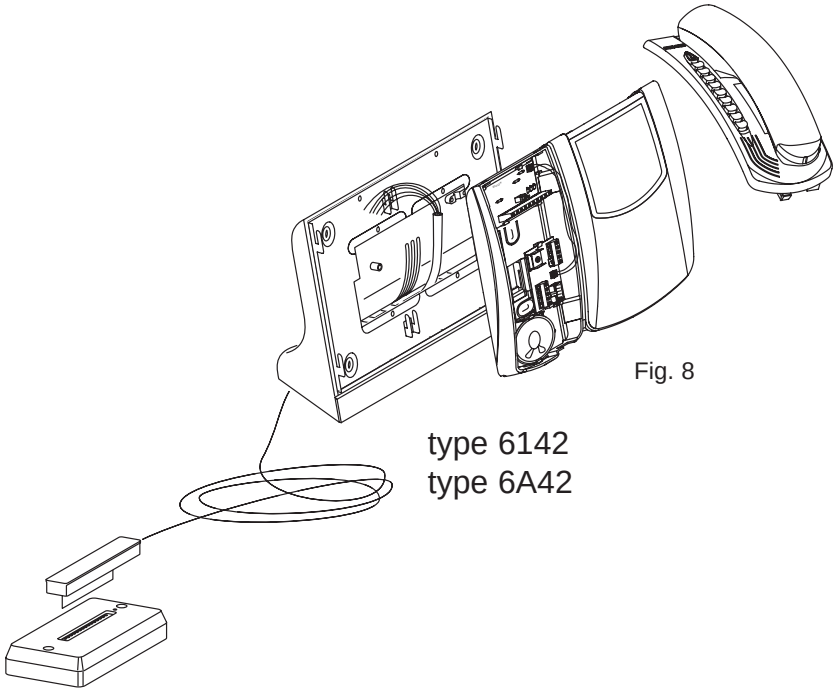
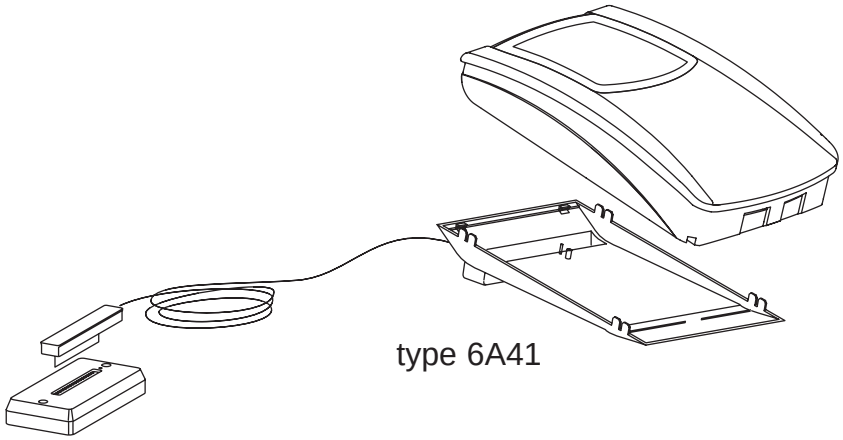


Fig. 8

Assembly of desk-top conversion kit for monitors only:

Fig. 9 -
Fix the interconnection card supplied with the monitor onto the base. Connect the cable of the base to the interconnection card.
Fasten the monitor to the base with the appropriate tabs.



FLUSH WALL-MOUNTING OPEN VOICE 4" MONITOR

type 5651
Dimensions:
190x260x10

Flat screen 4" monitor, electronic call on loudspeaker, two-channel open voice conversation; lock push-button, stair light button, push-button for system self-start or additional camera, push-button for audio connection with door entry panel, additional button; external brightness and contrast control; internal and external volume and call intensity. Usable with flush-mounted wall box type 5509. The monitor is equipped with conversation privacy towards other users.

type 5653
Dimensions:
190x260x10

Monitor same as type 5651 but with 4" colour screen.

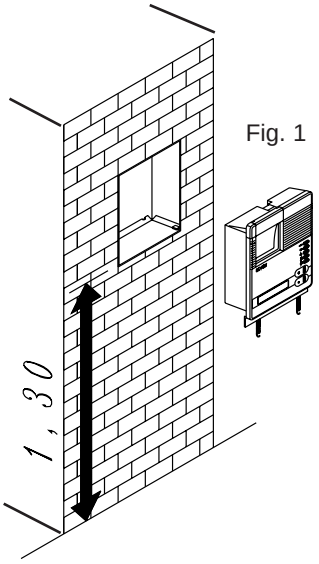


Fig. 1

Installation instructions:

Fig.1 Install the flush-mounted box with the bottom edge at a height of 1.3 m above the ground.
Fig. 2-3-4 Install the monitor by inserting the bottom tab into the flush-mounted box and fix the 2 springs supplied into their respective locations.
Fig. 5 Fix the top of the monitor with the screw and lastly, fit the screw cover into its location

External controls (Fig.6)

A) BUTTON“ ”
Electric lock control

B) BUTTON “ ”
2nd push-button for auxiliary services, can be used as "C" key

C) BUTTON“ ”
Button for auxiliary services (stair light, etc.). If connected to the "VIDEOMOVING" system of the video entrance panel, this push-button controls the vertical camera angle in such a way as to frame people of different heights from close up.

D) BUTTON“ ”
System self-start from inside and switch-on of additional cameras (if fitted).

E) BUTTON“ ”
Control for activating audio connection with entrance panel (keep pressed down to talk).

F) BRIGHTNESS CONTROL KNOB “ ”
Control for adjusting the brightness of the screen.

G) CONTRAST OR COLOUR CONTROL KNOB “ ”
Control for adjusting the contrast of the screen for monitor 5651, or colour for monitor 5653.

Internal controls (Fig.7)
P1) INTERNAL VOLUME
P2) EXTERNAL VOLUME
P3) CALL INTENSITY CONTROL

For monitor controls, see next page.

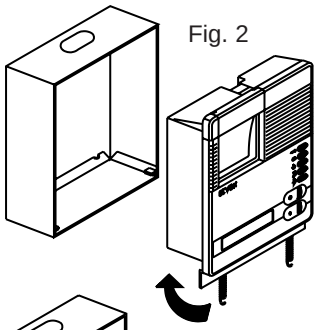


Fig. 2

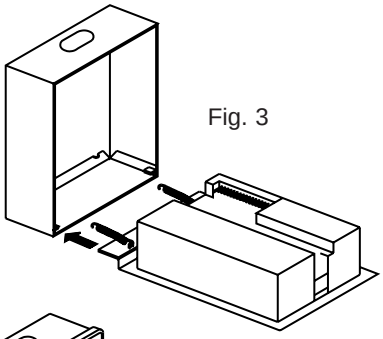


Fig. 3

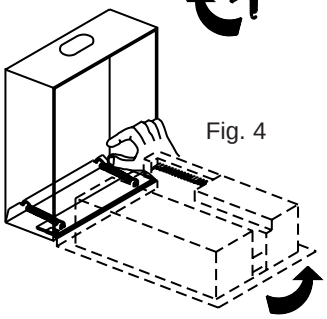


Fig. 4

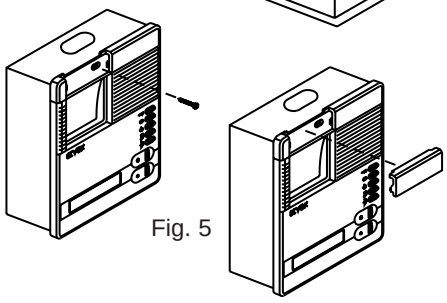


Fig. 5

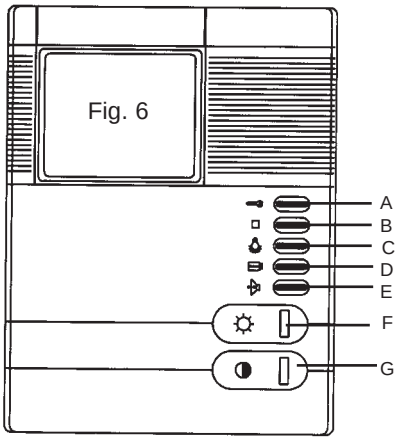


Fig. 6

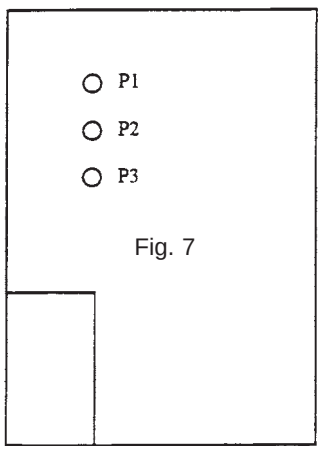
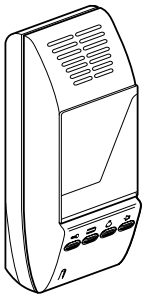


Fig. 7

INTERPHONE TYPE 7400

type 7400
DIMENSIONS:
90x220x72



Wall-mounting interphone without handset, colour white, with 4 push-buttons (lock, self-start, additional service and audio line enable). The unit is supplied with loud-speaker for "SOUND SYSTEM" calls, call intensity control, call disable with LED, and internal and external volume control. Must be used exclusively in two-channel open voice systems with power supplies type 6681 and 6450.

INSTALLATION OF INTERPHONE TYPE 7400

Fig. 1 - Separate the base of the interphone from the cover by inserting a wide-blade screw-driver in slots till opening (see drawing).

Fig. 2 - Fit interphone on flush-mounted vertical rectangular back box by means of the 2 screws provided, or fix the screws with expansion plugs (diameter 5) and make the various terminal connections. Fit the interphone upper part at about 1.5m of height from floor level.

Fig. 3 Close the interphone by positioning the cover on top (Fig. 3A) and pressing the base (Fig. 3B) until the two parts snap together.

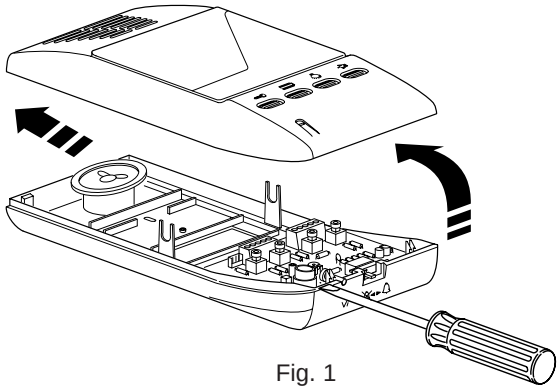


Fig. 1

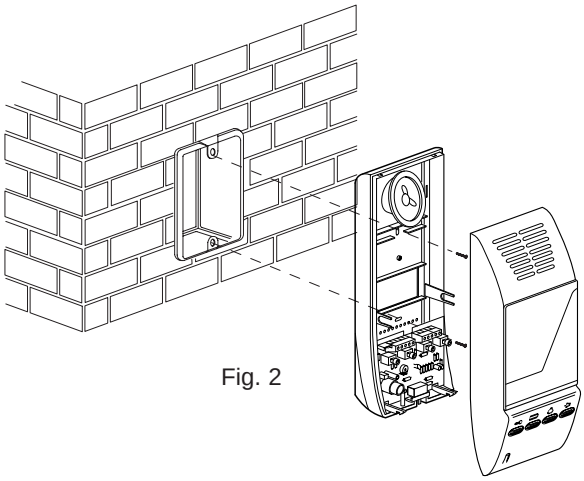


Fig. 2

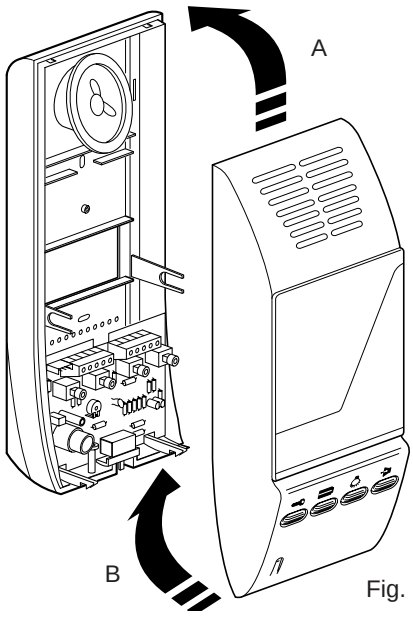
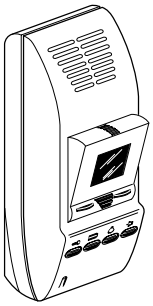


Fig. 5

MONITOR SERIES 7500

type 7500
DIMENSIONS:
90x220x60



Wall-mounting monitor without handset with 2.5" angle-adjustable colour screen, with 4 buttons for lock, self-start, additional service and audio line enable. The unit is supplied with loudspeaker for "SOUND SYSTEM" calls, call intensity control, call disable with indicator LED, and internal and external volume control.
The monitor must be used exclusively with two-channel open voice systems with power supply type 6681.
The monitor must be installed in a 3-module, rectangular, vertical box.

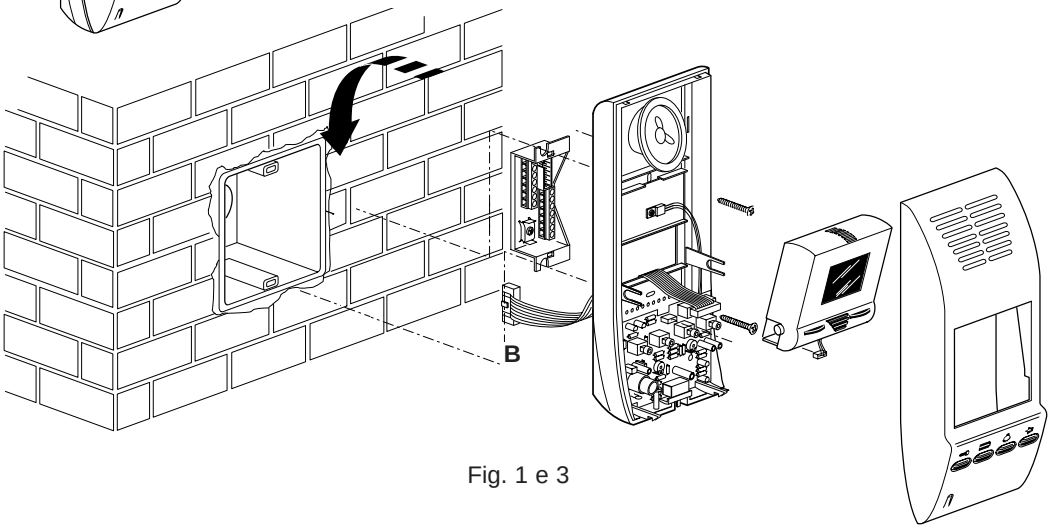


Fig. 1 e 3

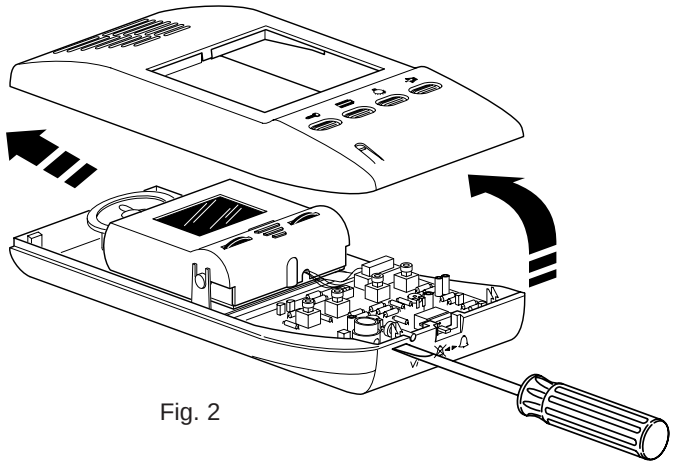


Fig. 2

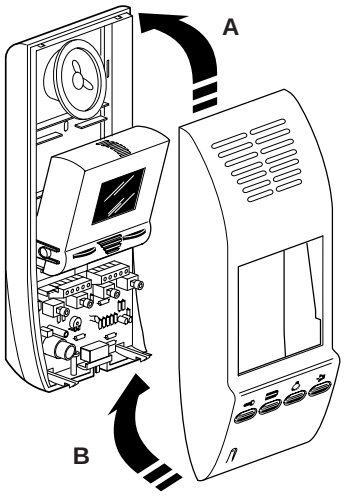


Fig. 4

MOUNTING OF MONITOR WITH INTERPHONE TYPE 7500

Fig. 1 - Flush the 3 module type back box vertically in the wall at approx. 1,40 m height from the floor.

Fig. 2 - Open the monitor splitting the housing upper part from the lower one by inserting a screwdriver (see diagram) in the interphone slots till opening.

Fig. 3 - Insert the circuit with terminals into the flush-mount back box and carry out connections.
Then insert the monitor connector into proper base placed on the support terminal block.
Fix the monitor bottom and the circuit with terminal block to back box by means of screws.

Fig. 4 - Insert the monitor housing by hooking the upper part to the lower one and by pressing the latter till the closing snap.

Fig. 5- Adjust the screen angle by means of adjuster A.

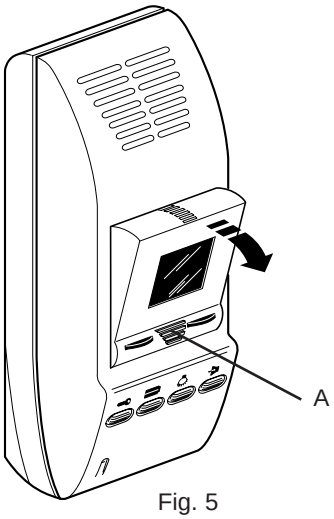


Fig. 5

GIOTTO 6300 SERIES MONITORS

GENERAL FEATURES

The GIOTTO 6300 series surface wall-mounted monitor in ABS is supplied with a fixing bracket with terminal block, loudspeaker for electronic calls and 3 push-buttons (door release, self-start and stair light). Desk-top installation requires the use of conversion kits. Dimensions: 204x220x71 mm

type 6300 Monitor with 4" black/white, low-profile screen for surface wall-mounted, equipped with: internal ringtone, call volume control to one of three levels and call disable with red indicator LED. The green LED indicates that the door is open when connected to a suitable lock or door. The conversation privacy function can be activated by means of an appropriate microswitch. Operation of the video signal with coaxial or twisted pair cable can be selected by means of a microswitch. Must be used with power supplies type 6680 or type 6580.

type 6301 Surface wall-mounted monitor with 4" black/white, low-profile screen for connection with coaxial cable; equipped with call volume control to one of three levels and call disable with red indicator LED. The green LED indicates that the door is open when connected to a suitable lock or door. Must be used with power supply type 6680.

type 6303 Surface wall-mounted monitor with 4", low-profile, colour screen for connection with coaxial cable; equipped with call volume control to one of three levels and call disable with red indicator LED. A green LED indicates that the door is open when connected to a suitable lock or door. The conversation privacy function can be activated by means of an appropriate microswitch. Must be used with power supplies type 6680 or type 6580.

type 6306 Surface wall-mounted monitor with 4" low-profile, black/white screen without coaxial cable, equipped with call volume control to one of four levels. The green LED indicates that the door is open when connected to a suitable lock or door. Must be used with power supply type 6568

type 6610 Desk-top conversion kit for monitors type 6300, 6301, 6303 and 6306. The kit comes supplied with 2 metres of 12-conductor cable + 1 coaxial with socket and removable plug.

type 661T Desk-top conversion kit for monitors type 6300, 6301, 6303 and 6306. The kit consists of a built-in power supply and is for use with several monitors in parallel or very long connection lines with excessive voltage drops. The kit is supplied with 2 metres of 12-conductor cable + 1 coaxial with socket and removable plug. Power supply 230 VAC.

GIOTTO 6500 SERIES MONITORS

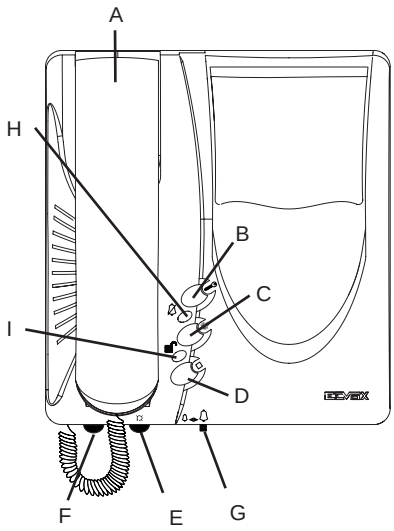
The GIOTTO 6500 series semi-flush wall-mounted monitor in ABS is supplied with a fixing bracket with terminal block, loudspeaker for electronic call, three push-buttons (door release, self-start and stair light). The monitor can be installed with the standard 3-module flush wall-mounted box (not supplied). Dimensions: 204x220x90 mm + 50 mm (for flush-mounted).

type 6500 Semi-flush mounting monitor with 5" black/white, low-profile screen, equipped with: internal ringtone, call volume control to one of three levels and call disable with red indicator LED. A green LED indicates that the door is open when connected to a suitable lock or door. The conversation privacy function can be activated by means of an appropriate microswitch. Operation of the video signal with coaxial or twisted pair cable can be selected by means of a microswitch. Must be used with power supplies type 6680 or type 6580.

type 6501 Semi-flush wall-mounted monitor with 5" low-profile, black/white screen for connection with coaxial cable; equipped with call volume control to one of three levels and call disable with red indicator LED. The green LED indicates that the door is open when connected to a suitable lock or door. Must be used with power supply type 6680

type 6506 Semi-flush mounting monitor with 5" low-profile, black/white screen without coaxial cable, equipped with call volume control to one of four levels. The green LED indicates that the door is open when connected to a suitable lock or door. Must be used with power supply type 6568.

Control functions



A) INTERPHONE: enables communication with the speech unit.

B) push-button " ". electric lock control.

C) push-button "": push-button for auxiliary services (stair light, etc.). When connected to the VIDEOMOVING system of the video entrance panel, the push-button controls the vertical camera angle in such a way as to frame people of different heights from close up.

D) push-button " ": push-button for auxiliary services or for self-start of the system from inside and switch-on of additional cameras (if fitted).

E) BRIGHTNESS : knob for controlling the brightness of the screen.

F) CONTRAST OR COLOUR : knob for controlling contrast or colour.

G) CALL CONTROL: 4-position selector for controlling intensity of or muting the acoustic call signal.

H) CALL DISABLED INDICATOR : If the indicator (red LED) illuminates, this indicates that the call is disabled (see point "G"); only on models with this function.

I) DOOR OPEN INDICATOR : If the indicator (green LED) illuminates, this indicates that the door is open (the function is optional depending on the type of installation).

Installation instructions

Install the monitor away from sources of light and heat.

Fig. 1 - Fix the monitor mounting plate to the wall with a distance of about 1.4 m between the bottom edge and the ground.
Make the connections on the monitor terminal block.

Fig. 2 - Fit the monitor following the direction of arrows 1 and 2.

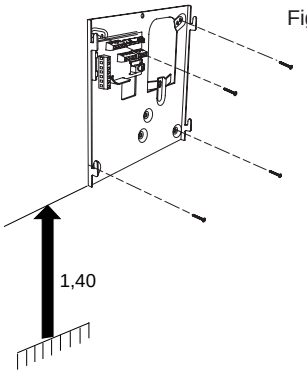


Fig. 1

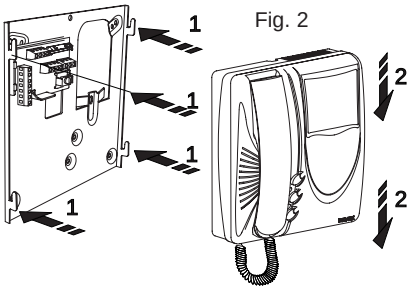
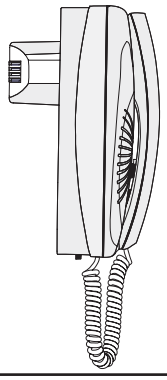
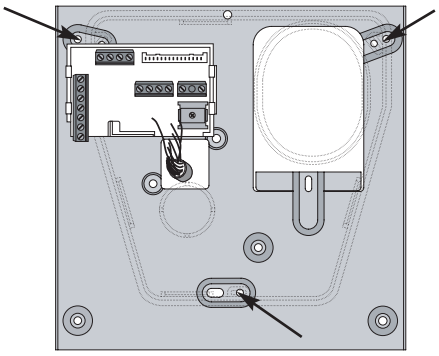


Fig. 2

INSTALLING 6500 SERIES MONITORS WITH FLUSH-MOUNTING BOX type 5609/000.

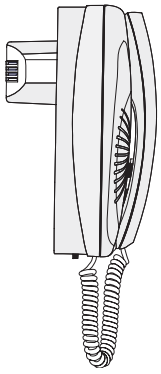
→ Mounting points



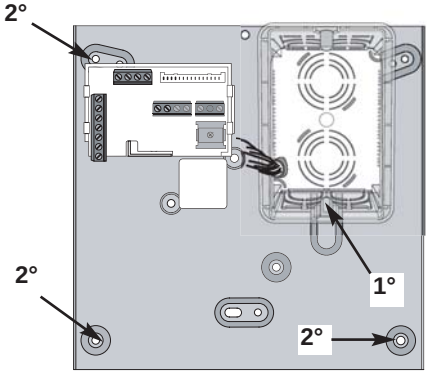


INSTALLING 6500 SERIES MONITORS WITH 3-MODULE FLUSH-MOUNTING BOX (type 6609).

→ Mounting points

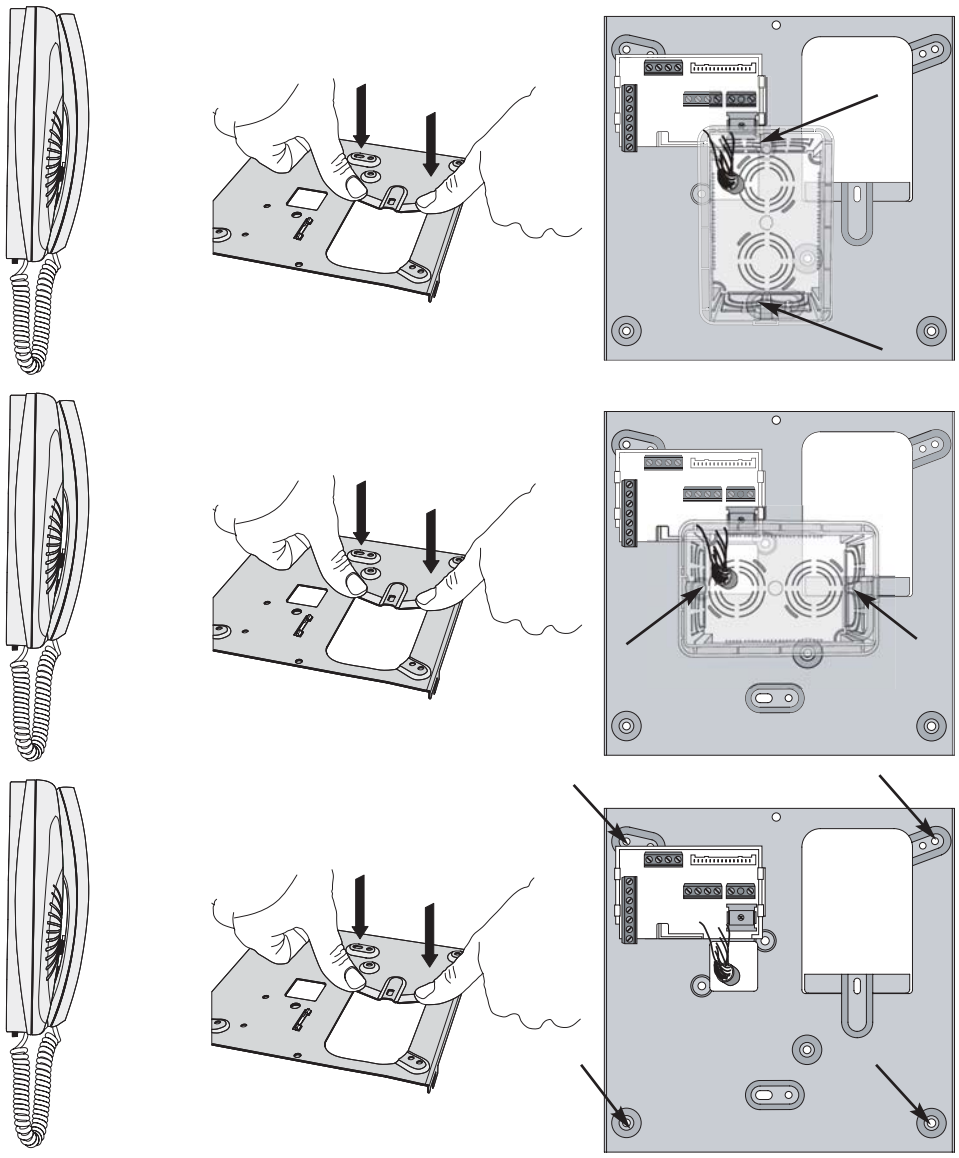


Fix the plate on point 1, resting the plate tabs on the base of the box, and then fix points 2.



INSTALLING 6300 SERIES MONITORS

→ Mounting points



SWITCHBOARDS

AUDIO SWITCHBOARD

The audio switchboard with internal/external switching comes in a single version for flush desk-mounting, flush wall-mounted and surface wall-mounted:standard colour black, ABS, interphone with "TINSEL" spiral cord, keypads in modules with 10 keys, acoustic and illuminating call alert signal, conversation privacy. Used in the internal position, the switchboard enables calls and conversation from switchboard to users and vice versa, while entrance panel calls are received by the switchboard. In the external position, calls are sent directly to the user. For use in installations for audio and video door entry systems with Sound System and AC call with power supply type 6680. The switchboard requires a additional power supply type 836.

	Version	Overall dimensions mm. (W.xH.xD.)	Flush-mounting hole dimensions mm. (W.xH.xD.)
type 152A	10 lines	258x265x153	240x247x100
type 152B	20 lines	308x265x153	290x247x100
type 152C	30 lines	358x265x153	340x247x100
type 152D	40 lines	408x265x153	390x247x100
type 152E	50 lines	458x265x153	440x247x100
type 152F	60 lines	508x265x153	490x247x100
type 152G	80 lines *	408x265x153	390x247x100
type 152H	100 lines *	458x265x153	440x247x100
type 152I	120 lines *	508x265x153	490x247x100

*On these switchboards, each key is equipped with two different coloured LEDs and can be used for two lines by means of the multiplier key.

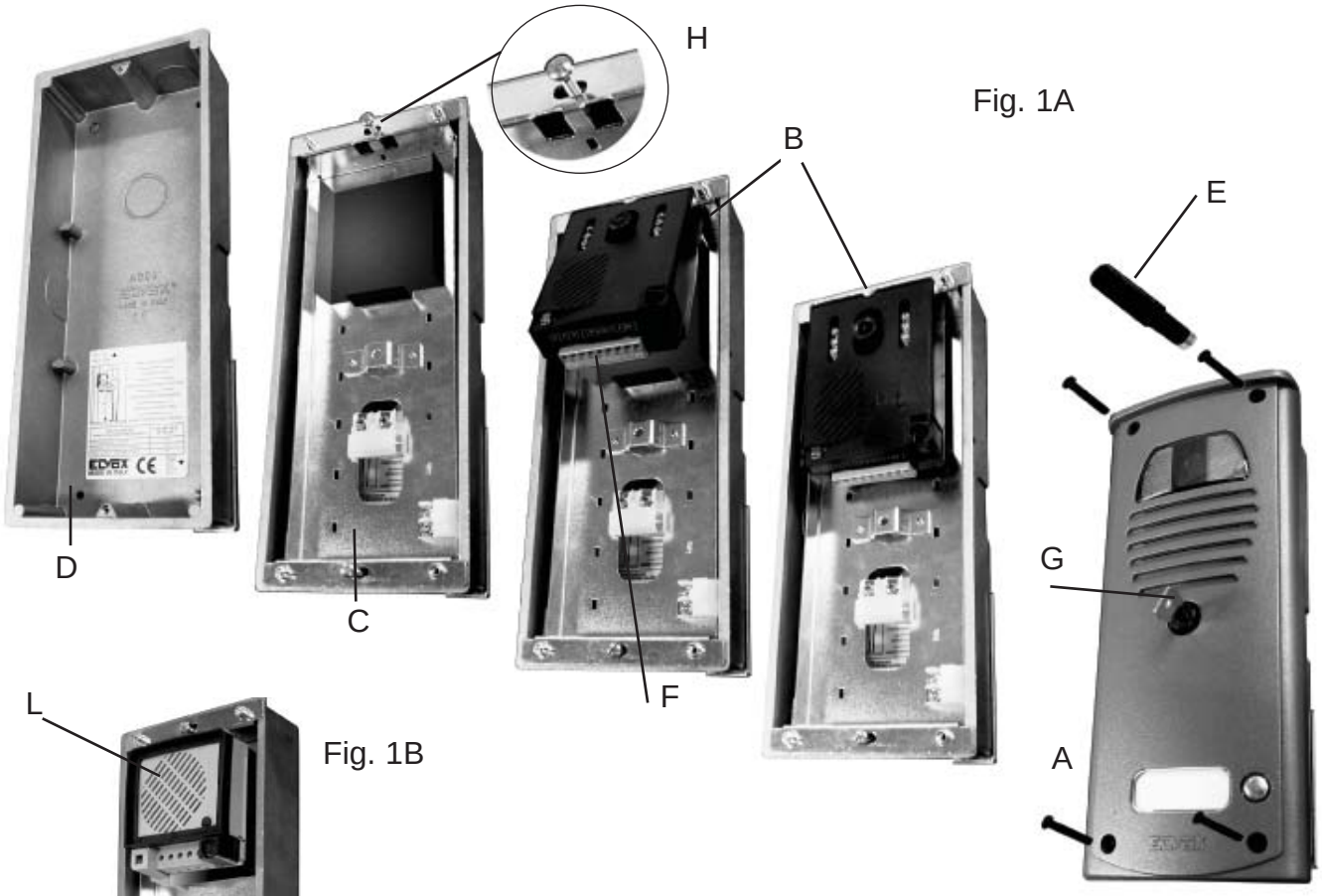
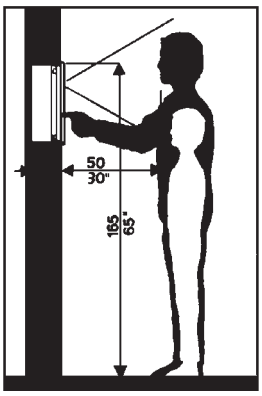


Fig. 1A

Fig. 1B

Fig. 2



The recommended height for the installation of video entrance panels is between 1.40 and 1.65 m. from the upper part of the panel to the floor level.

The average recommended height for audio entrance panels is of 1.45m.

INSTRUCTIONS FOR FLUSH-MOUNTED PANEL MOUNTING

Fig. 1 The diagram shows the components of the panel:
A - Front plate
B - Camera
C - Frame
D - Flush-mounted back box type 320S (supplied separately).
E - Special key for security screws
F- Removable terminal block to facilitate camera wiring.
G - Antitheft security key.
L- Speech unit

Fig. 3A -3B These entrance panels may be matched either horizontally or vertically. In this case back-boxes are separated from the panels and frames and assembled as shown in figure 3A, in order to mount them at the same height. For this purpose, special brackets are used for holding back-box in position. These brackets may be vertically or horizontally fitted.

Fig. 4 To gain access to the name-tags, take out the name-tag holder from the rear, as shown in the diagram.

Fig. 5 Make the holes for the electric wires to pass through, placing the wires in the correct position.

After installling the flush-mounted back box (Fig. 1A, detail "D"), connect camera by using removable terminal block (detail "F") or speech unit (Fig. 1A) connect also push-buttons, bulb and electric door lock.
Fix the camera to the entrance panel frame by inserting the camera hooks into the frame slots (Fig. 1A, detail "H"). Testing the equipment, fasten the plate with the security screws, using the special key supplied (point "E" fig. 1A), then definitively lock in place with the special key supplied (point "G" fig. 1A).

For the installation of the surface wall-mounted entrance panels use frames type 320P, 322P and 333P, to be used (respectively) for the mounting of one, two or three entrance panels fitted horizontally.

Fig. 3A

Fig. 3B

Mounting with rainproof cover (Fig. 6).
The rain-proof cover is mounted on surface wall-mounted vandal-proof security panels using rain-proof covers type 330P, 332P or 333P respectively.
To install, follow the procedure previously described but without using the back box. The panel may be set up with 1, 2 or 3 rows.

Fig. 6

Fig. 4

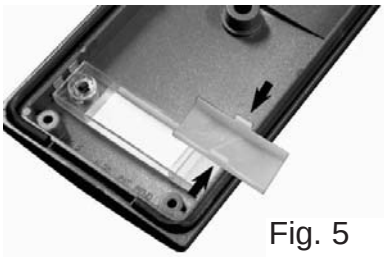


Fig. 5

ENTRANCE PANEL FOR VIDEO DOOR ENTRY SYSTEMS WITH LETTER-BOX AND FRONT OR REAR OPENING

Type 2550/301-302
Entrance panel with housing, rainproof cover and front plate in profiled anodized aluminium; without camera and speech unit; preset for cameras type 570, 570C, 570G or type 571 with "VIDEOMOVING" system and speech unit series 930.

MOUNTING INSTRUCTIONS
Mount video entrance panel shown in Fig. 1 (min. 1.40, max. 1.70 m. from ground level; see Fig. 2).
This panel is provided with letter-box with front opening. To obtain rear opening follow these instructions:

Fig. 3 - 4
Open front opening with the key supplied. Remove front plate by pulling it downwards after loosening screw A.

Fig. 5
Open rear part of panel by loosening the screws on lock block. Remove parts B-C-D and lock. Insert them again reversing their position.

Fig. 6
Carry out electric wiring to speech unit and to camera, write name on name-tag and block front plate. Then fix front opening with lock system removed from rear opening.

ARTICLE	PUSH-BUTTON NUMBER	PLATE DIMENSIONS
2550/301	1	265x363x135
2550/302	2	265x363x135

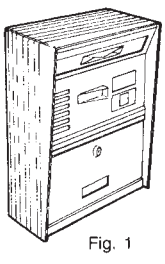


Fig. 1

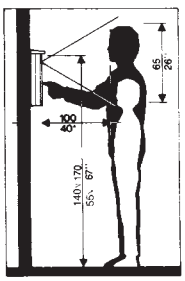


Fig. 2

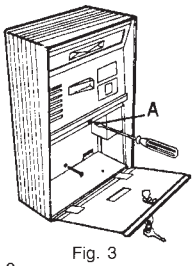
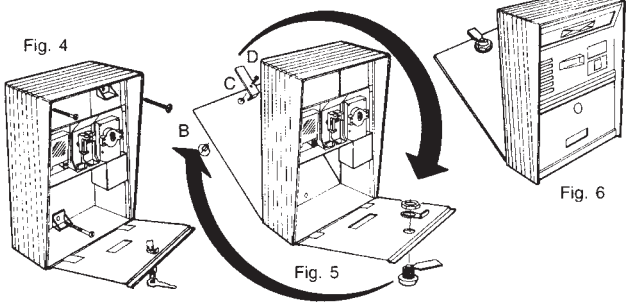


Fig. 3



TECHNICAL FEATURES OF PATAVIUM SERIES ENTRANCE PANELS

Plate in satin-finish brass with protective treatment. The treatment consists in nickel plating, gold plating and PVD titanium nitrate surface coating. Buttons only in brass with protective treatment. Equipped with flush-mounted back box in galvanised steel and name-tag holders that pull out from the rear. 24V 3W torpedo bulb for lighting entrance panel. Security mounting with brass-plated screws for use with special wrench (for audio entrance panels) or 2 screw-type security locks (for entrance panels), which fix the plate to the frame in galvanised steel.
Entrance panels for video door entry systems have a mounting for cameras type 558-559-559C-559G-561 and 561G. Entrance panels for audio door entry systems have a mounting for 930 series speech units.

Additional entrance panels with a single row of buttons.
The entrance panels can be coupled with the button-only series directly in the factory.
N.B.: For colour camera type 559C, add "/T" to the code of the Patavium entrance panel (e.g. type 2301 becomes type 2301/T).

	No. Push-buttons	Plate dimensions mm (WxH)	flush-mounted back box dimensions mm (WxH)	No. bulbs
2301	1	120 x 244	105 x 200 x 55	1
2302	2	120 x 276,5	105 x 233 x 55	1
2303	3	120 x 309	105 x 266 x 55	1
2304	4	120 x 341,5	105 x 298 x 55	1
2305	5	120 x 374	105 x 331 x 55	1
2306	6	120 x 406,5	105 x 363 x 55	2
2307	7	120 x 439	105 x 395 x 55	2
2308	8	120 x 471,5	105 x 428 x 55	2
2309	9	120 x 504	105 x 460 x 55	2

Entrance panels with mounting for audio speech unit with two rows of buttons.
N.B.: For colour camera type 559C, add "/T" to the Patavium entrance panel code (e.g. type 2402 becomes type 2402/T).

2402	2	180 x 244	165 x 200 x 55	1
2404	4	180 x 276,5	165 x 233 x 55	1
2406	6	180 x 309	165 x 266 x 55	1
2408	8	180 x 341,5	165 x 298 x 55	1
2410	10	180 x 374	165 x 331 x 55	1
2412	12	180 x 406,5	165 x 363 x 55	1
2414	14	180 x 439	165 x 395 x 55	1
2416	16	180 x 471,5	165 x 428 x 55	1
2418	18	180 x 504	165 x 460 x 55	2
2420	20	180 x 536,5	165 x 493 x 55	2
2422	22	180 x 569	165 x 525 x 55	2
2424	24	180 x 601,5	165 x 558 x 55	2
2426	26	180 x 634	165 x 590 x 55	2

Entrance panels with mounting for audio speech unit with single row of buttons. Designed for 930 series speech unit.

2101	1	120 x 211,5	105 x 168 x 55	1
2102	2	120 x 244	105 x 200 x 55	1
2103	3	120 x 276,5	105 x 233 x 55	1
2104	4	120 x 309	105 x 266 x 55	1
2105	5	120 x 341,5	105 x 298 x 55	1
2106	6	120 x 374	105 x 331 x 55	2
2107	7	120 x 406,5	105 x 363 x 55	2
2108	8	120 x 439	105 x 395 x 55	2
2109	9	120 x 471,5	105 x 428 x 55	2
2110	10	120 x 504	105 x460 x 55	2

Entrance panels for video door entry system with two rows of buttons. Designed for 930 series speech unit.

2202	2	180 x 211,5	165 x 168 x 55	1
2204	4	180 x 244	165 x 200 x 55	1
2206	6	180 x 276,5	165 x 233 x 55	1
2208	8	180 x 309	165 x 266 x 55	1
2210	10	180 x 341,5	165 x 298 x 55	1
2212	12	180 x 374	165 x 331 x 55	2
2214	14	180 x 406,5	165 x 363 x 55	2
2216	16	180 x 439	165 x 395 x 55	2
2218	18	180 x 471,5	165 x 428 x 55	2
2220	20	180 x 504	165 x 460 x 55	2
2222	22	180 x 536,5	165 x 493 x 55	2
2224	24	180 x 569	165 x 525 x 55	2
2226	26	180 x 601,5	165 x 558 x 55	2
2228	28	180 x 634	165 x 590 x 55	2

Additional entrance panels with a single row of buttons.
To be coupled with 2100, 2200, 2300 and 2400, by request to the factory.

***** Without name-tag holder

2000	* 1	108 x 64	82 x 51 x 45	0
2001	1	166 x 85	130 x 103 x 55	1
2002	2	120 x 146,5	105 x 103 x 55	1
2003	3	120 x 179	105 x 135 x 55	1
2004	4	120 x 211,5	105 x 168 x 55	1
2005	5	120 x 244	105 x 200 x 55	1
2006	6	120 x 276,5	105 x 233 x 55	2
2007	7	120 x 309	105 x 266 x 55	2
2008	8	120 x 341,5	105 x 298 x 55	2
2009	9	120 x 374	105 x 331 x 55	2
2010	10	120 x 406,5	105 x 363 x 55	2
2011	11	120 x 439	105 x 395 x 55	3
2012	12	120 x 471,5	105 x 428 x 55	3
2013	13	120 x 504	105 x 460 x 55	3

INSTALLATION FOR "PATAVIUM" VIDEO ENTRANCE PANEL

Before installing equipment, choose location for camera entrance panel: the camera should be protected from direct light (colour type 559C is equipped with white light LEDs) as this may affect the quality of the picture, and may damage the camera. This B/W camera is equipped with infrared Led's (l'type 559C a colori è munita di Led a luce bianca) allowing perfect picture at one metre distance.

Fig. 1 With cameras type 559-559C-561 install flush-mounted back box at a height of between 1.65 and 1.40 m measured from the top edge to the ground.
These diagrams show vertical camera coverage at one metre distance.

Fig. 2 A-B These diagrams show the components of the entrance panel:

A - Front plate
B - Camera
C - Back-box
D - Security lock (for video entrance panels only)
E - Removable terminal block for connecting the camera (for video entrance panels only)
F - Wrench for security bolts (for audio entrance panels only)
G - Speech unit

Fig. 3 To gain access to the name-tags, take out the name-tag holder from the rear, as shown in the diagram.

Carry out connections to camera by means of removable terminal block (video entrance panels, Fig.2A point "E"), speech unit, wire push-buttons (audio entrance panels), bulb and door lock.
After testing, secure the entrance panel with the screw-on security locks (video entrance panels, detail D, Fig. 2A) or the security bolts (use the wrench provided, audio panels, detail F, Fig. 2B).

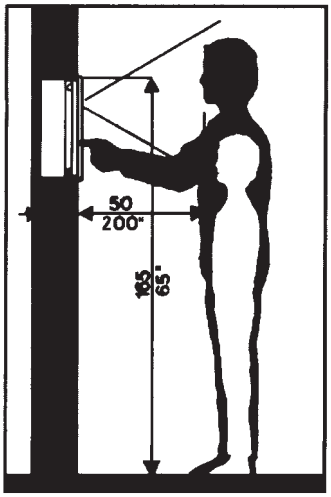


Fig. 1

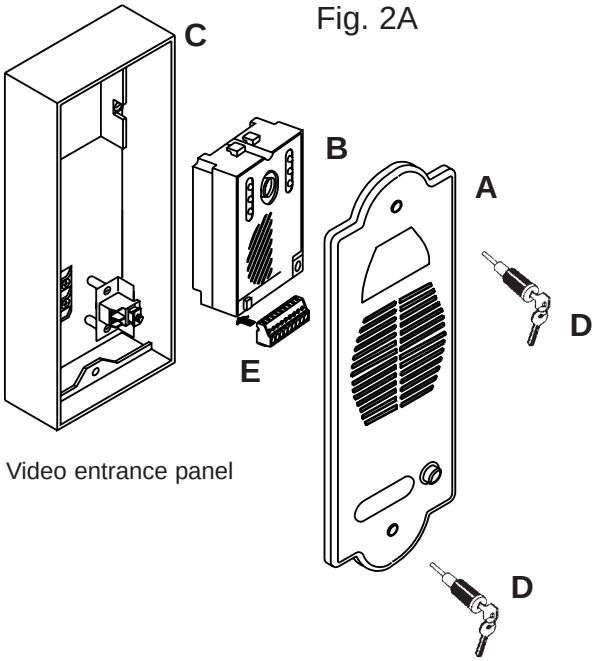


Fig. 2A

Video entrance panel

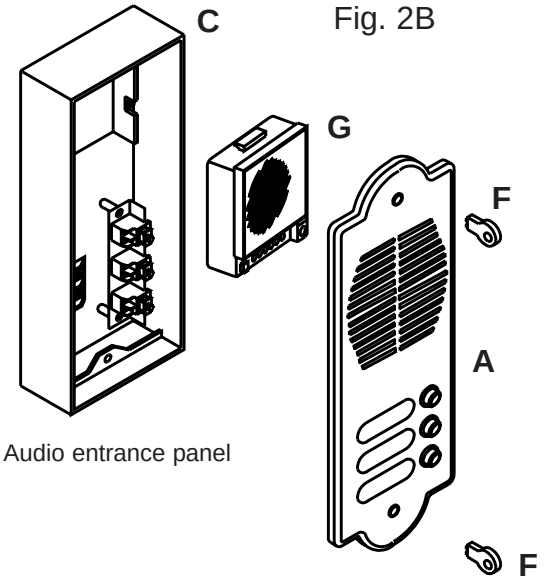


Fig. 2B

Audio entrance panel

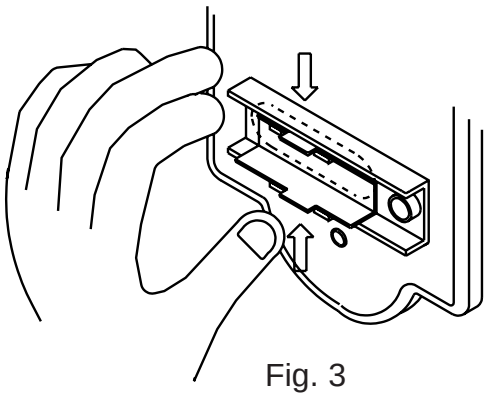


Fig. 3

CAMERAS AND SPEECH UNITS

CAMERA GENERAL FEATURES

- CCD 1/4" sensor.
- 3mm or wide angle, autoiris lens, fixed focus.
- B/W CCIR standard video signal, 625 lines, 50 images; colour standard PAL
- 1Vpp video output voltage on 75-Ohm load.
- Operation temperature -5° + 50° C.
- 12V D.C. 2A supply.

Cameras are provided with removable terminal block (point A).
Figures show camera coverage at 1 m. distance.

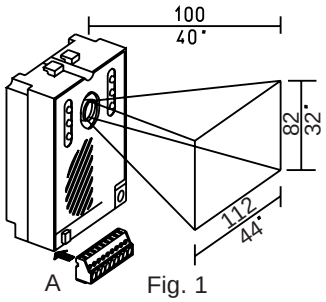


Fig. 1

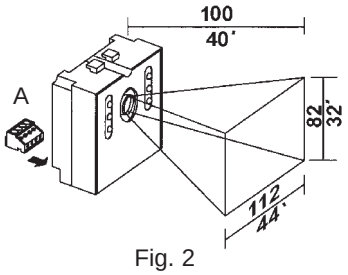


Fig. 2

COVERAGE ANGLE OF VIDEOMOVING SYSTEM CAMERAS

Inclination of vertical coverage angle on cameras Arts. 558 - 571 may be electrically tilted, in order to view people of different height or to obtain a full view when the entrance panel is not mounted at the prescribed height. The diagram shows min. and max. coverage angle of camera when this is fitted at an average height of 1.45m.

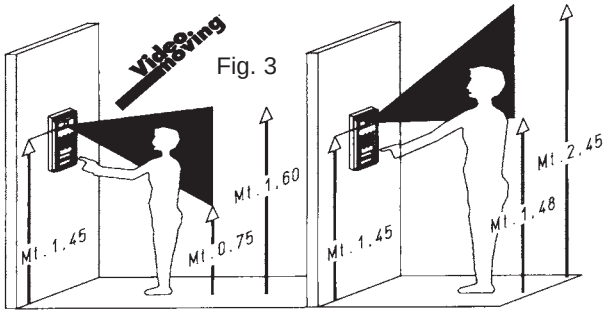


Fig. 3

GENERAL CHARACTERISTICS OF AUDIO SPEECH UNITS

All speech units are equipped with Electret amplified loudspeaker and microphone, with sensitivity control.
Type 930A, 930D and 930F have a microphone with an extension lead and can be used in two-channel open voice systems or to eliminate possible audio disturbance caused by the "Larsen effect".
Type 930D, 930/836 and 930F have a double amplifier which enables audio volume control of the entrance panel and the internal interphones.
Type 930D is also equipped with an electronic call generator and must be powered at 12V AC. The speech units can be installed on the entrance panels in the series: GALILEO, GALILEO SECURITY, PATAVIUM and letter box.


Fig. 4


Fig. 5

Cameras		Entrance panel models: Galileo	Galileo security	Patavium	2550/301-302	Type of lighting: Infrared led	Led with white light	Features: Microphone with extension cable	B/W	Colour	Videomoving	With speech unit	Video output on coaxial cable	Video output on telephone wire without coaxial cable
559	(Fig. 1)	X	X	X		X			X			X	X	
559A	(Fig. 1)	X				X			X			X	X	
559B	(Fig. 1)	X					X	X		X		X	X	
559C	(Fig. 1)	X	X	X			X			X		X	X	
559G	(Fig. 1)	X	X	X		X			X			X	X	
558	(Fig. 1)	X	X	X		X			X		X	X	X	
570	(Fig. 2)	X			X	X			X				X	
570C	(Fig. 2)	X			X		X			X			X	
570G	(Fig. 2)	X			X	X			X				X	
571	(Fig. 2)	X			X	X			X		X		X	
561	(Fig. 1)	X	X	X		X			X			X		X
561G	(Fig. 1)	X	X	X		X			X			X		X

Audio speech unit		Galileo	Galileo security	Patavium	2550/301-302	2501 - 2502	Features: Amplified electret microphone	Microphone with extension cable	Amplified loudspeaker	Call generator
930	(Fig. 4)	X	X	X	X	X	X			
930A	(Fig. 5)	X	X	X	X	X	X	X		
930D	(Fig. 5)	X	X	X	X	X	X	X	X	X
930/836	(Fig. 4)	X	X	X	X	X	X		X	
930F	(Fig. 5)	X	X	X	X	X	X	X	X	

ADDITIONAL CAMERAS

type 5000
Camera body dimensions:
64x60x122 mm
Support dimensions::
ø57x150 mm

Additional CCD camera complete with mounting bracket for indoor installation. No lens supplied. Uses C-CS thread lens attachments with manual diaphragm lens article 2/... or automatic diaphragm lens article 22/... and 22/S...
SUPPLY: 12 V D.C., CONSUMPTION: 100mA.

type 5020
Camera body dimensions:
62x60x72 mm
Support dimensions:
ø55x110 mm

Additional compact CCD camera complete with mounting bracket for indoor installation. No lens supplied.
Uses C-CS thread lens attachments with manual diaphragm lens article 2/... or automatic diaphragm lens article 22/... and 22/S...
SUPPLY: 12 V D.C., CONSUMPTION: 100mA.

type 5A20 - 5B20
Camera body dimensions:
62x60x72 mm
Support dimensions:
ø57x110 mm

Additional compact CCD camera with fixed lens (5A20 = 3 mm, 5B20 =6 mm) complete with mounting bracket for indoor installation.
SUPPLY: 12 V D.C., CONSUMPTION: 100mA.

type 5A10-5B10-5C10
Camera body dimensions::
62x60x122 mm
Support dimensions:
ø57x150 mm

Additional CCD camera with fixed lens (A = 3 mm, B =6 mm, C =12mm) housed in thermoplastic housing.
SUPPLY: 12 V D.C., CONSUMPTION: 100mA.

type 5299
Camera body dimensions:
90x100x280 mm
Support dimensions:
45x80x195 mm

Painted aluminium, waterproof container with polymer cover, complete with resistor with thermostat heating and bracket for outdoor mounting. Compatible with all type s of cameras.
SUPPLY FOR RESISTOR WITH THERMOSTATIC HEATER: 24V A.C.

type 5T10
Rainproof cover

Rainproof cover for outdoor cameras 5A10-5B10-5C10.

COVERAGE OF INTERCHANGEABLE LENSES

"C" LENS SPECIFICATION

Lens Type	Focus length (mm)	Diaphragm	Width (F) horizontal	Coverage angle
2/I06	6	MANUAL	1,2	43,6°
2/016	16	Without diaph.	1,6	20°
2/I16	16	MANUAL	1,4	17°
2/025	25	MANUAL	1,4	13°
2/050	50	MANUAL	1,3	6°
22/003	3	AUTOMATIC	1,4	67°
22/005	5,6	AUTOMATIC	1,3	47,2°
22/006	6	AUTOMATIC	1,2	56°
22/012	12	AUTOMATIC	1,4	23°
22/016	16	AUTOMATIC	1,3	20°
22/025	25	AUTOMATIC	1,3	13°
22/050	50	AUTOMATIC	1,8	6°

"CS" LENS SPECIFICATION

Lens Type	Focus length (mm)	Diaphragm	Width (F) horizontal	Coverage angle
2/S03	2,8	MANUAL	1,3	88°
2/S04	4,0	MANUAL	1,3	64°
2/S08	8,0	MANUAL	1,4	34°
22/S03	2,8	AUTOMATIC	1,3	88°
22/S04	4,0	AUTOMATIC	1,4	64°
22/S08	8,0	AUTOMATIC	1,3	34°

AUTOMATIC ZOOM LENS SPECIFICATION (with automatic diaphragm)

22/Z00	8,5-85	"C"-mount	1,8/360	32°-3,2°
22/ZS0	6,5-65	"CS"-mount	1,4/360	40°-4,2°
22/ZS1	6,5-39	"CS"-mount	1,4/360	40,5°-7°

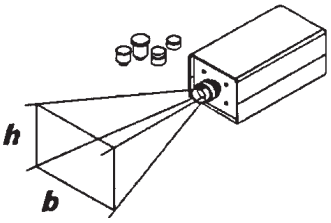
MANUAL ZOOM LENS SPECIFICATION (with automatic diaphragm)

22/612	6-12	"C"-mount	1,4/88	43,6°-22,6°
22/308	3,5-8	"CS"-mount	1,4/88	92,9°-35,7°

MANUAL ZOOM LENS SPECIFICATION (with manual diaphragm)

2/612	6-12	"C"-mount	1,4	43,6°- 33,5°
2/308	3,5-8	"CS"-mount	1,8	70°-33,5°

Technical notes
During installation, make sure that the diaphragm for the manual lenses is fully open since the video camera automatically adjusts the light on the pick-up sensor by means of an electronic device. The choice of a lens with manual or automatic diaphragm must be made, bearing in mind the lighting conditions in which the camera is to operate. We recommend, however, the use of lenses with automatic diaphragm series 22/... when the camera must operate with backlighting or in environments with widely varying lighting conditions.
When selecting the focal length, proceed as follows:
1 Determine the position of the camera and measure the distance between it and the subject.
2 Consult the lens table, and select the dimension of the subject to be filmed (B=base, H=height) in accordance with the distance calculated.



POWER SUPPLIES

The power supplies with class V-0 copolymercase on 8-module DIN housing and protective cap for terminal blocks are equipped with double electronic call generator (modulated and continuous). 230V 50Hz power supply with maximum absorbed power of 30VA and dissipated power of 8.5W. Protection with PTC against short circuits and temperature variations. Dimensions: 140x115x65 mm

type 931 Power supply for audio door entry system with 1+n wire with and without conversation privacy. Must be used with speech unit type 930/000.04 - 930A.

type 931A Power supply for audio door entry system with 1+n wire with and without conversation privacy. It is possible to connect a 12V D.C. backup battery to the power supply. Must be used with speech unit type 930/000.04 - 930A.

type 936 Power supply for audio door entry system or for intercommunicating systems without conversation privacy. Must be used with speech unit type 930/836.04, 930F.

type 938A Power supply for audio door entry system with intercommunicating interphones and conversation privacy between interphones and speech unit. Equipped with triple ringtone generator for calls from the entrance panel, from outside the door and for intercommunicating calls. Switching with the speech unit takes place automatically with the call from the entrance panel. Must be used with speech unit type 930/000.04 - 930A. Equipped with entrance panel call alert signal, if suitably connected.

type 833 Standard power supply for video entry systems with and without conversation privacy. Must be used with cameras: type 558, 559, 559A, 559G, 559B, 559C, 570, 570G, 571, 570C and speech unit type 930/000.04 - 930A

type 836 Power supply for audio entry system switchboards type 142, 152, 162.

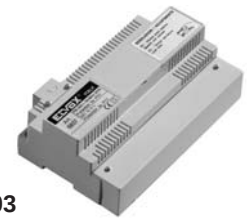
type 6836 Power supply for audio entry system switchboard type 153A.

Switching modules with class V-0 technopolymer case on 12-module DIN housing and protective caps for terminal blocks. Supplied with double electronic call generator (modulated and continuous). Power supply 230V 50Hz with maximum absorbed power 30VA or 60VA (for video door entry system) and dissipated power of 8.5W. Protection with PTC against short circuits and temperature variations. Dimensions: 208x135x72 mm.

type 6837 Power supply for audio door entry system with 1+n wire, with and without conversation privacy. Must be used with speech unit type 930/000.04 - 930A.

type 837/OCT Power supply for audio door entry system with 1+n wire with and without conversation privacy. It is possible to connect a 12V D.C. backup battery to the power supply. Must be used with speech unit type 930/000.04 - 930A.

type 931/OCT Power supply for audio door entry system with and without conversation privacy. It is possible to connect a 12V D.C. backup battery to the power supply. Must be used with speech unit type 930/000.04 - 930A power supply for open voice audio door entry system without conversation privacy. Must be used with speech unit type 930A



type 6450 Power supply for open voice audio door entry system without conversation privacy. Must be used with speech unit type 930A

type 6680 Standard power supply for video door entry system with and without conversation privacy. Must be used with cameras:type 558, 559, 559A, 559G, 559B, 559C, 570, 570G, 571, 570C and speech unit type 930/000.04 - 930A

type 6680/V03 Power supply like type 6680 for "building complex" type systems. Must be used with cameras: type 558, 559, 559A, 559G, 559C, 559B, 570, 570G, 571, 570C and speech unit type 930/000.04 - 930A

type 6681 Standard power supply for open voice video door entry systems with and without conversation privacy, equipped with entrance panel call. Must be used with cameras: type 559A, 559B and speech unit type 930A

type 6583 Power supply for additional video door entry systems for long lines and lines with significant voltage drops or for simultaneous switch-on of several monitors.

type 6584 Power supply for video door entry systems on “building complexes”, to use for connecting the main external unit

type 6582 Additional power supply for video door entry systems in 4-module DIN housing to use for simultaneous switch-on of several monitors and for long lines or lines affected by significant voltage drop. Can power video distributors type 5556/004, 6554 and amplifier type 5559.
Power supply 230V A.C. 50Hz.

SWITCHING MODULES

Switching module with case in copolymer on 4-module DIN housing and protective caps for terminal blocks. Must be used with power supplies for audio and video door entry systems. Dimensions: 70x115x65 mm

type 935A For systems with intercommunicating networks, for use with: video door entry systems with power supply type 6680 and audio door entry systems with power supplies type 931, 931A and 931/0CT. Enables you to set up independent groups of monitors and intercommunicating interphones. Equipped with differentiated call generator. For connection of type 935A a transformer type 832/030 is required for every switching module.

Switching modules in technopolymer with 8-module DIN housing and protective caps for terminal blocks. Must be used with power supplies for audio and video door entry systems with 2 or more speech units. Dimensions: 140x135x72 mm.

type 839/302 For audio door entry system with 2 speech units. Must be used with power supplies type 931, 931A, 936, 938A, 985, 931/0CT and 6450. Possibility of connecting up to 4 switching modules in series.

type 839/303 For audio door entry system with 3 speech units. Must be used with power supplies type 931, 931A, 936, 938A, 985, 931/0CT and 6450. Possibility of connecting up to 4 switching modules in series.

type 5590/001 For video door entry system with one external video unit and one audio only, must be added to type 6680, 6680/V03 and 6681.

type 5590/303 For video door entry system with one external video unit and audio only, must be added to type 6680, 6680/V03and 6681.

Switching modules with case in copolymer on 12-module DIN housing and protective caps for terminal blocks. Must be used with power supplies for audio or video door entry system with 2 or more speech units. Dimensions: 208x135x72 mm.

type 839/837 For audio door entry systems with 1+n wire and 2 speech units. Must be used with power supplies type 6837 and 837/0CT.

type 6591 For video door entry systems with 2 external video units, must be added to type 6680, or type 6680/V03, using wiring type 2/690, or type 6681 using wiring type 2/691.

type 6592 For video door entry systems with 2 external video units, must be added to type 6680, or 6680/V03, using wiring type 2/690. It is possible to install more than two switching modules in series for connecting several external units: use one transformer type M832 or 832/030 for each additional switching module. Each output can be programmed for various functions: audio only, call priority etc.
For connection between switching modules use wiring type 2/591.

type 6594 For video door entry systems with 2 external video units, for “building complexes”. Must be added to type 6680/V03.

TRANSFORMERS

Transformers with case in copolymer on 4-module DIN housing. Power supply 230V 50Hz with protection with PTC against short circuits and temperature variations. Dimensions: 75x100x65 mm.

type 832/030 Safety transformer with B.T. 15V~ 30 VA output

type M832 Safety transformer with B.T. 12V~ 20 VA output

AMPLIFIERS

Call amplifiers with case in copolymer on 4-module DIN housing. Power supply 230V 50Hz with protection with PTC against short circuits and temperature versions. - Dimensions: 70x115x65 mm.

type 934 Call amplifier. Used for amplifying the Sound System call signal of power supplies type 931, 931A, 936, 938A, 985, 931/0CT, 6680 and 6681. Must be used in installations with more than two interphones or monitors in parallel, up to a maximum of four devices.

type 934N Call amplifier, used for amplifying the Sound System call signal of power supplies type 6837, 837/0CT and 6568. Must be used in installations with more than two interphones or monitors in parallel, up to a maximum of four devices.

type 5559 Video amplifier in ABS with 4-module DIN housing, for connection lines with 75 Ohm coaxial cable over 200 metres long, compensated up to 1000 metres. Power supply 12 - 18V D.C.. Can be powered by power supply type 6582.

VIDEO DISTRIBUTORS

type 6554 Video floor distributor, 4 outputs with 75 Ohm coaxial cable. Power supply 12 to 18V D.C..
Dimensions: 48x70x19 mm.

type 6669 Video floor distributor with 4 outputs without coaxial cable, maximum 10 connections on cable riser. Power supply 12 to 20 V D.C.. Dimensions: 48x70x19mm

type 5556/004 Video signal floor distributor or for several cable risers, with 4 outputs, in copolymer with 4-module DIN housing. Power is supplied from the monitor or from power supply type 6582. Power supply 12V D.C..
Dimensions: 70x105x50 mm.

type 6670 Video distributor for several cable risers with 4 outputs without coaxial cable, in copolymer with 4-module DIN housing. Power supply 12 to 20V D.C..
Dimensions with caps on: 75x115x50 mm

RELAYS

Relay with case in copolymer on DIN 4-module housing. - Dimensions: 70x105x65 mm.

type 170/001 Relay for switching on stair light or other system. Load to contacts 3A 230V. Power supply 12V D.C. or A.C.

type 170/002 Pair of 170/001 relays in a single container.

type 170/101 Repeater relay, for additional ringtones etc. Load to contacts 3A 230V. Power supply 12V D.C., 12V A.C. or electronic call.

type 170/051 Relay for switching the video signal from the entrance panel camera to an additional camera. Power supply 12V D.C. or A.C.

type 170/560 Relay with device for switching from 1st to 2nd camera and self-start with a single push-button from the monitor. Power supply 12V D.C..

type 170T Timed relay with 2 outputs with "ON time" control. With two switchovers, load to contacts 2A 230V. Power supply 15V D.C. and VAC.

RINGTONES

Electronic ringtones with one, two or three notes, in ABS. Standard colour white. - Dimensions: 140x140x50 mm.

type 860A Ringtones with differentiated ringtone with 2 inputs. Power supply 230VAC

type 860B Ringtones with differentiated ringtone with 2 inputs. Power supply 15VAC

type 860C Ringtones with differentiated ringtone with 3 inputs. Power supply 12-15V D.C. or 12-15V A.C. or 9V battery

type 2/841 Loudspeaker / electronic call repeater for installations with Sound System call and electronic installations:mounting on rectangular box or with wall plugs. Dimensions: 120x75x30 mm.

WIRING

type 2/690 Wiring with terminal block and black 10-conductor connector. Use to facilitate connection of switching modules type 6591 and 6592 to power supply type 6680.

type 2/591 Wiring with white 15-conductor connectors. Use to facilitate connection of switching modules type 6592 for three or more external camera units.

type 2/691 Wiring with terminal block and black 9-conductor connector. Use to facilitate connection of switching modules type 6591 to power supply type 6681

type 2/668 Wiring with removable terminal block and black 10-conductor connector for connection from power supply type 6568 to switching module type 6596

ACCESSORIES

type 2/567 Type 2/567 Video signal converter. Converts the signal from the 75 Ohm shielded cable into a video signal suitable for transmission by a pair of normal conductors. Used for eliminating the coaxial cable connecting the monitor and a camera installed in an entrance panel. Power supply 12V D.C.

type 2/994 Type 2/994 Strip of 4 diodes for mounting on GALILEO series entrance panels. Must be used in audio door entry systems with 1+n wire and in video door entry systems without coaxial cable. Allow one diode for each button.

type 27/005 Type 27/005 Strip of 5 diodes. Must be fitted on GALILEO-SECURITY and PATAVIUM series entrance panels. Must be used in audio door entry systems with 1+n wire and in video door entry systems without coaxial cable. Allow one diode for each button

CABLES

type 61/001 Cable for video connections in P.V.C. NPI 12-48V CEI 20-22 II CEI 20-35 CEI 20-37 I, consisting of 12 coloured conductors and one 75 Ohm coaxial cable, in 100 m rolls. For internal installation. Cable diameter 10 mm.

type 61/001.500 Cable for video connections in P.V.C. NPI 12-48V CEI 20-22 II CEI 20-35 CEI 20-37 I, consisting of 12 coloured conductors and one 75 Ohm coaxial cable, in 500 m rolls. For internal installation. Cable diameter 10 mm.

type 61/002 Cable for video connections in P.V.C. NPI 12-48V CEI 20-22 II CEI 20-35 CEI 20-37 I, consisting of 10 coloured conductors and one 75 Ohm coaxial cable, in 100 m rolls. For internal installation. Cable diameter 8 mm.

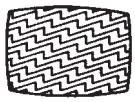
type 61/002.500 Cable for video connections in P.V.C. NPI 12-48V CEI 20-22 II CEI 20-35 CEI 20-37 I, consisting of 10 coloured conductors and one 75 Ohm coaxial cable, in 500 m rolls. For internal installation. Cable diameter 8 mm.

type 61/003 Cable for video connections in special ABS 12-48V CEI 20-22 CEI 20-37, consisting of 12 coloured conductors and one 75 Ohm coaxial cable, in 100 m rolls. For underground installation protected with piping. Cable diameter 10.5 mm.

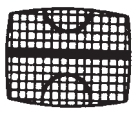
type 2/060 Cable for video in P.V.C. NPI CEI 20-22 II CEI 20-35 CEI 20-37 I, with 75 Ohm coaxial cable (type RG174), in rolls of 200 m. Cable diameter 3 mm.

Monitor switched OFF:
Check voltage across terminals - and + (15-20 V D.C.). Check that the power supply generates the electronic call notes; connect a loudspeaker of 50÷100 Ohm between terminals - and CH (6E and 8) of the monitor and make a call from the entrance panel.

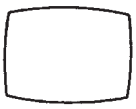
Screen with horizontal lines:
adjust horizontal frequency



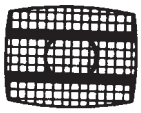
Vertical shift:
adjust vertical frequency



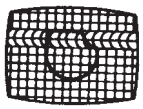
Monitor switched ON without image:
detach coaxial cable from camera and check it with a tester; it should measure 75 Ohms relative to load resistor placed in last monitor. Check whether camera is powered (terminals +T, -; power 11-13V D.C.)



Black bars:
check voltage between terminals - and + (5 and 6) (should not be less than 15V D.C.)
Voltage between terminals +T, - of camera should not be less than 11V D.C.



Distorted or doubled image:
check if 75-Ohm load resistor is inserted in last monitor, or in case of coaxial cable systems, if terminal V3 is short-circuited on terminal M.



Whistling sounds in the audio section:
if, when the monitor interphone is lifted, a whistling in sound can be heard (Larsen effect), turn down the speech unit volume by adjusting the potentiometer In the power supply. If the problem persists, replace speech unit with type 930A or type 930D. When using a video outdoor station replace the camera with type 559A or 559B, which is equipped with a microphone with long cable to be installed far from the loudspeaker.

WIRING DIAGRAM FOR DOOR ENTRY SYSTEMS WITH SOUND SYSTEM CALL

MINIMUM CONDUCTOR SECTION FOR AUDIO DOOR ENTRY SYSTEM (mm^2)

Section type	Terminals	Ø up to 50 m.	Ø up to 100 m.	Ø up to 200 m.
a	0, 3, 12, 15, -, AS, S1 C1, C2, C3, P1, P2 lock, calls	0,5 mm^2	0,75 mm^2	1,5 mm^2
b	Other	0,25 mm^2	0,5 mm^2	1 mm^2

AUDIO DOOR ENTRY SYSTEM WITH POWER SUPPLY
TYPE 931

SYSTEM DESCRIPTION

Use power supply type 931, which features a dual electronic tone generator which replaces the traditional alternating current call on a buzzer or bell. The sound signal has two different tones (on terminals C1-C2), enabling users to immediately identify which point is calling (main entrance, gate, garage, etc.). This solution also makes it possible to use a single loudspeaker built into the phone itself to produce the sound. 8-module container in class V - 0 copolymer suitable for DIN rail assembly on electric panels (omega rails) or fixing with wall plugs. Use power supply type 931A with "entrance panel call" function for signalling on the speech unit that a call has been made; type 931/0TC can be fitted with a 12 V backup battery.

OPERATING INSTRUCTIONS

When a caller presses a call push-button on the external entrance panel an acoustic signal is emitted, at which point, the user can pick up the internal interphone and speak to the caller for as long as required. Conversation privacy is not available with this system

LIST OF ARTICLES REQUIRED FOR INSTALLATION (Diagram ref. C2180-1)

Diagram Ref.	Type	Name	Quantity
A	6200	Interphone	n
B	8875 - 8872	Interphone	n
C	Series GALILEO SECURITY GALILEO, PATAVIUM or letter box	Entrance panel	1
D	930 - 930A	Speech unit	1
E	-	Electric lock 12V A.C.	1
F	-	Landing call push-button	1
G	931 - 931A or 931/0TC	Power supply	1
n	-	Number of users	n

CONNECTIONS TO POWER SUPPLY TERMINALS

PRI: Supply 230V~ +6% -10%
50-60Hz 30VA protected by PTC

1: Interphone receiver
2: Interphone microphone
3: Common line for interphone receiver and microphone

6: Receiver and microphone common wire for speech unit
7: Speech unit microphone
8: Speech unit loudspeaker

C1: Call generator output with modulated tone.
C2: Call generator output with continuous tone.

0-15: Output 15V~ 1A (on intermittent operation)
protected by PTC

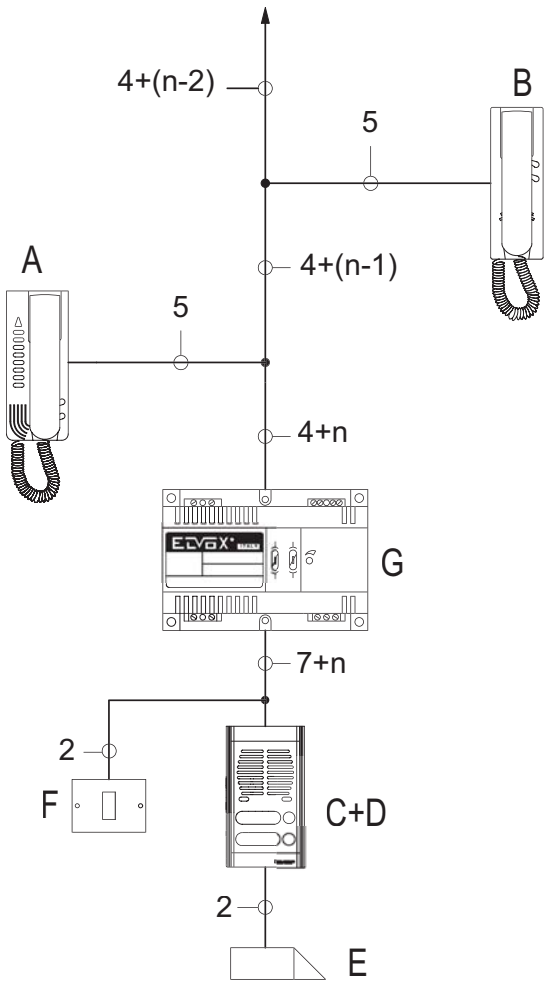
0-AS: Output 15V rectified 1A (on intermittent operation)
protected by PTC

Maximum power 30VA
Dissipated power 8,5W

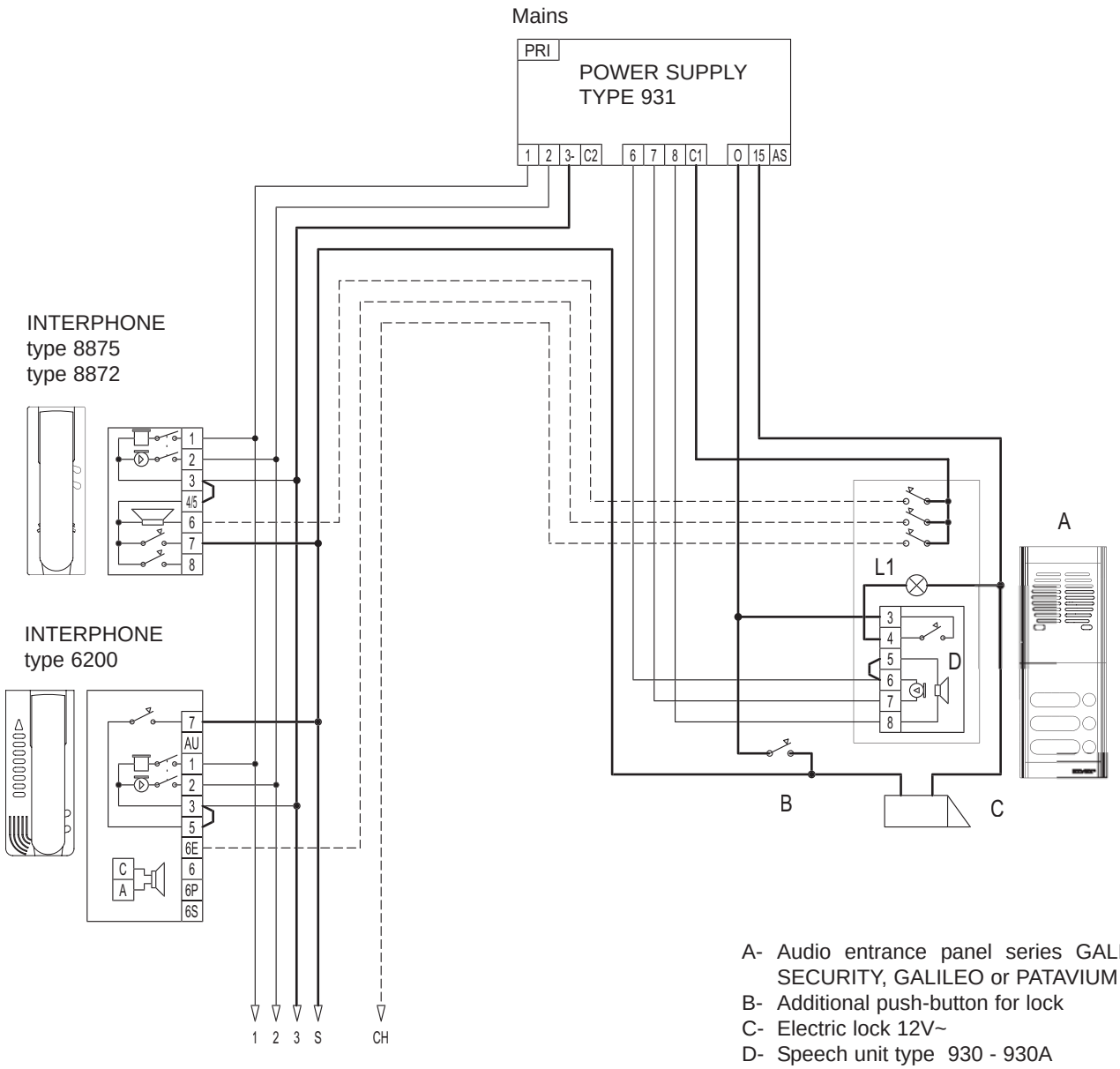
When using continuous duty 0-15 and 0-AS outputs, do not connect loads of over 0.25A.
Lighting of entrance panel:
type 931 powers a maximum of 3 24V 3 W bulbs
Transformer type M832 powers a maximum of 10 24V 3W bulbs;
Transformer type M832/030 powers a maximum of 16 24V 3W bulbs.

In the event of a short-circuit, the protection circuit (PTC) removes the mains voltage until the fault is rectified. After eliminating the short-circuit, it is necessary to wait for a few minutes to allow cooling of the protective device, so that the power supply may start normal operation again.

N. B. The system can be completed by adding other services. To do this, consult the variations on the standard connection for the various system components, on pages 80 to 86.



BLOCK DIAGRAM N° sb1214



A- Audio entrance panel series GALILEO SECURITY, GALILEO or PATAVIUM
B- Additional push-button for lock
C- Electric lock 12V~
D- Speech unit type 930 - 930A
L1- Panel bulb
(3x24V 3W max.)
10x24V 3W with type M832
16x24V 3W with type 832/030

N.B.
If a humming sound is detected on the phonic line reconnect the wire connected to the lock by terminal 15 to terminal AS inside the power supply.

DIAGRAM N° c2180-1

AUDIO DOOR ENTRY SYSTEM WITH POWER SUPPLY TYPE 931, CONVERSATION PRIVACY

SYSTEM DESCRIPTION

Use power supply type 931, which features a dual electronic tone generator which replaces the traditional alternating current call on a buzzer or bell. The sound signal has two different tones (on terminals C1-C2), enabling users to immediately identify which point is calling (main entrance, gate, garage, etc.). This solution also makes it possible to use a single loudspeaker built into the phone itself to produce the sound.

8-module container in class V - 0 copolymer suitable for DIN rail assembly on electric panels (omega rails) or fixing with wall plugs. Use power supply type 931A with the "entrance panel call" function which signals on the speech unit that a call has been made; type 931/0TC can be fitted with a 12 V backup battery.

OPERATING INSTRUCTIONS

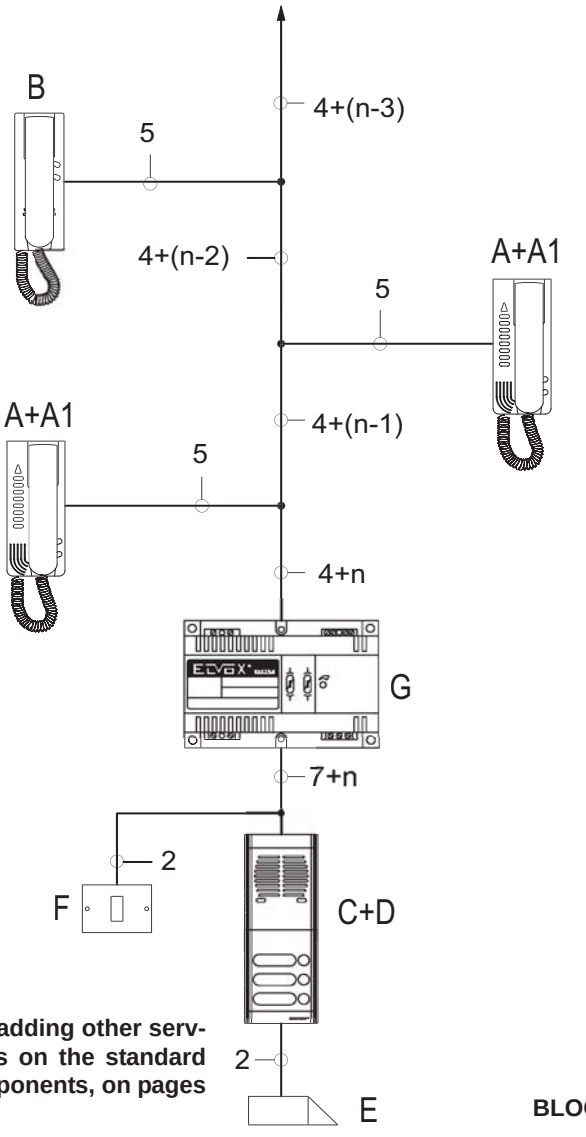
This type of system enables simple communication between internal units and the external entrance panel. **Only the user called is enabled to converse** with the caller while the other internal units remain disabled. The lock release function is always enabled, even in absence of call.

LIST OF ARTICLES REQUIRED FOR INSTALLATION (Diagram Ref. C2180)

Diagram Ref.	Type	Name	Quantity
A	6200	Interphone	n
B	8875 - 8872	Interphone	n
C	Series GALILEO SECURITY GALILEO, PATAVIUM or letter box	Entrance panel	1
D	930 - 930A	Speech unit	1
E	-	Electric lock 12V A.C.	1
F	-	Landing call push-button	1
G	931 - 931A or 931/0TC	Power supply	1
n	-	Number of users	n

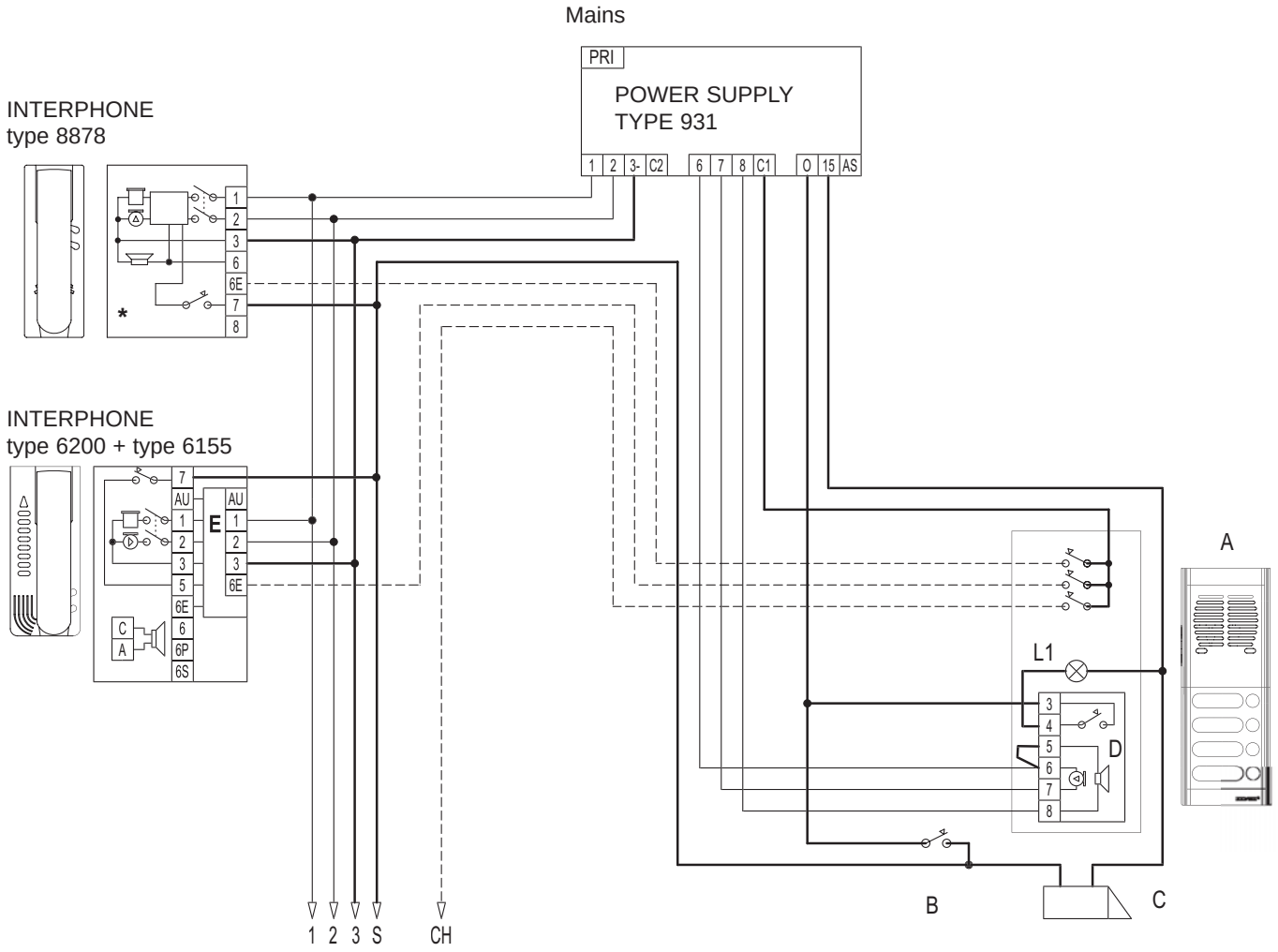
When using continuous duty 0-15 and 0-AS outputs, do not connect loads of over 0.25A.
Lighting of entrance panel:
type 931 powers a maximum of 3 24V 3 W bulbs
Transformer type M832 powers a maximum of 10 24V 3W bulbs;
Transformer type M832/030 powers a maximum of 16 24V 3W bulbs.

In the event of a short-circuit, the protection circuit (PTC) removes the mains voltage until the fault is rectified. After eliminating the short-circuit, it is necessary to wait for a few minutes to allow cooling of the protective device, so that the power supply may start normal operation again.

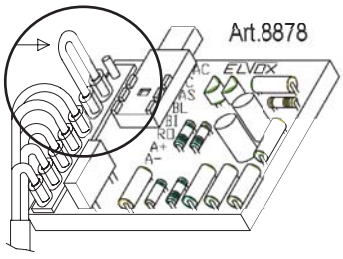


N. B. The system can be completed by adding other services. To do this, consult the variations on the standard connection for the various system components, on pages 80 to 86.

BLOCK DIAGRAM N° sb1215



***N.B.**
On interphone type 8878 leave the jumper on terminals " C-AS ".



A- Audio entrance panel series GALILEO SECURITY, GALILEO or PATAVIUM
B- Additional push-button for lock
C- Electric lock 12V~
D- Speech unit type 930 - 930A
E- Card for conversation privacy type 6155
L1- Panel bulb
(3x24V 3W max.)
10x24V 3W with type M832
16x24V 3W with type 832/030

N.B.
If a humming sound is detected on the phonic line reconnect the wire connected to the lock by terminal 15 to terminal AS inside the power supply.

DIAGRAM N° c2180

AUDIO DOOR ENTRY SYSTEM WITH POWER SUPPLY TYPE 931, CONVERSATION PRIVACY AND LOCK RELEASE AFTER THE CALL

SYSTEM DESCRIPTION

Use power supply type 931, which features a dual electronic tone generator which replaces the traditional alternating current call on a buzzer or bell. The sound signal has two different tones (on terminals C1-C2), enabling users to immediately identify which point is calling (main entrance, gate, garage, etc.). This solution also makes it possible to use a single loudspeaker built into the interphone itself to produce the sound.
8-module container in class V - 0 copolymer suitable for DIN rail assembly on electric panels (omega rails) or fixing with wall plugs. Use power supply type 931A with the "entrance panel call" function which signals on the speech unit that a call has been made; type 931/0TC can be fitted with a 12 V backup battery.

OPERATING INSTRUCTIONS

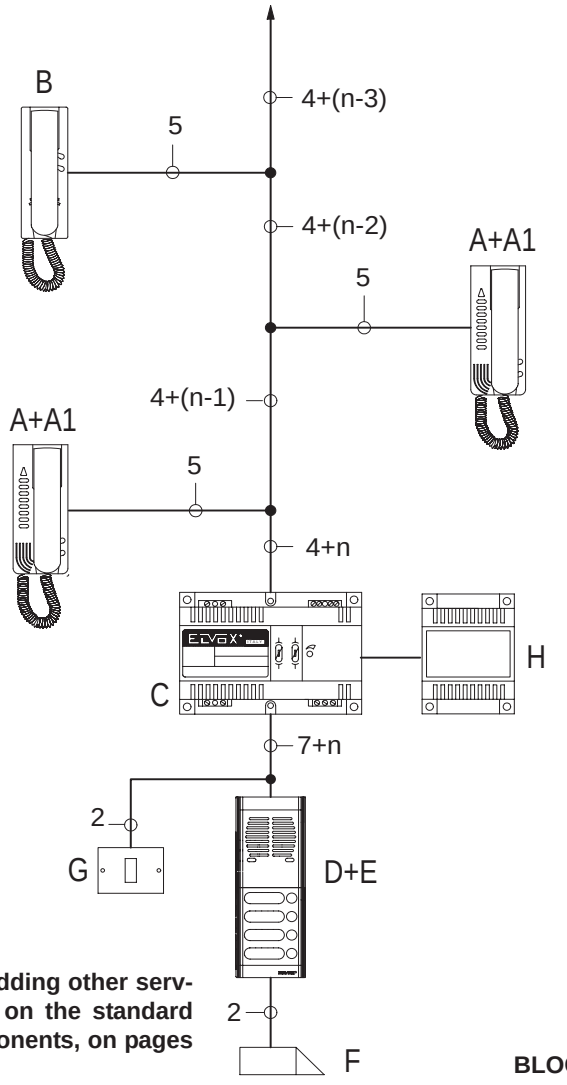
This type of system enables simple communication between internal units and the external entrance panel.
Only called user is enabled to communicate with speech unit and open the door, therefore all other internal units are excluded.

LIST OF ARTICLES REQUIRED FOR INSTALLATION (Diagram Ref. C3318)

Diagram Ref.	Type	Name	Quantity
A	6200	Interphone	n
A1	6155	Card for conversation privacy	n
B	8878	Interphone	n
C	931 - 931A or 931/0TC	Power supply	1
D	Series GALILEO SECURITY GALILEO, PATAVIUM or letter box	Entrance panel	1
E	930 - 930A	Speech unit	1
F	-	Electric lock 12V A.C.	1
G	-	Landing call push-button	1
H	170/101	Relay	1
n	-	Number of users	n

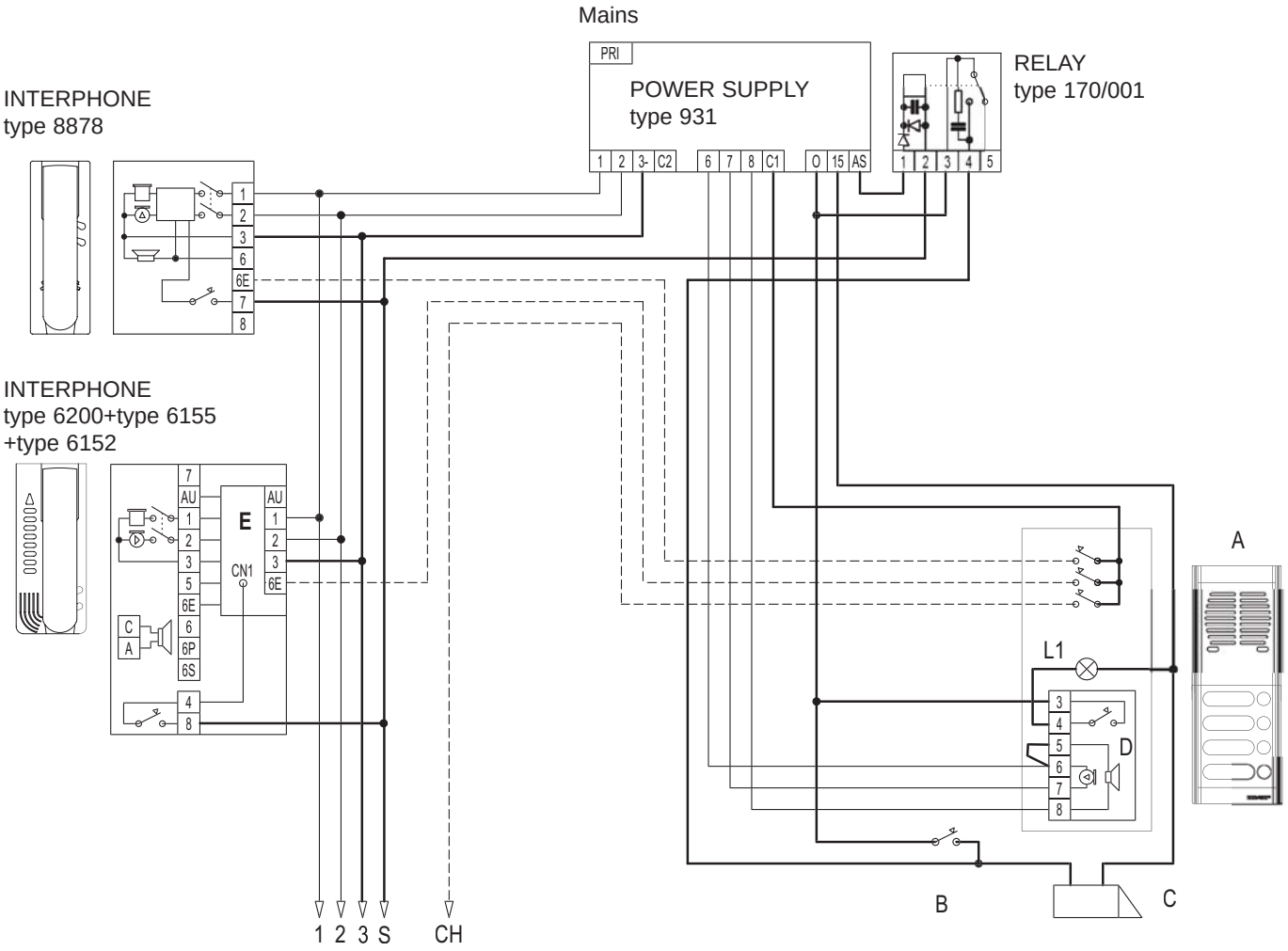
When using continuous duty 0-15 and 0-AS outputs, do not connect loads of over 0.25A.
Lighting of entrance panel:
type 931 powers a maximum of 3 24V 3 W bulbs
Transformer type M832 powers a maximum of 10 24V 3W bulbs;
Transformer type M832/030 powers a maximum of 16 24V 3W bulbs.

In the event of a short-circuit, the protection circuit (PTC) removes the mains voltage until the fault is rectified. After eliminating the short-circuit, it is necessary to wait for a few minutes to allow cooling of the protective device, so that the power supply may start normal operation again.



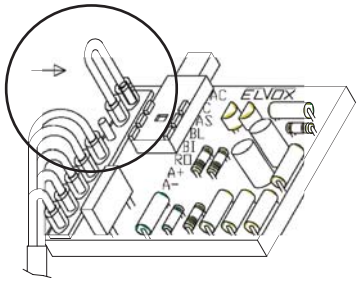
N. B. The system can be completed by adding other services. To do this, consult the variations on the standard connection for the various system components, on pages 80 to 86.

BLOCK DIAGRAM N° sb1216



A- Entrance panel series GALILEO SECURITY, GALILEO or PATAVIUM
B- Additional push-button for lock
C- Electric lock 12V~
D- Speech unit type 930, 930A
E- Card for conversation privacy type 6155
L1- Panel bulb (3x24V 3W max.)
10x24V 3W with type M832
16x24V 3W with type 832/030

On interphone type 8878 leave the jumper on terminals " C-AC ".



N.B.
If a humming sound is detected on the phonic line reconnect the wire connected to the lock by terminal 15 to terminal AS inside the power supply.

DIAGRAM N° c3318

AUDIO DOOR ENTRY SYSTEM WITH AMPLIFIED SPEECH UNIT TYPE 930/836 (930F) AND POWER SUPPLY TYPE 936

SYSTEM DESCRIPTION

The power supply used is type 936 for audio door entry systems with speech unit, or intercommunicating devices without audio door entry system. Equipped with a double electronic ringtone generator (Sound System) which replaces the conventional AC call on buzzer or bell. The sound signal has two different tones, allowing immediate identification of the point from which the call is made. The sound is emitted by a single loudspeaker inside the interphone.
8-module power supply with housing in class V - 0 copolymer, suitable for DIN rail assembly on electric panels (omega rails) or wall-mounted with expansion plugs.

OPERATING PRINCIPLE

When a key is pressed on the entrance panel the interphone emits an acoustic signal; by lifting the interphone, it is possible to converse with the visitor without any time limit. The system can only be set up without conversation privacy between user and user. This system is an alternative to the system created with power supply type 931.

LIST OF ARTICLES REQUIRED FOR INSTALLATION (Diagram Ref. C2117)

Diagram ref.	Type	Name	Quantity
A	6200	Interphone	1÷n
B	8875 - 8872	Interphone	1÷n
C	series GALILEO SECURITY GALILEO, PATAVIUM or letter box	Entrance panel	1
D	930/836 - 930F	Speech unit	1
E	-	Electric lock 12V A.C.	1
F	936	Power supply	1
G	-	Landing call push-button	1÷n
n	-	Number of users	1÷n

CONNECTIONS TO TERMINALS OF POWER SUPPLY:

PRI: Supply 230V~ +6% -10%
50-60Hz 30VA protected by PTC

+: Amplified door entrance panel supply
-: 9V c.c. 0,4A

+J: Sound circuit supply
-: Intercommunicating

C1: Call generator output with modulated tone.
C2: Call generator output with continuous tone.

0-15: Output 15V~ 1A (on intermittent operation) protected by PTC

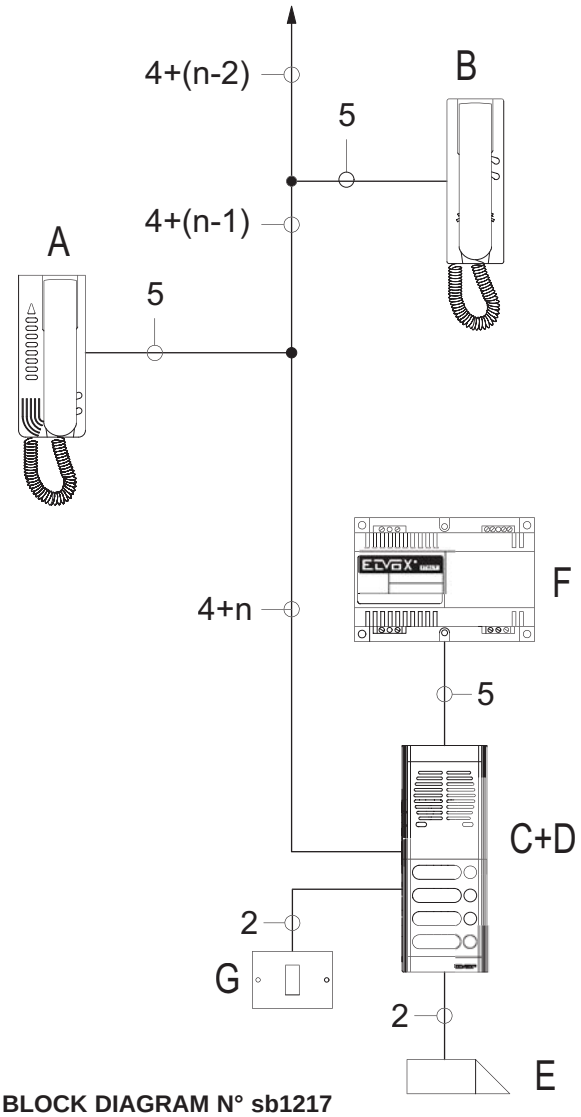
0-AS: Output 15V rectified 1A (on intermittent operation) Eliminates buzzing during conversations. Protected by PTC SIEMENS C945 or PTC PHILIPS 2322 644 51721

Maximum power: 30VA
Dissipated power: 8,5W

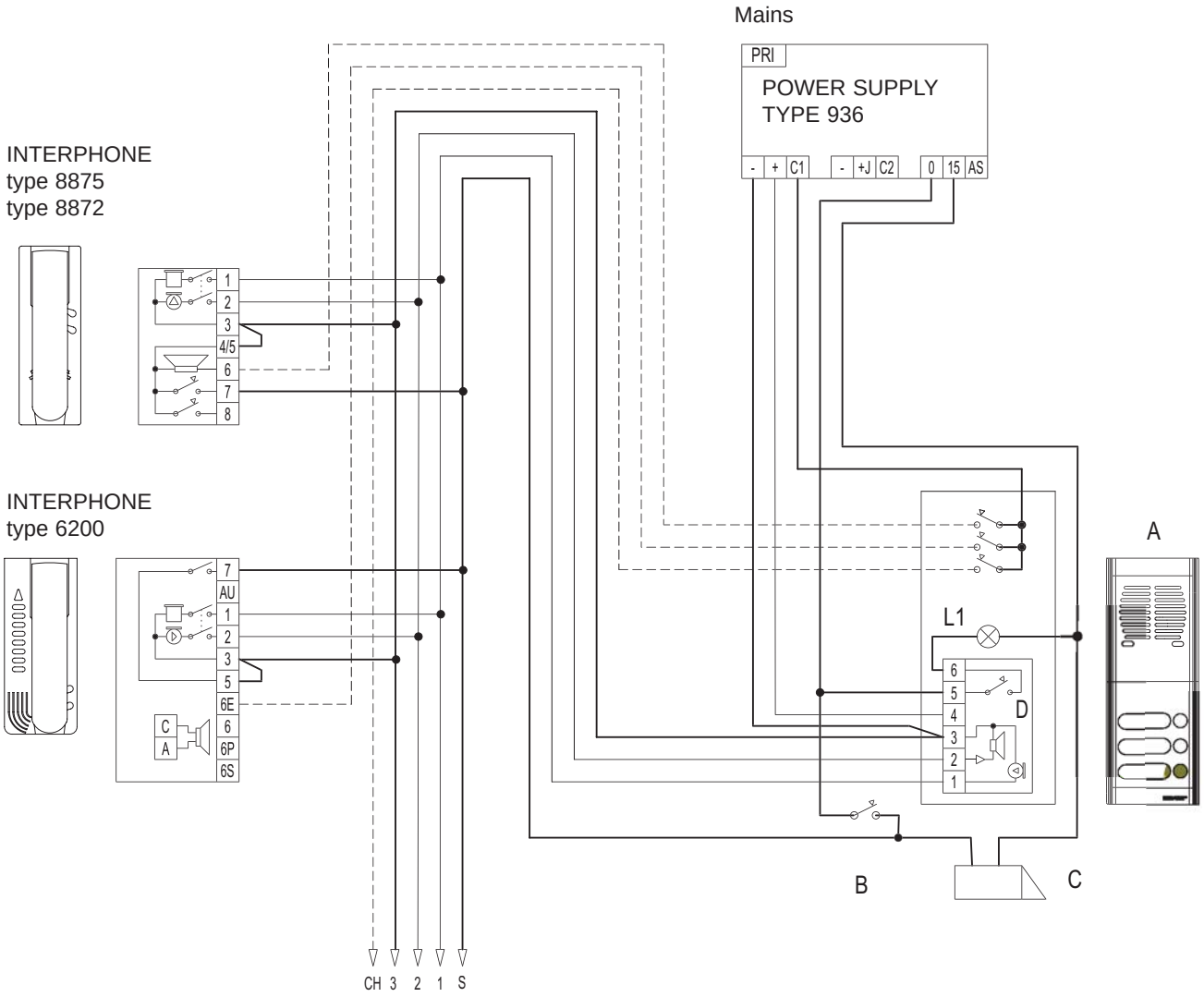
When using continuous duty 0-15 and 0-AS outputs, do not connect loads of over 0.25A.
Lighting of entrance panel:
type 931 powers a maximum of 3 24V 3 W bulbs
Transformer type M832 powers a maximum of 10 24V 3W bulbs;
Transformer type M832/030 powers a maximum of 16 24V 3W bulbs.

In the event of a short-circuit, the protection circuit (PTC) removes the mains voltage until the fault is rectified. After eliminating the short-circuit, it is necessary to wait for a few minutes to allow cooling of the protective device, so that the power supply may start normal operation again.

N. B. The system can be completed by adding other services. To do this, consult the variations on the standard connection for the various system components, on pages 80 to 86.



BLOCK DIAGRAM N° sb1217



A- Entrance panel series GALILEO, GALILEO SECURITY or PATAVIUM
B- Additional push-button for lock
C- Electric lock 12V~
D- Speech unit type 930/836 - 930F
L1- Panel bulb
(3x24V 3W max.)
10x24V 3W with type M832
16x24V 3W with type 832/030

N.B.
If a humming sound is detected on the phonic line reconnect the wire connected to the lock by terminal 15 to terminal AS inside the power supply.

DIAGRAM N° c2117

SYSTEM DESCRIPTION

Use power supply type 6837, which features a dual electronic tone generator which replaces the traditional alternating current call on a buzzer or bell. The sound signal has two different tones (on terminals P1-P2), enabling users to immediately identify which point is calling (main entrance, gate, garage, etc.). This solution also makes it possible to use a single loudspeaker built into the interphone itself to produce the sound. This power supply is ideal for installation in restructured systems and for the conversion of existing doorbell systems to door entry systems.
8-module power supply with housing in class V - 0 copolymer, suitable for DIN rail assembly on electric panels (omega rails) or wall-mounted with expansion plugs.
Power supply type 837/0CT may be used instead with the same characteristics plus option of connecting a 12V back-up battery.

OPERATING INSTRUCTIONS

When a caller presses a call push-button on the external entrance panel an acoustic signal is emitted, then the user can pick up the interphone and speak to the caller for as long as required. This installation does not allow conversation privacy.

LIST OF ARTICLES REQUIRED FOR INSTALLATION (Diagram Ref. C1975)

Diagram ref.	Type	Name	Quantity
A	6201	Interphone	n
B	8877	Interphone	n
C	series GALILEO SECURITY GALILEO, PATAVIUM and letter box	Entrance panel	1
D	930 - 930A	Speech unit	1
E	27/005 - 2/994	Diode strip	n
F	-	Electric lock 12V A.C.	1
G	-	Landing call push-button	1
H	6837 - 837/0CT	Power supply	1
n	-	Number of users	n

CONNECTIONS TO TERMINALS OF POWER SUPPLY:

PRI: Supply 230V~ +6% -10%
50-60Hz 30VA protected by PTC

3: Interphone common
P2: Call generator output with continuous tone. (landing call common).

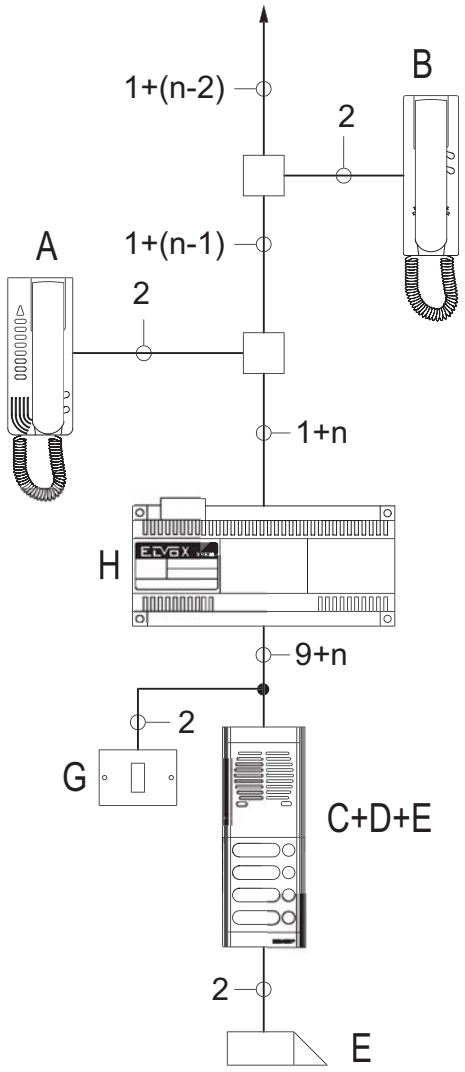
2: Audio polarization
5-8: Speech unit loudspeaker
6-7: Speech unit microinterphone
P1: Call generator output with modulated tone. (entrance panel call common)
S1: Lock supply
0-15: Output 15V~ 1A (on intermittent operation) protected by PTC

Maximum power: 30VA
Dissipated power: 8,5W

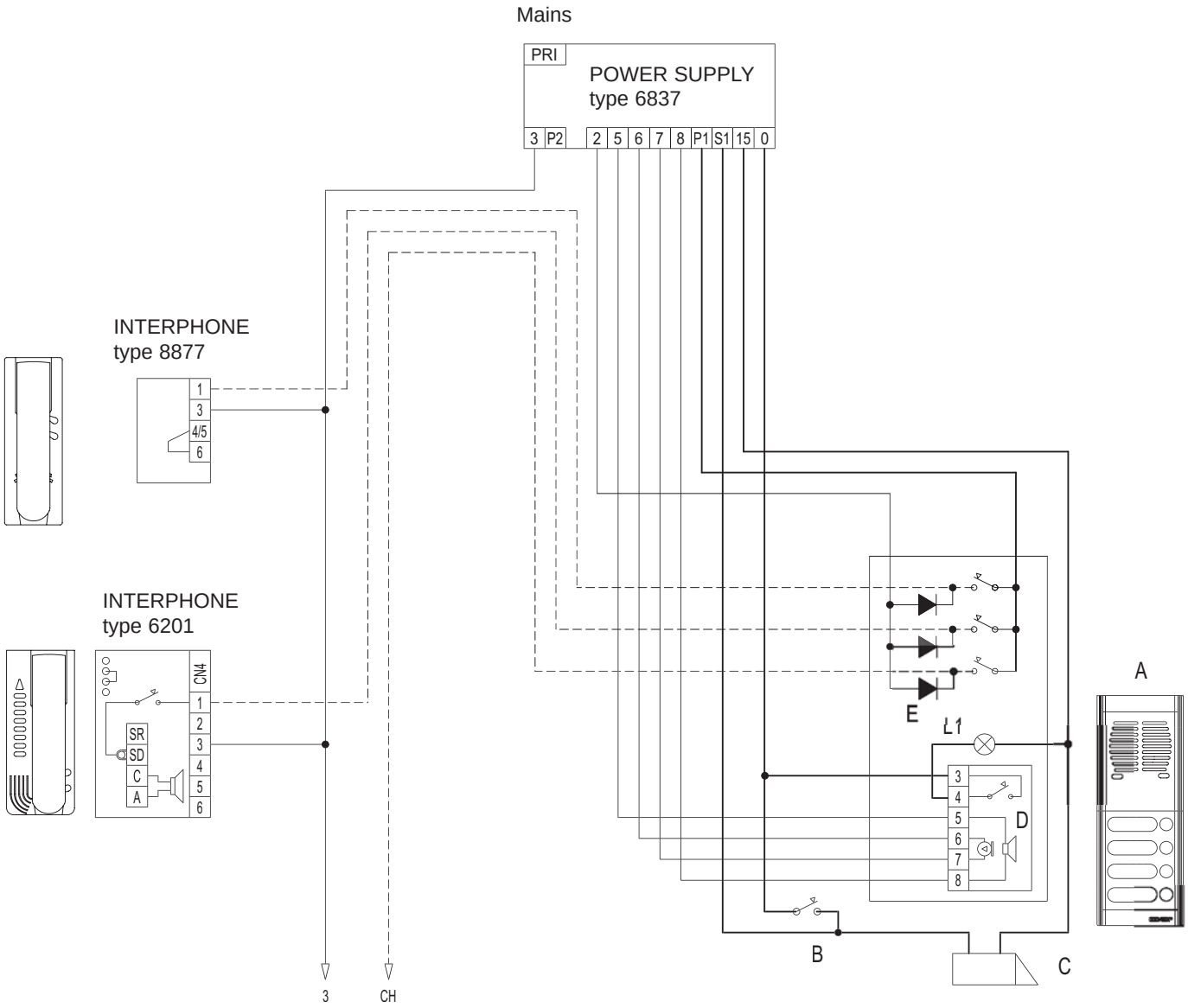
When using continuous duty 0-15 and 0-AS outputs, do not connect loads of over 0.25A.
Lighting of entrance panel:
type 931 powers a maximum of 3 24V 3 W bulbs
Transformer type M832 powers a maximum of 10 24V 3W bulbs;
Transformer type M832/030 powers a maximum of 16 24V 3W bulbs.

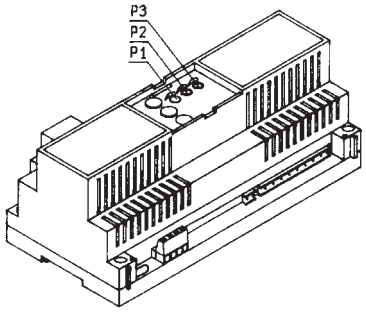
In the event of a short-circuit, the protection circuit (PTC) removes the mains voltage until the fault is rectified. After eliminating the short-circuit, it is necessary to wait for a few minutes to allow cooling of the protective device, so that the power supply may start normal operation again.

N. B. The system can be completed by adding other services. To do this, consult the variations on the standard connection for the various system components, on pages 80 to 86.



BLOCK DIAGRAM N° sb1218





A- Entrance panel
series GALILEO SECURITY, GALILEO, PATAVIUM and letter box
B- Additional push-button for lock
C- Electric lock 12V~
D- Speech unit type 930 - 930A
E- Diode strip type 27/005 - 2/994
L1- Panel bulb
(3x24V 3W max.)
10x24V 3W with type M832
16x24V 3W with type 832/030

ADJUSTMENTS

P1- Adjustment of lock activation point (preset during manufacturing)
P2- Volume adjustment of speech unit
P3- Adjustment of lock operation time

DIAGRAM N° c1975

"1+N WIRE" AUDIO DOOR ENTRY SYSTEM WITH POWER SUPPLY TYPE 6837 WITH CONVERSATION PRIVACY

SYSTEM DESCRIPTION

Use power supply type 6837, which features a dual electronic tone generator which replaces the traditional alternating current call on a buzzer or bell. The sound signal has two different tones (on terminals P1-P2), enabling users to immediately identify which point is calling (main entrance, gate, garage, etc.). This solution also makes it possible to use a single loudspeaker built into the interphone itself to produce the sound. This power supply is ideal for installation in restructured systems and for the conversion of existing doorbell systems to door entry systems.
8-module power supply with housing in class V - 0 copolymer, suitable for DIN rail assembly on electric panels (omega rails) or wall-mounted with expansion plugs. Power supply type 837/0CT may be used instead with the same characteristics plus option of connecting a 12V back-up battery.

OPERATING INSTRUCTIONS

When a caller presses a call push-button on the external entrance panel an acoustic signal is emitted, then the user can pick up the interphone and speak to the caller for as long as required. The installation is equipped with conversation privacy: only the called user is enabled to the conversation with the speech unit, while the other internal users remain excluded.

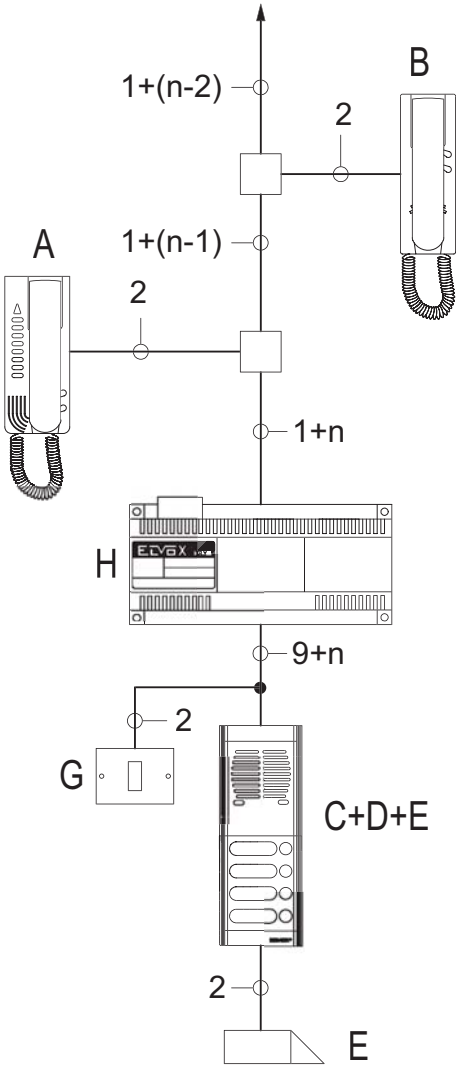
LIST OF ARTICLES REQUIRED FOR INSTALLATION (Diagram Ref. C1975)

Diagram ref.	Type	Name	Quantity
A	6201 + 7155	Interphone	n
B	8873	Interphone	n
C	series GALILEO SECURITY GALILEO, PATAVIUM and letter box	Entrance panel	1
D	930 - 930A	Speech unit	1
E	27/005 - 2/994	Diode strip	n
F	-	Electric lock 12V A.C.	1
G	-	Landing call push-button	1
H	6837 - 837/0CT	Power supply	1
n	-	Number of users	n

When using continuous duty 0-15 and 0-AS outputs, do not connect loads of over 0.25A.
Lighting of entrance panel:
type 931 powers a maximum of 3 24V 3 W bulbs
Transformer type M832 powers a maximum of 10 24V 3W bulbs;
Transformer type M832/030 powers a maximum of 16 24V 3W bulbs.

In the event of a short-circuit, the protection circuit (PTC) removes the mains voltage until the fault is rectified. After eliminating the short-circuit, it is necessary to wait for a few minutes to allow cooling of the protective device, so that the power supply may start normal operation again.

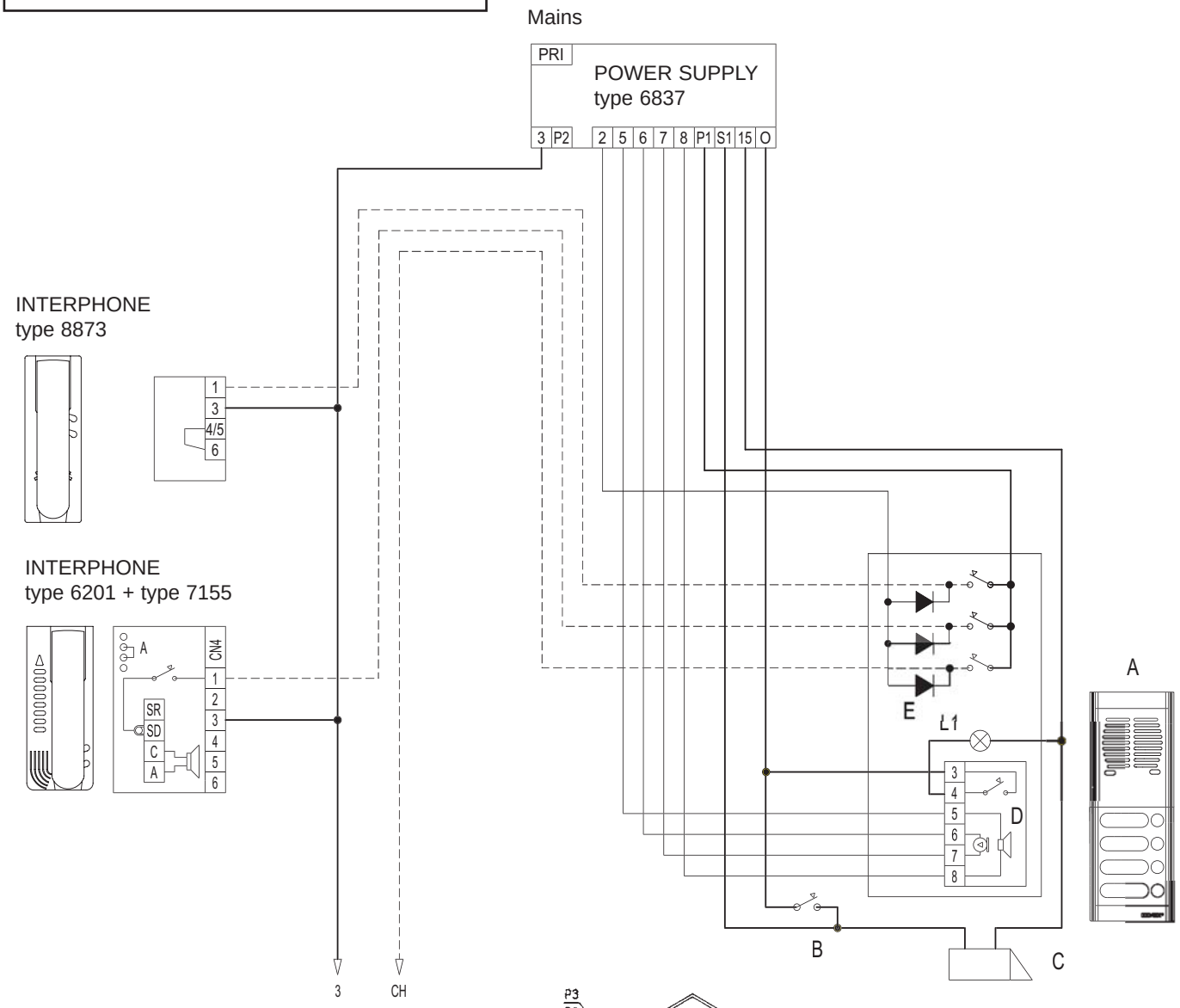
N. B. The system can be completed by adding other services. To do this, consult the variations on the standard connection for the various system components, on pages 80 to 86.

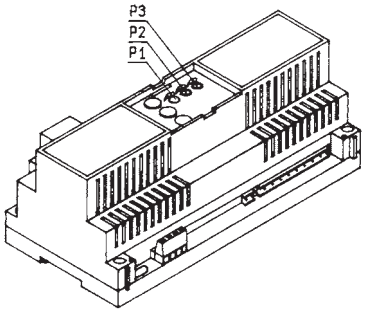


BLOCK DIAGRAM N° sb1218

On interphone type 6201 remove jumper "A" of connector "CN3" and fit card type 7155.
With card type 7155:
- Direct opening of lock: position the connector in position "SD".
- Opening of lock after call: move the connector from "SD" to "SR" in the interphone

Interphone type 8873 always opens the lock.





A- Entrance panel
series GALILEO SECURITY, GALILEO, PATAVIUM and letter box
B- Additional push-button for lock
C- Electric lock 12V~
D- Speech unit type 930 - 930A
E- Diode strip type 27/005 - 2/994
L1- Panel bulb
(3x24V 3W max.)
10x24V 3W with type M832
16x24V 3W with type 832/030

ADJUSTMENTS

P1- Adjustment of lock activation point (preset during manufacturing)
P2- Volume adjustment of speech unit
P3- Adjustment of lock operation time

DIAGRAM N° c4458

"1+n-WIRE" AUDIO DOOR ENTRY SYSTEM WITH SPEECH UNIT TYPE 930D, WITHOUT CONVERSATION PRIVACY

SYSTEM DESCRIPTION

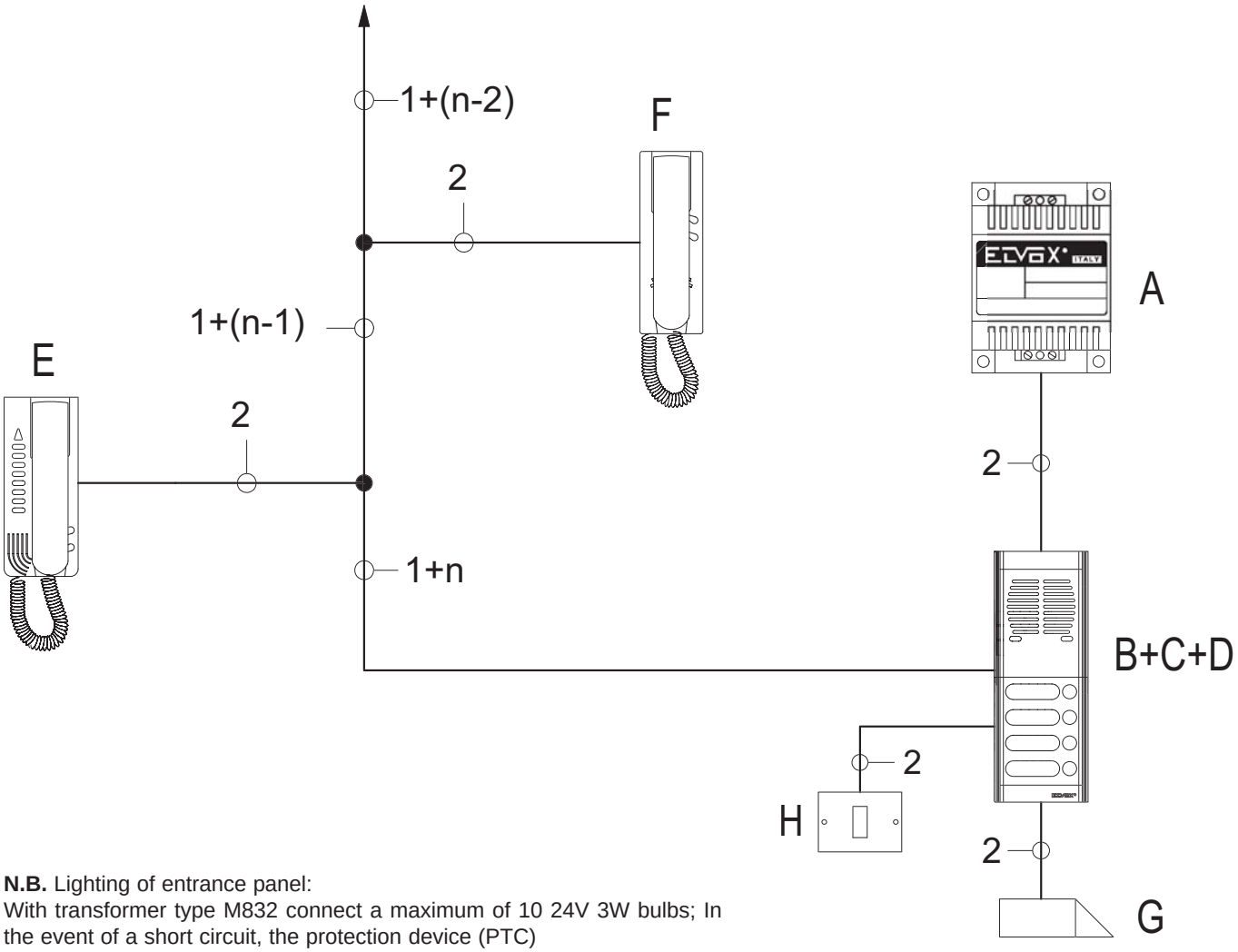
This type of system uses the speech unit type 930D, and is capable of generating a modulated electronic tone for the call from the speech unit: the interphones are equipped with a loudspeaker for amplifying the sound.
The power supply for the whole system is provided by means of a simple transformer.
The system is ideal for redevelopment or conversion of systems from a simple bell to an interphone because the connection of the cable riser is made with a single common wire, plus a return wire for each device. 4-module container in copolymer suitable for DIN rail assembly on electric panels (omega rails) or fixing with wall plugs.

OPERATING PRINCIPLE

When a push-button is pressed on the entrance panel, the interphone emits an acoustic signal: the user indoors can lift the interphone and converse without any time limit. This type of system does not allow conversation privacy. The activation time of the lock can be adjusted from 1 to 4 seconds by means of the trimmer (P1).

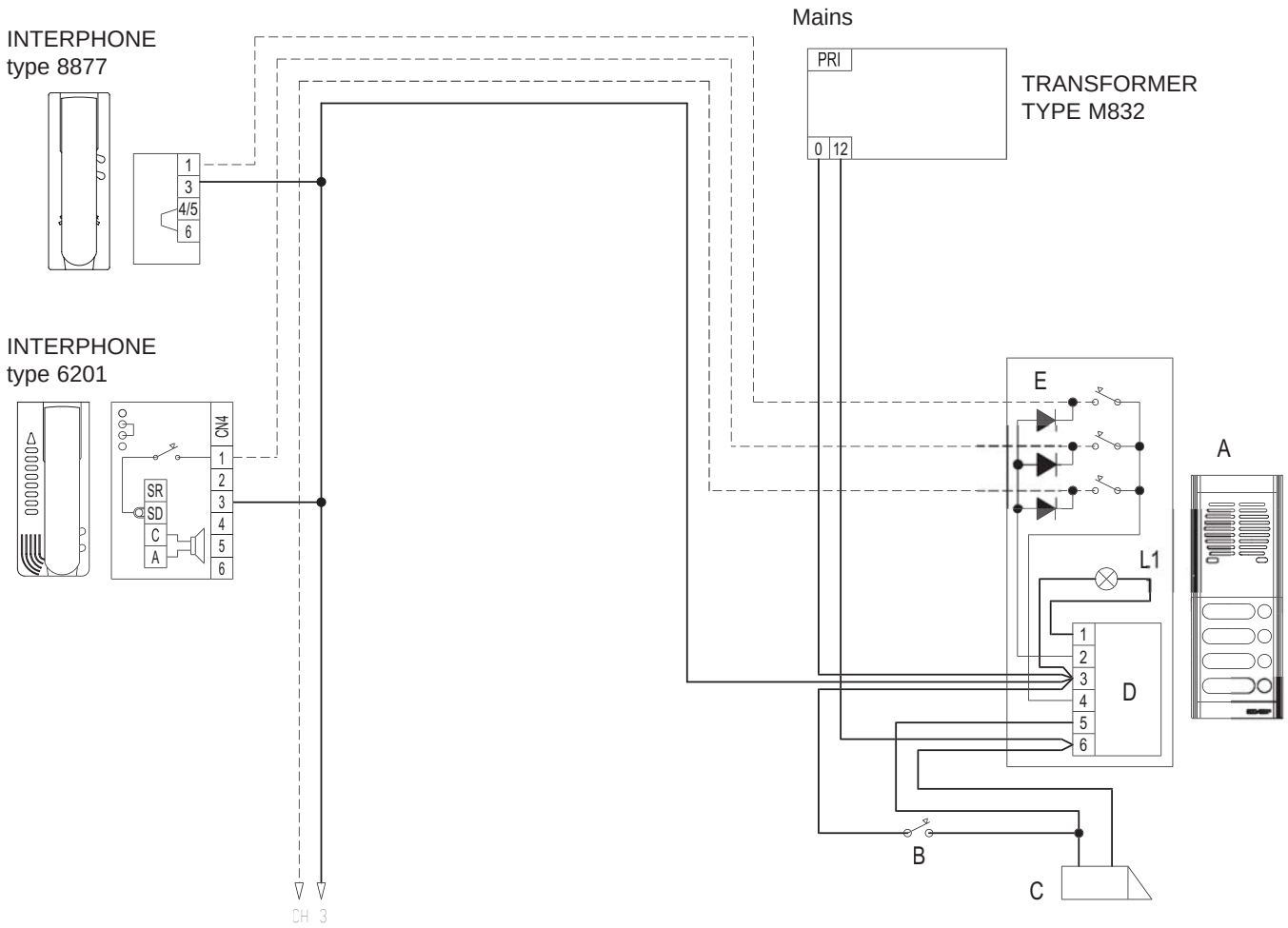
LIST OF ARTICLES REQUIRED FOR INSTALLATION (Diagram Ref. C2946)

Diagram ref.	Type	Name	Quantity
A	M832	Transformer	1
B	930D	Speech unit	1
C	series GALILEO SECURITY GALILEO, PATAVIUM or letter box	Entrance panel	1
D	27/005 - 2/994	Diode strip	n
E	6201	Interphone	n
F	8877	Interphone	n
G	-	Electric lock 12V A.C.	1
H	-	Additional push-button for lock	1
n	-	Number of users	n

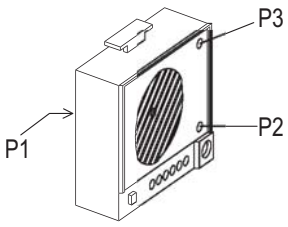


N.B. Lighting of entrance panel:
With transformer type M832 connect a maximum of 10 24V 3W bulbs; In the event of a short circuit, the protection device (PTC) switches off the mains voltage. Once the short circuit has been eliminated, wait for a few minutes to allow the protection device to cool down so that the unit can return to normal operation.

BLOCK DIAGRAM N° sb1219



type 930D



SETTINGS

P1- Lock timing setting (accessible from rear)
P2- External volume
P3- Internal volume

A- Entrance panel series GALILEO SECURITY, GALILEO, PATAVIUM or letter box
B- Additional push-button for lock
C- Electric lock 12V~
D- Speech unit type 930/037
E- Diode strip type 27/005 - 2/994
L1- Panel bulb 10x24V 3W with type M832

DIAGRAM N° c2946

"1+n-WIRE" AUDIO DOOR ENTRY SYSTEM WITH SPEECH UNIT TYPE 930D AND CONVERSATION PRIVACY

SYSTEM DESCRIPTION

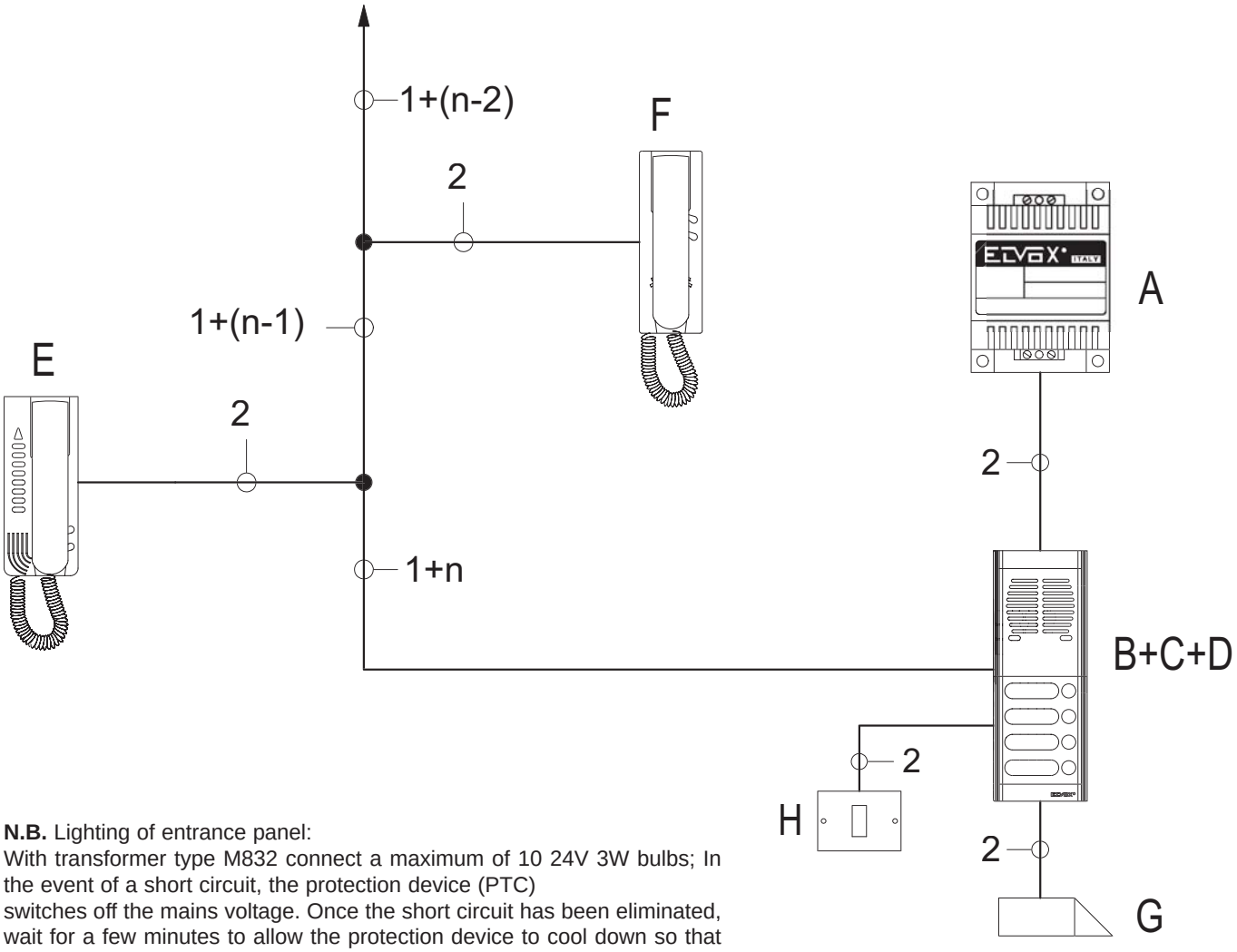
This type of unit makes use of the new speech unit (type 930D) which can generate a modulated electronic signal for a call from the outdoor unit; in this case, the interphones used are supplied with a loudspeaker for the transmission of the sound.
The overall connections are made using a simple transformer which supplies the whole system.
This type of system is particularly suitable for conversions of systems with a simple door bell to interphone since connection of the cable riser is made with a single common wire plus a return wire for each device. 4-module container in copolymer suitable for DIN rail assembly on electric panels (omega rails) or fixing with wall plugs.

OPERATING INSTRUCTIONS

When a visitor presses a push-button on the entrance panel, a sound signal is emitted on the interphone; the user within the building can lift the interphone and speak to the visitor without any time limit. This type of system allow conversation privacy. The period the lock is to be activated can be set at anything between 1 and 4 seconds using the special trimmer (P1).

LIST OF ARTICLES REQUIRED FOR INSTALLATION (Diagram Ref. C4459)

Diagram ref.	Type	Name	Quantity
A	M832	Transformer	1
B	930D	Speech unit	1
C	series GALILEO SECURITY		
	GALILEO, PATAVIUM or letter box	Entrance panel	1
D	27/005 - 2/994	Diode strip	n
E	6201	Interphone	n
F	7155	Card	n
G	8873	Interphone	n
H	-	Electric lock 12V A.C.	1
I	-	Additional push-button for lock	1
n	-	Number of users	n

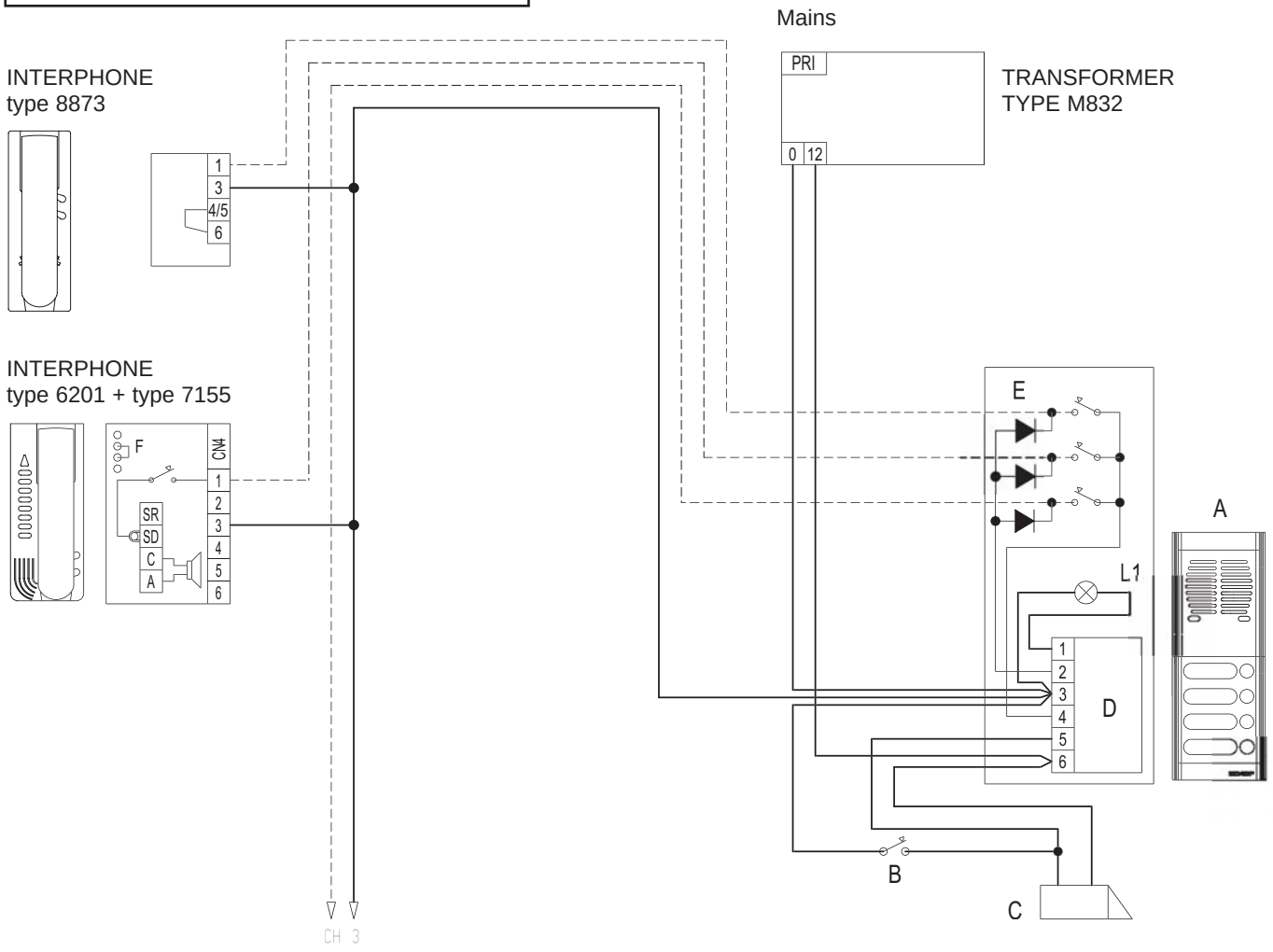


N.B. Lighting of entrance panel:
With transformer type M832 connect a maximum of 10 24V 3W bulbs; In the event of a short circuit, the protection device (PTC) switches off the mains voltage. Once the short circuit has been eliminated, wait for a few minutes to allow the protection device to cool down so that the unit can return to normal operation.

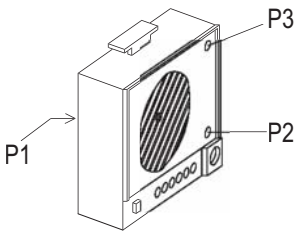
BLOCK DIAGRAM N° sb1219

On interphone type 6201 remove jumper "A" of connector "CN3" and fit card type 7155.
With card type 7155:
- Direct opening of lock: position the connector in position "SD".
- Opening of lock after call: move the connector from "SD" to "SR" in the interphone

Interphone type 8873 always opens the lock.



type 930D



SETTINGS

P1- Lock timing setting (accessible from rear)
P2- External volume
P3- Internal volume

A- Entrance panel series GALILEO SECURITY, GALILEO, PATAVIUM or letter box
B- Additional push-button for lock
C- Electric lock 12V~
D- Speech unit type 930/037
E- Diode strip type 27/005 - 2/994
F- Card for conversation privacy type 7155
L1- Panel bulb 10x24V 3W with type M832

DIAGRAM N° c4459

"1+n-WIRE" AUDIO DOOR ENTRY SYSTEM WITH POWER SUPPLY TYPE 6837 AND TWO SPEECH UNITS WITHOUT CONVERSATION PRIVACY

SYSTEM DESCRIPTION

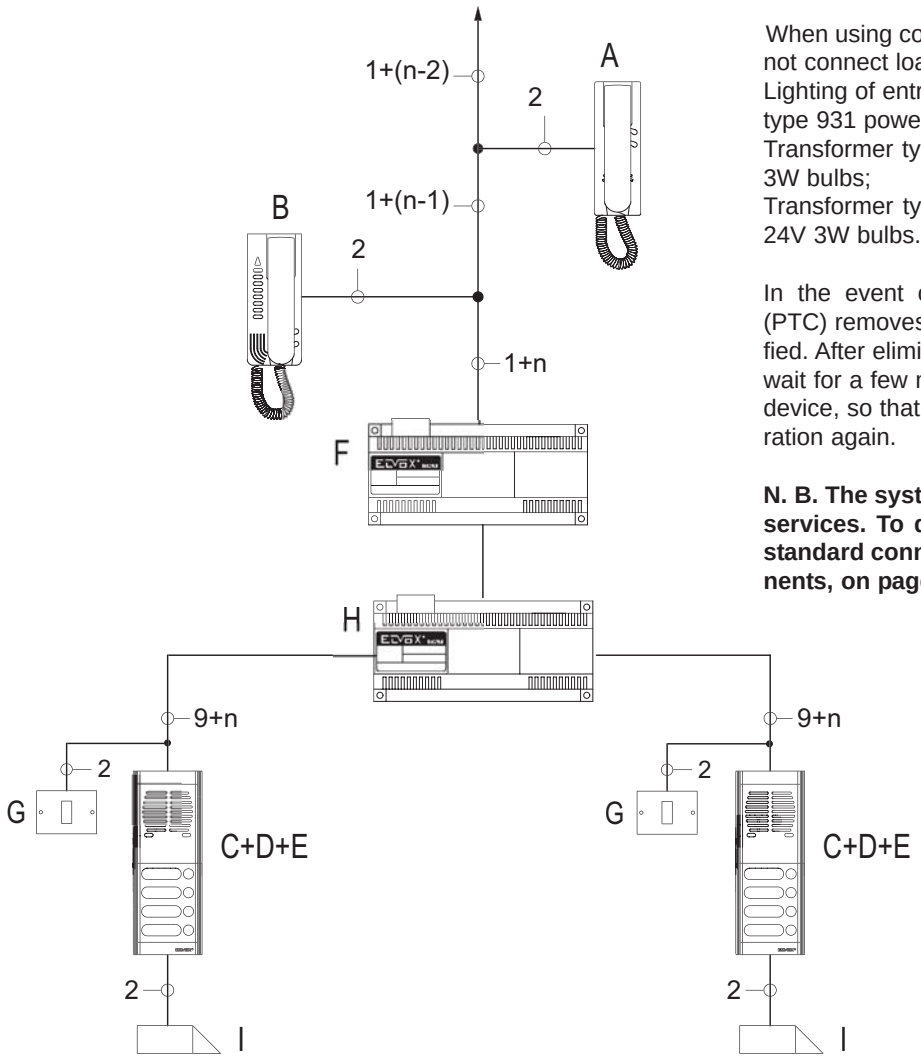
Use power supply type 6837, which features a dual electronic tone generator which replaces the traditional alternating current call on a buzzer or bell. The sound signal has two different tones (on terminals P1-P2), enabling users to immediately identify which point is calling (main entrance, gate, garage, etc.). This solution also makes it possible to use a single loudspeaker built into the interphone itself to produce the sound.
8-module power supply with housing in class V - 0 copolymer, suitable for DIN rail assembly on electric panels (omega rails) or wall-mounted with expansion plugs. Power supply type 837/0CT may be used instead with the same characteristics plus option of connecting a 12V back-up battery.

OPERATING PRINCIPLE

When a caller presses a call push-button on an entrance panel, the audio and the door lock release functions of the calling panel are enabled. The operation of the other entrance panel is excluded and the last call has the priority over all preceding calls. It is possible to lift the handset and to speak without any time limits. This installation is without conversation privacy; all the system characteristics in relation to the basic diagram remain unchanged.

LIST OF ARTICLES REQUIRED FOR INSTALLATION (Diagram ref. C2813)

Diagram Ref.	Type	Name	Quantity
A	8877	Interphone	n
B	6201	Interphone	n
C	series GALILEO, GALILEO SECURITY PATAVIUM or letter box	Entrance panel	2
D	930 - 930A	Speech unit	2
E	27/005 - 2/994	Diode strip	n
F	6837 o 837/0CT	Power supply	1
G	-	Landing call push-button	2
H	839/837	Switching module	1
I	-	Electric lock 12V A.C.	2
n	-	Number of users	n

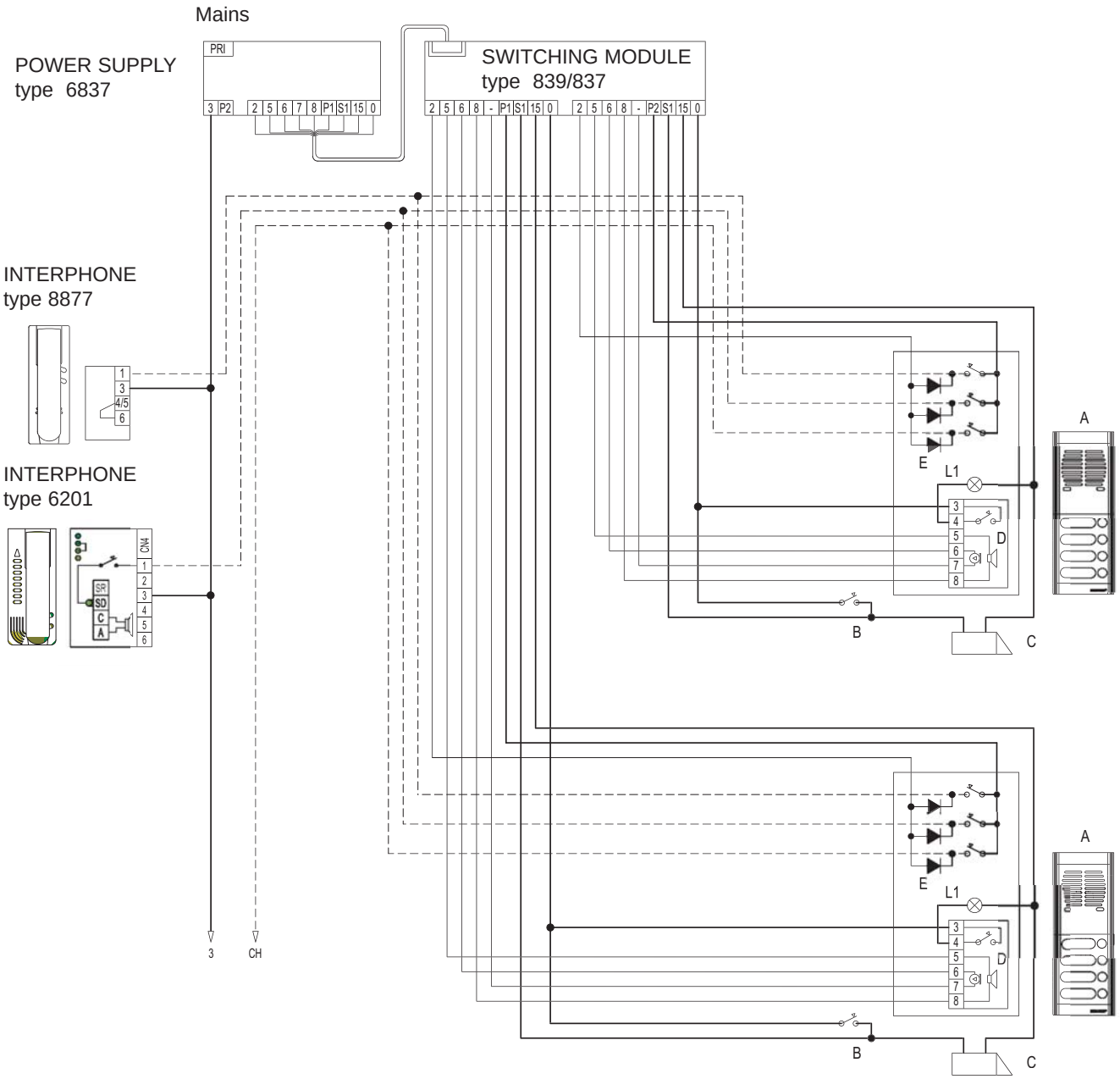


When using continuous duty 0-15 and 0-AS outputs, do not connect loads of over 0.25A.
Lighting of entrance panel:
type 931 powers a maximum of 3 24V 3 W bulbs
Transformer type M832 powers a maximum of 10 24V 3W bulbs;
Transformer type M832/030 powers a maximum of 16 24V 3W bulbs.

In the event of a short-circuit, the protection circuit (PTC) removes the mains voltage until the fault is rectified. After eliminating the short-circuit, it is necessary to wait for a few minutes to allow cooling of the protective device, so that the power supply may start normal operation again.

N. B. The system can be completed by adding other services. To do this, consult the variations on the standard connection for the various system components, on pages 80 to 86.

BLOCK DIAGRAM N° sb1220



A- Entrance panel series GALILEO SECURITY
GALILEO, PATAVIUM and letter box
B- Additional push-button for lock
C- Electric lock 12V~
D- Speech unit type 930 o 930A
E- Diode strip type 27/005 - 2/994
L1- Panel bulb
(3x24V 3W max.)
10x24V 3W with type M832
16x24V 3W with type 832/030

DIAGRAM N° c2813

"1+n-WIRE" AUDIO DOOR ENTRY SYSTEM WITH POWER SUPPLY TYPE 6837 AND TWO OUTDOOR UNITS AND CONVERSATION PRIVACY

SYSTEM DESCRIPTION

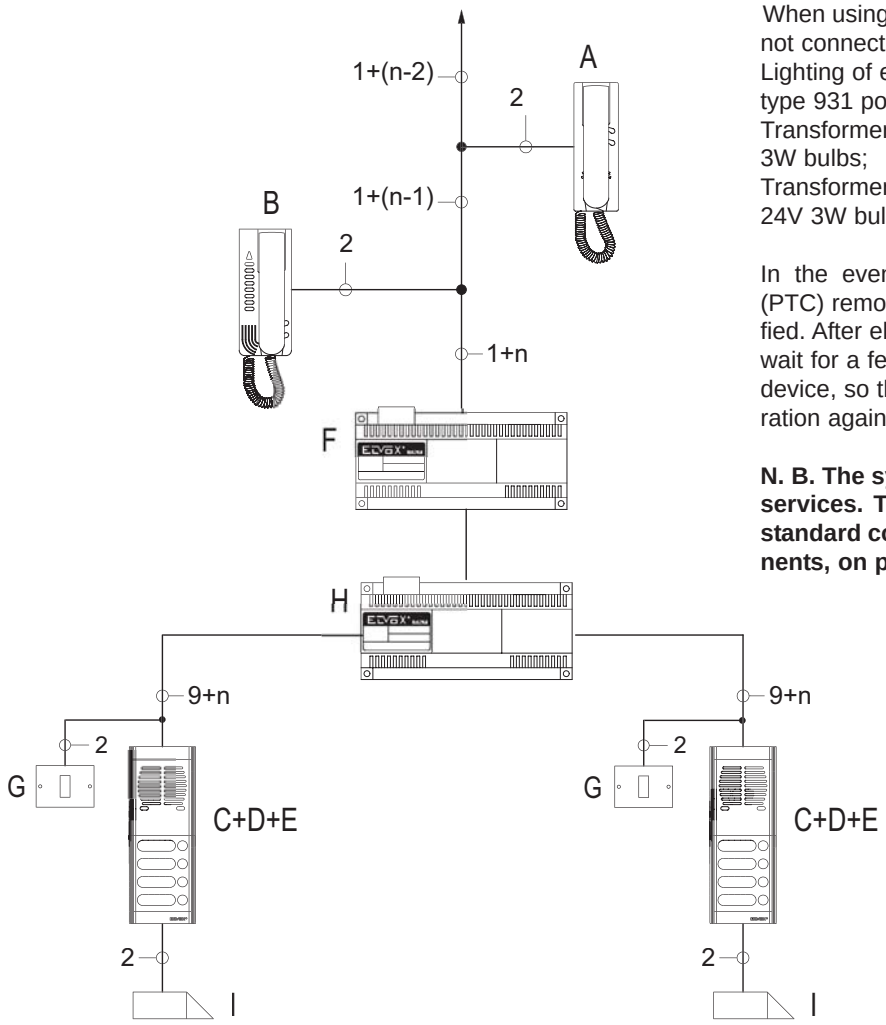
Use power supply type 6837, which features a dual electronic tone generator which replaces the traditional alternating current call on a buzzer or bell. The sound signal has two different tones (on terminals P1-P2), enabling users to immediately identify which point is calling (main entrance, gate, garage, etc.). This solution also makes it possible to use a single loudspeaker built into the interphone itself to produce the sound.
8-module power supply with housing in class V - 0 copolymer, suitable for DIN rail assembly on electric panels (omega rails) or wall-mounted with expansion plugs. Power supply type 837/0CT may be used instead with the same characteristics plus option of connecting a 12V back-up battery.

OPERATING PRINCIPLE

When a caller presses a call push-button on an entrance panel, the audio and the door lock release functions of the calling panel are enabled. The operation of the other entrance panel is excluded and the last call has the priority over all preceding calls. It is possible to lift the handset and to speak without any time limits. This installation is without conversation privacy; all the system characteristics in relation to the basic diagram remain unchanged.

LIST OF ARTICLES REQUIRED FOR INSTALLATION (Diagram ref. C4513)

Diagram Ref.	Type	Name	Quantity
A	8873	Interphone	n
B	6201 + 7155	Interphone	n
C	series GALILEO, GALILEO SECURITY PATAVIUM or letter box	Entrance panel	2
D	930 - 930A	Speech unit	2
E	27/005 - 2/994	Diode strip	n
F	6837 or 837/0CT	Power supply	1
G	-	Landing call push-button	2
H	839/837	Switching module	1
I	-	Electric lock 12V A.C.	2
n	-	Number of users	n

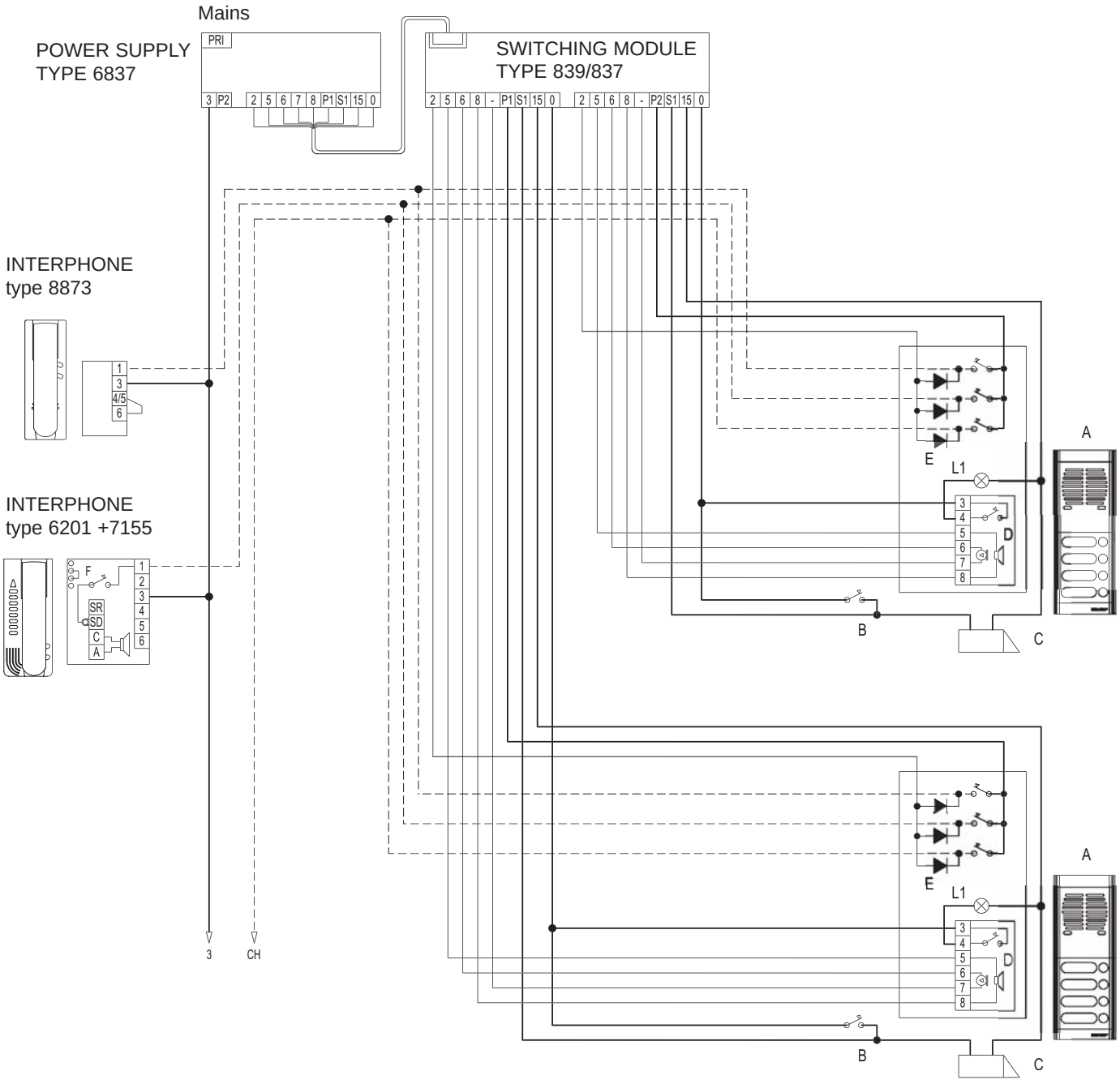


When using continuous duty 0-15 and 0-AS outputs, do not connect loads of over 0.25A.
Lighting of entrance panel:
type 931 powers a maximum of 3 24V 3 W bulbs
Transformer type M832 powers a maximum of 10 24V 3W bulbs;
Transformer type M832/030 powers a maximum of 16 24V 3W bulbs.

In the event of a short-circuit, the protection circuit (PTC) removes the mains voltage until the fault is rectified. After eliminating the short-circuit, it is necessary to wait for a few minutes to allow cooling of the protective device, so that the power supply may start normal operation again.

N. B. The system can be completed by adding other services. To do this, consult the variations on the standard connection for the various system components, on pages 80 to 86.

BLOCK DIAGRAM N° sb1220



A- Entrance panel series GALILEO SECURITY GALILEO, PATAVIUM and letter box
B- Additional push-button for lock
C- Electric lock 12V~
D- Speech unit type 930 o 930A
E- Diode strip type 27/005 - 2/994
F- Card for conversation privacy type 7155
L1- Panel bulb
(3x24V 3W max.)
10x24V 3W with type M832
16x24V 3W with type 832/030

On interphone type 6201 remove jumper "A" of connector "CN3" and fit card type 7155.
With card type 7155:
- Direct opening of lock: position the connector in position "SD".
- Opening of lock after call: move the connector from "SD" to "SR" in the interphone

Interphone type 8873 always opens the lock.

DIAGRAM N° c4513

AUDIO DOOR ENTRY SYSTEM WITH PETRARCA SERIES INTERCOMMUNICATING INTERPHONES

SYSTEM DESCRIPTION

The power supply used is type 938A, for intercommunicating systems with single or multiple residence speech unit. It is equipped with a triple electronic ringtone generator (Sound System) which replaces the conventional AC call on a buzzer or bell. The sound signal has 3 different tones, allowing immediate identification of the point from which the call is made (call from speech unit, landing call, intercommunicating call). The sound is emitted by a single loudspeaker inside the interphone. 8-module container in class V - 0 copolymer suitable for DIN rail assembly on electric panels (omega rails) or fixing with wall plugs.

OPERATING PRINCIPLE

When the external ringtone sounds, lift the interphone and communicate directly with the speech unit. About 9 minutes after the start of the conversation, an electronic device restores the interphones to the internal position and it is therefore necessary to make a second call to converse again with the speech unit. To hold an internal conversation, first lift the interphone and then press the push-button for the interphone with which you want to communicate; the speech unit thus remains disconnected. If, during the course of an external conversation, you want to make a call to an internal user, simply press the push-button for the internal unit; the speech unit is thus disabled. If an external ringtone is received during a conversation between internal interphones, to communicate with the external unit it is necessary to replace both interphones and then pick up your interphone.

LIST OF SYSTEM COMPONENTS (Diagram ref. C3028)

Diagram ref.	type	Denomination	Quantity
A	6200 + 6152	Interphone	2÷8
B	938A	Power supply	1
C	GALILEO SECURITY, GALILEO, PATAVIUM or letter box series	Entrance panel	1
D	930 or 930A	Speech unit	1
E	-	Electric lock 12V AC	1
F	-	Additional door lock push-button	1
m	-	Number of intercommunicating interphones	2÷8
n	-	Number of calls from entrance panel	1÷8

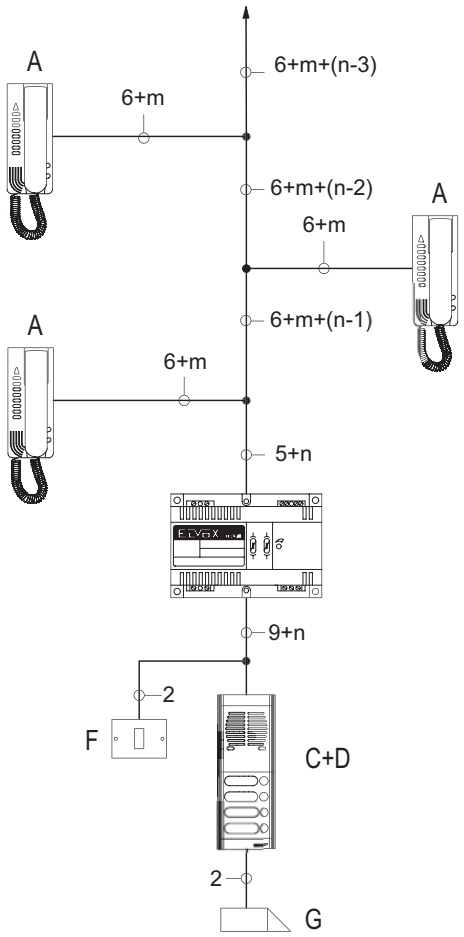
CONNECTIONS TO THE TERMINALS OF THE POWER SUPPLY:

PRI: power supply 230V~ +6% -10%
50-60Hz 30VA protected by PTC
1: Interphone receiver
2: Interphone microphone
3-: Common interphone receiver and microphone
6: Common speech unit microphone/loudspeaker
7: Microphone for speech unit
8: Speech unit loudspeaker
AA: Self-start of speech unit
C1: Call tone generator output with modulated tone.
C2: Call tone generator with continuous tone.
C3: Call tone generator output with intermittent tone.
CT: Call signal on speech unit
0-15: 15V~ 1A output (with intermittent service) protected by PTC
0-AS: Output 15V rectified 1A (with intermittent service) protected by PTC
Maximum power 30VA

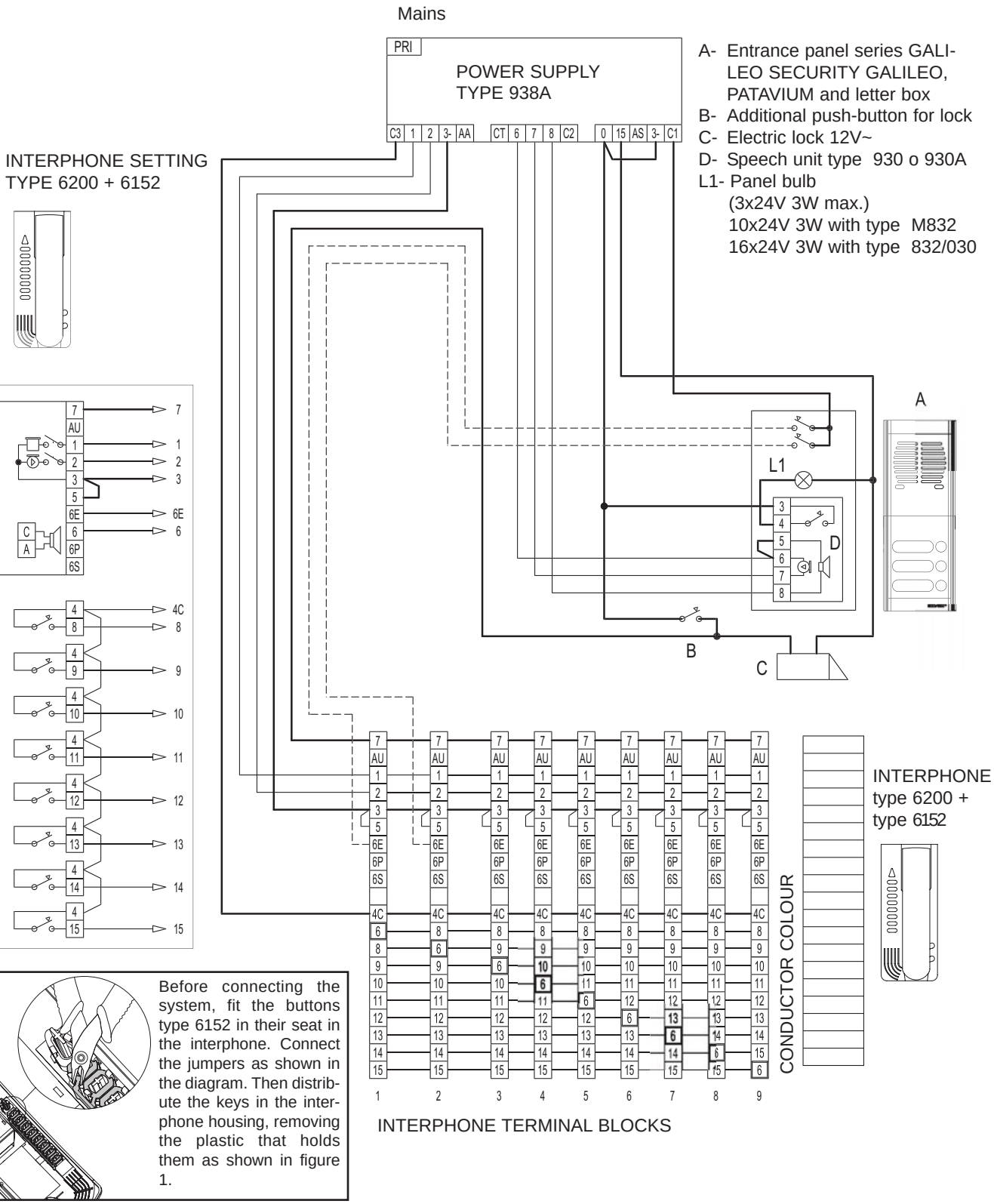
Dissipated power 8.5W
Outputs 0-15 or 0-AS do not support loads with continuous absorption of more than 0.25 A.
Lighting of entrance panel:
With power supply type 931, connect a maximum of 3 24V 3 W bulbs
With transformer type M832 connect a maximum of 10 24V 3W bulbs;
With transformer type M832/030 connect a maximum of 16 24V 3W bulbs.

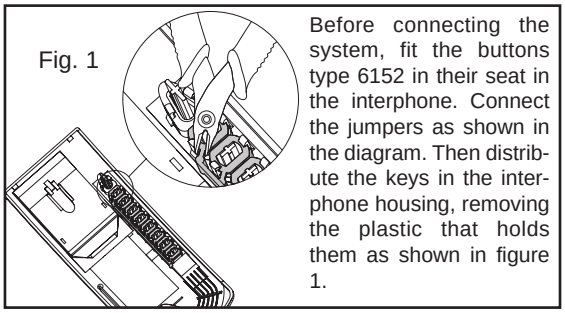
In the event of a short circuit, the protection devices (PTC) switch off the mains voltage. Once the short circuit has been eliminated, wait for a few minutes to allow the protection device to cool down so that the unit can return to normal operation.

N. B. The system can be completed by adding other services. To do this, consult the variations on the basic connection relating to the various components of the system, on pages 80 to 86.



BLOCK DIAGRAM N° sb1221





Before connecting the system, fit the buttons type 6152 in their seat in the interphone. Connect the jumpers as shown in the diagram. Then distribute the keys in the interphone housing, removing the plastic that holds them as shown in figure 1.

CONNECTION INSTRUCTIONS

The wiring diagram indicates the connections required for the maximum number of interphones. If you do not wish to connect all the interphones, follow the instructions indicated below. To connect three interphones, use units Art 6200 supplied with 4 buttons, two of which control the supplementary functions. The first push-button (terminal 7) controls the door lock release function. The second push-button (terminal 8) controls the auxiliary services. The two supplementary buttons are connected to terminals 9-10 and control intercommunicating calls. It is therefore necessary to connect terminals 1 to 10 on the first three terminal boards.

N.B.

If a humming sound is detected on the phonic line reconnect the wire connected to the lock by terminal 15 to terminal AS inside the power supply.

DIAGRAM N° c3028

INTERCOMMUNICATING INTERPHONE SYSTEM WITHOUT CONVERSATION PRIVACY

SYSTEM DESCRIPTION

The power supply used is type 936. It is possible to execute systems with a network of interphones intercommunicating with each other. In this type of system one of the two electronic tones at the disposal of the power supply is used for intercommunicating calls: terminal C1 or C2.

OPERATING PRINCIPLE

To call another interphone, lift the interphone and then press the push-button for the interphone with which you want to communicate.

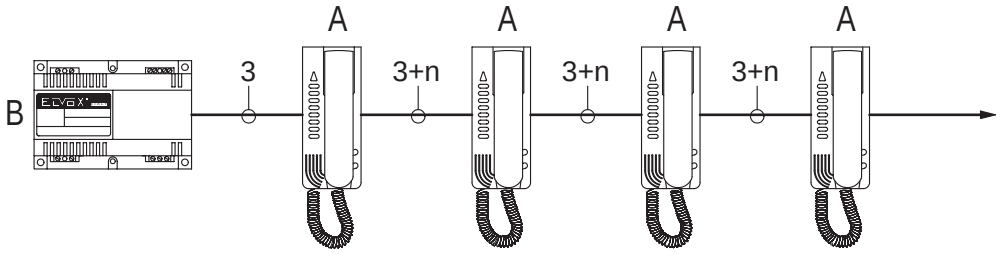
LIST OF SYSTEM COMPONENTS (Diagram ref. ci3029)

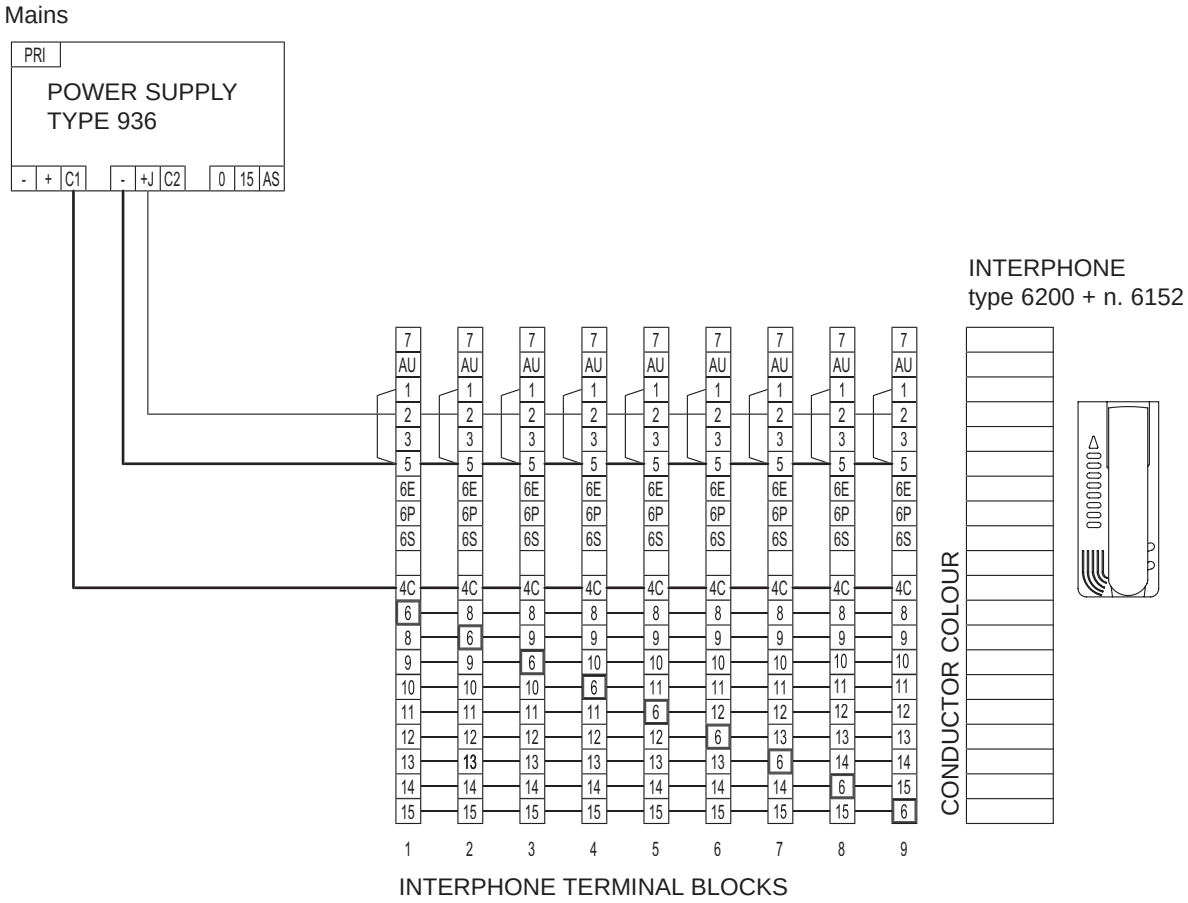
Diagram ref.	type	Denomination	Quantity
A	6200+6152	Interphone	2÷8
B	936	Power supply	1
n	-	Number of users	n

In the event of a short circuit, the protection devices (PTC) switch off the mains voltage. Once the short circuit has been eliminated, wait for a few minutes to allow the protection device to cool down so that the unit can return to normal operation.

N.B. The system can be completed by adding other services. To do this, consult the variations on the standard wiring diagram relating to the various components of the system, on pages 80 to 86.

BLOCK DIAGRAM N° sb1223





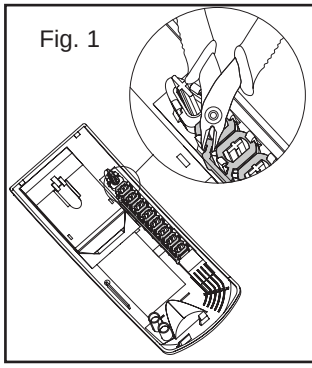
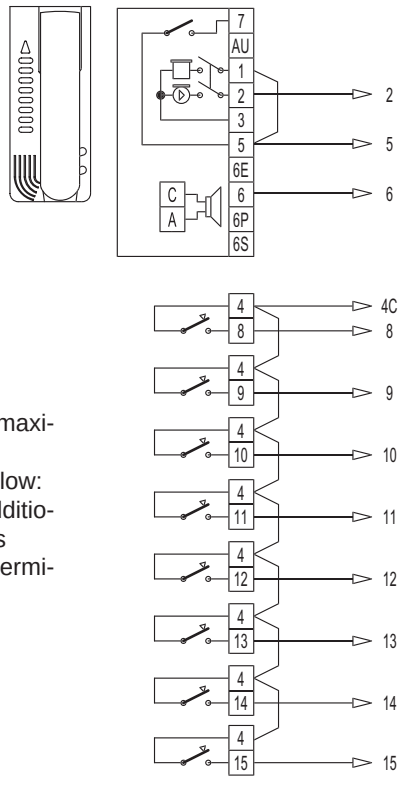


Fig. 1

Before connecting the system, fit the buttons type 6152 in their seat in the interphone. Connect the jumpers as shown in the diagram. Then distribute the keys in the interphone housing, removing the plastic that holds them as shown in figure 1.

INTERPHONE SETTING
type 6200 + 6152



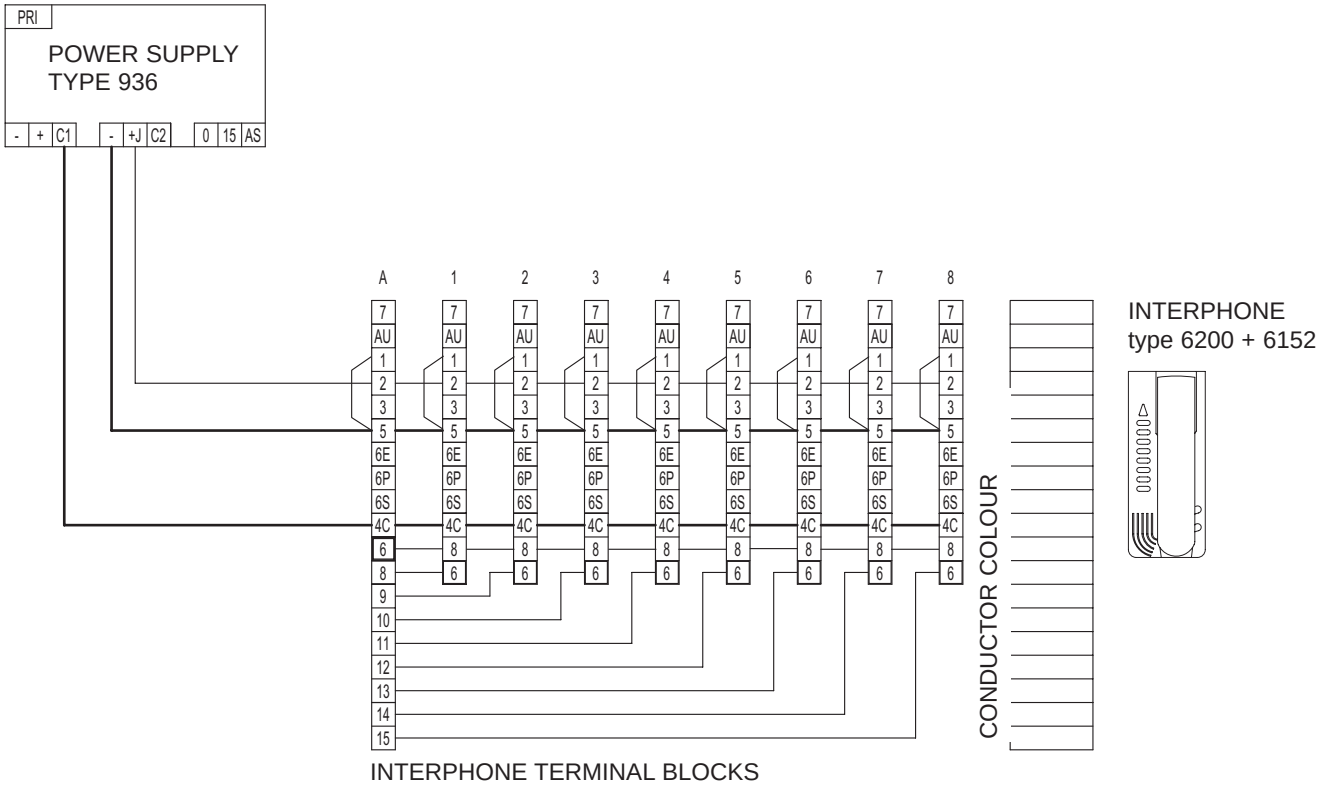
CONNECTION INSTRUCTIONS

The diagram illustrates the connection of 8 interphones, which is the maximum number allowed in a system of this type .
To connect a smaller number of interphones, proceed as described below:
With four interphones, uses devices with three buttons (6200 plus 3 additional buttons). Terminals 1, 5, 2 and 4C are for the common connections from the power supply. Terminal 6 is the ringtone (loudspeaker) and terminals 8, 9, and 10 are the 3 call buttons.
Connect the terminals from 1 to 10 as shown in the diagram.
Type 6200 is supplied as standard with a door lock control button.
In this system, this push-button is not used.

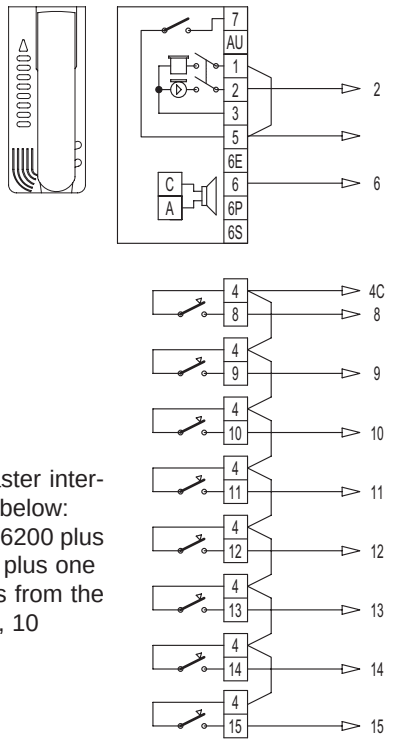
DIAGRAM N° ci3029

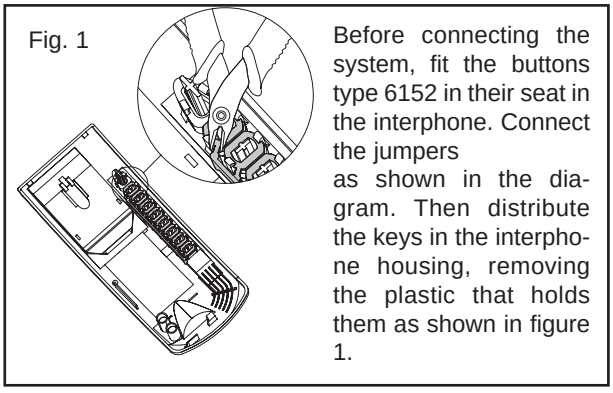
SYSTEM WITH PETRARCA INTERCOMMUNICATING INTERPHONES WITHOUT CONVERSATION PRIVACY, ONE MASTER INTERPHONE AND SUBMASTER INTERPHONES

Mains



INTERPHONE SETTING
type 6200 + n. 6152





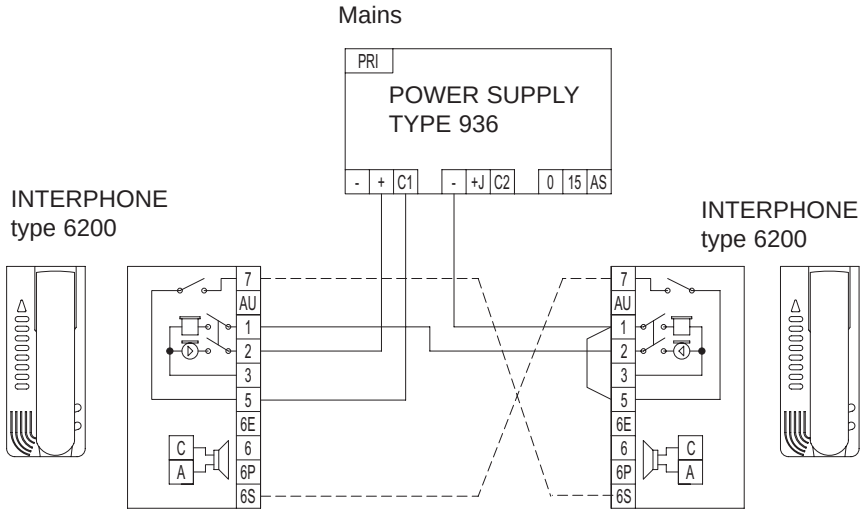
Before connecting the system, fit the buttons type 6152 in their seat in the interphone. Connect the jumpers as shown in the diagram. Then distribute the keys in the interphone housing, removing the plastic that holds them as shown in figure 1.

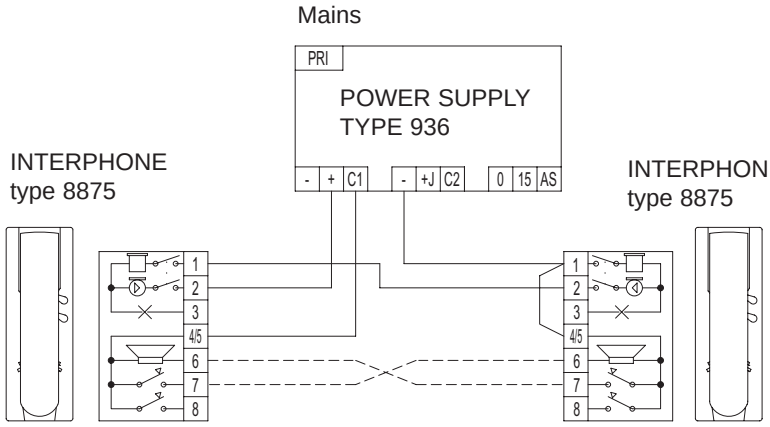
CONNECTION INSTRUCTIONS

The diagram illustrates the connection of a master interphone with 8 submaster interphones. To connect a smaller number of interphones, proceed as described below:
With three submaster interphones, use the master device with three buttons (6200 plus 3 additional buttons) and the secondary devices with one push-button (6200 plus one additional button). Terminals 1, 5, 2 and 4C are for the common connections from the power supply. Terminal 6 is for the ringtone (loudspeaker) and terminals 8, 9, 10 are for the three call buttons.
Connect the terminals as shown in the diagram, from 1 to 10.
type 6200 is supplied as standard with a door lock control button.
In this system, this push-button is not used.

DIAGRAM N° ci3755

CONNECTION INSTRUCTIONS
The devices must be connected as shown in the diagram.





CONNECTION INSTRUCTIONS
On the two interphones type 8875, pull out (or cut) the red wire connecting the interphone to the interphone circuit.

DIAGRAM N° ci3131-1

AUDIO DOOR ENTRY SYSTEM WITH INDEPENDENT INTERCOMMUNICATING NETWORKS WITH PETRARCA SERIES INTERPHONES

SYSTEM DESCRIPTION

The power supply used is type 931; it is equipped with a double electronic tone generator (Sound System) which replaces the conventional AC call on a buzzer or bell. The acoustic signal has two different tones (present at terminals C1-C2) for immediate identification of the point from which the call is made (main entrance, gate, garage, etc.);
the sound is emitted by a single loudspeaker built into the interphone. In each apartment it is possible to add a switching module type 935A, which serves to maintain conversation privacy towards users in other apartments with networks of intercommunicating or non-intercommunicating interphones.

OPERATING PRINCIPLE

When the external ringtone sounds, lift the interphone and communicate directly with the speech unit. After about 60" from the start of the conversation, an electronic device restores the interphones to the internal position and it is therefore necessary to make a second call to converse again. To hold an internal conversation, first lift the interphone and then
press the push-button for the interphone with which you want to communicate; the speech unit thus remains disconnected. If, during the course of an external conversation, you want to make a call to an internal user, simply press the push-button for the internal unit. The diagram shows the connection of several intercommunicating networks in the same system: each user can thus intercommunicate freely with the devices in their own apartment, while maintaining absolute conversation privacy both towards the speech unit and the users in the other households. Several intercommunicating conversations can take place simultaneously in different apartments or, while intercommunicating conversations are in progress, other users in the same building can communicate without interference with the speech unit.

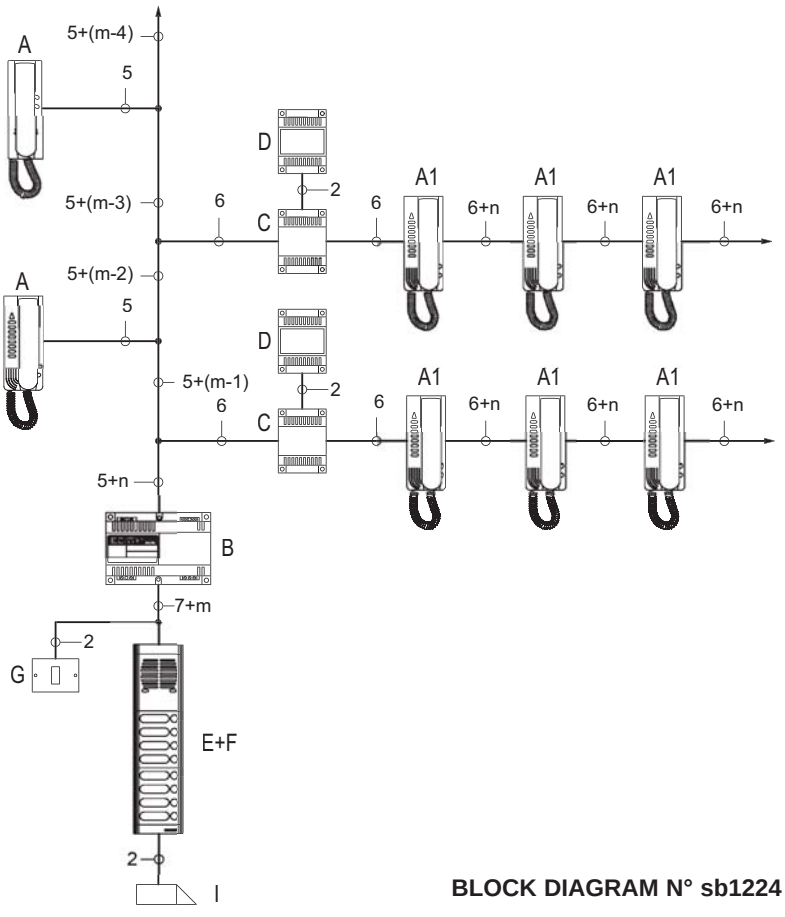
LIST OF SYSTEM COMPONENTS (diagram ref. CI3244)

Diagram ref.	type	Denomination	Quantity
A	8875, 6200, 8872	Non-intercommunicating interphone	1÷n
A1	6200 + 6152	intercommunicating interphone	2÷8
B	931	power supply	1
C	935A	Switching module	1
D	832/030	Transformer	1
E	GALILEO SECURITY, GALILEO and PATAVIUM series	Entrance panel	1
F	930 - 930A	Speech unit	1
I	-	Electric lock 12V AC	1
G	-	Additional door lock push-button	1
m	-	Number of calls from entrance panel	n
n	-	Number of intercommunicating interphones	2÷8

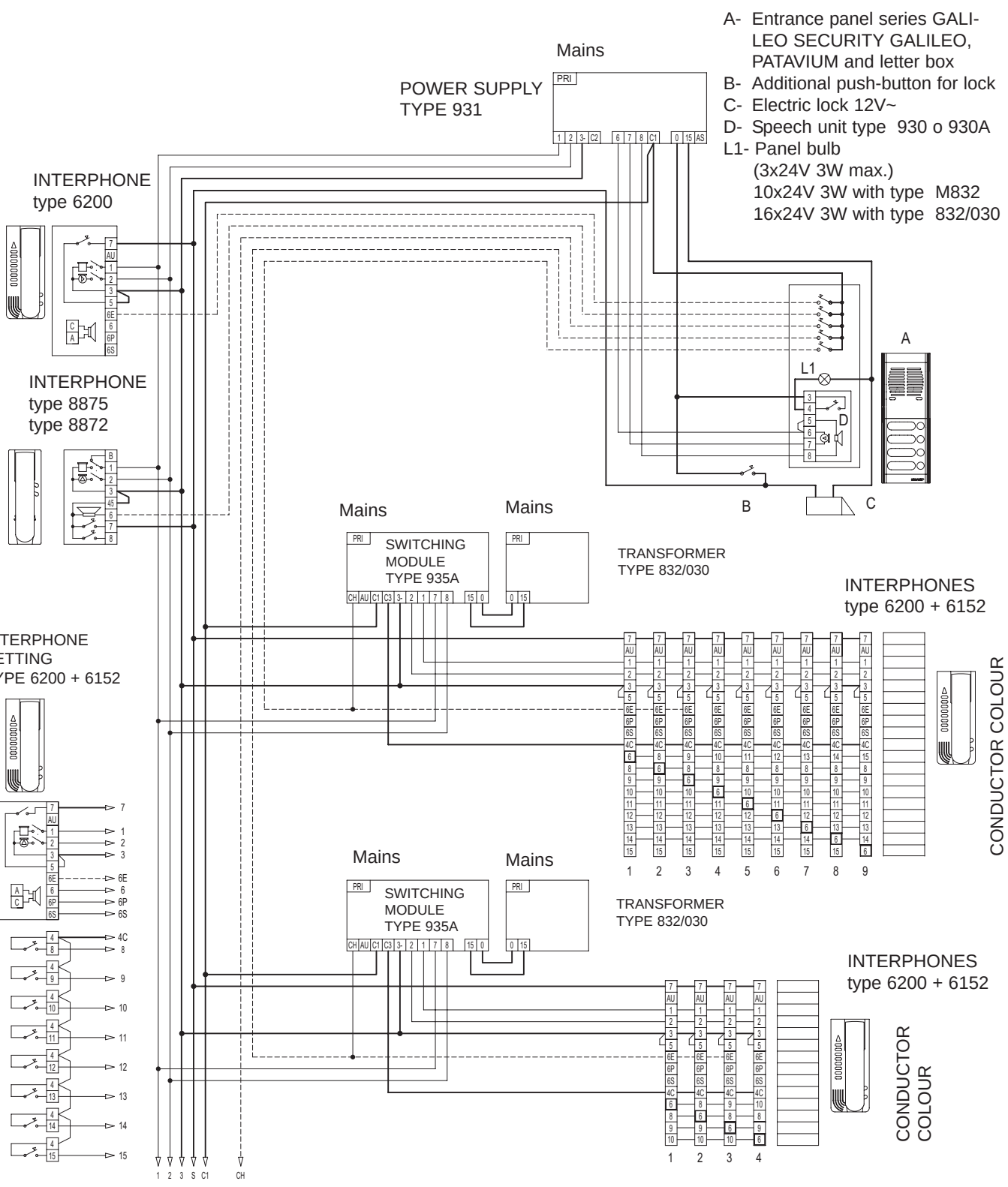
Outputs 0-15 or 0-AS do not support loads with continuous absorption of more than 0.25 A.
Lighting of entrance panel:
With power supply type 931 connect a maximum of 3 24V 3 W bulbs
With transformer type M832 connect a maximum of 10 24V 3W bulbs;
With transformer type M832/030 connect a maximum of 16 24V 3W bulbs.

In the event of a short circuit, the protection devices (PTC) switch off the mains voltage. Once the short circuit has been eliminated, wait for a few minutes to allow the protection device to cool down so that the unit can return to normal operation.

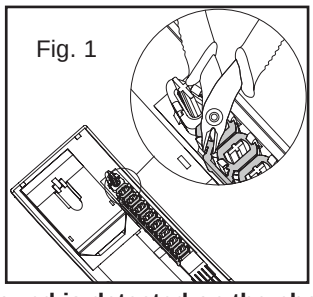
N. B. The system can be completed by adding other services. To do this, consult the variations on the standard connection relating to the various components of the system, on pages 80 to 86.



BLOCK DIAGRAM N° sb1224



Before connecting the system, fit the buttons type 6152 in their seat in the interphone. Connect the jumpers as shown in the diagram. Then distribute the keys in the interphone housing, removing the plastic that holds them as shown in figure 1.



WIRING INSTRUCTIONS

Wiring diagram shows the maximum number of interphones connections.

To connect fewer interphones, proceed as it follows: with 4 interphones use type 6200 with 4 push-buttons: push-button 1 (corresponding to terminal 7) operates door lock; the other three push-buttons (8-9-10) are used for intercommunicating calls. Connect then the first three terminal blocks (terminal 1 to 10).

N.B. If a humming sound is detected on the phonic line reconnect the wire connected to the lock by terminal 15 to terminal AS inside the power supply.

DIAGRAM N° ci3244

SYSTEM DESCRIPTION

The power supplies used are: type 931, 936, 938A. These power supplies are equipped with double or triple electronic tone generator (Sound System), which replaces the conventional AC call on a buzzer or bell. The acoustic signal has two or three differentiated tones (on terminals C1-C2 and C3) allowing immediate identification of the point from which the call is made (main entrance, gate, garage, intercommunicating interphones, etc.); the sound is amplified by a single loudspeaker built into the interphone.

OPERATING PRINCIPLE

When a visitor presses a push-button on one of the entrance panels, the audio line and lock of the speech unit from which the call was made are automatically enabled; the operation of the other entrance panels is thus disabled. The last call has priority over the previous calls.
N.B. For configurations with more than three entrance panels, connect the switching modules in series as shown in the diagrams on the pages that follow.

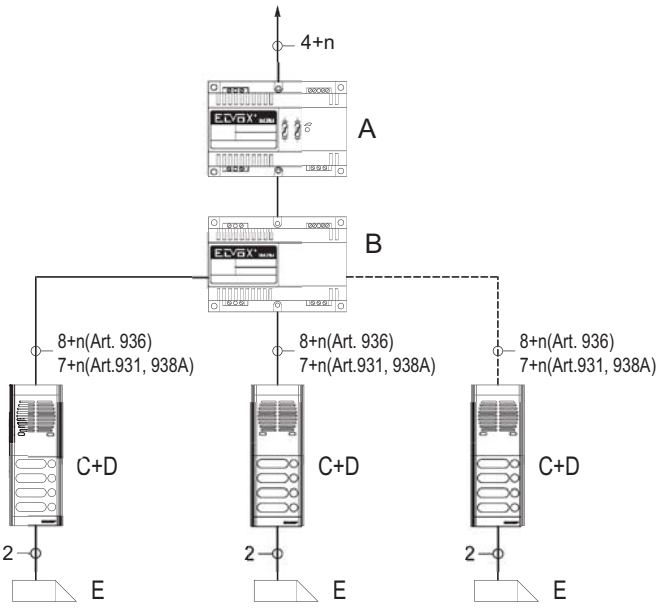
LIST OF SYSTEM COMPONENTS (Diagram ref. C2328-C2313-C3757-C2363-C1961)

Diagram ref.	type	Denomination	Quantity
A	931 or 936 or 938A	Power supply	1
B	839/302-839/303	Switching module	1÷n
C	GALILEO SECURITY GALILEO or PATAVIUM	Series entrance panel	1
D	930 or 930A (with type 931-938A) 930/836 - 930F (with type 936)	Speech unit	1
E	-	Electric lock 12V AC	1
n	-	Number of users	n

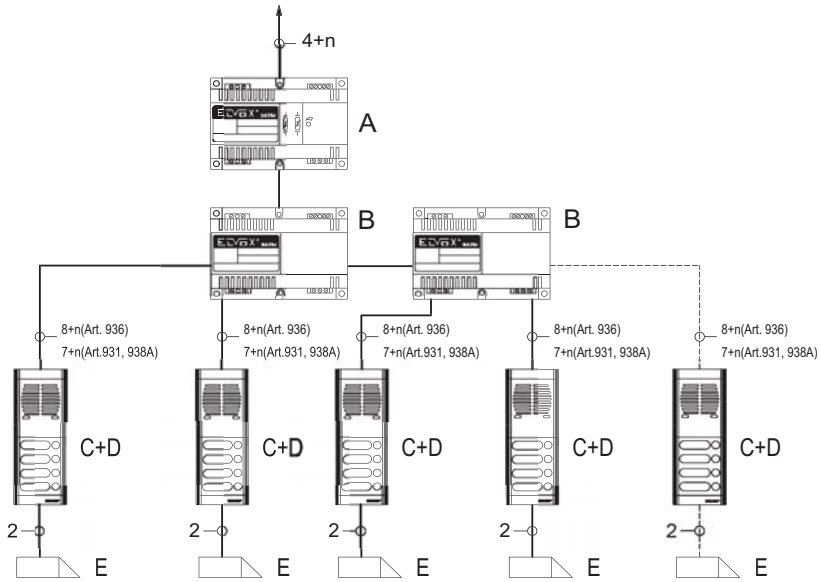
Lighting of entrance panel:
With the standard power supply, connect a maximum of 3 24V 3 W bulbs
With transformer type M832 connect a maximum of 10 24V 3W bulbs;
With transformer type M832/030 connect a maximum of 16 24V 3W bulbs.

In the event of a short circuit, the protection devices (PTC) switch off the mains voltage. Once the short circuit has been eliminated, wait for a few minutes to allow the protection device to cool down so that the unit can return to normal operation.

N. B. The system can be completed by adding other services. To do this, consult the variations on the standard connection relating to the various components of the system, on pages 80 to 86.

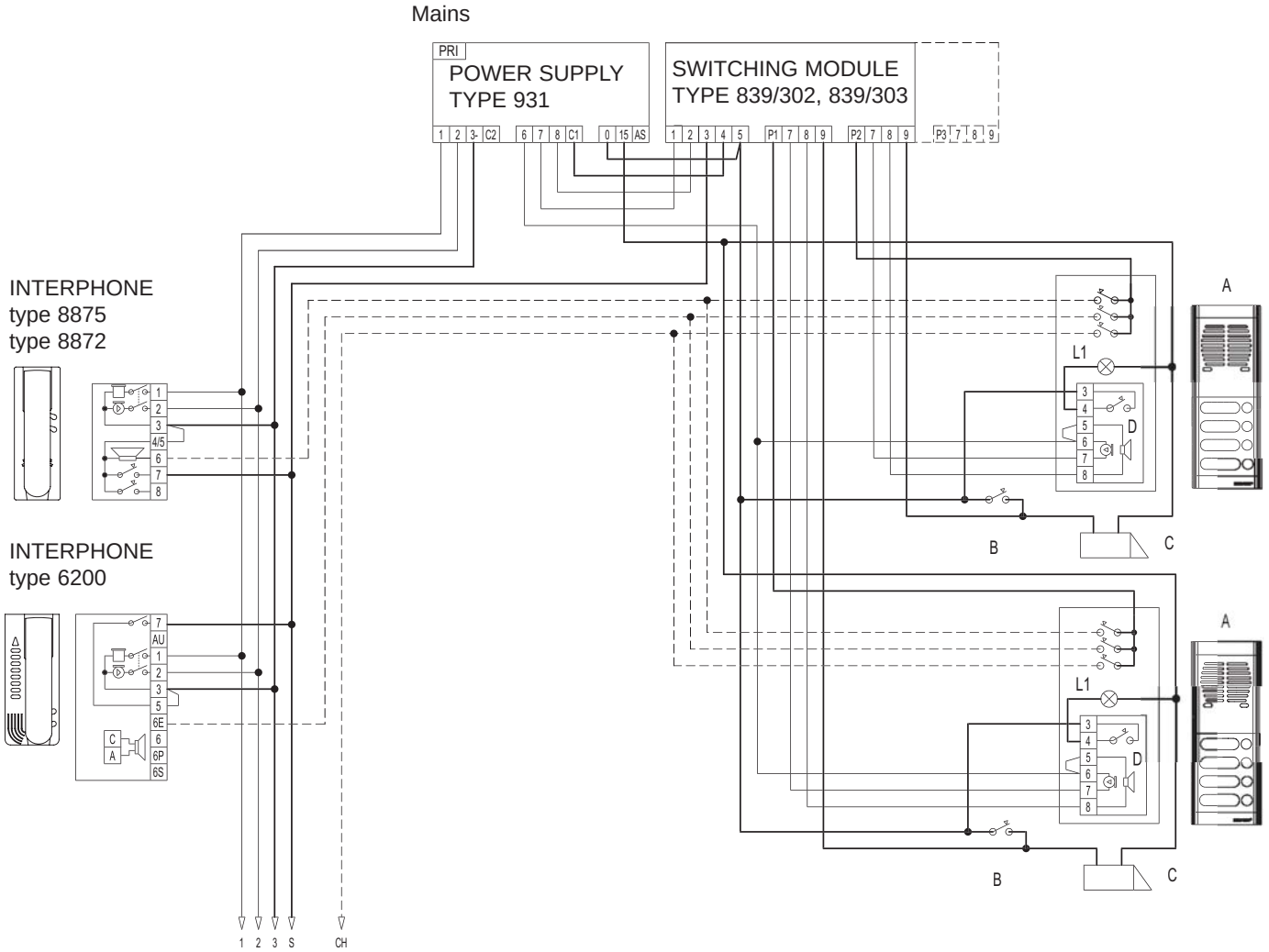


BLOCK DIAGRAM N° sb1225



BLOCK DIAGRAM N° sb1256

WIRING DIAGRAM OF AUDIO DOOR ENTRY SYSTEM WITH TWO OR THREE SPEECH UNITS AND POWER SUPPLY TYPE 931

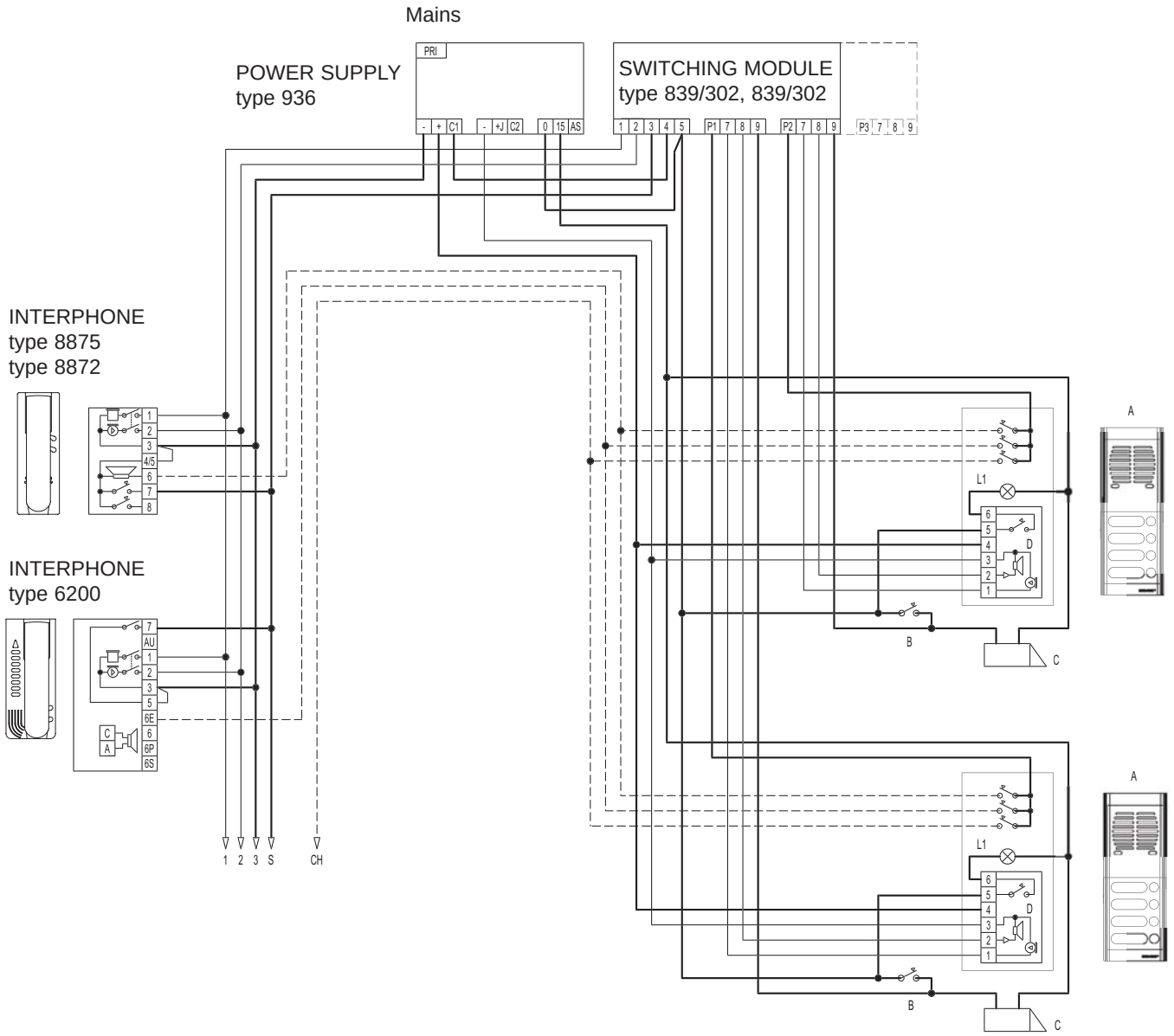


A- Entrance panel series GALILEO SECURITY, GALILEO or PATAVIUM
B- Additional push-button for lock
C- Electric lock 12V~
D- Speech unit type 930 or 930A
L1- Panel bulb
(3x24V 3W max.)
10x24V 3W with type M832
16x24V 3W with type 832/030

N.B.
If a humming sound is detected on the phonic line reconnect the wire connected to the lock by terminal 15 to terminal AS inside the power supply.

DIAGRAM N° c2328

WIRING DIAGRAM OF AUDIO DOOR ENTRY SYSTEM WITHOUT CONVERSATION PRIVACY WITH TWO OR THREE SPEECH UNITS AND POWER SUPPLY TYPE 936

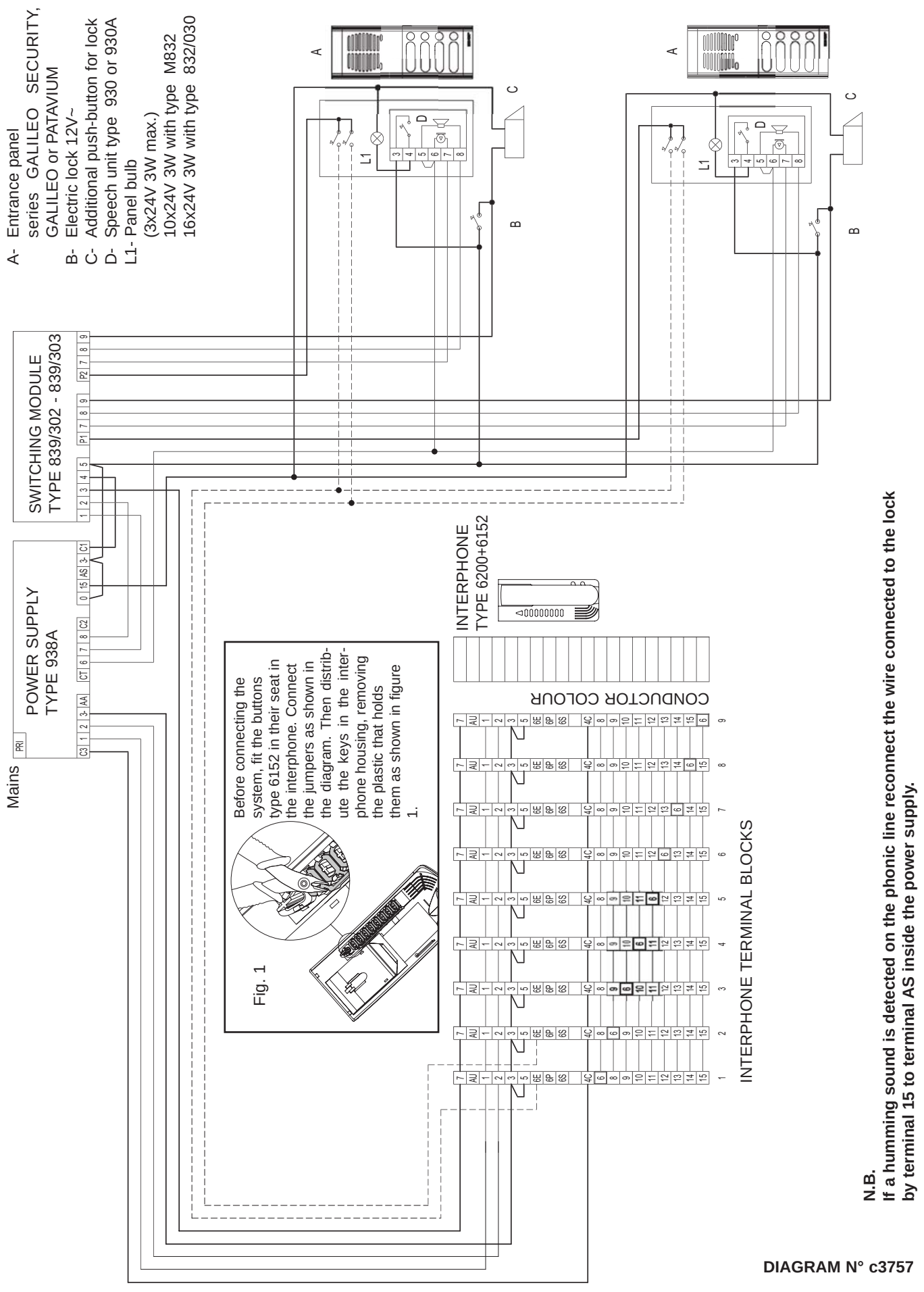


A- Entrance panel
series GALILEO SECURITY
GALILEO or PATAVIUM
B- Additional push-button for lock
C- Electric lock 12V~
D- Speech unit type Type 930/836, 930F
L1- Panel bulb
(3x24V 3W max.)
10x24V 3W with type M832
16x24V 3W with type 832/030

N.B.
If a humming sound is detected on the phonic line reconnect the wire connected to the lock by terminal 15 to terminal AS inside the power supply.

DIAGRAM N° c2313

WIRING DIAGRAM OF INTERCOMMUNICATING INTERPHONES WITHOUT CONVERSATION PRIVACY WITH TWO SPEECH UNITS AND POWER SUPPLY TYPE 938A



N.B.
If a humming sound is detected on the phonic line reconnect the wire connected to the lock by terminal 15 to terminal AS inside the power supply.

DIAGRAM N° c3757

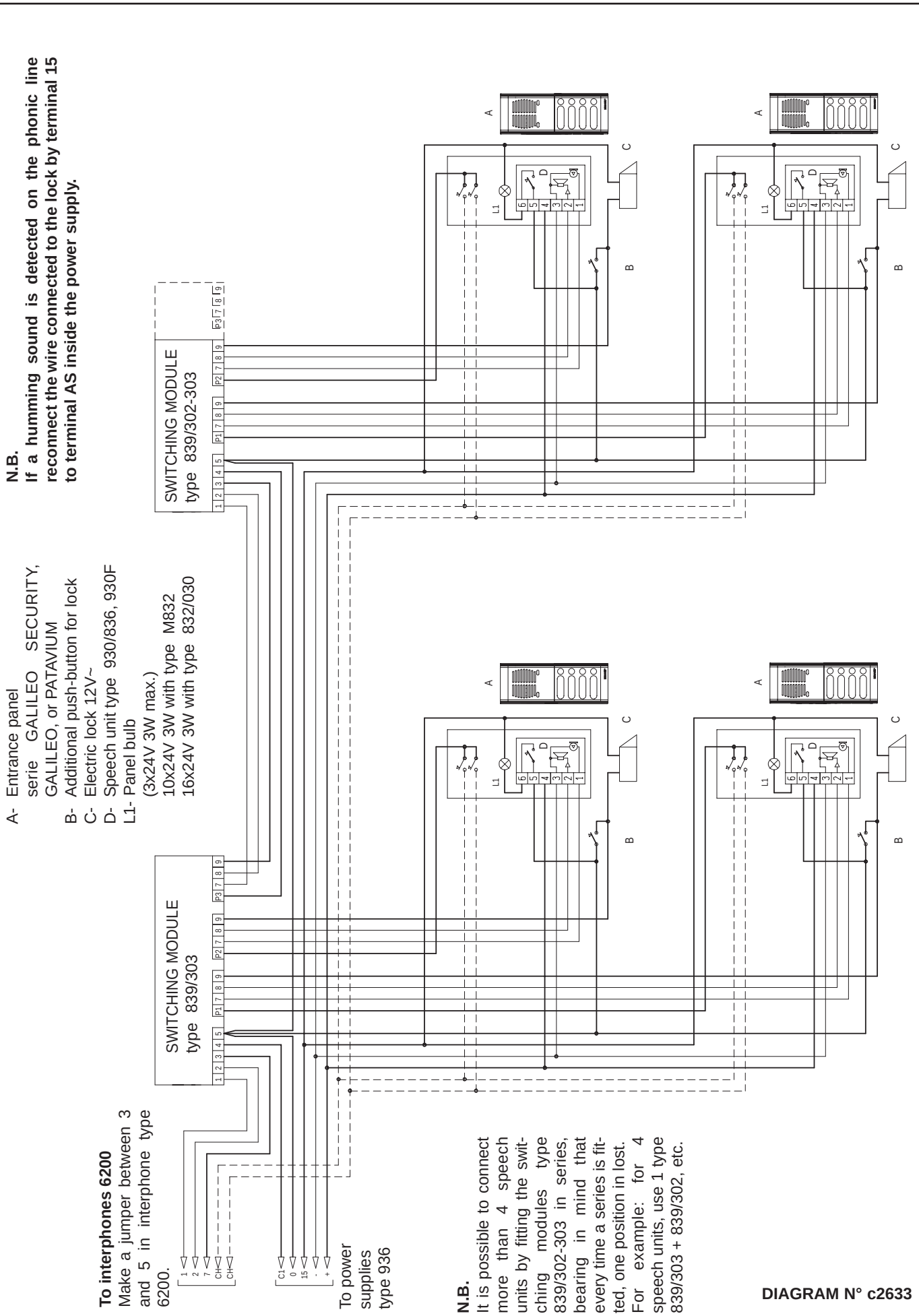


DIAGRAM N° c2633

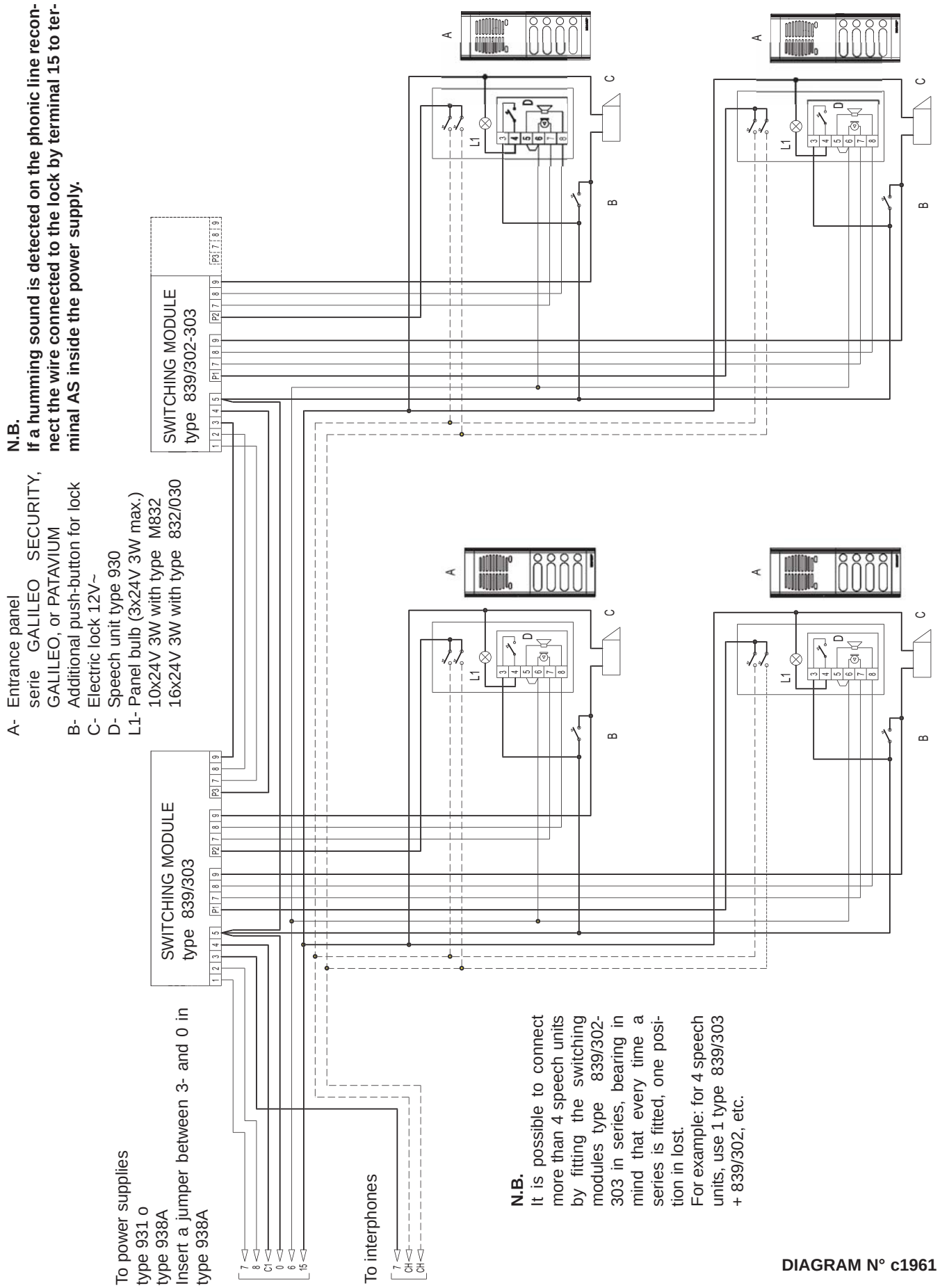


DIAGRAM N° c1961

OPERATING PRINCIPLE

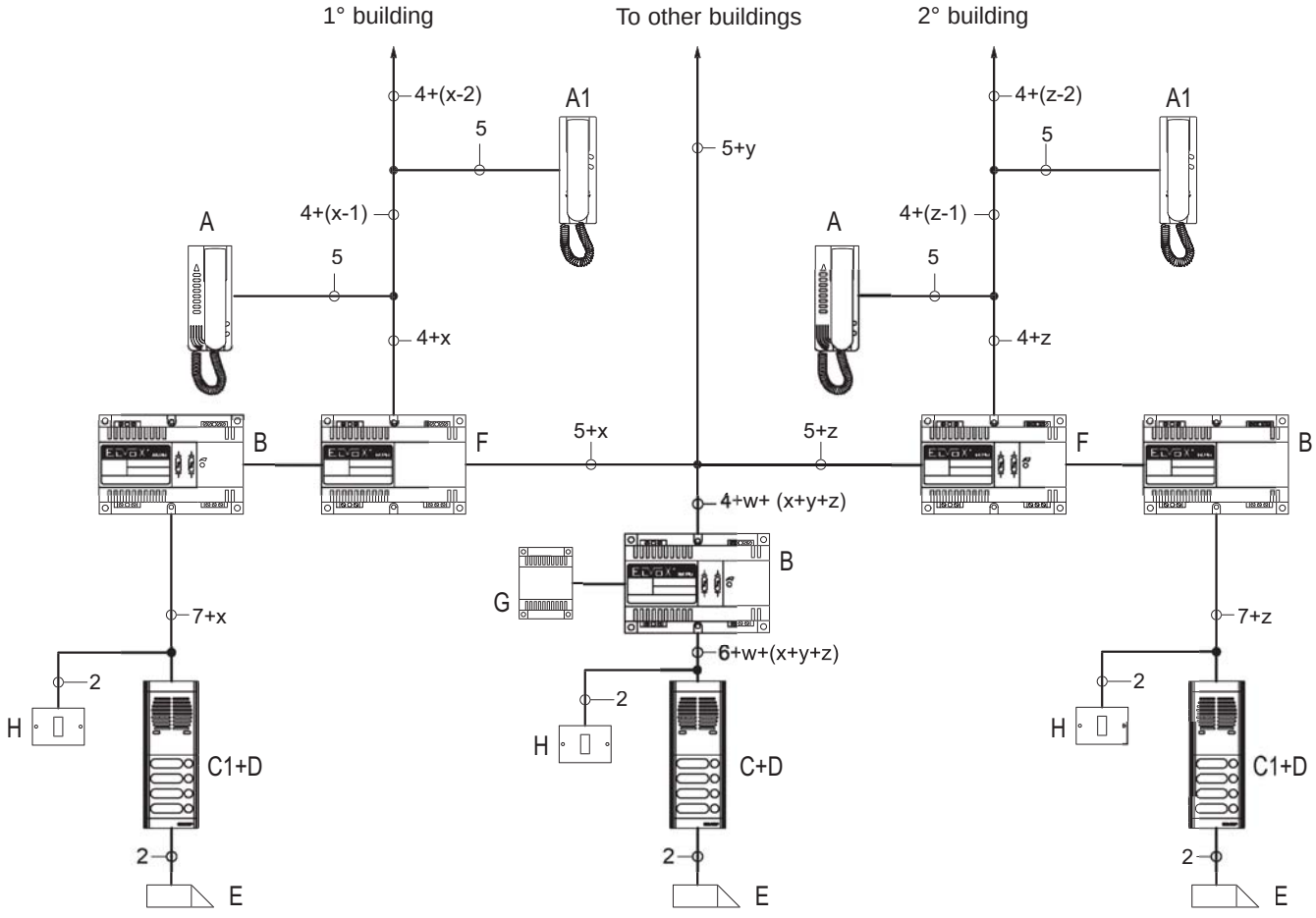
The system enables you to connect more than one building with a main speech unit. Each individual building consists of an entrance panel with speech unit and the interphones in the apartments. The main speech unit consists of an entrance panel with speech unit to which the users of the buildings will be connected. The switching module type 839/302, installed in each building, selects the audio-lock connection of the entrance panel (main or secondary) which has sent the call. This makes each building independent and enables simultaneous communication between the interphones of any apartment, with its own entrance panel.

LIST OF ARTICLES REQUIRED FOR INSTALLATION (Diagram Ref. CE2474)

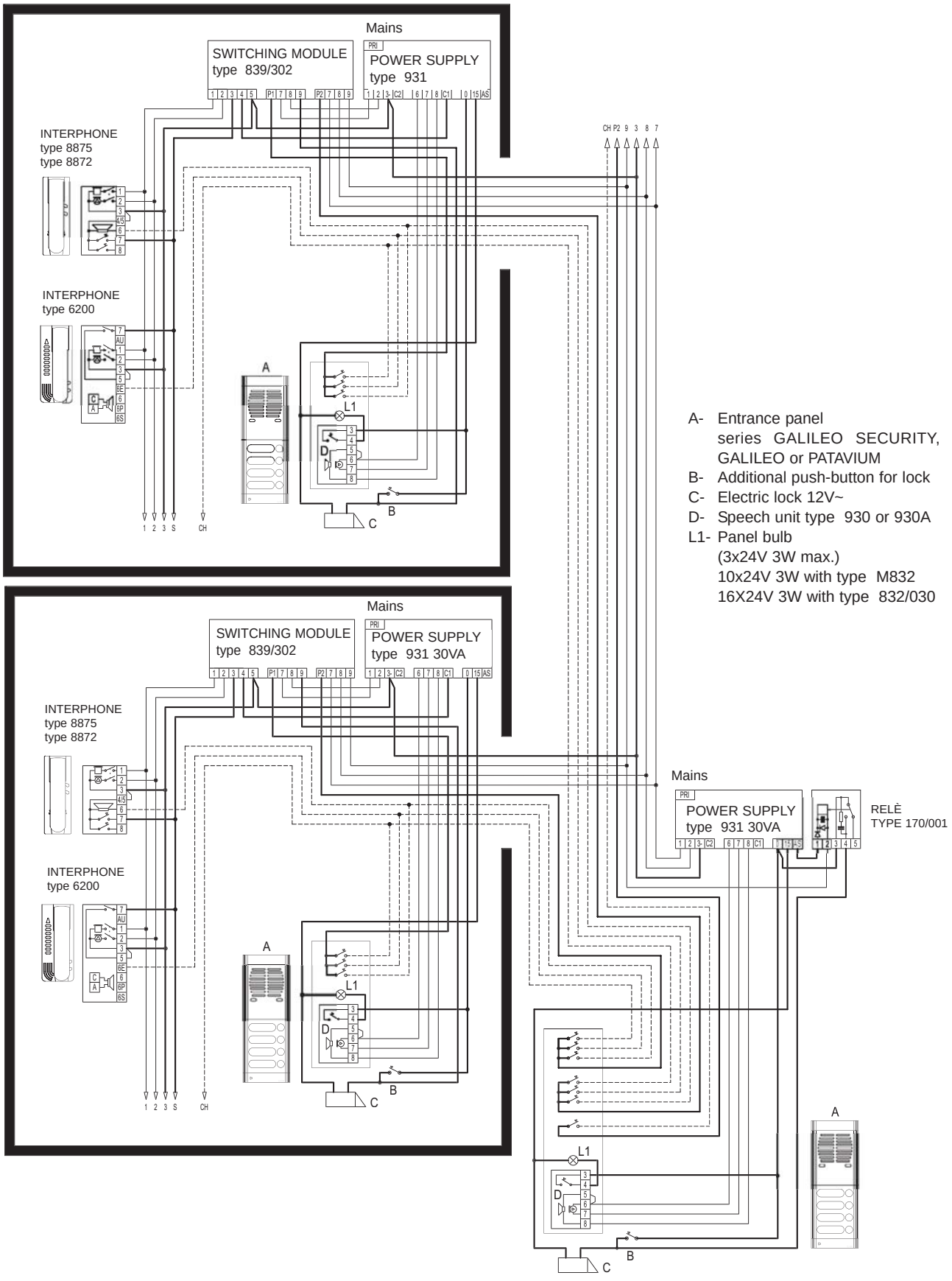
Diagram ref.	Type	Name	Quantity
A	6200	Interphone	n
A1	8875, 8872	Interphone	n
B	931	Power supply	n
C	GALILEO SECURITY GALILEO or PATAVIUM series	Main entrance panel	1
C1	series GALILEO SECURITY GALILEO or PATAVIUM series	Secondary entrance panel	2÷n
D	930 or 930A	Speech unit	3÷n
E	-	Electric lock 12V A.C.	1÷n
F	839/302	Switching module	2÷n
G	170/001	Relay	1
H	-	Landing call push-button	3÷n
x	-	Number of users 1st building	n
y	-	Number of users 2nd building	n
z	-	Number of users 3rd building	n
w	-	Number of buildings	2÷n

In the event of a short circuit, the protection devices (PTC) switch off the mains voltage. Once the short circuit has been eliminated,wait for a few minutes to allow the protection device to cool down so that the unit can return to normal operation.

N. B. The system can be completed by adding other services. To do this, consult the variations on the standard connection relating to the various components of the system, on pages 80 to 86.



BLOCK DIAGRAM N° sb1226



A- Entrance panel series GALILEO SECURITY, GALILEO or PATAVIUM
B- Additional push-button for lock
C- Electric lock 12V~
D- Speech unit type 930 or 930A
L1- Panel bulb (3x24V 3W max.)
10x24V 3W with type M832
16X24V 3W with type 832/030

N.B.
If a humming sound is detected on the phonic line reconnect the wire connected to the lock by terminal 15 to terminal AS inside the power supply.

DIAGRAM N° ce2474

SYSTEM DESCRIPTION

The switchboard works both in installations with "Sound System" call and in installations with AC call. In order to use the switchboard in installations with "Sound System" call, leave the jumper "S1" next to the terminal block in place; with AC call, the jumper must be removed.

OPERATING PRINCIPLE

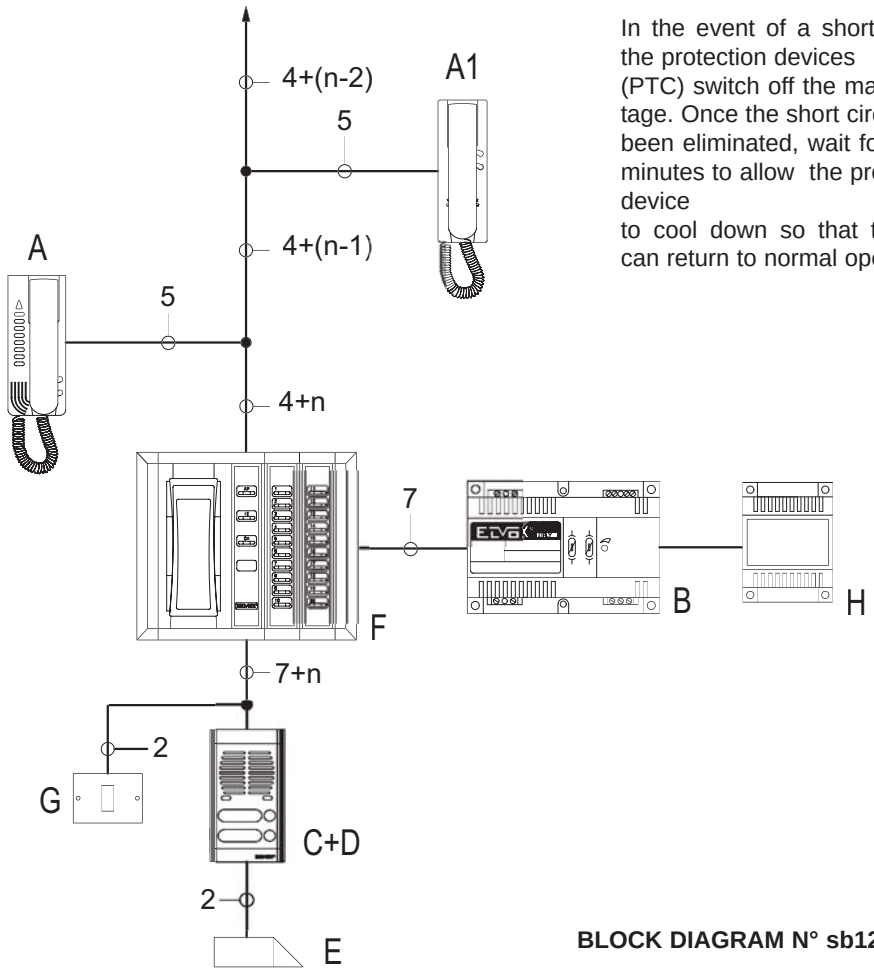
During the course of "internal" operation (IE key switched to I) it is possible to maintain conversation privacy between the switchboard and the interphones, by disabling the speech unit. To communicate from the switchboard to the interphones, press the line selector key and the CH button. To make a call from the interphones to the switchboard, lift the interphone and press the push-button . To reply from the switchboard, press the key corresponding to the illuminated LED. The switchboard is equipped with 50Hz "line engaged" acoustic signal. An electronic device diverts all calls from the entrance panel to the internal porter switchboard ringtone. During "external" operation (IE key set to E) the system enables communication without conversation privacy between the interphones and the speech unit. The switchboard is excluded from the connection with the interphones and can communicate with the speech unit. Calls from the entrance panel are sent to the respective internal users. The same porter switchboard call push-button on the interphones operates the electric lock by means of a relay fitted in the switchboard. To open the lock for the entrance panel from the switchboard, press the AP push-button while the switchboard is in the external position.

The switchboards with 80, 100 and 120 lines are equipped with a multiplier key "=x" which makes it possible to double the number of lines, thus allowing you to insert two users for each key.
To communicate with an interphone from the switchboard:

- lift the interphone
- on the multiplier key, select the LED (yellow or red according to the interphone that you want to call);
- press the line selector key: the corresponding LED thus lights up with the same colour as the light on the multiplier key.

To change, simply press the multiplier key.
All the other functions remain unchanged.

N. B. The system can be completed by adding other services. To do this, consult the variations on the standard connection relating to the various components of the system, on pages 80 to 86.



BLOCK DIAGRAM N° sb1227

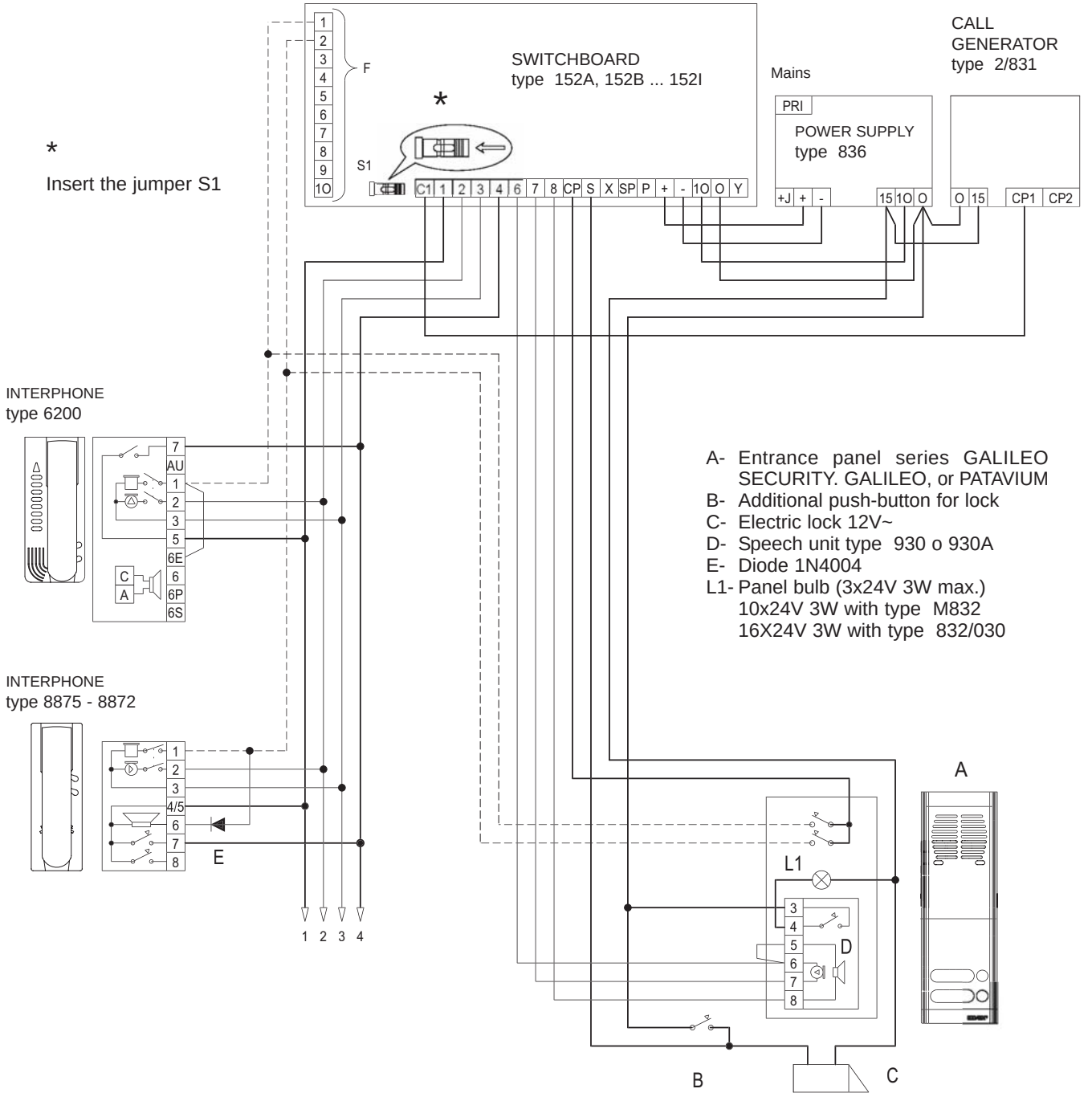
In the event of a short circuit, the protection devices (PTC) switch off the mains voltage. Once the short circuit has been eliminated, wait for a few minutes to allow the protection device to cool down so that the unit can return to normal operation.

INSTALLING THE SWITCHBOARD

The switchboard can be flush desk-mounted, desk-top mounted or flush wall-mounted. For surface wall-mounted, it is necessary to open the housing and unscrew the screws fixing the two metal side supports. Pull the supports out of their seat and invert their position.
In this way, the front panel of the switchboard slopes like a reading-desk, thus allowing the interphone to rest naturally.

LIST OF SYSTEM COMPONENTS (Diagram ref. CC3697)

Diagram ref.	type	Denomination	Quantity
A	6200	Interphone	n
A1	8875, 8872	Interphone	n
B	836	power supply	1
C	GALILEO SECURITY GALILEO or PATAVIUM series	Entrance panel	1
D	930 or 930A	speech unit	1
E	-	Electric lock 12V AC	1
F	152A - 152B ... 152I	Porter switchboard	1
G	-	Additional door lock push-button	1
H	2/831	Call generator	1
n -	-	Number of users	n



SWITCHBOARD TERMINALS

C1	Input for common ringtone line (Sound system or AC call)
1	Negative
2	Microphone
3	Common audio line
4	Porter call (switchboard in "INTERNAL" position) or open door lock (switchboard in "EXTERNAL" position)
6,7,8	Speech unit
CP	Buttons for common entrance panel line
S	Door lock
X	Monitor OFF
SP, P	Connection for additional external ringtone. The ringtone is activated by means of calls from the entrance panel with the switchboard in the "INTERNAL" position.
F	Voice and interphone call lines
+, -	Power supply in direct voltage
0, 10	Power supply in alternating voltage
Y	Not used

DIAGRAM N° cc3697

AUDIO DOOR-ENTRY SYSTEM WITH SWITCHBOARD TYPE 152A-152B...152I WITH TWO SPEECH UNITS

SYSTEM DESCRIPTION

The switchboard works both in installations with "Sound System" call and in installations with AC call. In order to use the switchboard in installations with "Sound System" call, leave the jumper "S1" next to the terminal block in place; with AC call, the jumper must be removed.

OPERATING PRINCIPLE

During the course of "internal" operation (IE key switched to I) it is possible to maintain conversation privacy between the switchboard and the interphones, by disabling the speech unit. To communicate from the switchboard to the interphones, press the line selector key and the CH button. To make a call from the interphones to the switchboard, lift the interphone and press the push-button . To reply from the switchboard, press the key corresponding to the illuminated LED. The switchboard is equipped with 50Hz "line engaged" acoustic signal. An electronic device diverts all calls from the entrance panel to the internal porter switchboard ringtone. During "external" operation (IE key set to E) the system enables communication without conversation privacy between the interphones and the speech unit. The switchboard is excluded from the connection with the interphones and can communicate with the speech unit. Calls from the entrance panel are sent to the respective internal users. The same porter switchboard call push-button on the interphones operates the electric lock by means of a relay fitted in the switchboard. To open the lock for the entrance panel from the switchboard, press the AP push-button while the switchboard is in the external position.

The switchboards with 80, 100 and 120 lines are equipped with a multiplier key "=x" which makes it possible to double the number of lines, thus allowing you to insert two users for each key.
To communicate with an interphone from the switchboard:

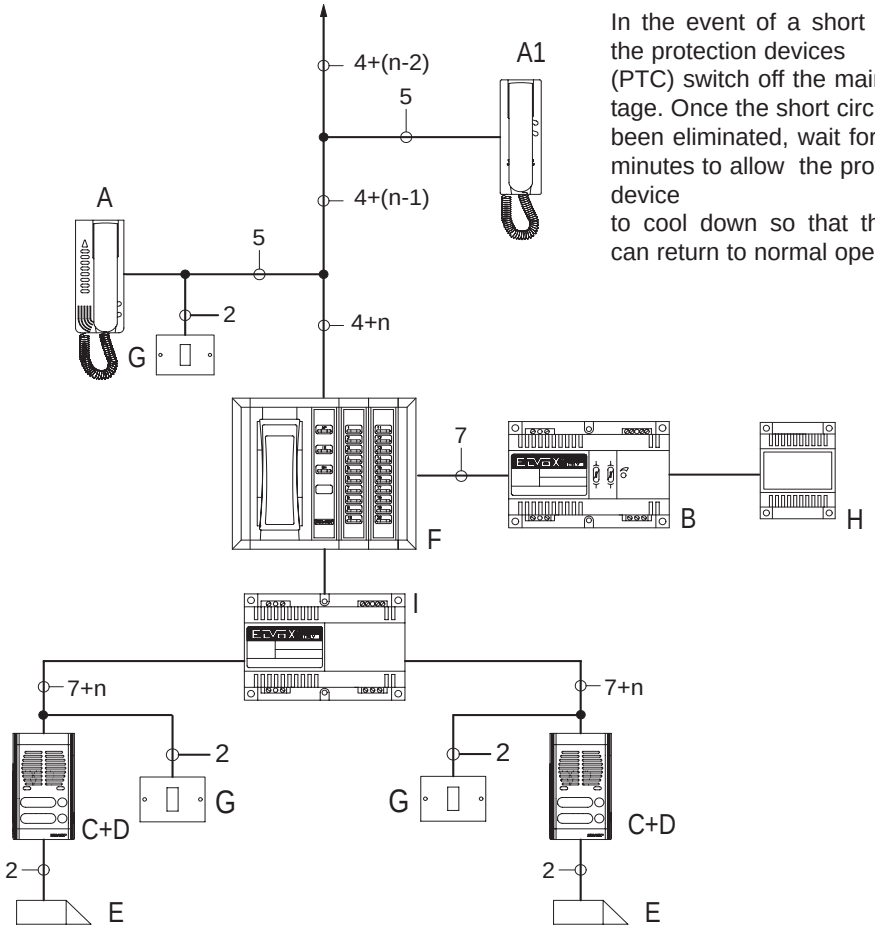
- lift the interphone
- on the multiplier key, select the LED (yellow or red according to the interphone that you want to call);
- press the line selector key: the corresponding LED thus lights up with the same colour as the light on the multiplier key.

To change, simply press the multiplier key.
All the other functions remain unchanged.

INSTALLING THE SWITCHBOARD

The switchboard can be flush desk-mounted, desk-top mounted or flush wall-mounted. For surface wall-mounted, it is necessary to open the housing and unscrew the screws fixing the two metal side supports. Pull the supports out of their seat and invert their position. In this way, the front panel of the switchboard slopes like a reading-desk, thus allowing the interphone to rest naturally.

N. B. The system can be completed by adding other services. To do this, consult the variations on the standard connection relating to the various components of the system, on pages 80 to 86.

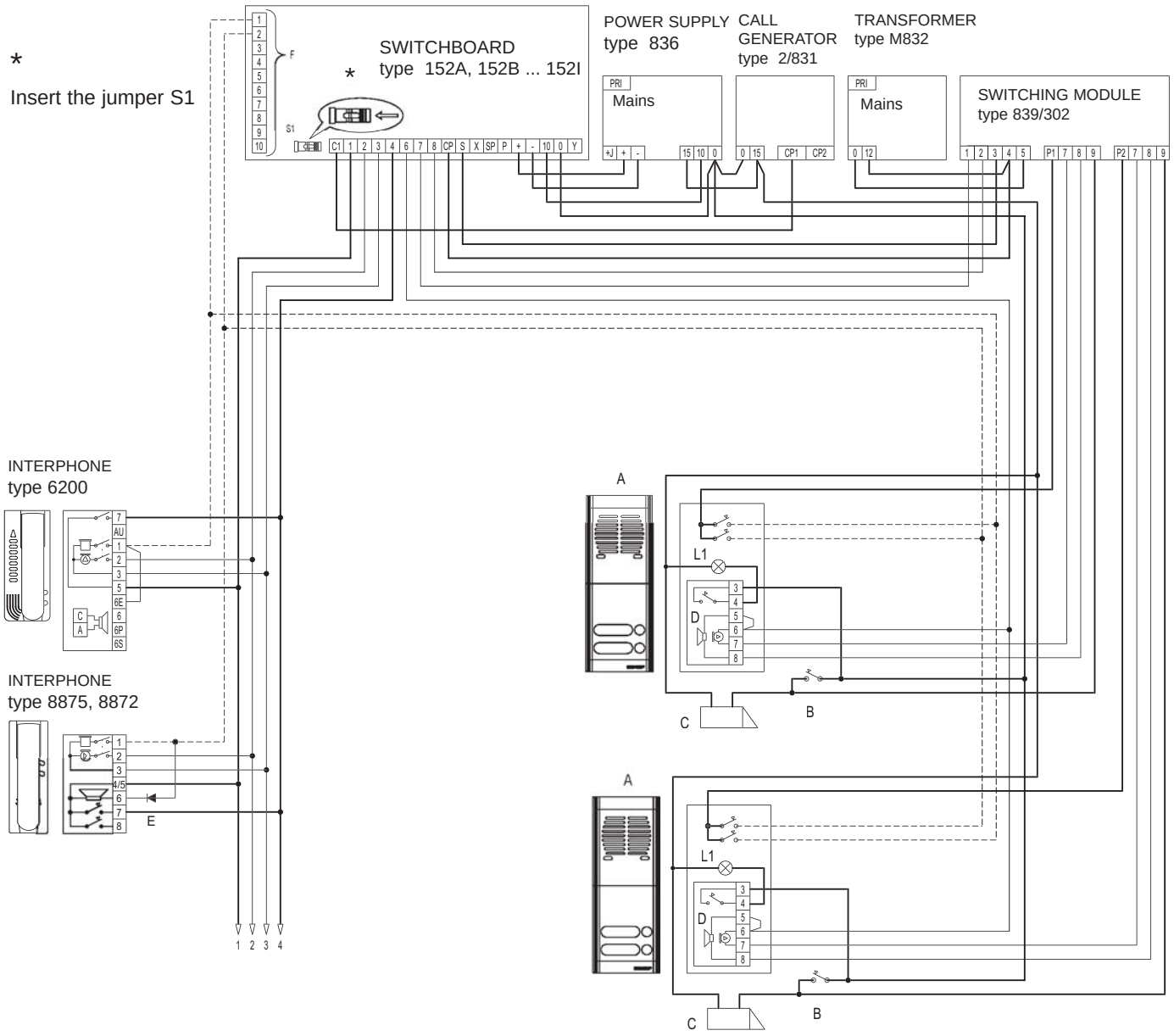


In the event of a short circuit, the protection devices (PTC) switch off the mains voltage. Once the short circuit has been eliminated, wait for a few minutes to allow the protection device to cool down so that the unit can return to normal operation.

BLOCK DIAGRAM N° sb1228

LIST OF SYSTEM COMPONENTS (Diagram ref. CC3789)

Diagram ref.	type	Denomination	Quantity
A	6200	Interphone	n
A1	8875, 8872	Interphone	n
B	836	Power supply	1
C	GALILEO SECURITY		
	GALILEO or PATAVIUM series	Entrance panel	1
D	930 or 930A	speech unit	1
E	-	Electric lock 12V AC	1
F	152A - 152B ... 152I	Porter switchboard	1
G	-	Additional door lock push-button	1
H	2/831	Call generator	1
I	839/302	Switching module	1
n	-	Number of users	n



A- Entrance panel series GALILEO SECURITY. GALILEO, or PATAVIUM
B- Additional push-button for lock
C- Electric lock 12V~
D- Speech unit type 930 or 930A
E- Diode 1N4004 (type R027)
L1- Panel bulb
(3x24V 3W max.)
10x24V 3W with type M832
16X24V 3W with type 832/030

SWITCHBOARD TERMINALS

C1	Input for common ringtone line (Sound system or AC call)
1	Negative
2	Microphone
3	Common audio line
4	Porter call (switchboard in "INTERNAL" position) or open door lock (switchboard in "EXTERNAL" position)
6,7,8	Speech unit
CP	Buttons for common entrance panel line
S	Door lock
X	Monitor OFF
SP, P	Connection for additional external ringtone. The ringtone is activated by means of calls from the entrance panel with the switchboard in the "INTERNAL" position.
F	Voice and interphone call lines
+, -	Power supply in direct voltage
0, 10	Power supply in alternating voltage
Y	Not used

DIAGRAM N° cc3789

SYSTEM WITH PORTER SWITCHBOARD type 142A-142B ... 142I WITH INTERPHONE FOR NIGHT SERVICE AND ENTRANCE PANEL

SYSTEM DESCRIPTION

The 142 switchboard for hotel or porter use can send and receive calls from any user, switch calls from interphones to the interphone for night service and bring the night service interphone into communication with the speech unit.

OPERATION FOR SWITCHBOARD type 142A, 142B, ..., 142I

During "Daytime" operation (GN key set to G) private conversation is possible between the switchboard and the interphones. To communicate from the switchboard to the interphones, lift the interphone of the switchboard, activate the line selector key and press the CH button.

To make a call from the interphones to the switchboard, simply lift the interphone of the interphone; the switchboard will signal the call by lighting up the LED for the interphone and activating the internal electronic ringtone. When you lift the switchboard interphone, the ringtone is switched off. To enter into communication with the interphone, simply activate the relevant line selector key and speak. At the end of the conversation, disactivate the line selector key and replace the interphones. For "Night" operation (GN key set to N), the switchboard interphone has to be hung up and all the line selector keys must be disactivated. In this operating state, all calls from the interphones are diverted to the night interphone, which is able to communicate with the interphones without conversation privacy. On receipt of a call from the entrance panel, the night interphone can communicate with the speech unit by holding the push-button down. To open the door lock from the night interphone, simply press the push-button .

Switchboards with 80, 100 and 120 lines are equipped with a multiplier key "=x" which enables you to double the number of lines, thus making it possible to insert two users separately for each key. To communicate with an interphone from the switchboard during Daytime operation:

- lift the interphone;
- on the multiplier key select the LED (yellow "x" or red "=" according to the interphone that you want to call);
- press the line selector key: the corresponding LED thus illuminates with the same colour as that of the multiplier key.

During Night service, a call sent from the entrance panel activates only the ringtone of the night service interphone type 149A. If you need to activate calls from the entrance panel both during the day and at night, use a call repeater type 2/841 or the ringtone type 860A, connected as shown in the variations of the standard diagram.

During "Daytime" operation, the night interphone operates as a normal interphone, on which the line selector key is "CN".

If one or more line selector keys remain activated and the interphones of the switchboard and the night interphone are in the rest state, the internal electronic ringtone of the switchboard will activate (with the GN key set to G). With the GN key set to N, the night interphone ringtone will sound intermittently, until the pressed keys are disactivated.

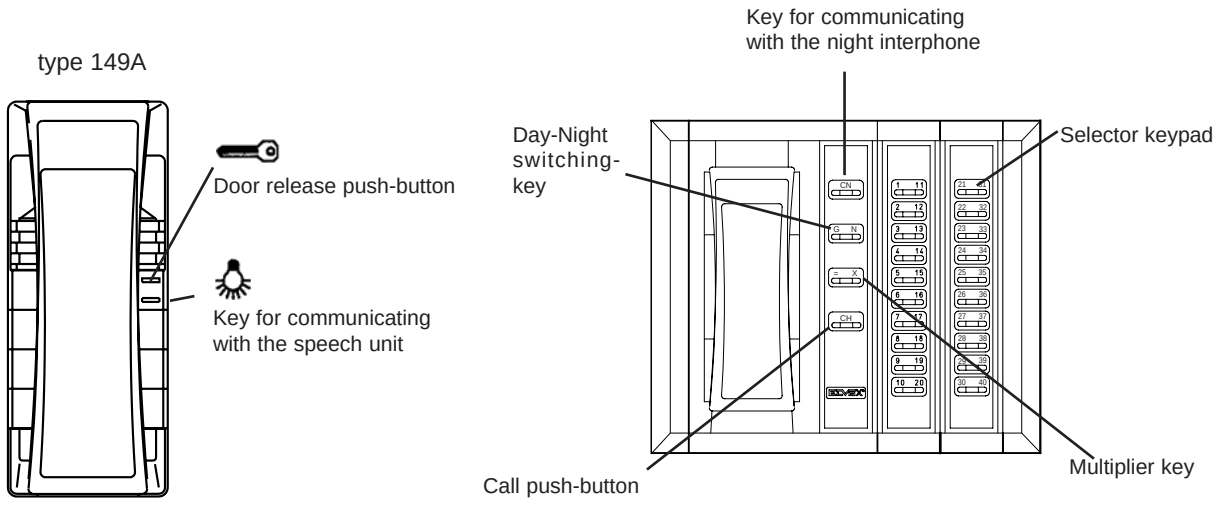
CONNECTION INSTRUCTIONS (diagram cc3049-2)

Three types of switchboard connection are possible:

1) Connection of the interphones only.
   Connection line: one common wire and one wire for each interphone. None of the other connections must be made.
2) Connection of the interphones and the night interphone.
   Connection line: make the connections shown in the diagram except for those shown with broken lines.
3) Connection of the interphones, the night interphone and the speech unit.
   Connection line: make all the connections shown in the diagram.
   Important: the diodes supplied with the switchboard are used only in the case of connection with an AC call system.

INSTALLING THE SWITCHBOARD

The switchboard can be flush desk-mounted, desk-top mounted or flush wall-mounted. For surface wall-mounted, follow the instructions below: open the housing and unscrew the screws fixing the two metal side supports. Pull them out of their seat and invert their position. In this way the front panel of the switchboard slopes like a reading-desk, allowing the interphone to rest naturally.



PORTER SWITCHBOARD type 162A 162B ... 162I WITH INTERPHONE FOR NIGHT SERVICE, ENTRANCE PANEL AND TELEPHONE LINE

SYSTEM DESCRIPTION
The 162 series switchboard for hotel or porter use can send and receive calls from any user, switch calls from the interphones to the night service interphone, communicate from the night service interphone to the speech unit, connect an interphone to a telephone line and bring 2 interphones into communication with each other.

OPERATION FOR SWITCHBOARD TYPE 162A, 162B, ..., 162I
During "Daytime" operation (GN key set to G) private conversation is possible between the switchboard and the interphones.
To communicate from the switchboard to the interphones, lift the interphone of the switchboard, activate the line selector key and press the CH button. To make calls from the interphones to the switchboard, simply lift the interphone of the interphone; the switchboard will signal the call by lighting up the relevant LED on the interphone and activating the internal electronic ringtone. When the interphone is lifted, the ringtone switches off. To enter into communication with the interphone, simply activate the relevant line selector key and speak.
At the end of the conversation, disactivate the line selector key and replace the interphones.
For "Night" operation (GN key set to N), the switchboard interphone has to be hung up and all the line selector keys must be disactivated. In this operating state, all calls from the interphones are diverted to the night interphone, which is able to communicate with the interphones without conversation privacy. On receipt of a call from the entrance panel, the night interphone can communicate with the speech unit by holding the push-button down. To open the door lock from the night interphone, simply press the push-button .
During Night Service, a call sent from the entrance panel activates only the ringtone of the night service interphone type 149A. (diagram cc3944), or the Sound System call repeater type 2/841 (diagram cc3940). For Sound System without call repeater, only the 149A sounds in night service.
If you need to activate calls from the entrance panel both during the day and at night, use a call repeater type 2/841 or ringtone type 860A, connected as shown in the variations of the standard diagram. During "Daytime" operation, the night interphone operates as a normal interphone, on which the line selector key is "CN".
The switchboard is equipped with the "==" key to bring two interphones into communication with each other or one interphone into communication with the telephone line connected between the terminals LL. These services are activated only during daytime operation (GN key set to G).

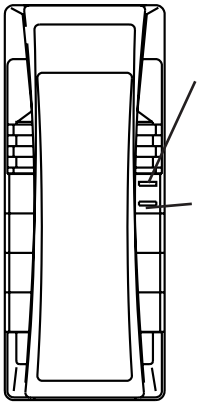
- To bring two interphones into communication with each other, call the two interphones and then simply leave the two line selector keys corresponding to the 2 interphones ON, press the "==" key and replace the switchboard interphone. In this way, the switchboard is excluded from the conversation but can reply to calls from other interphones. The end of the conversation is indicated by the lighting up of the two line selector keys and intermittent activation of the internal ringtone of the switchboard. It is important in this phase that the switchboard interphone is in the rest position. Then disactivate the two selector keys and the "=="key.
- If, during the intercommunicating conversation between the two interphones, the switchboard receives a call from a third interphone, the switchboard operator can answer the call simply by lifting the interphone without activating the line key. If the intercommunicating conversation between the two interphones ends before the conversation between the switchboard and the third interphone, the latter will be interrupted without any alert signal. To restore communication, disactivate the "==" key, disactivate the line selector keys of the two interphones and activate the selector key for the third interphone.
- To use the switchboard with a telephone line it is necessary to use type 149/162. This device is a telephone switching module with which it is possible to switch the telephone line between switchboard and telephone. By means of switching module 149/162 and the intercommunicating function, the switchboard operator can bring the interphones into communication with the telephone line and vice versa. The switching module has two positions: telephone line switched to telephone (red key pressed), telephone line switched to switchboard (black key pressed).
- Calls originating from the telephone line can be received on the telephone connected to 149/162 (with the red key pressed). To bring an interphone into communication with the telephone line, activate the line selector key of the interphone you want, press the "CH" key, wait for the reply, press the "==" key, replace the switchboard interphone and press the black key on switching module 149/162. In this way, the switchboard is excluded from the conversation but can reply to calls from other interphones. The end of the conversation is indicated by the lighting up of the line selector key for the interphone and intermittent activation of the internal ringtone of the switchboard; it is important in this phase that the switchboard interphone is in the rest position. Disactivate the line key and the "==" key, and press the red key on type 149/162.
- If, during conversation between an interphone and the telephone line, the switchboard receives a call from another interphone, operation is the same as for an intercommunicating conversation between two interphones.

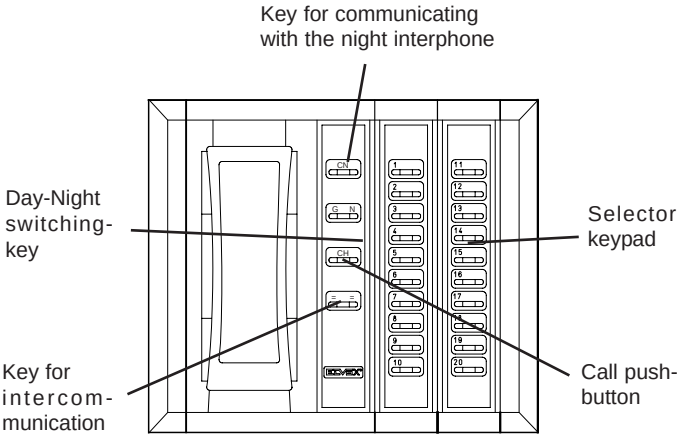
N.B. Note that the "==" key must not be pressed down and the LEDs must be OFF, so that the switchboard can communicate with the interphones with conversation privacy. If one or more line selector keys remains ON and the interphones of the switchboard and the night interphone are in the rest position, the internal electronic ringtone of the switchboard will sound (with GN key set to G). With the GN key set to N, the ringtone of the night interphone will sound intermittently, until the pressed keys are released.

CONNECTION INSTRUCTIONS (diagram cc3049-2)
Three type s of switchboard connection are possible:
1) Connection of the interphones only.
   Connection line: one common wire and one wire for each interphone. None of the other connections must be made.
2) Connection of the interphones and the night interphone
   Connection line: make the connections shown in the diagram except for those shown with broken lines.
3) Connection of the interphones, the night interphone and the speech unit.
   Connection line: make all the connections shown in the diagram.

INSTALLING THE SWITCHBOARD
The switchboard can be flush desk-mounted, desk-top mounted or flush wall-mounted. For surface wall-mounted, follow the instructions below: open the housing and unscrew the screws fixing the two metal side supports. Pull them out of their seat and invert their position. In this way, the front panel of the switchboard slopes like a reading-desk, allowing the interphone to rest naturally.
Important: the diodes supplied with the switchboard are used only in the case of connection with an AC call system.
INSTALLING THE TELEPHONE SWITCHING MODULE
In order to be able to connect the switchboard to the urban telephone line, it is necessary to use type 149/162 supplied separately from the switchboard. For connection procedures, refer to the diagrams.

type 149A

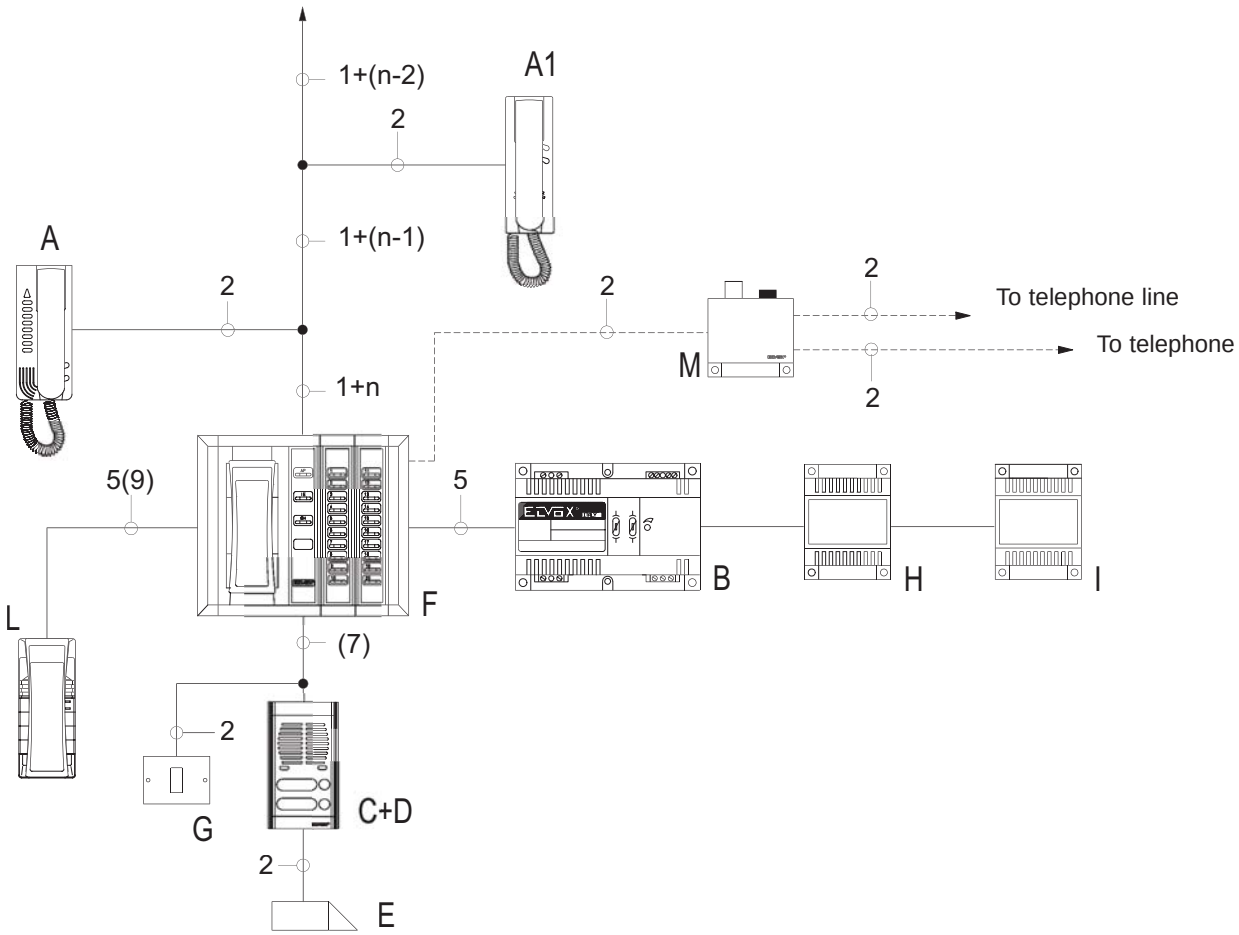




LIST OF SYSTEM COMPONENTS (Diagram ref. CC3940-2)

Diagram ref.	type	Denomination	Quantity
A	6201	Interphone	n
A1	8877	Interphone	n
B	836	power supply	1
C	GALILEO SECURITY		
	GALILEO or PATAVIUM series	Entrance panel	1
D	930 or 930A	speech unit	1
E	-	Electric lock 12V AC	1
F	142A - 142B ... 142I or (162A - 162B ... 162I)	Porter switchboard	1
G	-	Additional door lock push-button	1
H	2/831	Call generator	1
I	832/030	Power supply transformer	1
L	149A	Night service interphone	1
M	149/162 (Only with 162 series switchboards)	Telephone switching module	1
n	-	Number of users	n

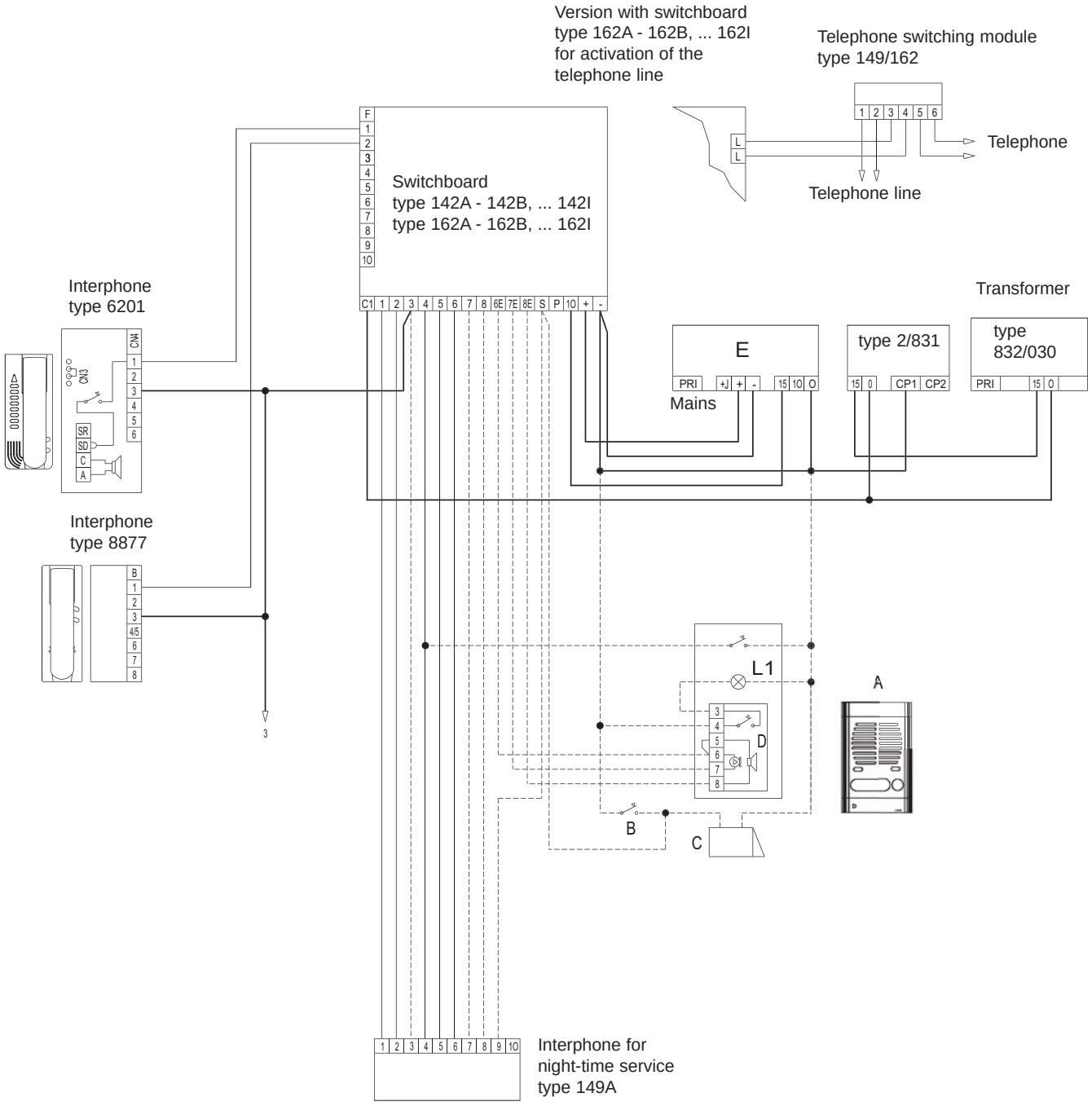
Connection diagram N. cc3940-2 can be used both for 142 series and 162 series switchboards.
The latter are connected differently only if the external telephone line is used. For use, see the instructions on the previous pages.



In the event of a short circuit, the protection devices (PTC) switch off the mains voltage. Once the short circuit has been eliminated, wait for a few minutes to allow the protection device to cool down so that the unit can return to normal operation.

N. B. The system can be completed by adding other services. To do this, consult the variations on the standard connection relating to the various components of the system,on pages 80 to 86.

BLOCK DIAGRAM N° sb1262



Section of conductors

Conductors	Ø up to 50m	Ø up to 100m	Ø up to 200m
Common and lock	0,5 mm²	0,75 mm²	1,5 mm²
Others	0,25 mm²	0,5 mm²	1 mm²

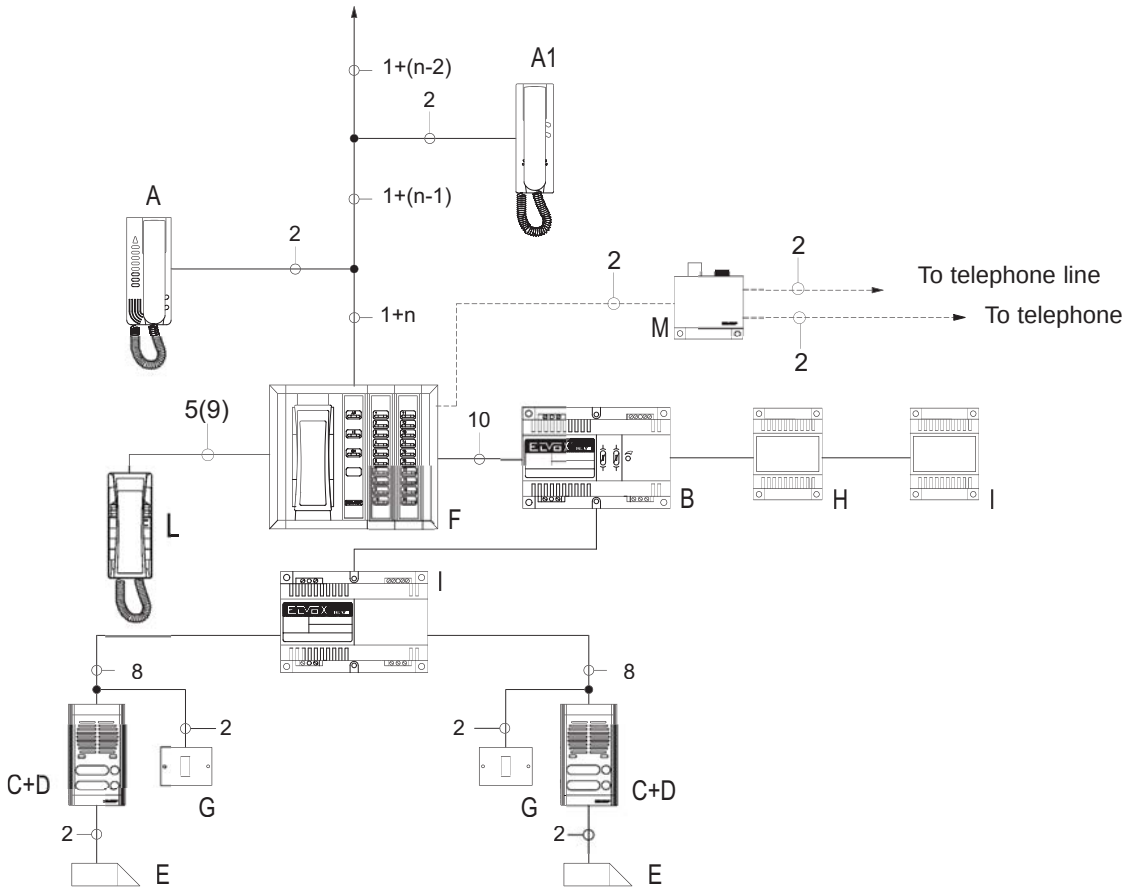
A- Entrance panel with speech unit
B- Additional door lock button
C- 12V~ electric lock
D- Speech unit type 930 - 930A
E- Power supply type 836

DIAGRAM N° cc3940-2

LIST OF SYSTEM COMPONENTS (Diagram ref. CC3941)

Diagram ref.	type	Denomination	Quantity
A	6201	Interphone	n
A1	8877	Interphone	n
B	836	Power supply	1
C	GALILEO SECURITY		
	GALILEO or PATAVIUM series	Entrance panel	1
D	930 or 930A	Speech unit	2
E	-	Electric lock 12V AC	1
F	142A - 142B ... 142I or (162A - 162B ... 162I)	Porter switchboard	1
G	-	Additional door lock push-button	1
H	2/831	Call generator	1
I	832/030	Power supply transformer	1
L	149A	Night service interphone	1
M	149/162 (Only with 162 series switchboards)	Telephone switching module	1
N	839/302	Switching module	1
n	-	Number of users	n

Wiring diagram N. cc3941 can be used both for 142 series and 162 series switchboards. The latter are connected differently only if the external telephone line is used. For use, see the instructions on the previous pages.

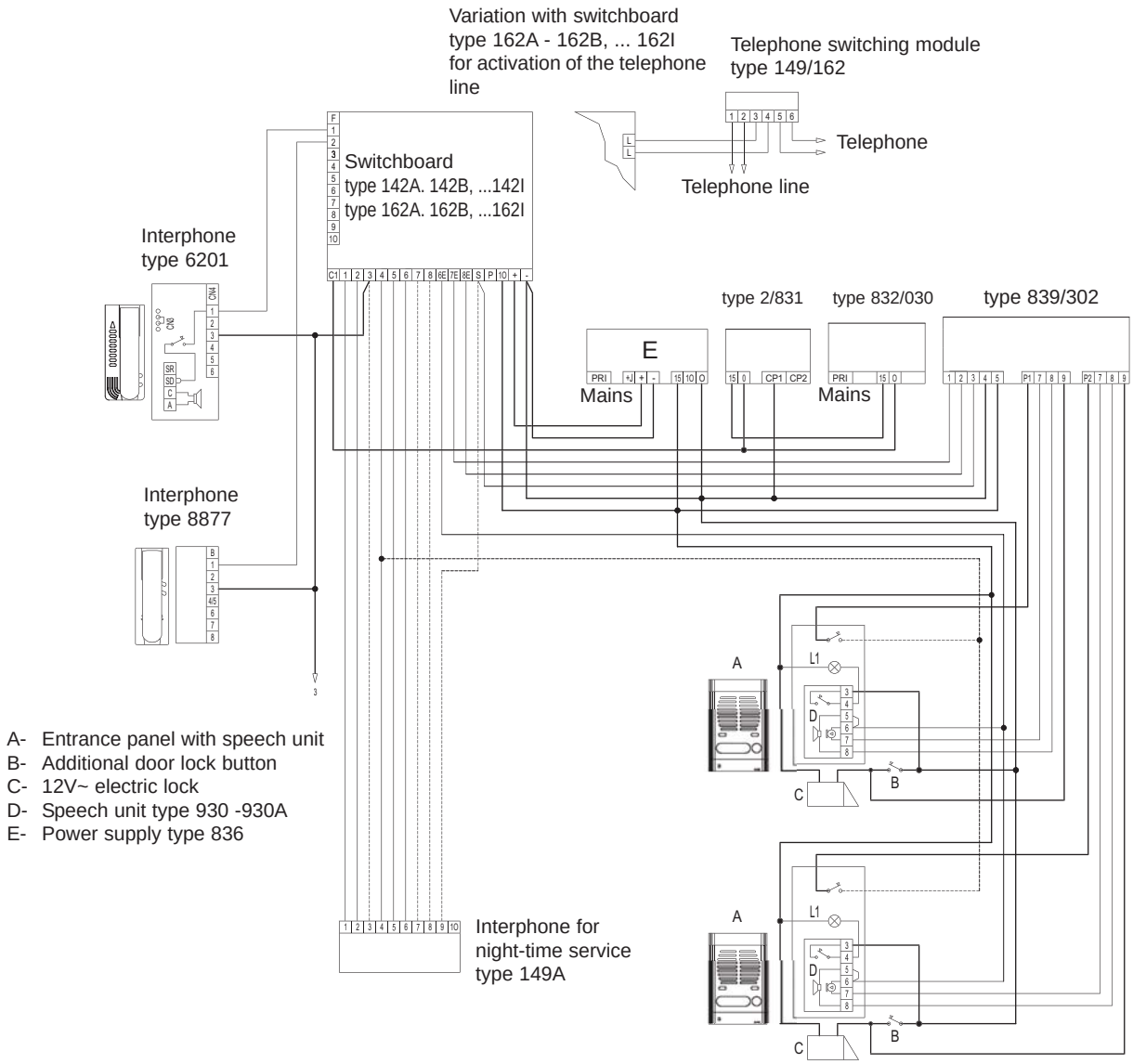


In the event of a short circuit, the protection devices (PTC) switch off the mains voltage. Once the short circuit has been eliminated, wait for a few minutes to allow the protection device to cool down so that the unit can return to normal operation.

N. B. The system can be completed by adding other services. To do this, consult the variations on the standard connection relating to the various components of the system, on pages 80 to 86.

BLOCK DIAGRAM N° sb1261

SYSTEM WITH 142 AND 162 SERIES PORTER SWITCHBOARD WITH INTERPHONE FOR NIGHT SERVICE, ENTRANCE PANEL, TELEPHONE LINE AND 2 SPEECH UNITS

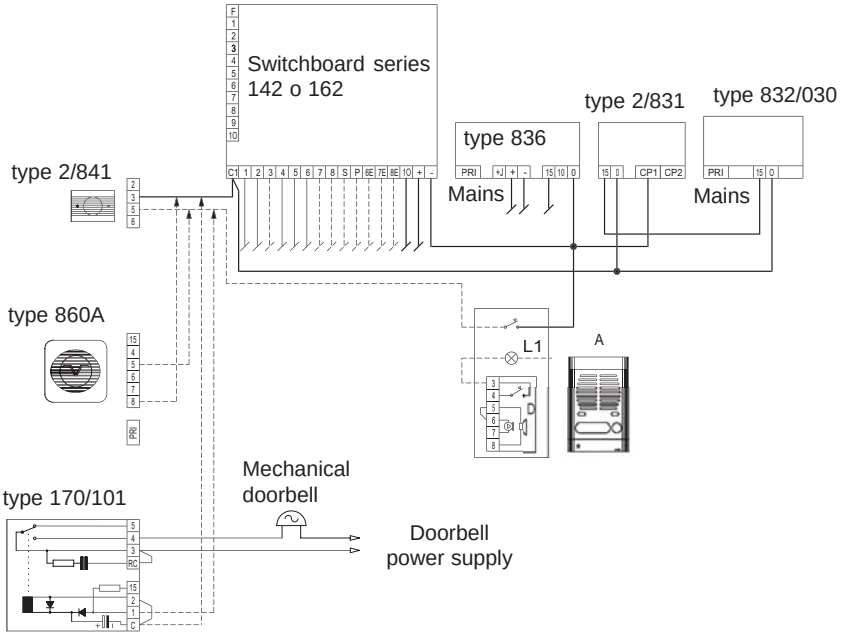


A- Entrance panel with speech unit
B- Additional door lock button
C- 12V~ electric lock
D- Speech unit type 930 -930A
E- Power supply type 836

WIRING DIAGRAM N° cc3941

Variation A - Diagram for the connection of additional ringtones

During Night service, calls from the entrance panel activate only the ringtone of the interphone for night service type 149A. If you need to activate calls from the entrance panel both with Daytime service and with Night service, use a call repeater type 2/841, or ringtone type 860A, or a repeater relay type 170/101 which activates a mechanical doorbell supplied by the mains. These call indication systems must be connected as shown in this version.



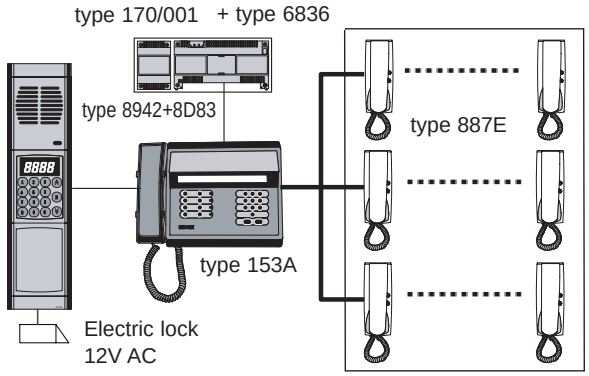
SYSTEM DESCRIPTION

The porter switchboard is available in a desk-top version in black thermoplastic. You can connect up to a maximum of 130 interphones types 887E to it. It can also be connected to a "DIGI-BUS" series entrance panel or to a standard entrance panel with a single button.

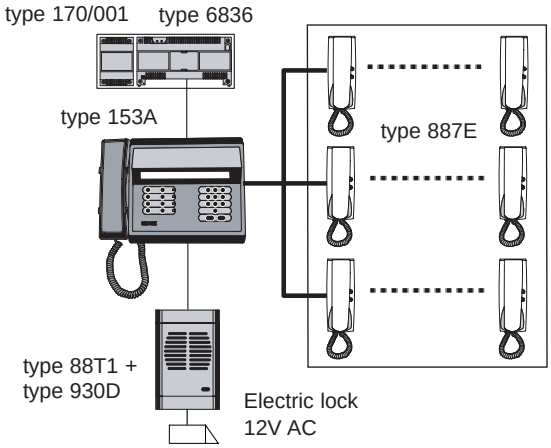
Three main types of system can be set up:

A) Switchboard with up to 120 internal users with "DIGI-BUS" entrance panel (diagram cc4347).

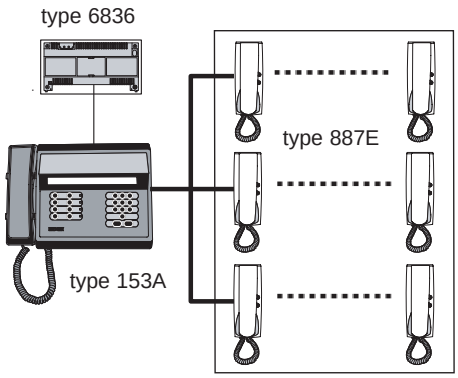
The switchboard can call or be called by all the users.
The users can converse with each other after first calling the switchboard. The switchboard can be called, can converse with the entrance panel and activate the electric lock. All the users can be called and converse with the entrance panel and activate the electric lock, if programmed to do so.



B) Standard switchboard for up to 120 internal users with entrance panel with a single push-button (diagram cc4350).
The switchboard can call or be called by all the users. The users can converse with each other after first calling the switchboard. The switchboard only can be called and can converse with an entrance panel and activate the electric lock.



C) Standard switchboard for up to 120 internal users (diagram cc4355).
The switchboard can call or be called by all the users.
The users can converse with each other after first calling the switchboard.

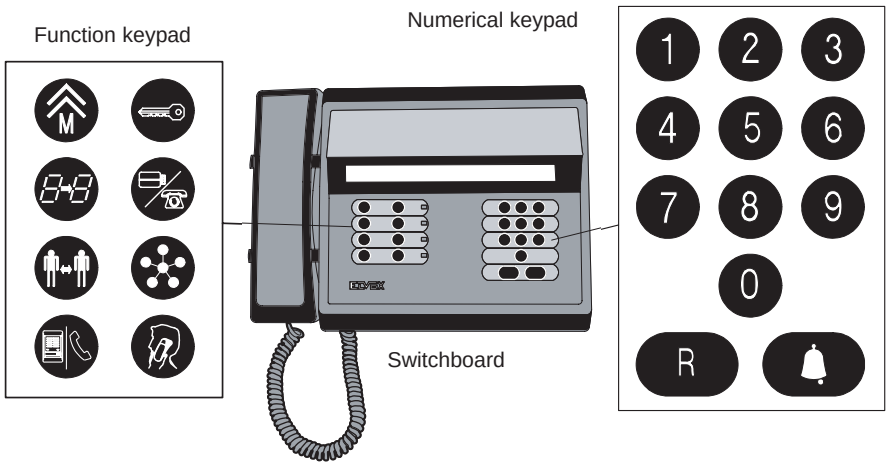


INSTALLING the devices is simple. The switchboard is connected to a plug, which must be plugged into a terminal board, to which the whole system is connected.
The supply unit can be installed in a cabinet with DIN modules. Fit a bipolar switch for disconnection of the system from the mains power in the event of maintenance. The lock control relay is housed in the same cabinet.
The entrance panel must be installed at the entrance. The interphones are all suitable for wall-mounted.
Connection is matrix type and envisages 12 cable riser output terminals (decades) and 10 line output terminals.
In total, 22 wires (terminals) can connect up to 120 users (12 decades x 10 lines).
A suitable sized junction box should be installed for each floor, holding the terminal boards for the leads (10 for the lines and 1 or more for the decades). These junction boxes will receive the cables from the switchboard or other floors and will route the twisted pairs, one for each interphone.
Other terminals are connected to the power supply, the relay and the entrance panel. (Refer to attached diagrams).
Once you have made all the electrical connections (make certain that all the interphones are correctly replaced: hung on the base) power the system up.
If possible use a twisted telephone cable for the electrical connection of the devices.
With sections of 0.25 mm^2, which equates to a diameter of 6/10, the maximum length of the connection cables is 100 m. Where possible, use shielded cable connected to switchboard terminal "-".

SYSTEM OPERATING PRINCIPLE

The audio door entry system consists of a group of interphones relating to one building cable riser, connected to an analogue door entry switchboard for communication via an analogue twisted pair line. The switchboard can be connected to an entrance panel. Selection of a single interphone on the cable riser uses the principle of matrices: for each level it is possible to select one of the "n" interphones on that level.The switchboard periodically checks the state of the interphones, by measuring their impedance:
1) Interphone in place (impedance rest status);
2) Interphone released (impedance activated).

Description of switchboard type 153A
Analogue, desk-top device controlled by a microcontroller, and consisting of interphone, alphanumeric display for displaying the functions, indicator LED, numerical keypad for dialling, keypad for keying the functions. Equipped with 2.2 m. of cable with terminal block and removable plug.



Description of function keys

The key can recall in sequence all unanswered calls (with a progressive index, in which the greatest value indicates the most recent call).

The key retrieves the previously selected call from the memory, and enables you to make the call directly by means of the key .

This key activates the lock control circuit (closes a contact which activates a control relay for the electric door lock).

This key disables the switchboard (operation in "Disabled" mode). All the keys on the keypad, except this one, are disabled: the switchboard will automatically transfer any call from the entrance panel. In the case of a standard entrance panel, on which the single key serves to send a call to the switchboard only, this mode is not valid. If the push-button is pressed again, the switchboard returns to "Enabled" mode: switchboard active.

On request from an external call from the entrance panel to an interphone on the cable riser, the operator selects directly the desired internal number (numerical selection +), and on consent from the selected user, by means of the key , the switchboard enables communication between the interphone and the entrance panel.

This key enables activation of the voice circuit to the entrance panel at all times; otherwise, in the case of an external call during communication between two interphones, it sets priority to communication with the external panel.
When the key is pressed again, the panel is set to the standby tone to enable the switchboard, by means of the enable key , to intercept the communication between the two interphones to request interruption. When the key is pressed again, it re-activates communication with the entrance panel.

The enable key allows the operator to intercept all vocal communication (between two interphones or between an interphone and an entrance panel). When the key is pressed again the switchboard is excluded from the conversation in progress.

This key enables communication between two interphones: the user requesting communication with another calls the switchboard, which sets the first interphone to standby and by means of the selection sequence (numerical selection +) calls the second user, who on consent is put in communication with the first user by means of the key in question.

Numerical keypad (for dialling user numbers maximum 4 digits, and relative call).
1-2….9-0 Numerical keys for dialling the number of the user.

Key for sending the call to the selected interphone.

R The key cancels the previous selection.

Notes: pressing the R key also enables immediate cancellation of a call in progress;

LED indicators on keypad
The keyboard is fitted with four indicator LEDs to show specific statuses of the switchboard when activated and connected to the cable riser and entrance panel.
Display is as follows:

MEMORY LED 1 when lit indicates the presence of one or more unanswered calls.

EXTERNAL LED 2 Activation of communication with external entrance panel if switchboard is active to outside.

INTERC. LED 3 When lit, indicates intercommunication active between two interphones.

LED 4 LINE When lit indicates the presence of voice communication between switchboard and an interphone on the cable riser;

Analogue switchboard/interphone system technical specifications

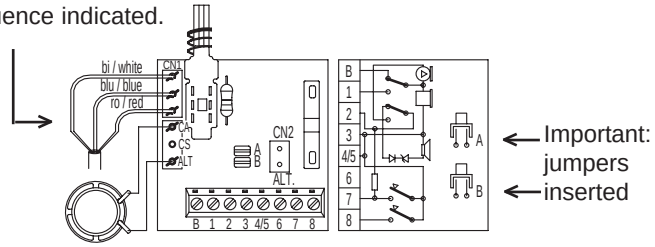
Switchboard:
Power supply: 12 -13 V D.C.
Maximum current absorption: 260 mA
Maximum number of connectable interphones: 130

Reference to terminal board of switchboard-cable riser connection boss

N. 10 line terminals (L1.....L10)
N. 13 decade terminals (D0.....D12)
N. 2 power terminals (+ / -)
N. 1 entrance panel voice terminal (A)
N. 1 digital signal terminal (TX)
N. 1 lock relay control terminal (S)
N. 1 single push-button external panel call terminal (CH)
N. 1 terminal not used (F1)

Important:
position the interphone conductors with the colours in the sequence indicated.

The switchboard is designed to operate with interphones type 887E equipped with loudspeaker for Sound-System call



type 887E

Method for connection of single interphone to cable riser

Example: system with 120 interphones (max. limit 130), connection of interphone N.114. In this case wire as follows:

- Connect wire of interphone terminal 3 to terminal D11 of the switchboard boss corresponding to decade 11.
- Connect the wire of terminal 2 of the interphone to terminal L4 of the switchboard boss corresponding to line 4.
  In the same way interphone N.118 is connected to decade D11 but to line L8.
  Using the same wiring principle, interphone N.5 is connected via the cable riser to the boss as follows:
- Connect wire of interphone terminal 3 to terminal D0 of the switchboard boss corresponding to decade 0.
- Connect the wire of interphone terminal 2 to terminal L5 of the switchboard boss corresponding to line 5.

WIRING DIAGRAM FOR AUDIO DOOR ENTRY SYSTEM WITH PORTER SWITCHBOARD type 153A WITH TYPE "C" SERVICE

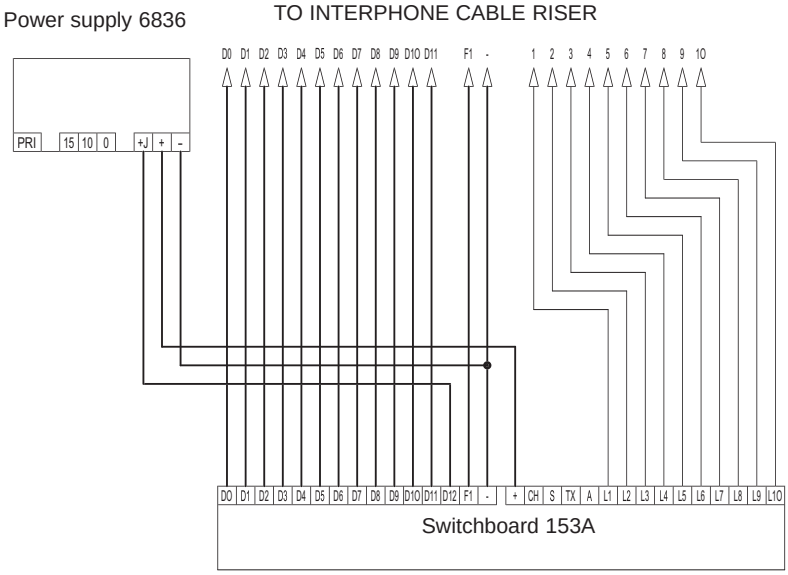


DIAGRAM N° cc4471R2

WIRING DIAGRAM FOR AUDIO DOOR ENTRY SYSTEM WITH PORTER SWITCHBOARD TYPE 153A AND SPEECH UNIT TYPE 930D

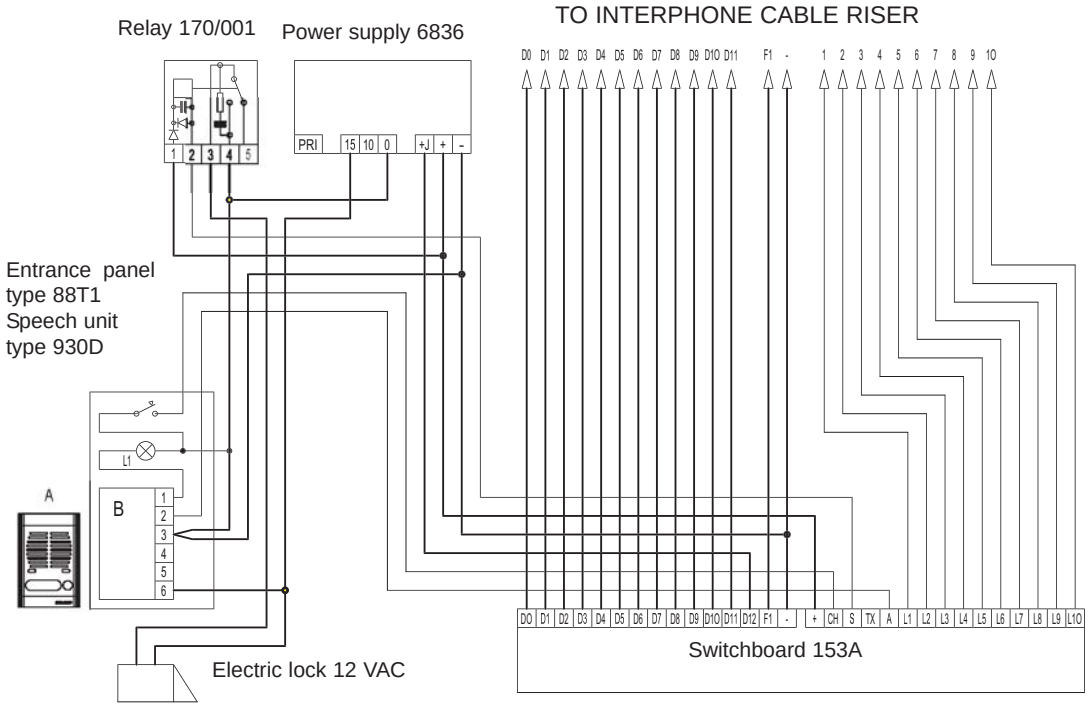
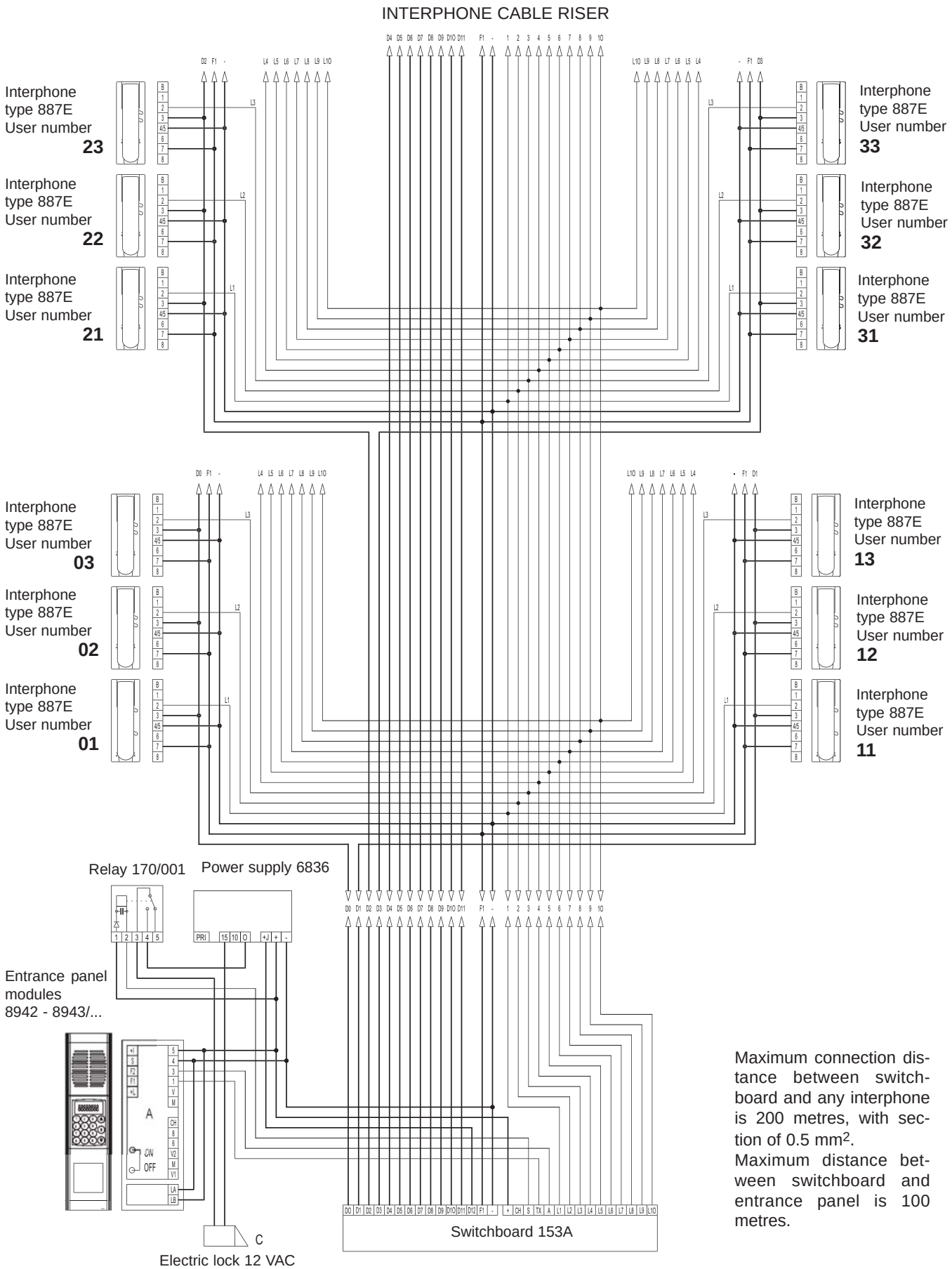


DIAGRAM N° cc4470R2

WIRING DIAGRAM FOR AUDIO DOOR ENTRY SYSTEM WITH PORTER SWITCHBOARD type 153A AND SPEECH UNIT WITH DIGI-BUS ENTRANCE PANEL



Maximum connection distance between switchboard and any interphone is 200 metres, with section of 0.5 mm^2.
Maximum distance between switchboard and entrance panel is 100 metres.

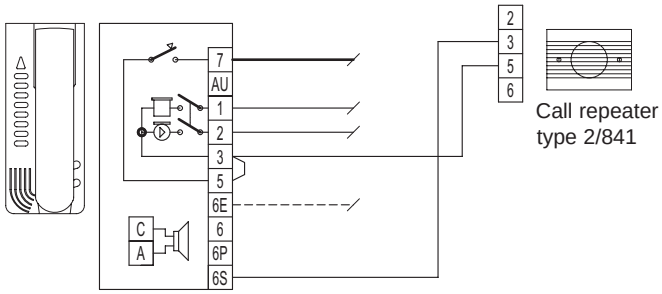
DIAGRAM N° cc4469R2

VARIATION 1

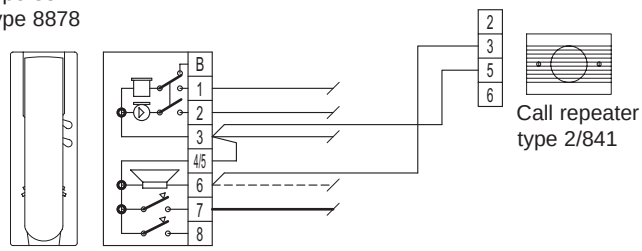
Wiring diagram of call repeater type 2/841.

Loudspeaker module type 2/841 repeats the interphone call signal without changing its tone.

Interphone
type 6200



Interphone
type 8875
type 8872
type 8878

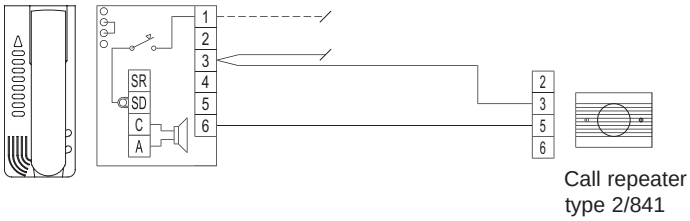


VARIATION 2

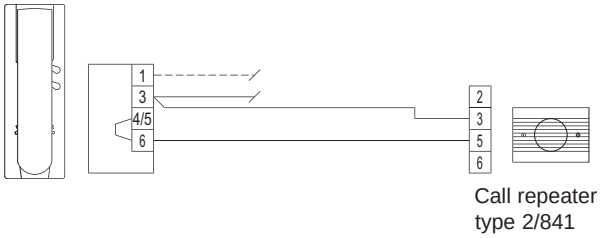
Wiring diagram of call repeater type 2/841.

Loudspeaker module type 2/841 repeats the interphone call signal without changing its tone.

Interphone
type 6201



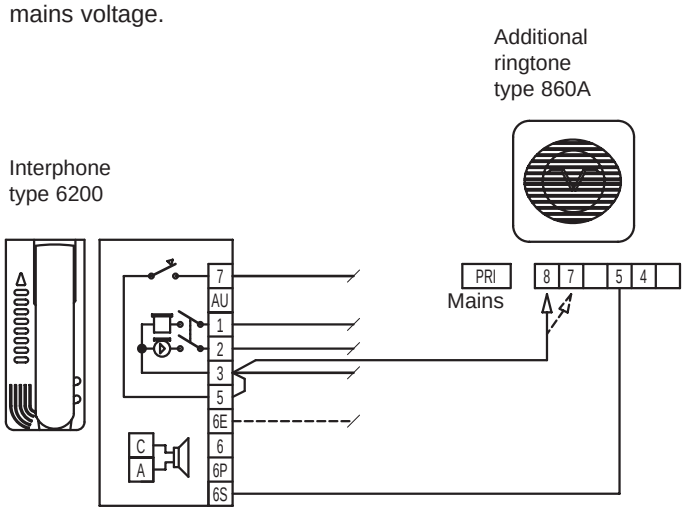
Interphone
type 8873
type 8877

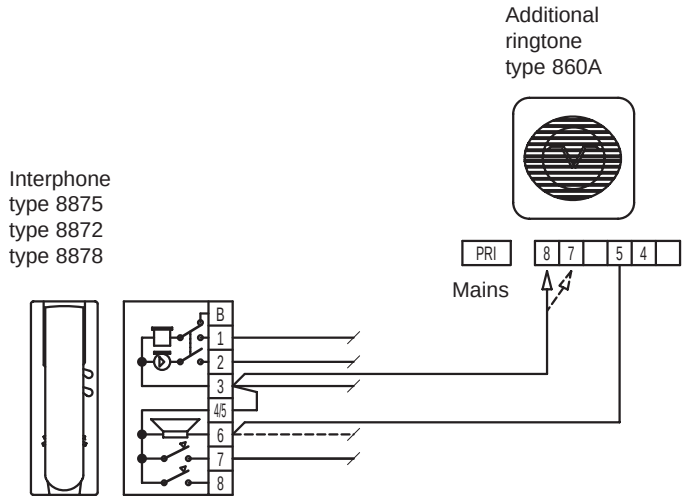


VARIATION 3

Wiring diagram of additional electronic ringtone type 860A.

N.B. Electronic ringtone type 860A features a two or three-note ringtone which is selected by connection to the corresponding terminal (7 or 8). The ringtone is powered by the mains voltage.

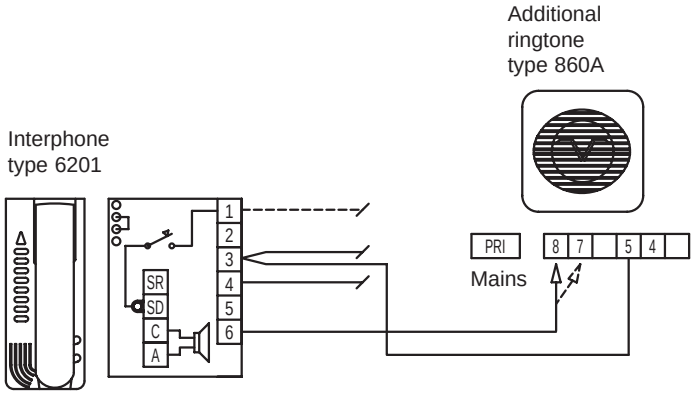


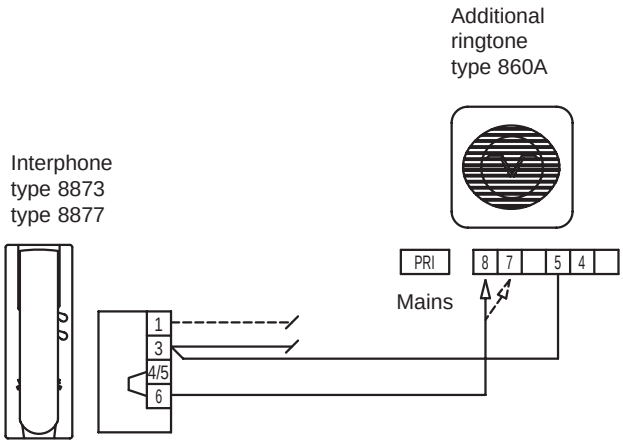


VARIATION 4

Wiring diagram of additional electronic ringtone type 860A.

N.B. Electronic ringtone type 860A features a two or three-note ringtone which is selected by connection to the corresponding terminal (7 or 8). The ringtone is powered by the mains voltage.

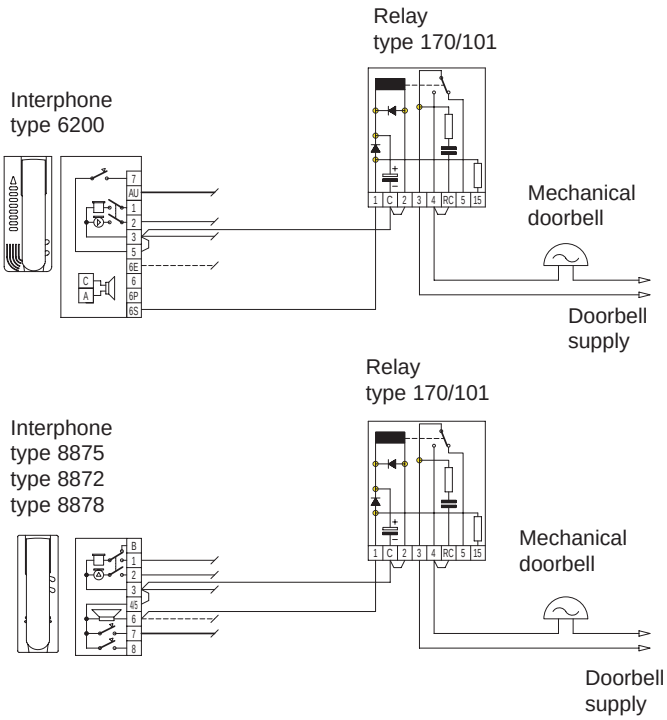




VARIATION 5

Wiring diagram of additional mechanical doorbells.

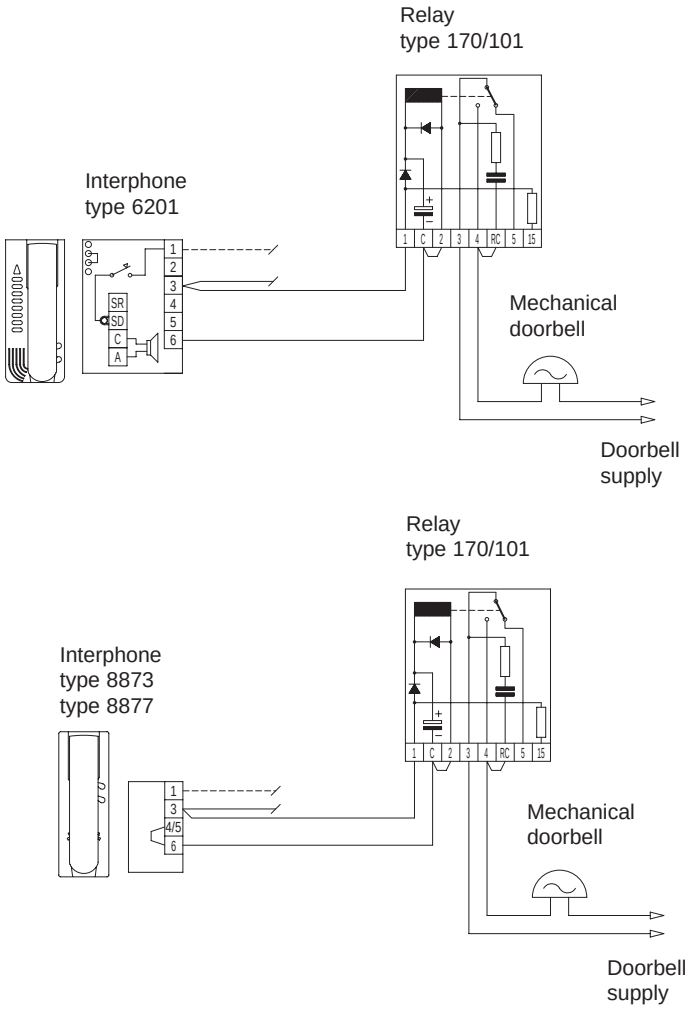
You can connect additional doorbells operating at 12V AC or mains AC, using relay type 170/101, by connecting them as shown in the diagram.



VARIATION 6

Wiring diagram of additional mechanical doorbells.

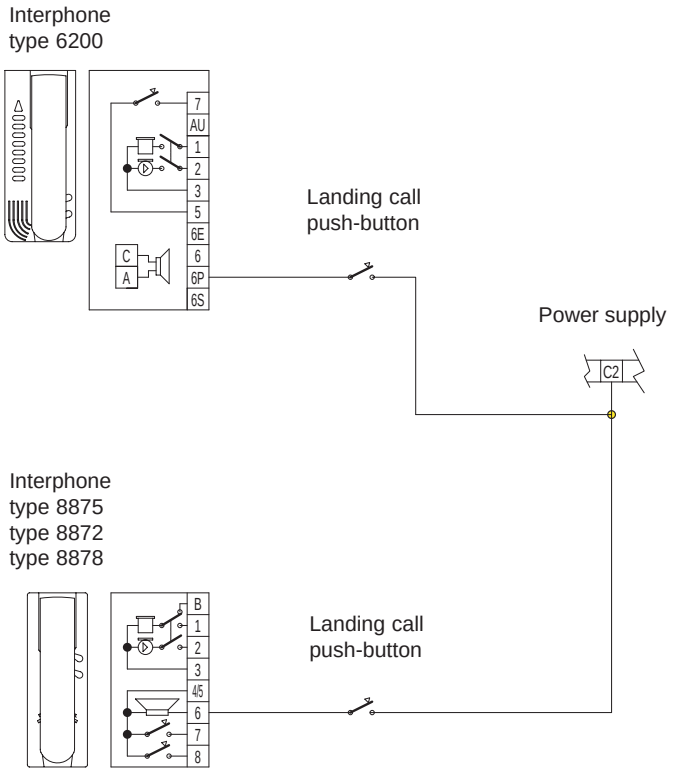
You can connect additional doorbells operating at 12V AC or mains AC, using relay type 170/101, by connecting them as shown in the diagram.



VARIATION 7

Wiring diagram of landing call with power supplies type, 931, 931A, 936, 938A and 931/0TC (from terminal C2).

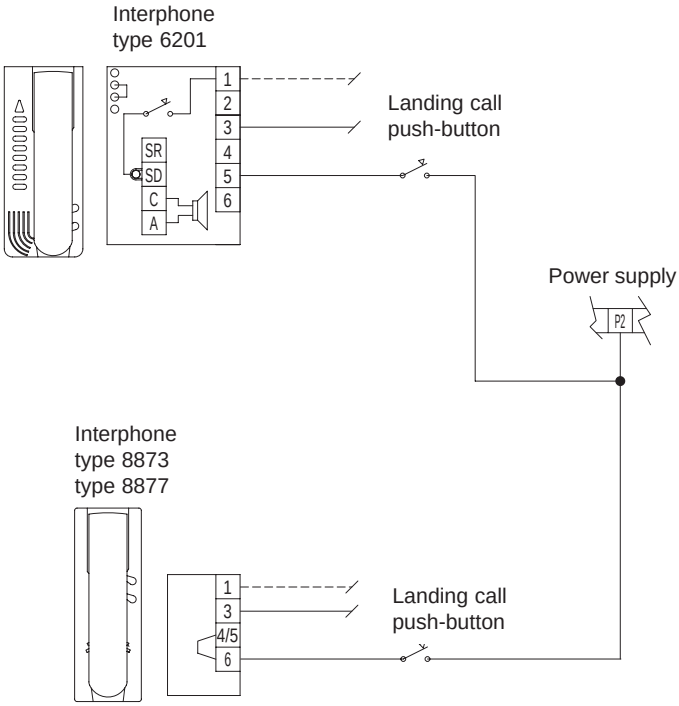
When the landing call push-button is pressed, the interphone emits a different tone from the tone emitted by a call from the entrance panel.



VARIATION 8

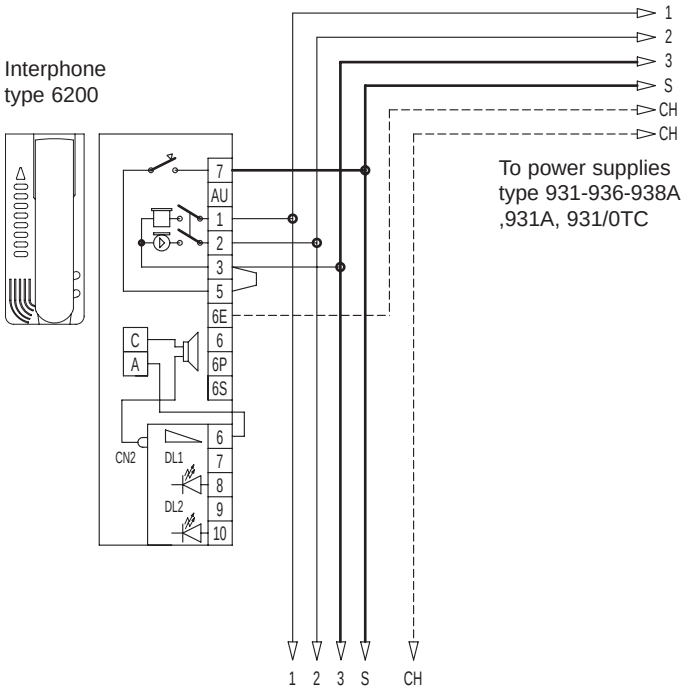
Wiring diagram of landing call with power supplies type 6837 and 837/0TC (from terminal P2).

When the landing call push-button is pressed, the interphone emits a different tone from the tone emitted by a call from the entrance panel.



VARIATION 9

Wiring diagram of type 6153 with 6200 series interphones, without LEDs.



DESCRIPTION OF MODULE TYPE 6153

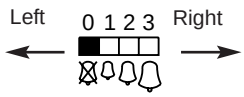
On interphones with PETRARCA series call loudspeaker type 6200 - 6201 the switching module type 6153 enables you to control the ringtone volume or disable it. The device is also equipped with two LEDs, one for indicating ringtone disabled (red indicator) and one for "lock open" (green indicator); the use of these two devices requires additional connections as shown in the wiring diagrams.

INSTALLATION ON PETRARCA SERIES 6200 - 6201 INTERPHONES

- Open the interphone
- Snap off the plastic lamina by exerting pressure on it
- Insert the card in its seat and fix it with the screw supplied
- Disconnect the loudspeaker wire from "A" on the interphone.
- Insert the removed wire onto the pin (CN2) on the card type 6153.
- Insert the wire pre-connected to terminal n° 6 of type 6153, on pin "A" of the interphone

N.B. On terminal n° 7 of card type 6153, there is a wire to be used for visual indication that the ringtone is disabled.

Call tone level selection

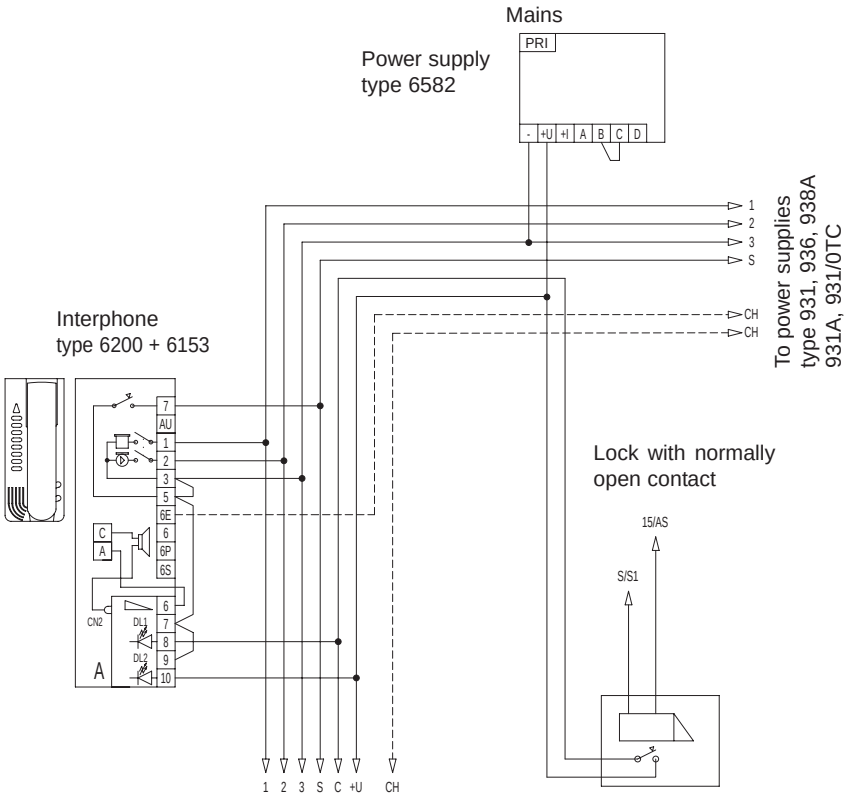


Position "0": ringtone OFF
Position "1": minimum volume
Position "2": medium volume
Position "3": maximum volume

N.B. In position "0" (ringtone OFF) terminals 7 - 10 are short-circuited, thus enabling the red LED to light.

VARIATION 10

Wiring diagram of type 6153 with interphone type 6200 and ringtone OFF indicator module (red LED) and lock open indicator module (green LED).



By means of switch for type 6153, it is possible to set call intensity to one of three levels or disable the ringtone with visual indication by means of a LED.
Furthermore, by connecting a lock equipped with a normally open contact, it is possible to indicate the "lock open" state.

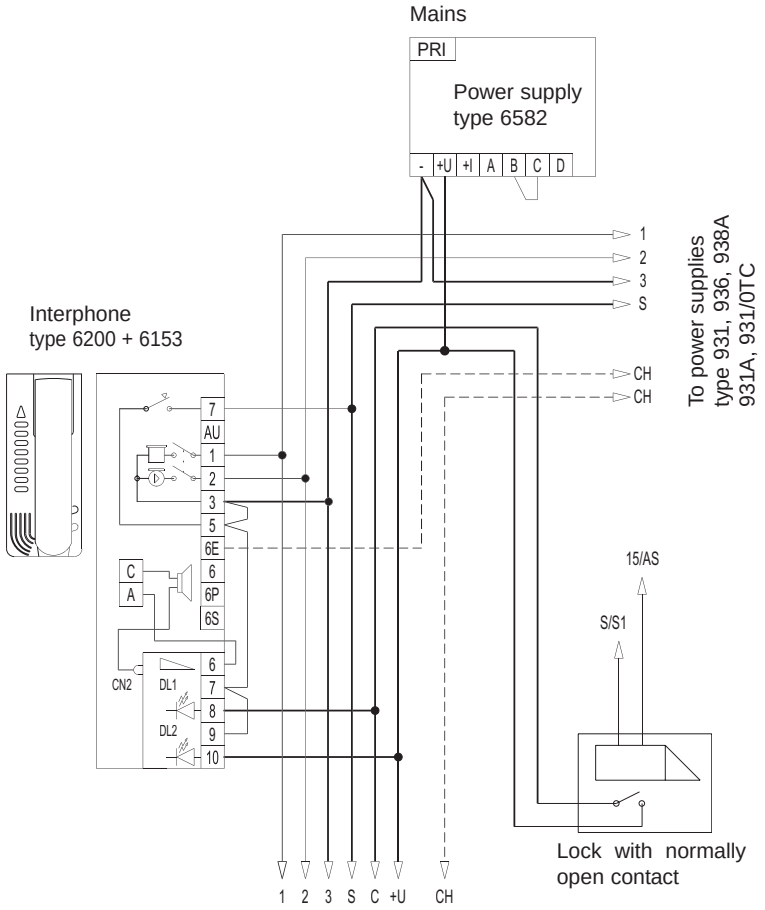
IMPORTANT
The connection to terminal 9 of type 6153, (cable riser "C"), activates the "lock open" indicator.
The connection to terminal 10 of type 6153, (cable riser "+U"), activates the "ringtone OFF" indicator.

For switching on the indicator diodes, the power supply used in the diagram is type 6582. This allows switch-on of 25 LEDs simultaneously. For larger quantities, it is necessary to use further additional power supplies.

DL1 - Green LED: Lock open.
DL2 - Red LED: Call tone OFF.

VARIATION 11

Wiring diagram of type 6153 with interphone type 6200 and ringtone OFF indicator module (red LED) and "lock open" indicator module (green LED).



By means of switch type 6153 it is possible to set call intensity to one of three levels or disable the ringtone with visual indication by means of a LED.
Furthermore, by connecting a lock equipped with a normally open contact, it is possible to indicate the "lock open" state.

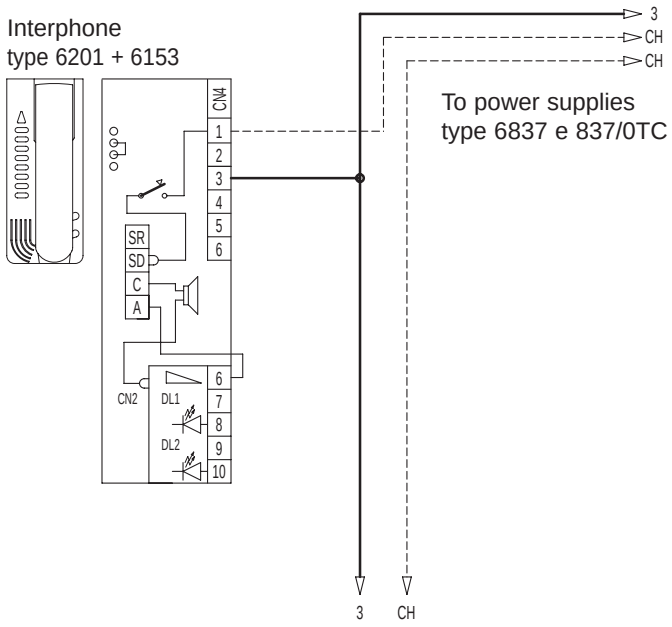
IMPORTANT
The connection to terminal 9 of type 6153, (cable riser "C"), activates the "lock open" indicator.
The connection to terminal 10 of type 6153, (cable riser "+U"), activates the "ringtone OFF" indicator.
For switching on the indicator diodes, the power supply used in the diagram is type 6583. This allows switch-on of 180 LEDs simultaneously. For
larger quantities, it is necessary to use further additional power supplies

DL1 - Green LED: Lock open.
DL2 - Red LED: Ringtone OFF.

VARIATION 12

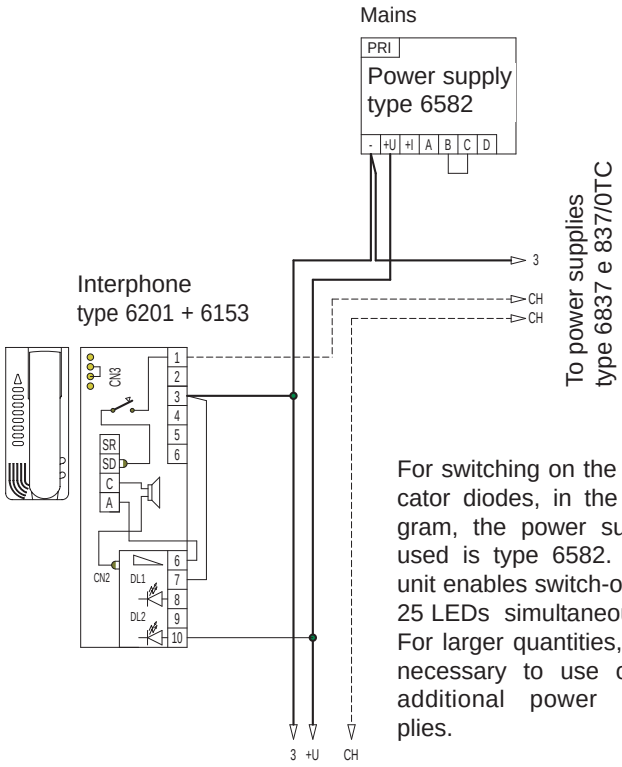
Wiring diagram of type 6153 with 6201 series interphones.

By means of switch type 6153 it is possible to set the ringtone intensity to one of three levels or disable the ringtone.



VARIATION 13

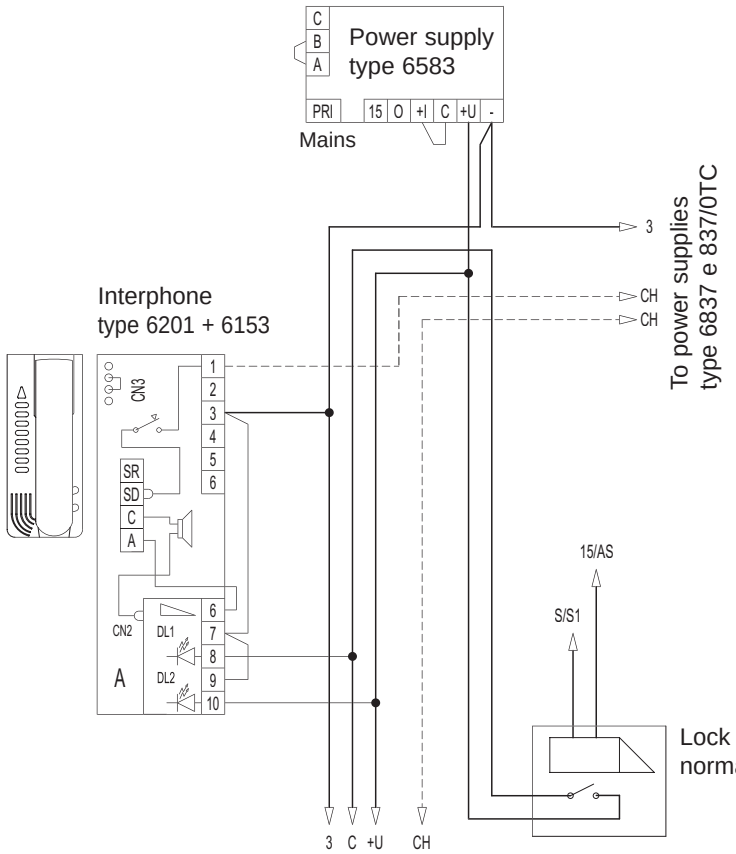
Wiring diagram of type 6153 with interphone type 6201 and ringtone OFF indicator module (red LED) and "lock open" indicator module (green LED).



For switching on the indicator diodes, in the diagram, the power supply used is type 6582. This unit enables switch-on of 25 LEDs simultaneously. For larger quantities, it is necessary to use other additional power supplies.

VARIATION 14

Wiring diagram of type 6153 with interphone type 6201 and ringtone OFF indicator module (red LED) and "lock open" indicator module (green LED).



By means of switch type 6153 it is possible to set call intensity to one of three levels or disable the ringtone with visual indication by means of a LED. Furthermore, by connecting a lock equipped with a normally open contact, it is possible to indicate the "lock open" state.

IMPORTANT

The connection to terminal 9 of type 6153, (cable riser "C"), activates the "lock open" indicator.
The connection to terminal 10 of type 6153, (cable riser "+U"), activates the "ringtone OFF" indicator.

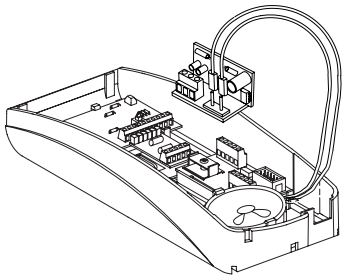
For switching on the indicator diodes, the power supply used in the diagram is type 6583 With this unit it is possible to switch on 180 LEDs simultaneously. For larger quantities, it is necessary to use further additional power supplies.

DL1 - Green LED visual indicator: Lock open.
DL2 - Red LED visual indicator: ringtone OFF

TECHNICAL SPECIFICATIONS OF RINGTONE TYPE 6150
- Two-tone sound signal - power supply: 13.5 ÷ 18Vc.c. - Consumption 75mA

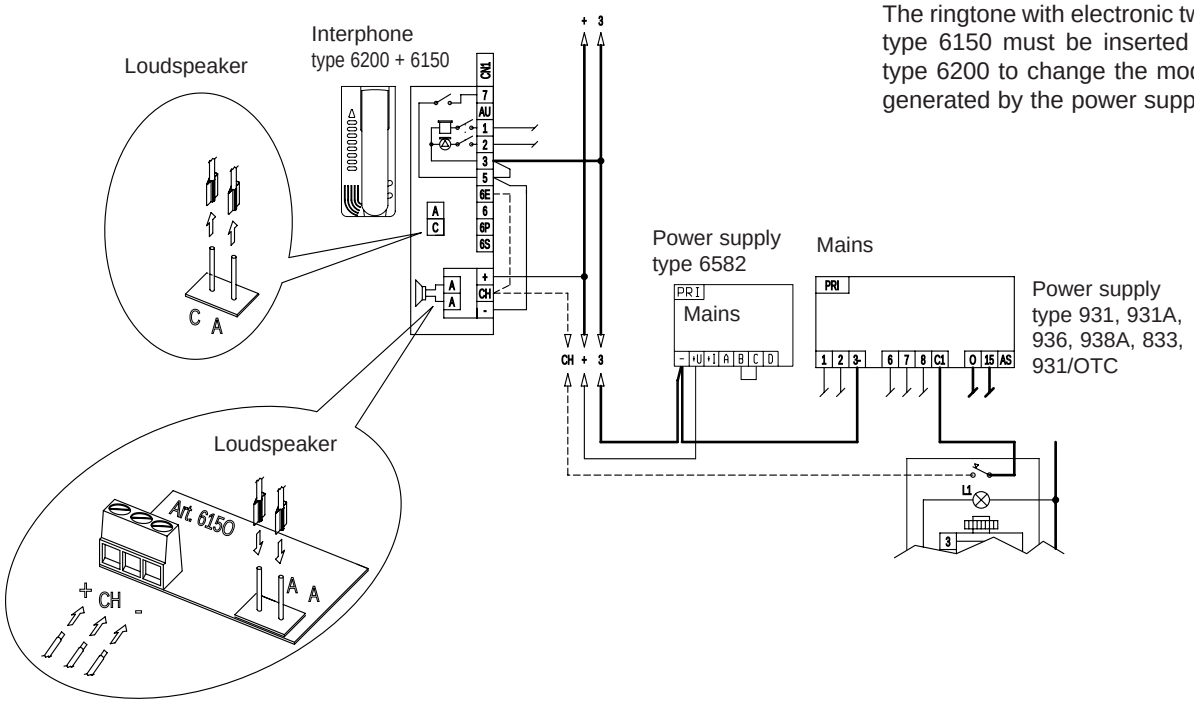
Description
DING-DONG ringtone card for installation in interphones type 6200 - 6201 in the PETRARCA series. Once installed, the card enables the interphone to be used in systems with AC call or, if fitted in SOUND SYSTEM installations, converts the sound of the interphone from modulated to two-tone (DING-DONG).

RINGTONE ASSEMBLY
1) Open the interphone by separating the cover from the base.
2) Insert the electronic card in its seat and fix with the screw supplied.
3) Remove the 2 loudspeaker conductors (Faston type) from the standard interphone card and insert them (without taking account of polarisation) in the two pins (denominated "A-A") of ringtone type 6150.
4) Make the connection as shown in the diagrams attached.



VARIATION 15

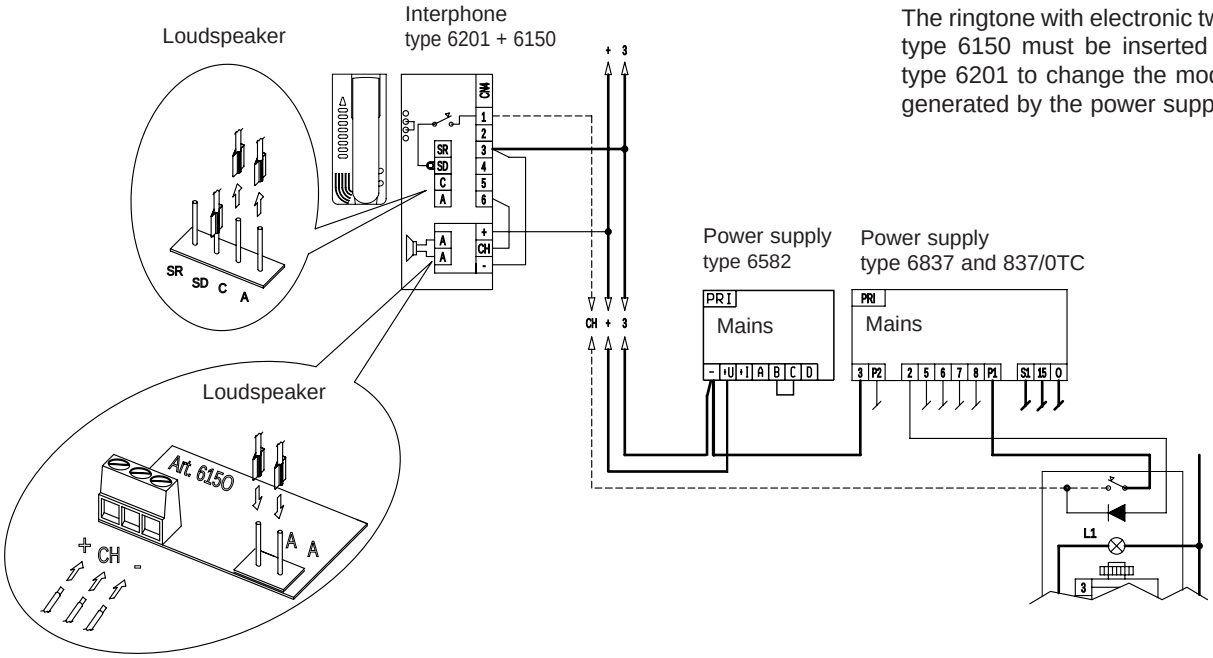
Wiring diagram of interphone type 6200 with "SOUND SYSTEM" call and ringtone type 6150.



The ringtone with electronic two-tone sound type 6150 must be inserted in interphone type 6200 to change the modulated sound generated by the power supply.

VARIATION 16

Wiring diagram of interphone type 6201 with ringtone type 6150 and power supply type 6837.



The ringtone with electronic two-tone sound type 6150 must be inserted in interphone type 6201 to change the modulated sound generated by the power supply.

VIDEO DOOR ENTRY SYSTEMS WITH SOUND SYSTEM CALL

MINIMUM CONDUCTOR SECTION FOR STANDARD VIDEO DOOR ENTRY SYSTEM AND TWO-CHANNEL VARIATION WITH COAXIAL CABLE (in mm²)

Section type	Terminals	Ø up to 50 m.	Ø up to 100 m.	Ø up to 200 m.
a	0, 3, 12, 15, -, +, AS, S1 C1, C2, C3, P1, P2, +T lock, calls	1 mm^2	1,5 mm^2	2,5 mm^2
b	Other	0,75 mm^2	1 mm^2	1,5 mm^2
Video	75 Ohm coaxial cable (type RG59) or RG11double insulation			

OPERATION

The video door entry installation consists of one camera entrance panel with speech unit, one power supply and one or more monitors. The system can operate with monitors and B/W or colour cameras and with or without conversation privacy.
The power supply is not equipped with intercommunicating section; nevertheless it is possible to set up a monitor and/or intercommunicating interphones network using switching module type 935A in conjunction with the basic power supply.

When an entrance panel push-button is pressed, the ringtone rings in the corresponding apartment. Almost immediately the image of the caller appears on the monitor. The coverage area is illuminated by built-in infrared leds when using B/W camera, or by a built-in white light when using a colour camera.
If desired, the user may simply raise the interphone, communicate with the caller and, if appropriate, activate the door-opener. In this case, door-opening time may be varied from 1 to 30 seconds using the potentiometer P3.
The system turns itself off automatically after a preset time, adjustable from 30 to 90 seconds using potentiometer P1 inside the power supply. If the caller presses another user's push-button, the previously called monitor is automatically disactivated without waiting for the end of the preset time. When testing the installed system, use trimmer P2 to adjust the optimal volume of the speech unit. For simultaneous activation of two or more monitors one extra power supply type 6582 must be installed for each additional monitor or type 6583 for more monitors. A blocking circuit cuts off power to monitors if the line is overloaded or short-circuited. The power supply is also equipped with a specific device to eliminate any buzzing on the voice circuit caused by the use of wires that are too long and/or too thin only in installations with "SOUND SYSTEM" call. Push-buttons with name-tags are illuminated through output 0-15 on power supply. Up to a maximum number of three 24V 3W bulbs can be connected. An additional transformer, type M832 or 832/030 is required for entrance panels with more bulbs.

Technical specifications of power supply type 6680 - (6680/V03)

Type 6680 is the basic power supply for all video door entry systems with SOUND SYSTEM call and is equipped with an electronic double tone generator, which replaces conventional alternative calling with a buzzer or bell. The sound is emitted with two different tones (present on terminals C1-C2) thereby allowing the user to immediately identify the source of the call (main entrance, gate, garage, etc.). This feature provides economic and practical advantages since the use of several conventional sound emitting systems is no longer required; the signal is emitted from a single loudspeaker in the interphone. In some cases, savings can be made on the cable routing work requirements for additional bell systems. Manufactured in copolymer class V-0 housing; preset for mounting on cases with 12-Module DIN support or with expanding plugs with screws.

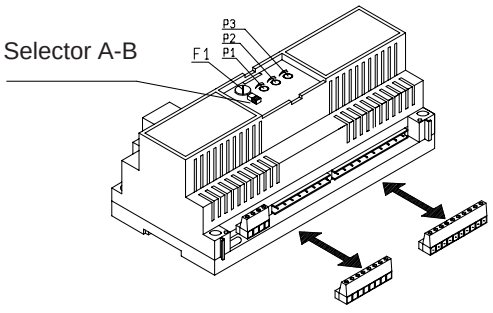
- 230V A.C. 50Hz supply (other voltages on request)
- 60VA maximum absorbed power.
- 18V D.C. 0.8A monitor supply.
- 13V D.C. 0.3A camera supply.
- 15V rectified voltage 0.25A continuous duty output for push- push-button illumination (3x24V 3W max)
- 15V A.C. 1A door lock output; intermittent service.
- Amplified audio door entry system.
- Timer and automatic disconnection device of monitor previously activated.
- Interchangeable cards for quick maintenance.
- Removable terminal blocks.

POWER SUPPLY OPERATING MODES

- Selector set A-B:
- "A" Position: operating with sound system call, to be used in case of humming noises (caused by power supply, door lock or lamps) dectected on the interphone line.
- "B" Position: normal operation with Sound System call, switching module in "A" position only in case of humming noises on the audio line.
- "B" Position: operating with 15V A.C. call only. In this case power supply 6680 completely replaces power supply type 6580.

PROTECTION OF POWER SUPPLY:

- Primary coil of transformer by PTC
- 1st. secondary coil for internal electronic supply by F 3,15A 250V (F1) fuse.
- 2nd. secondary coil for lock supply by PTC
- Electronic protection against short-circuits and overloads on monitor cable riser.
- Electronic protection against overloads to speech unit.



Removable terminal blocks

ADJUSTMENTS

P1 - Activation time adjustment for monitor and camera.
P2 - Volume adjustment of speech unit.
P3 - Activation time adjustment for electric lock.

N.B.: The electric door lock must operate by way of an intermittent cycle so that one operating period corresponds to 5 rest periods, thereby preventing the protection device from overheating (one period corresponds to the door lock activation time).

Dimensions type 6680 - 6680/V03: 208x135x72 - Weight: 1.4 Kgs.

TERMINALS FOR MONITOR type 6300, 6301, 6303, 6500, 6501

1: Interphone receiver
2: Interphone microphone
3: Common audio line
4: Button for auxiliary services
5: Power supply negative
6: Power supply positive (minimum input voltage 15V D.C.)
7: Not connected.
8: Call from entrance panel
9: Lock push-button
10: 12V D.C. output for video distributor
11: Landing call
12: System self-start push-button
13: Green LED supply voltage
V1: For systems with coaxial cable, input for connection of the 75 Ohm video cable. For systems without coaxial cable, input for connection of the V1 signal.
V2: For systems with coaxial cable, output for connection of the 75 Ohm video cable or connection of the load resistance of 75 Ohm in the last monitor of the cable riser.
V3: For systems without coaxial cable, input for connection of the V2 signal.
M: Ground for terminals V1, V2, V3.
N.B. The monitors type 6300, 6500 have a microswitch on the back for setting the connection "coaxial cable/without coaxial cable" and one for the setting “conversation privacy/without conversation privacy” (type 6300,6303,6500).

INTERPHONE 6200

CN1: Monitor interface connector
7: Lock release push-button
AU: Monitor self-start control
1: Interphone receiver
2: Interphone microinterphone
3: Phonic common
6E: Entrance panel call
6: Intercommunicating call
6P: Apartment landing call
6S: Ringtone activation output

TERMINALS FOR MONITOR type 6000, 6003

V1: Input for connection of 75 Ohm video cable in systems with coax cable; input for connection of video signal V1 in systems without coax cable.
V2: Output for connection of 75 Ohm video cable or 75 Ohm resistor in last monitor in systems with coax cable.
V3: Input for connection of video signal V2 in systems without coax cable.
N.B. Terminal V3 must be shorted to terminal M in systems with coax cable.
M: Earth for terminals V1, V2 and V3.
+A: Not used
+: Power supply (positive), minimum input voltage 15 V d.c.
-: Power supply (negative), minimum input voltage 15 V d.c.
+D: +12 V d.c. output for video distributor
CH: Monitor activation call
CN2: Monitor interface connector

TERMINALS FOR MONITOR TYPE 6600

1: Interphone receiver
2: Interphone microphone
3: Common audio line
4: Button for auxiliary services
5: Power supply negative
6: Power supply positive (minimum input voltage 15V D.C.)
7: Second auxiliary function
8: Call from entrance panel
9: Lock push-button
10: 12V D.C. output for video distributor
11: Landing call
12: System self-start push-button
13: Green LED supply voltage
V: For systems with coaxial cable, input for connection of the 75 Ohm video cable.
M: Ground for terminals V.
N.B. The monitors type 6600 have a microswitch on the back for setting “conversation privacy/without conversation privacy”.

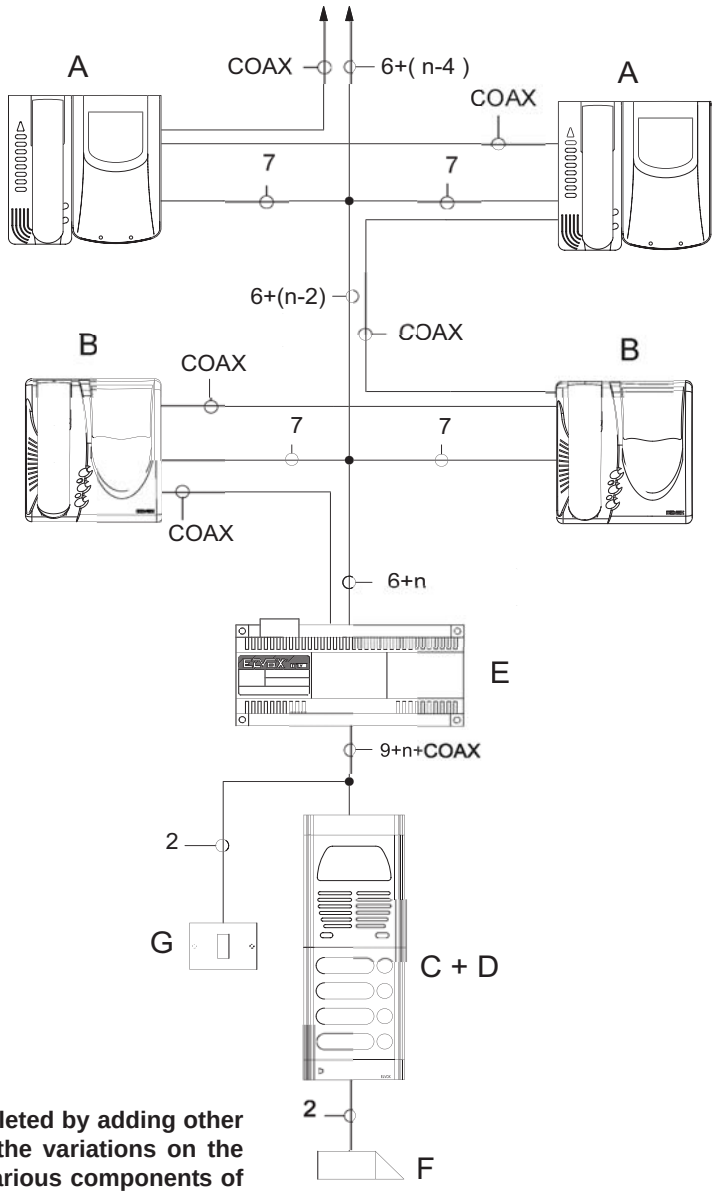
POWER SUPPLY TERMINALS		SUGGESTED CONDUCTOR COLOUR (Ref. Cable type 61/001)	
1:	Interphone receiver	SKY BLUE	CONNECTIONS TO MONITORS + INTERPHONES
2:	Interphone microphone	WHITE	
3:	Common interphone line	PINK	
- :	Negative terminal of monitor supply voltage	BLACK SECT. 1mm	
+:	Positive terminal of 18V D.C. 0.8A monitor supply	RED SECT. 1mm	
S:	Control of lock relay	BROWN	
M:	Block of coaxial cable shield		
V1-V2:	Block of video signal (on coax cable)	COAXIAL CABLE	
6:	Common interphone line for speech unit	PINK	CONNECTION TO CAMERA ENTRANCE PANEL
7:	Speech unit microphone	WHITE	
8:	Speech unit loudspeaker	SKY BLUE	
+T:	13V D.C. 0.3A camera supply voltage	ORANGE	
- :	Negative line for camera supply voltage	BLACK SECT. 1mm	
AM:	Short-circuited to negative line, blocks monitor activation		
0:	0V (with reference to terminal 16)	BROWN	
15:	15V rectified voltage (selector in “A” position).or 250mA alternated (selector in “B” position on continuous operation)	RED SECT. 1mm	
S1:	Wiring to electric lock	BLUE SECT. 1mm	
C1:	Speech unit electronic call	GREEN	
C2:	Electronic call outside apartment landing call	WHITE/GREEN	

LIST OF SYSTEM COMPONENTS (Diagram ref. VC4306) WITHOUT CONVERSATION PRIVACY

Diag. ref.	type	Denomination	Quantity
A	6000 + 6200 + 6145, 6003 + 6200 + 6145	Monitor	n
B	6300, 6301, 6500, 6501, 6303, 6600	Monitor	n
C	Serie GALILEO SECURITY, 8100 GALILEO, PATAVIUM or letter box 2550	Entrance panel	1
D	559, 559A,559B, 559G, 558, 570, 570G, 571 or 559C and 570C	Camera	1
E	6680	Power supply	1
F	-	Electric lock 12V AC	1
G	-	Additional door lock button	1
n	-	Number of calls from entrance panel	n

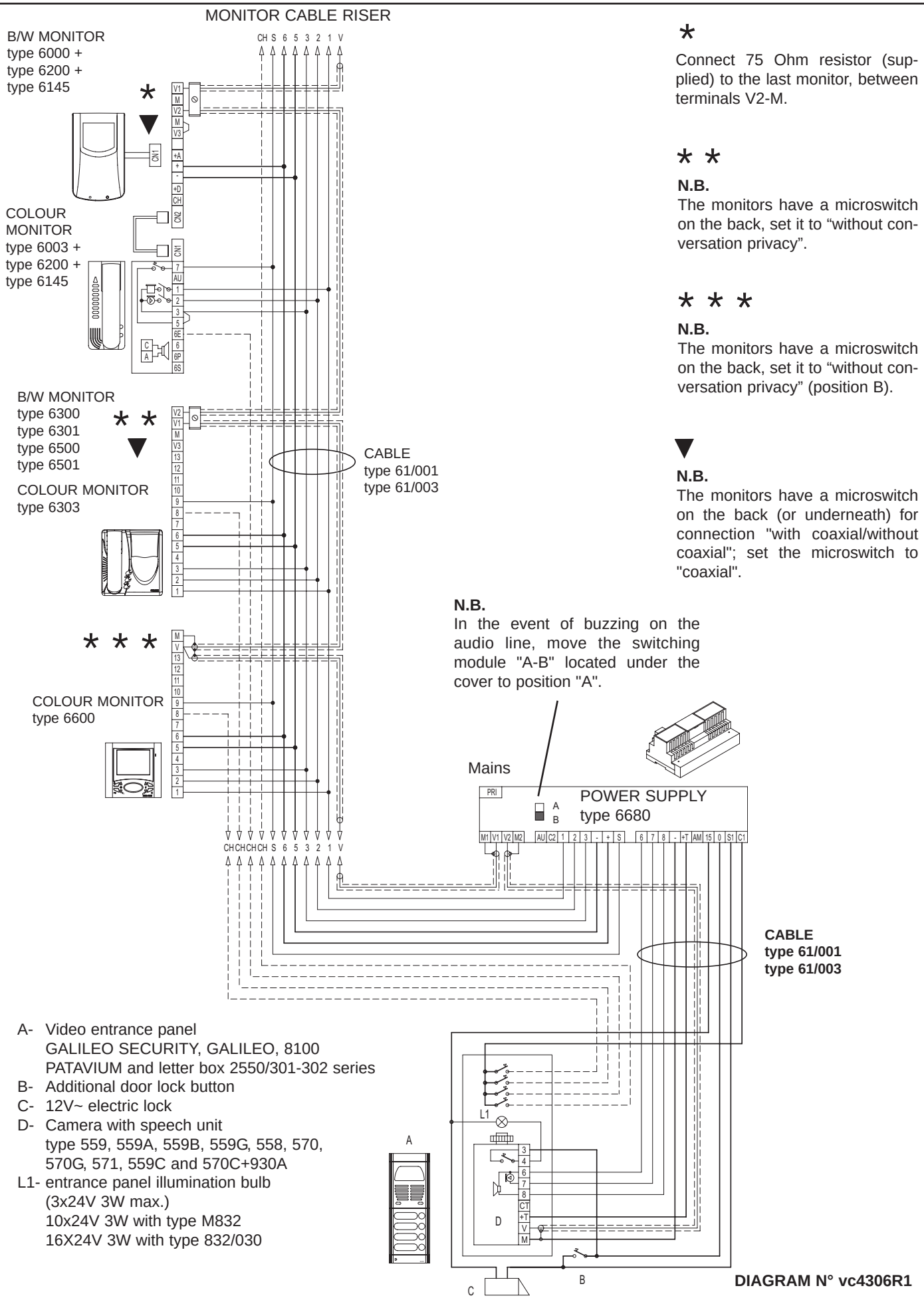
In the event of a short circuit, the protection devices (PTC) switch off the mains voltage. Once the short circuit has been eliminated, wait for a few minutes to allow the protection device to cool down so that the unit can return to normal operation.

Lighting of entrance panel:
type 6680 powers a maximum of 3 24V 3 W bulbs
Transformer type M832 powers a maximum of 10 24V 3W bulbs;
Transformer type M832/030 powers a maximum of 16 24V 3W bulbs.



N. B. The system can be completed by adding other services. To do this, consult the variations on the standard connection for the various components of the system, on pages 115 to 131.

BLOCK DIAGRAM N° sb1229



*

Connect 75 Ohm resistor (supplied) to the last monitor, between terminals V2-M.

* *

N.B.
The monitors have a microswitch on the back, set it to “without conversation privacy”.

* * *

N.B.
The monitors have a microswitch on the back, set it to “without conversation privacy” (position B).

▼

N.B.
The monitors have a microswitch on the back (or underneath) for connection "with coaxial/without coaxial"; set the microswitch to "coaxial".

N.B.
In the event of buzzing on the audio line, move the switching module "A-B" located under the cover to position "A".

A- Video entrance panel
GALILEO SECURITY, GALILEO, 8100
PATAVIUM and letter box 2550/301-302 series
B- Additional door lock button
C- 12V~ electric lock
D- Camera with speech unit
type 559, 559A, 559B, 559G, 558, 570,
570G, 571, 559C and 570C+930A
L1- entrance panel illumination bulb
(3x24V 3W max.)
10x24V 3W with type M832
16X24V 3W with type 832/030

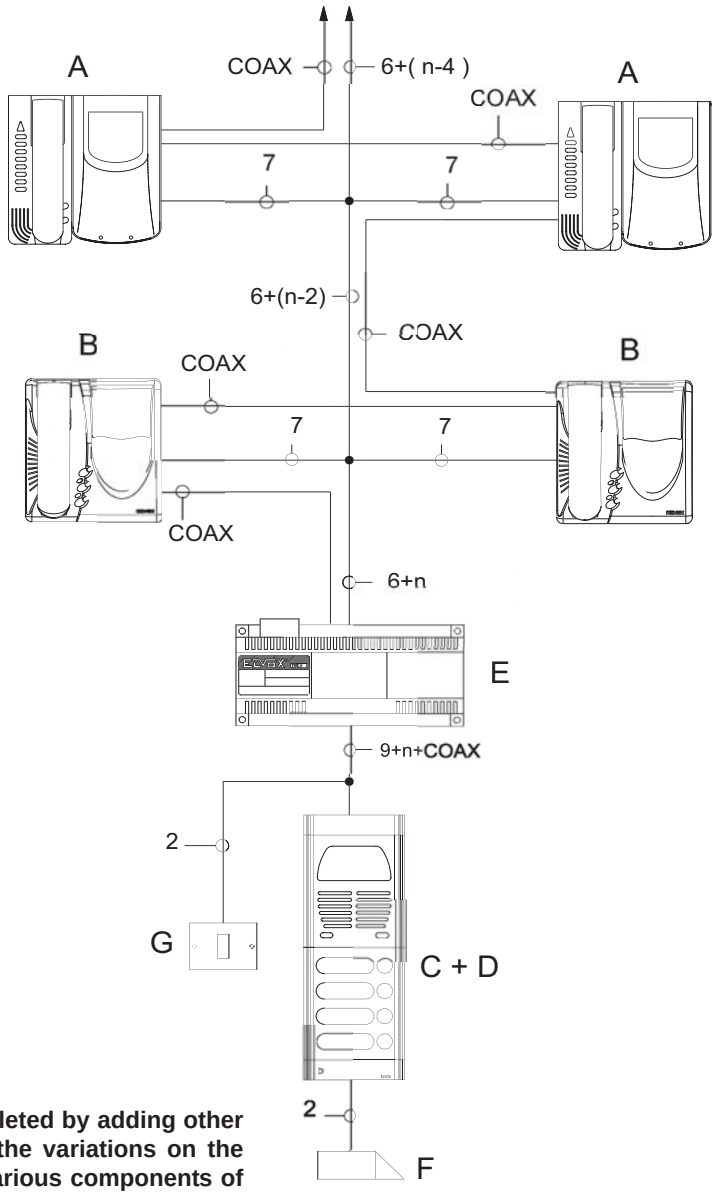
DIAGRAM N° vc4306R1

LIST OF SYSTEM COMPONENTS (Diagram ref. VC4306) WITH CONVERSATION PRIVACY

Diag. ref.	type	Denomination	Quantity
A	6000 + 6200 + 6155 + 6145, 6003 + 6200 + 6155 + 6145	Monitor	n
B	6300, 6500, 6600 o 6303	Monitor	n
C	Serie GALILEO SECURITY, 8100 GALILEO, PATAVIUM or letter box 2550	Entrance panel	1
D	559, 559A,559B, 559G, 558, 570, 570G, 571 or 559C and 570C	Camera	1
E	6680	Power supply	1
F	-	Electric lock 12V AC	1
G	-	Additional door lock button	1
n	-	Number of calls from entrance panel	n

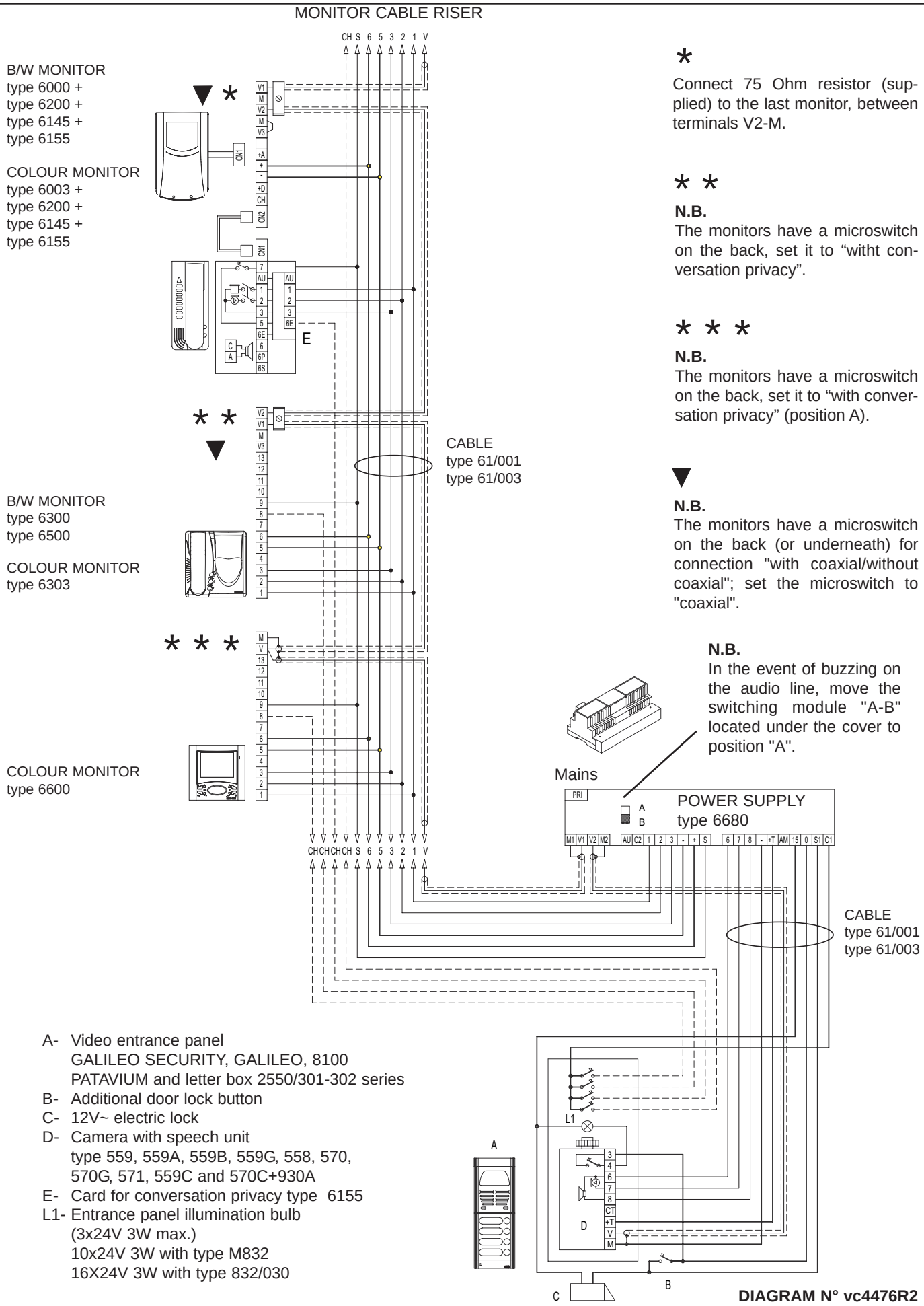
In the event of a short circuit, the protection devices (PTC) switch off the mains voltage. Once the short circuit has been eliminated, wait for a few minutes to allow the protection device to cool down so that the unit can return to normal operation.

Lighting of entrance panel:
type 6680 powers a maximum of 3 24V 3 W bulbs
Transformer type M832 powers a maximum of 10 24V 3W bulbs;
Transformer type M832/030 powers a maximum of 16 24V 3W bulbs.



N. B. The system can be completed by adding other services. To do this, consult the variations on the standard connection for the various components of the system, on pages 115 to 131.

BLOCK DIAGRAM N° sb1229



*

Connect 75 Ohm resistor (supplied) to the last monitor, between terminals V2-M.

* *

N.B.
The monitors have a microswitch on the back, set it to “witht conversation privacy”.

* * *

N.B.
The monitors have a microswitch on the back, set it to “with conversation privacy” (position A).

▼

N.B.
The monitors have a microswitch on the back (or underneath) for connection "with coaxial/without coaxial"; set the microswitch to "coaxial".

N.B.
In the event of buzzing on the audio line, move the switching module "A-B" located under the cover to position "A".

A- Video entrance panel
GALILEO SECURITY, GALILEO, 8100
PATAVIUM and letter box 2550/301-302 series
B- Additional door lock button
C- 12V~ electric lock
D- Camera with speech unit
type 559, 559A, 559B, 559G, 558, 570,
570G, 571, 559C and 570C+930A
E- Card for conversation privacy type 6155
L1- Entrance panel illumination bulb
(3x24V 3W max.)
10x24V 3W with type M832
16X24V 3W with type 832/030

DIAGRAM N° vc4476R2

INTERCOMMUNICATING VIDEO DOOR ENTRY SYSTEM WITH SWITCHING MODULE type 935A

SYSTEM DESCRIPTION

Use power supply type 6680, which features a dual electronic tone generator which replaces the traditional alternating current call on a buzzer or bell. The sound signal has two different tones (on terminals C1-C2), enabling users to immediately identify which point is calling (main entrance, gate, garage, etc.). This solution also makes it possible to use a single loudspeaker built into the monitor itself to produce the sound. Power supply in extinguishing ABS housing; preset for mounting on cases with 8-DIN module support or with expanding plugs with screws. The system is fitted with a changeover switch to maintain conversation privacy in relation to speech unit.

OPERATING PRINCIPLE

The video door entry system consists of one camera entrance panel, one power supply and one or more monitors. When a push-button of entrance panel is pressed, the ringtone rings in the corresponding apartment. Almost immediately the image of the caller appears on the monitor. A number of built-in infrared LEDs lights the coverage area when using a B/W camera, or LED with white light when using a colour camera. If desired, the user may simply raise the interphone, communicate with the caller and, if appropriate, activate the door lock release. In this case the the door-opening time may be varied from 1 to 30 seconds using potentiomenter P3. The system turns itself off automatically after a preset time, adjustable from 30 to 90 seconds using potentiometer P1 inside the power supply.

EXTERNAL COMMUNICATIONS:

When the external call signal is heard, pick up the interphone to directly communicate outside. 60 seconds after the start of the conversation an electronic device within the switching module type 935A switches communication to internal only, and so to continue the conversation it is necessary to call again from the entrance panel.

IINTERNAL COMMUNICATIONS:

Lift interphone and press push-button corresponding to desired interphone. Speech unit is automatically excluded.

LIST OF ARTICLES REQUIRED FOR INSTALLATION (Diagram Ref. vc3242-vc4354)

Diagram ref.	Type	Name	Quantity
A	6000+6200+6145+6152, 6003+6200+6145+6152,	Monitor	2÷8
B	6680	Power supply	1
C	6200 + 6152	Interphone	1÷7
D	Series GALILEO SECURITY, 8100 GALILEO, PATAVIUM or letter box 2550/301	Entrance panel	1
E	559, 559A,559B, 559G, 558, 570, 570G, 571, 559C and 570C	Camera	1
F	935A	Switching module	1
G	-	Electric lock 12V A.C.	1
H	-	Landing call push-button	1
n	-	Number of intercommunicating monitor and/or interphones	1÷8

WIRING AND OPERATING INSTRUCTIONS

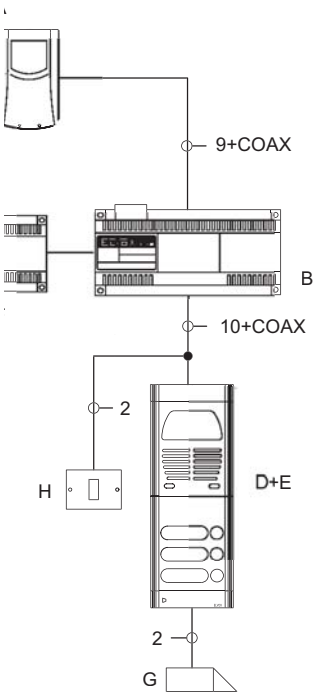
The wiring diagram illustrates a system including one monitor, six intercommunicating interphones and one speech unit. Depending on requirements, fewer or more monitors or interphones may be installed, provided they do not collectively exceed the seven units corresponding to the interphone push-buttons. When fewer than 7 units are installed, only connect the terminal blocks of the intercom units used and not the call wires of surplus units. Example: in a 3-unit intercommunicating installation (one monitor and two interphones), only connect terminals 1 to 11 as shown in the following diagram.

The monitors and interphones are fitted with a loudspeaker designed to receive differentiated electronic calls from both the landing unit and other intercommunicating units. Entrance panel (C1) and outdoor (C2) calls are generated by power supply type 6680, while intercommunicating (C3) calls are routed by switch type 935A.

In the event of a short circuit, the protection devices (PTC) switch off the mains voltage. Once the short circuit has been eliminated, wait for a few minutes to allow the protection device to cool down so that the unit can return to normal operation.

Lighting of entrance panel:
type 6680 powers a maximum of 3 24V 3 W bulbs
Transformer type M832 powers a maximum of 10 24V 3W bulbs;
Transformer type M832/030 powers a maximum of 16 24V 3W bulbs.

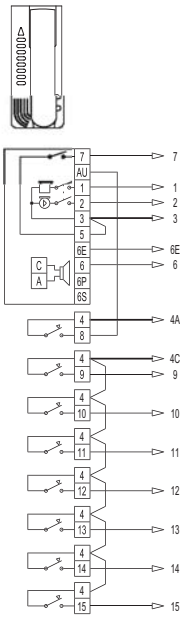
N. B. The system can be completed by adding other services. To do this, consult the variations on the standard connection for the various components of the system, on pages 115 to 131.



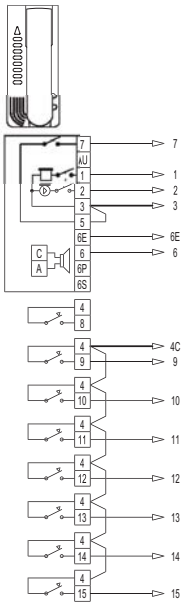
BLOCK DIAGRAM N° sb1230

* Connect 75 Ohm resistor (supplied) to the last monitor, between terminals V2-M.

INTERPHONE SETTING
type 6200 + 6152 FOR MONITOR



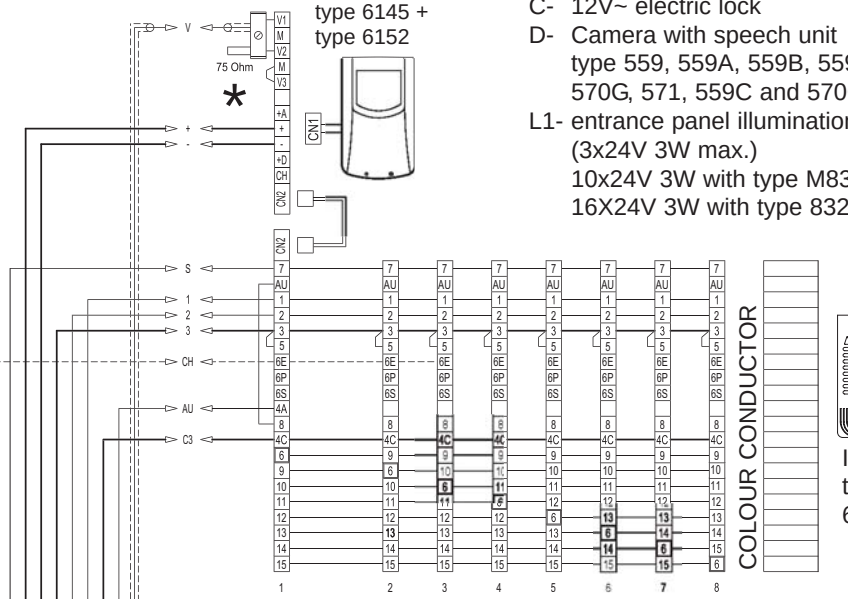
INTERPHONE SETTING
type 6200 + 6152 SECONDARY



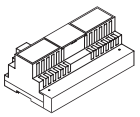
B/W MONITOR
type 6000 +
type 6200 +
type 6145 +
type 6152

COLOUR MONITOR
type 6003 +
type 6200 +
type 6145 +
type 6152

A- Video entrance panel
GALILEO SECURITY, GALILEO, 8100 PATAVIUM and letter box 2550/301-302 series
B- Additional door lock button
C- 12V~ electric lock
D- Camera with speech unit
type 559, 559A, 559B, 559G, 558, 570, 570G, 571, 559C and 570C+930A
L1- entrance panel illumination bulb (3x24V 3W max.)
10x24V 3W with type M832
16X24V 3W with type 832/030



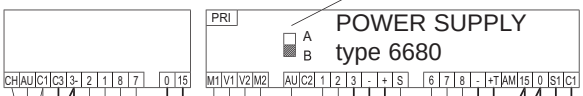
N.B.
In the event of buzzing on the audio line, move the switching module "A-B" located under the cover to position "A".



SWITCHING
MODULE
type 935A

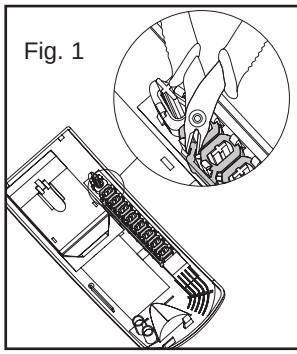
Mains

CABLE
type 61/001
type 61/003



CABLE
type 61/001
type 61/003

Fig. 1



Before connecting the system, fit the buttons type 6152 in their seat in the interphone. Connect the jumpers
as shown in the diagram. Then distribute the keys in the interphone housing, removing the plastic that holds them as shown in figure 1.

N.B.
The monitors have a microswitch on the back for connection "with coaxial/without coaxial"; set the microswitch to "coaxial".

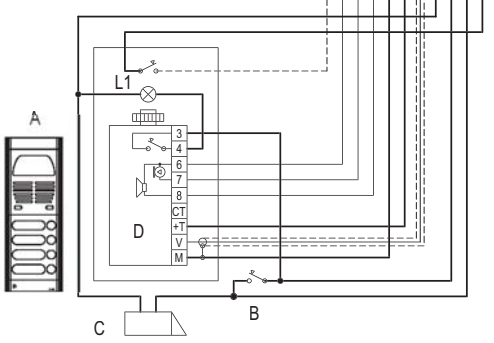


DIAGRAM N° vc3242

Fig. 1
Two monitors and seven intercommunicating interphones.

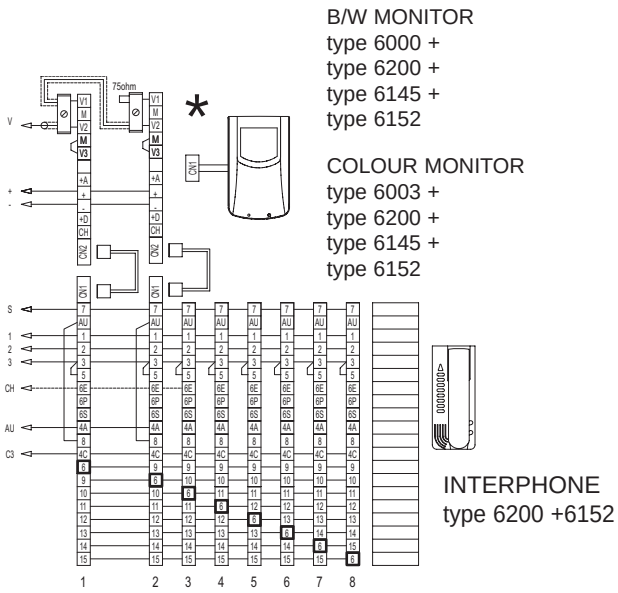


Fig. 2
Three monitors and five intercommunicating interphones.

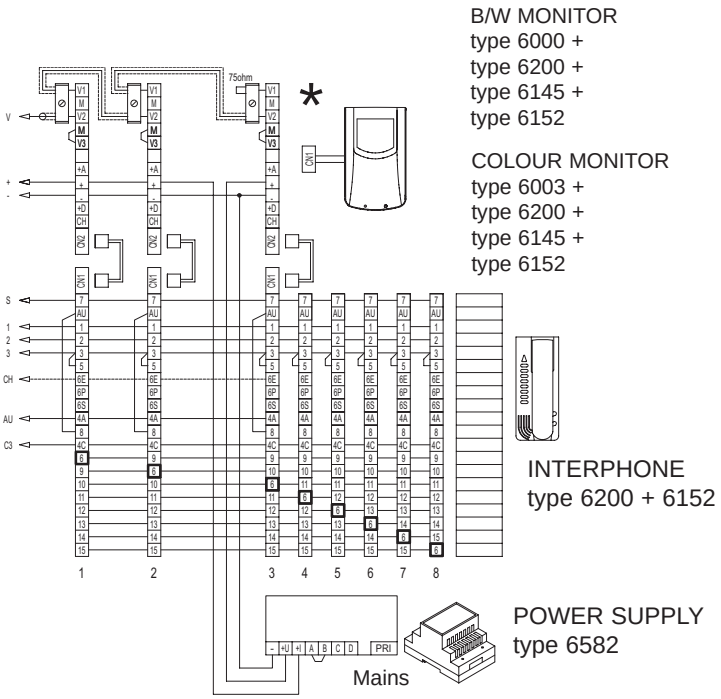


Fig. 3
Four monitors and four intercommunicating interphones.

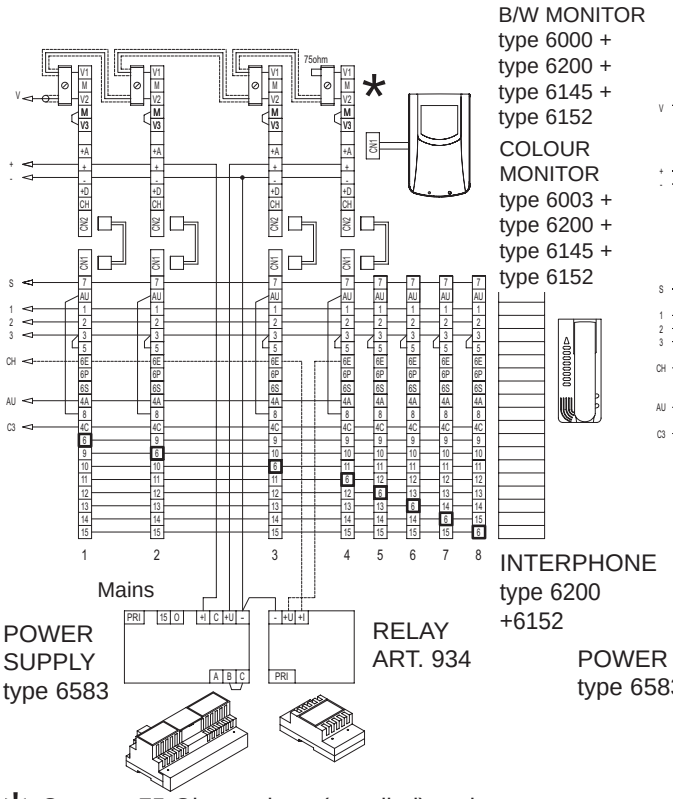
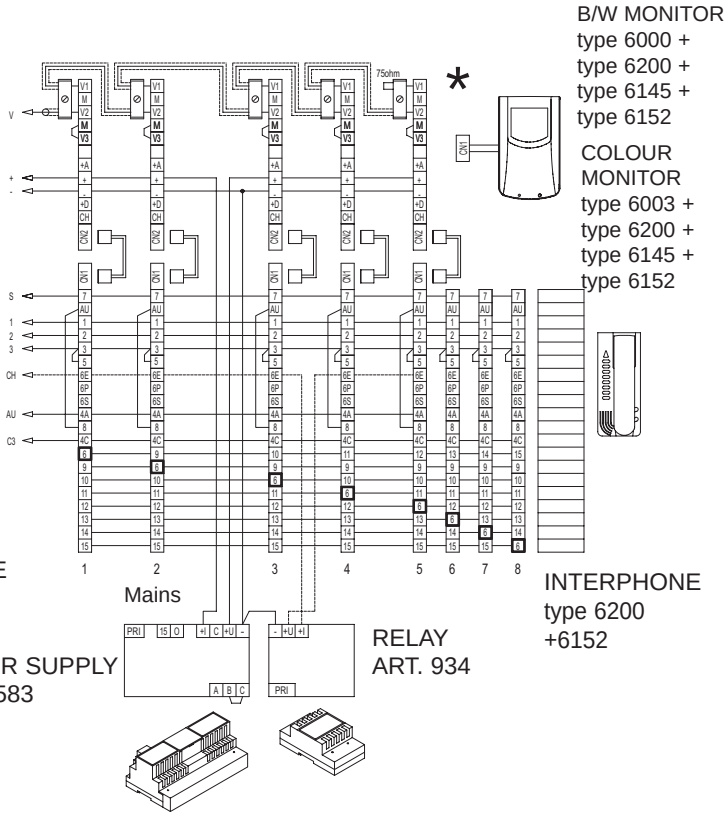


Fig. 4
Five monitors and three intercommunicating interphones.



* Connect 75 Ohm resistor (supplied) to the last monitor, between terminals V2-M.

Notes:

These wiring diagrams refer to a single residence installation. Call line (monitor terminal no. 6E) allows simultaneous activation of all appliances. On installations for several intercommunicating apartments, terminal no. 6E of each monitor will be connected to entrance panel corresponding push-button.

For a simultaneous activation of several monitors use an additional power supply type 6582 for each monitor starting from the 3rd one or power supply type 6583 for two (or max three monitors) operating simultaneously according to shown wiring diagrams.If all interphones and monitors should receive a call from the entrance panel (terminal no. 6E-8), it is necessary to install one or more call repeaters type 934 (see variation).

DIAGRAM N° vc4354R1

VIDEO DOOR ENTRY SYSTEM WITH SEVERAL INTERCOMMUNICATING NETWORKS AND SWITCHING MODULE TYPE 935A

SYSTEM DESCRIPTION

The power supply used is type 6680; it is equipped with a double electronic tone generator which replaces the conventional AC call on a buzzer or bell. The acoustic signal has two different tones (present at terminals C1-C2), thus allowing immediate identification of the point from which the call is made (main entrance, gate, garage, etc.); the sound is emitted by a single loudspeaker built into the monitor. Each network of intercommunicating monitors and interphones uses a switching module type 935A, powered by a transformer type 832/030, which serves to maintain conversation privacy towards users in other apartments with intercommunicating or non-intercommunicating networks. The floor distributor transmits the video signal from the camera to the monitor. The distributor is powered by the monitor switched on by the external call.

OPERATING PRINCIPLE

The video door entry system is made up of an entrance panel with camera and speech unit, a power supply and one or more monitors. When a visitor presses a push-button on the entrance panel, an acoustic signal is emitted in the corresponding apartment; the image of the person who made the call appears almost instantaneously on the monitor. A number of infrared LEDs for B/W filming, or white light LEDs for colour filming, built into the entrance panel, light the viewing series of the camera. Infrared lighting is not visible to the human eye. The user, if he wants, can communicate with the outside by lifting the interphone and, if he sees fit, can operate the door lock release button: the energisation time of the lock can be changed from 1 to 30 seconds with the potentiometer P3.

After a pre-set time, which can be programmed to between 30 and 90 seconds with the potentiometer P1 located in the power supply, the system.switches off automatically. If the visitor presses the push-button of another user, the monitor called previously switches off automatically without waiting for the time-out. The diagram shows the connection of several intercommunicating networks belonging to the same system: each user can thus intercommunicate freely with the devices in his own apartment, with conversation privacy both towards the speech unit and towards the users in the other apartments.

Several intercommunicating conversations can take place simultaneously in the apartments or, while intercommunicating conversations are in progress, other users in the same building can communicate without interference with the speech unit.

EXTERNAL COMMUNICATIONS:

When the external call signal is heard, pick up the interphone to communicate with outside. 60 seconds after the start of the conversation an electronic device within the switching module type 935A switches communication to internal mode only, and so to continue the conversation it is necessary to press one of the above buttons again.

INTERNAL COMMUNICATIONS:

Lift interphone and press push-button corresponding to desired interphone. Speech unit is automatically excluded.

LIST OF ARTICLES REQUIRED FOR INSTALLATION (Diagram Ref. vc4374)

Diagram Ref.	Type	Name	Quantity
A	6000+6200+6145+6152, 6003+6200+6145+6152	Monitor	n
B	6200 + 6152	Interphone	m
C	6680	Power supply	1
D	832/030	Transformer	n
E	Series GALILEO SECURITY GALILEO or PATAVIUM	Entrance panel	1
F	559, 559A, 559B, 559G, 558, 570, 570G, 571, 559C and 570C	Camera	1
G	935A	Switching module	1÷n
H	5556/004 - 6554	Video distributor	n
I	-	Electric lock 12V A.C.	1
L	-	Landing call push-button	1
m	-	Number of intercommunicating monitors or interphones	m
n	-	Number of entrance panel calls	n

WIRING INSTRUCTIONS

The basic wiring diagram shows a system comprising one monitor and 3 interphones intercommunicating between each other and a speech unit.

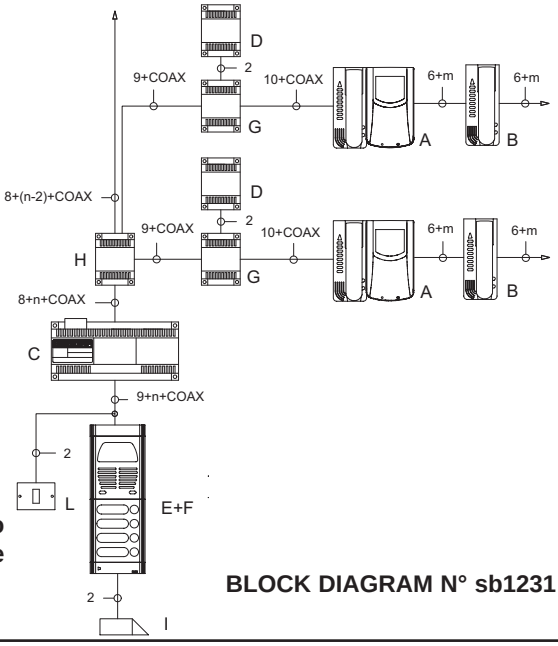
In each apartment more intercommunicating monitors and/or interphones may be installed provided they do not exceed collectively the 8 units. See wiring diagram page 83 N. VC4354.

Should the interphone number be lower than 8, connect only terminal blocks of the only intercommunicating interphones concerned, excluding the call conductors of the exceeding numbers.

For example: with three intercommunicating interphones (one monitor and two interphones)only connect terminal 1 to 11 as shown in the basic wiring diagram.

The monitors and the interphones are fitted with a loudspeaker designed to receive differentiated electronic calls from both the speech unit and other intercommunicating units. Entrance panel (C1) and landing (C2) calls are generated by power supply type 6680, while intercommunicating calls (C3) are supplied by switching module type 935A.

N. B. The system can be completed by adding other services. To do this, consult the variations on the standard connection for the various components of the system, on pages 115 to 131.



BLOCK DIAGRAM N° sb1231

VIDEO DOOR ENTRY SYSTEM WITH INDEPENDENT INTERCOMMUNICATING LINES AND SWITCHING MODULE TYPE 935A

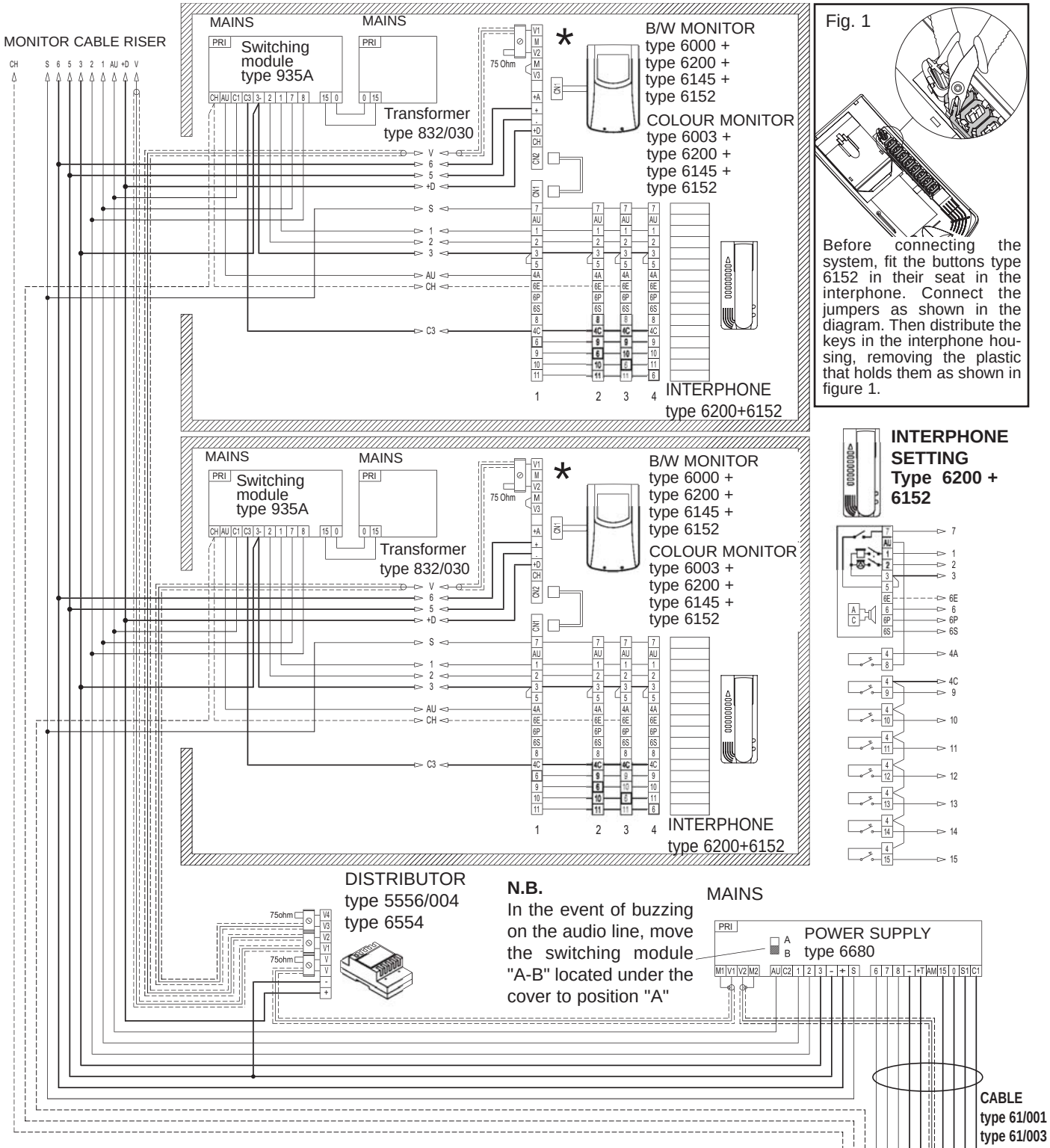


Fig. 1

Before connecting the system, fit the buttons type 6152 in their seat in the interphone. Connect the jumpers as shown in the diagram. Then distribute the keys in the interphone housing, removing the plastic that holds them as shown in figure 1.

INTERPHONE SETTING Type 6200 + 6152

N.B.
In the event of buzzing on the audio line, move the switching module "A-B" located under the cover to position "A"

* Connect 75 Ohm resistor (supplied) to the last monitor, between terminals V2-M.

A- Video entrance panel GALILEO SECURITY, GALILEO, PATAVIUM and letter box 2550/301-302 series
B- Additional door lock button
C- 12V~ electric lock
D- Camera with speech unit type 559, 559A, 559B, 559G, 558, 570, 570G, 571, 559C and 570C
L1- Entrance panel illumination bulb (3x24V 3W max.)
10x24V 3W with type M832
16X24V 3W with type 832/030

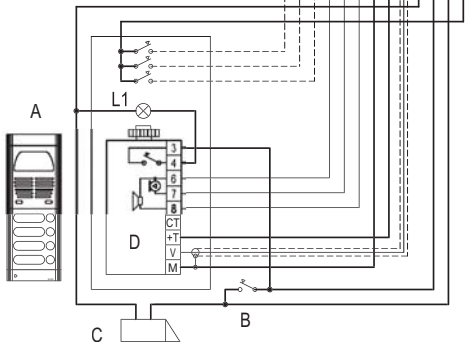


DIAGRAM N° vc4374

VIDEO DOOR ENTRY SYSTEM WITH TWO OR THREE SPEECH UNITS, ONE VIDEO ONLY WITH SWITCHING MODULE TYPE 5590/001 OR 5590/303

SYSTEM DESCRIPTION

Use power supply type 6680, which features a dual electronic tone generator which replaces the traditional alternating current call on a buzzer or bell. The sound signal has two different tones (on terminals C1-C2), enabling users to immediately identify which point is calling (main entrance, gate, garage, etc.). This solution also makes it possible to use a single loudspeaker built in the interphone itself to produce the sound.

OPERATING PRINCIPLE

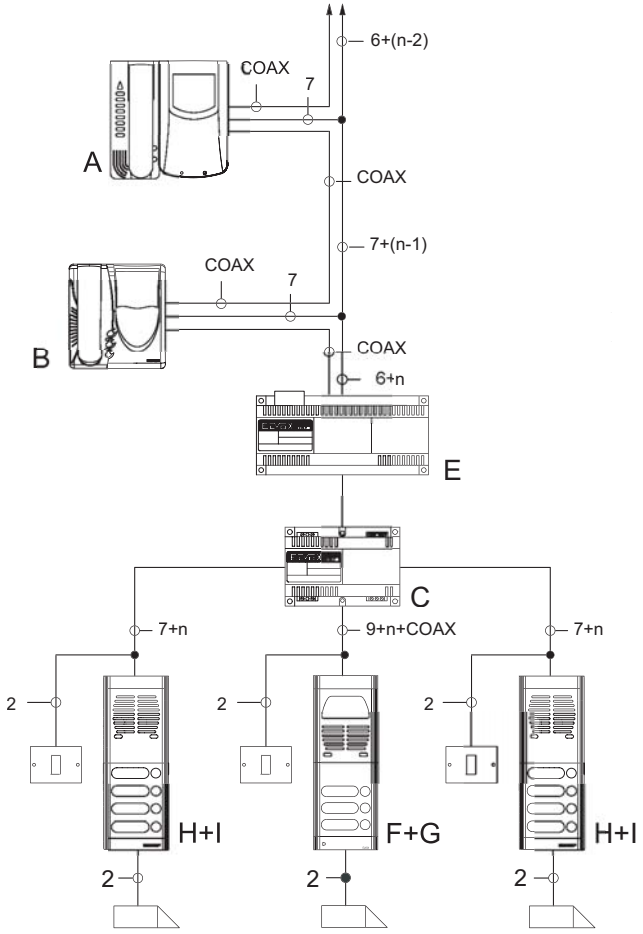
When a caller presses a call push-button on an external entrance panel, the audio/video function and door lock release are automatically activated for that entrance panel while the other entrance panels remain disabled. The last call made is given priority over all preceding calls.

LIST OF ARTICLES REQUIRED FOR INSTALLATION (Diagram Ref. VC3031-VC2193)

Diagram ref.	Type	Name	Quantity
A	6000+6200+6145, 6003+6200+6145	Monitor	n
B	6300, 6301, 6303, 6500 e 6501	Monitor	n
C	5590/001, 5590/303	Switching module	1
D	-	Electric lock 12V A.C.	2÷3
E	6680	Power supply	1
F	Series GALILEO SECURITY GALILEO, PATAVIUM or letter box 2550/301-302	Video entrance panel	1
G	559, 559A, 559B, 559G, 558, 570, 570G, 571, 559C e 570C (colour)	Camera	1
H	Series GALILEO SECURITY GALILEO or PATAVIUM	Audio entrance panel	1÷2
I	930, 930A	Speech unit	1÷2
L	-	Landing call push-button	2÷3
n	-	entrance panel calls number	2÷3

In the event of a short circuit, the protection devices (PTC) switch off the mains voltage. Once the short circuit has been eliminated, wait for a few minutes to allow the protection device to cool down so that the unit can return to normal operation.

Lighting of entrance panel: type 6680 powers a maximum of 3 24V 3 W bulbs
Transformer type M832 powers a maximum of 10 24V 3W bulbs;
Transformer type M832/030 powers a maximum of 16 24V 3W bulbs.



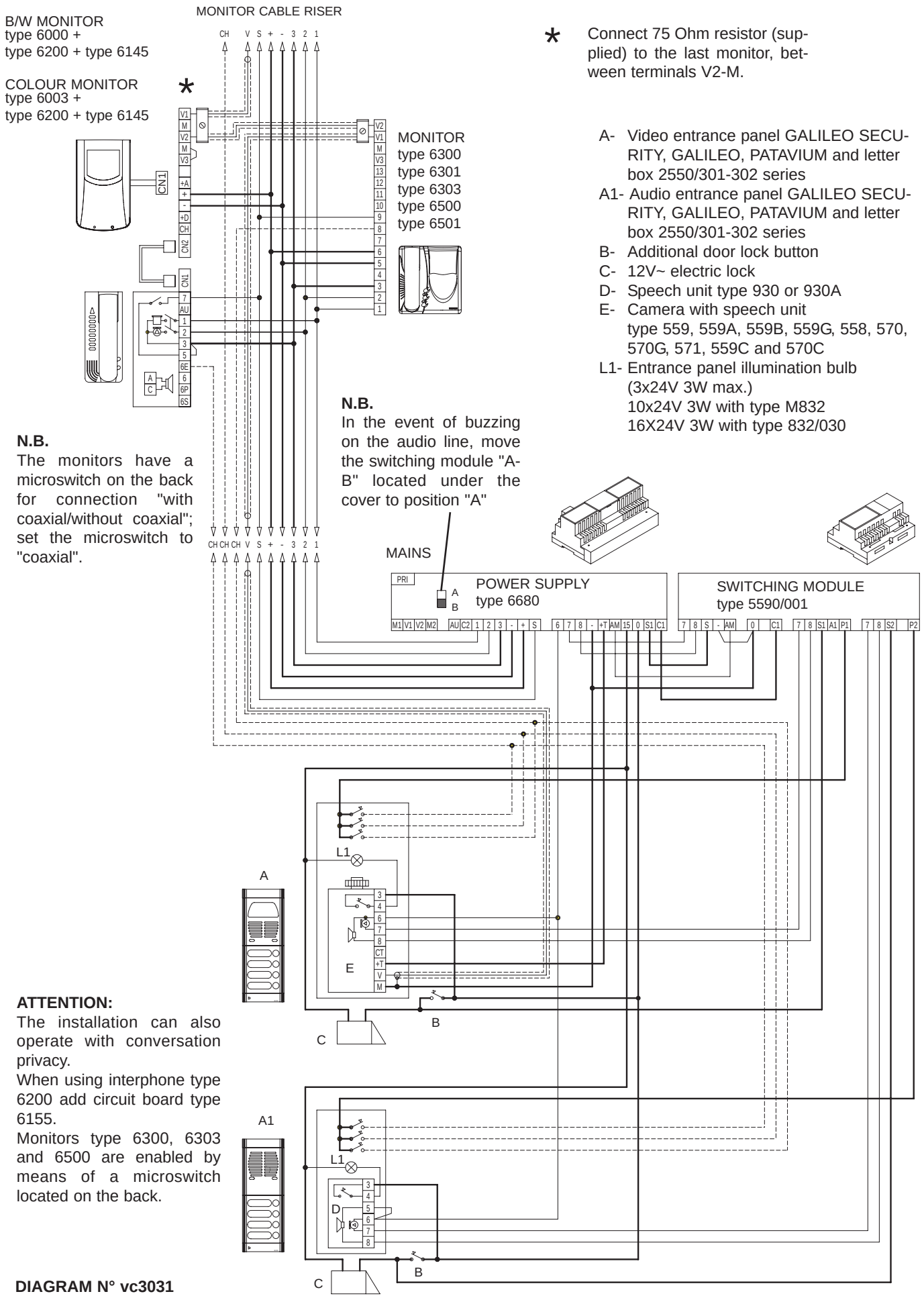
ATTENTION

The installation can also operate with conversation privacy.
When using interphone type 6200 add circuit board type 6155.
Monitors type 6300, 6303 and 6500 are enabled by means of a microswitch located on the back.

N. B. The system can be completed by adding other services. To do this, consult the variations on the standard connection for the various components of the system, on pages 115 to 131.

BLOCK DIAGRAM N° sb1237

VIDEO DOOR ENTRY SYSTEM WITH TWO SPEECH UNITS, ONE VIDEO ONLY AND WITH SWITCHING MODULE TYPE 5590/001



* Connect 75 Ohm resistor (supplied) to the last monitor, between terminals V2-M.

A- Video entrance panel GALILEO SECURITY, GALILEO, PATAVIUM and letter box 2550/301-302 series
A1- Audio entrance panel GALILEO SECURITY, GALILEO, PATAVIUM and letter box 2550/301-302 series
B- Additional door lock button
C- 12V~ electric lock
D- Speech unit type 930 or 930A
E- Camera with speech unit type 559, 559A, 559B, 559G, 558, 570, 570G, 571, 559C and 570C
L1- Entrance panel illumination bulb (3x24V 3W max.)
10x24V 3W with type M832
16X24V 3W with type 832/030

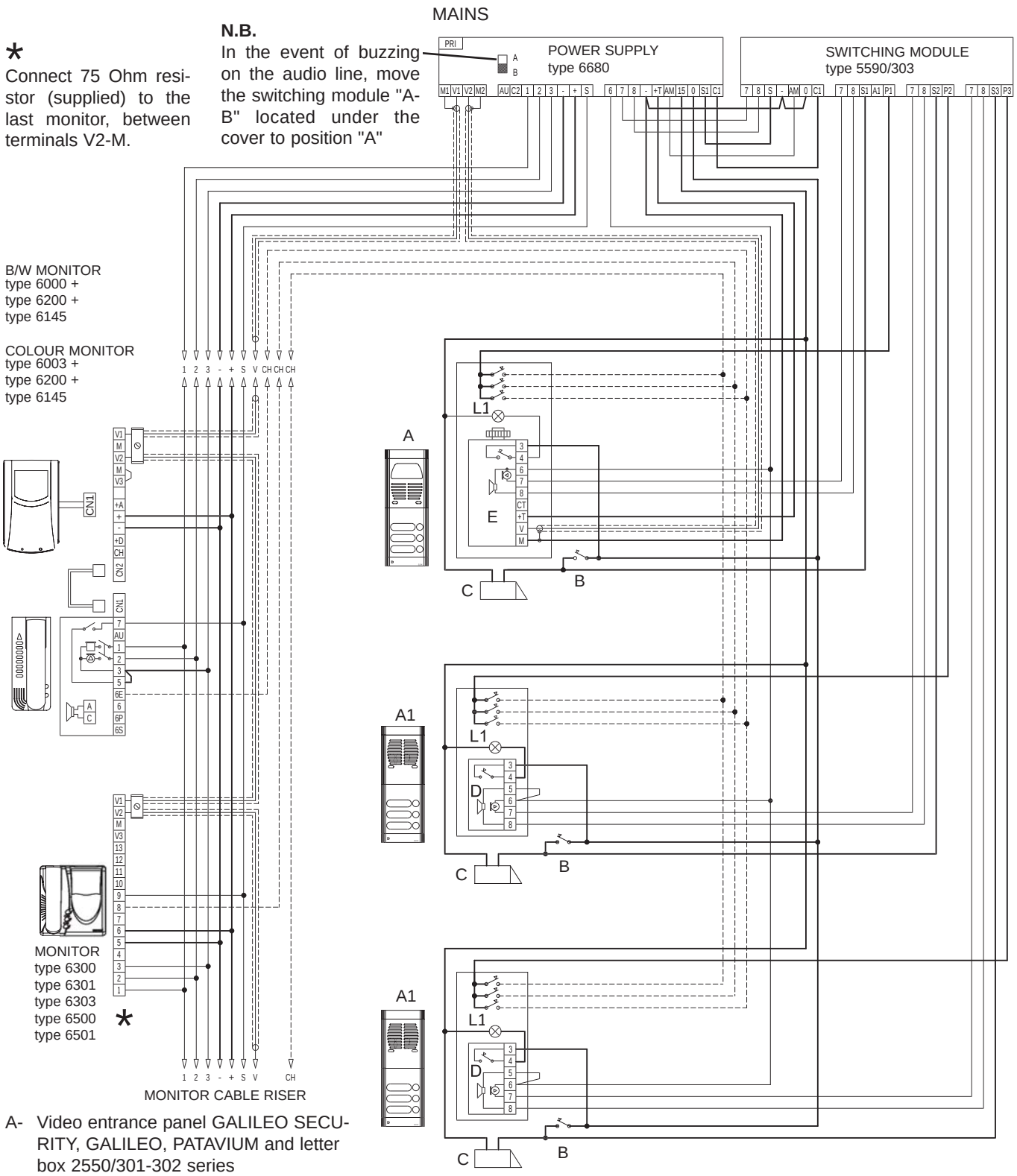
N.B.
The monitors have a microswitch on the back for connection "with coaxial/without coaxial"; set the microswitch to "coaxial".

N.B.
In the event of buzzing on the audio line, move the switching module "A-B" located under the cover to position "A"

ATTENTION:
The installation can also operate with conversation privacy.
When using interphone type 6200 add circuit board type 6155.
Monitors type 6300, 6303 and 6500 are enabled by means of a microswitch located on the back.

DIAGRAM N° vc3031

VIDEO DOOR ENTRY SYSTEM WITH THREE OUTDOOR UNITS, ONE VIDEO ONLY AND WITH SWITCHING MODULE TYPE 5590/303



N.B.
In the event of buzzing on the audio line, move the switching module "A-B" located under the cover to position "A"

*
Connect 75 Ohm resistor (supplied) to the last monitor, between terminals V2-M.

A- Video entrance panel GALILEO SECURITY, GALILEO, PATAVIUM and letter box 2550/301-302 series
A1- Audio entrance panel GALILEO SECURITY, GALILEO, PATAVIUM and letter box 2550/301-302 series
B- Additional door lock button
C- 12V~ electric lock
D- Speech unit type 930 or 930A
E- Camera with speech unit type 559, 559A, 559B, 559G, 558, 570, 570G, 571, 559C and 570C
L1- entrance panel illumination bulb (3x24V 3W max.)
10x24V 3W with type M832
16X24V 3W with type 832/030

ATTENTION:
The installation can also operate with conversation privacy.
When using interphone type 6200 add circuit board type 6155.
Monitors type 6300, 6303 and 6500 are enabled by means of a microswitch located on the back.

DIAGRAM N° vc2193

VIDEO DOOR ENTRY SYSTEM WITH TWO SPEECH UNITS, AND SWITCHING MODULE TYPE 5591

SYSTEM DESCRIPTION

Use power supply type 6680, which features a dual electronic tone generator which replaces the traditional alternating current call on a buzzer or bell. The sound signal has two different tones (on terminals C1-C2), enabling users to immediately identify which point is calling (main entrance, gate, garage, etc.). This solution also makes it possible to use a single loudspeaker built in the interphone itself to produce the sound.

OPERATING PRINCIPLE

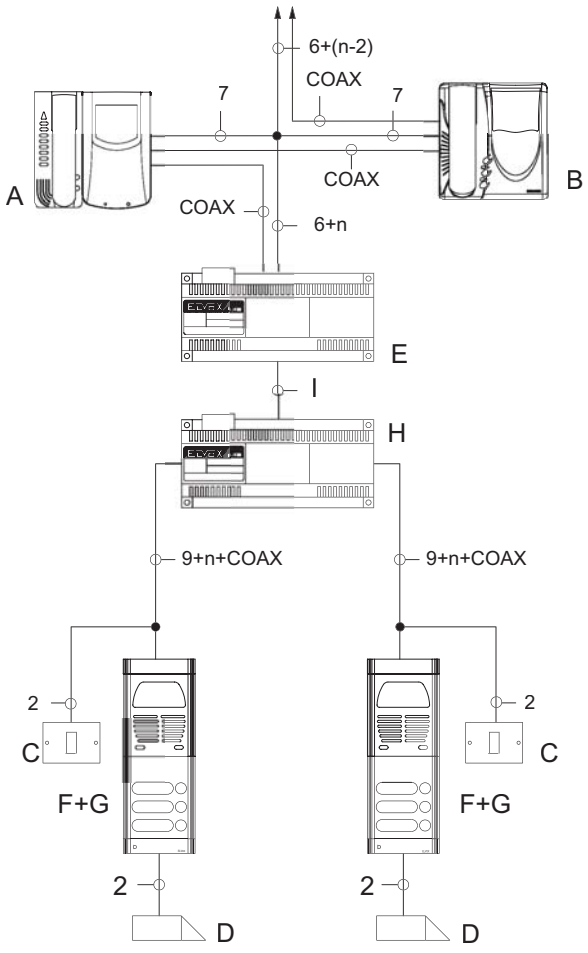
When a caller presses a call push-button on an external entrance panel, the audio/video function and door lock release are automatically activated for that entrance panel while the other entrance panels remain disabled. The last call made is given priority over all preceding calls.

LIST OF ARTICLES REQUIRED FOR INSTALLATION (Diagram Ref. VC3046)

Diagram ref.	Type	Name	Quantity
A	6000+6200+6145, 6003+6200+6145	Monitor	n
B	6300, 6301, 6303, 6500, 6501	Monitor	n
C	-	Landing call push-button	2
D	-	Electric lock 12V A.C.	1
E	6680	Power supply	1
F	Series GALILEO SECURITY, GALILEO, PATAVIUM or letter box 2550/301-302	Video entrance panel	2
G	559, 559A, 559B, 559G, 558, 570, 570G, 571 559C and 570C	Camera	2
H	6591	Switching module	1
I	2/690	Harness to connect switching modules and power supply	1
n	-	Number of entrance panel calls	n

In the event of a short circuit, the protection devices (PTC) switch off the mains voltage. Once the short circuit has been eliminated, wait for a few minutes to allow the protection device to cool down so that the unit can return to normal operation.

Lighting of entrance panel: type 6680 powers a maximum of 3 24V 3 W bulbs
Transformer type M832 powers a maximum of 10 24V 3W bulbs;
Transformer type M832/030 powers a maximum of 16 24V 3W bulbs.



ATTENTION:
The installation can also operate with conversation privacy.
When using monitors type 6000 and 6003 with interphone type 6200, add card type 6155.
Monitors type 6300, 6303 and 6500 are enabled by means of a microswitch located on the back.

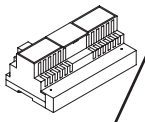
N. B. The system can be completed by adding other services. To do this, consult the variations on the standard connection for the various components of the system, on pages 115 to 131.

BLOCK DIAGRAM N° sb1260

VIDEO DOOR ENTRY SYSTEM WITH TWO SPEECH UNITS, AND SWITCHING MODULE TYPE 5591

N.B.
In the event of buzzing on the audio line, move the switching module "A-B" located under the cover to position "A"

NOTES
Connect white wire on the power supply terminal C1.



MAINS

Harness type 2/690

* Connect 75 Ohm resistor (supplied) to the last monitor, between terminals V2-M.

POWER SUPPLY type 6680

SWITCHING MODULE type 6591

B/W MONITOR
type 6000 +
type 6200 +
type 6145

COLOUR MONITOR
type 6003 +
type 6200 +
type 6145

CABLE
type 61/001
type 61/003

INTERPHONE
type 6200

B/W MONITOR
type 6300
type 6301
type 6303
type 6500
type 6501

MONITOR CABLE RISER

A- Video entrance panel GALILEO SECURITY, GALILEO, PATAVIUM and letter box 2550/301-302 series
B- Additional door lock button
C- 12V~ electric lock
D- Camera with speech unit type 559, 559A, 559B, 559G, 558, 570, 570G, 571, 559C and 570C
L1- Entrance panel illumination bulb (3x24V 3W max.)
10x24V 3W with type M832
16X24V 3W with type 832/030

ATTENTION:
The installation can also operate with conversation privacy.
When using interphone type 6200 add circuit board type 6155.
Monitors type 6300, 6303 and 6500 are enabled by means of a microswitch located on the back.

DIAGRAM N° vc3046

GENERAL CHARACTERISTICS OF THE PROGRAMMABLE SWITCHING MODULE type 6592

Automatic, programmable switching module for two outdoor stations with or without camera.
The switching module is supplied with the programming jumpers already inserted. Within the call from one of the two speech units type 6592 automatically switches the video, audio and electric lock functions.
The switching module is suitable for operation with more than one speech unit and can be connected in series with other switching modules: a special device makes it possible to activate the system from inside by means of an additional push-button on the monitor, and to switch all the speech units sequentially. In systems with more than one switching module, it is necessary to include a transformer type M832 for each switching module in addition to the first (see wiring diagram).
The connections between the power supply and the switching module and between the switching modules, if there is more than one speech unit, are facilitated by the 2 sets of wiring supplied:
2/690, in black, for connection between the power supply and the switching module
2/591, in white, for connection between switching modules

LIST OF SYSTEM COMPONENTS (Diagram ref. vc3048 vc3050)

Diagram ref.	type	Denomination	Quantity
A	6000+6200+6145+6152, 6003+6200 6145+6152	Monitor	n
B	6300, 6301, 6303, 6500, 6501	Monitor	n
C	-	Additional door lock push-button	2
D	-	Electric lock 12V AC	1
E	6680	Power supply	1
F	GALILEO SECURITY, GALILEO, PATAVIUM or letter box 2550/301-302 series	Video entrance panel	2
G	559, 559A, 559B, 559G, 558, 570, 570G, 571, 559C and 570C	Camera	2-n
H -H1	6592	Switching module	2
I	2/690	Wiring between power supply and switching module	1
L	2/591	Wiring between switching modules	1
M	M832 or 832/030	Transformer	1-n
n	-	Number of calls from entrance panel	n

PROGRAMMING TABLE

The device is equipped with 7 removable jumpers denominated P1, P2, P3, P4, P5, P6 and P7, which when set up to do so, change the switching as follows:

P1 Disable self-start priority
If the jumper is removed, self-start of the monitor cuts off any communication that may be in progress with the entrance panel.

P2 - P3 Priority 1st entrance panel - Priority 2nd entrance panel
If the jumper is removed, the corresponding entrance panel loses the priority (an entrance panel with priority cuts off communication with an entrance panel without priority). If the entrance panel does not have priority, it is advisable to insert the indication "ENGAGED - WAIT, PLEASE".

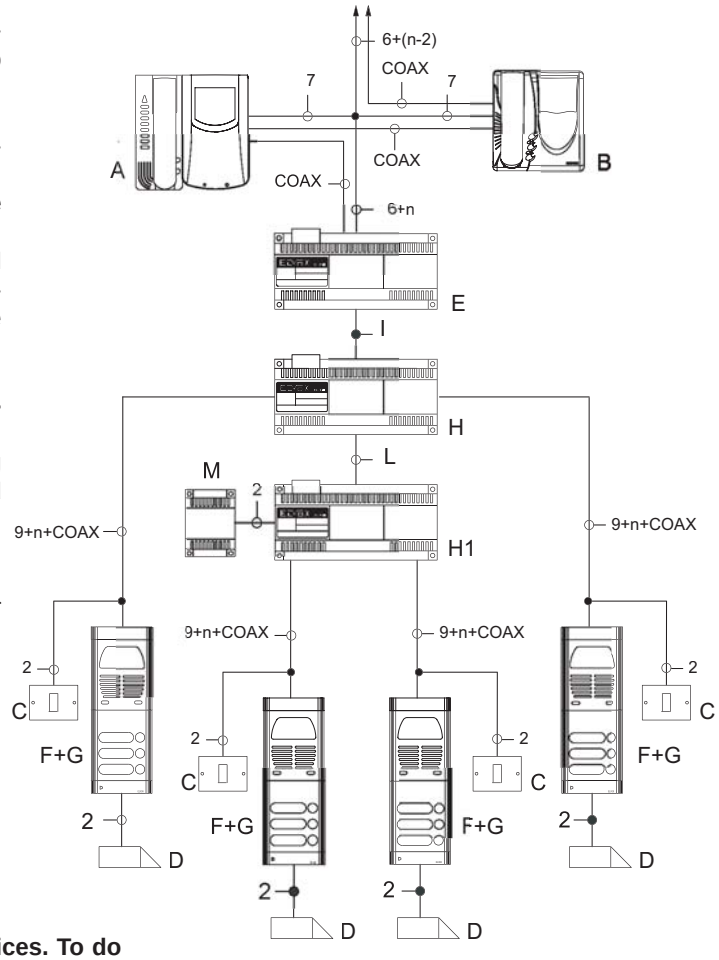
P4 - P5 Video switch-on 1st entrance panel - Video switch-on 2nd entrance panel
If the jumper is removed, the call from the corresponding entrance panel does not switch on the monitor (this is used when the entrance panel has no video camera).

P6 Do not use

P7 Closure on last switching module
When using more than one switching module, leave the jumper in place only in the last.

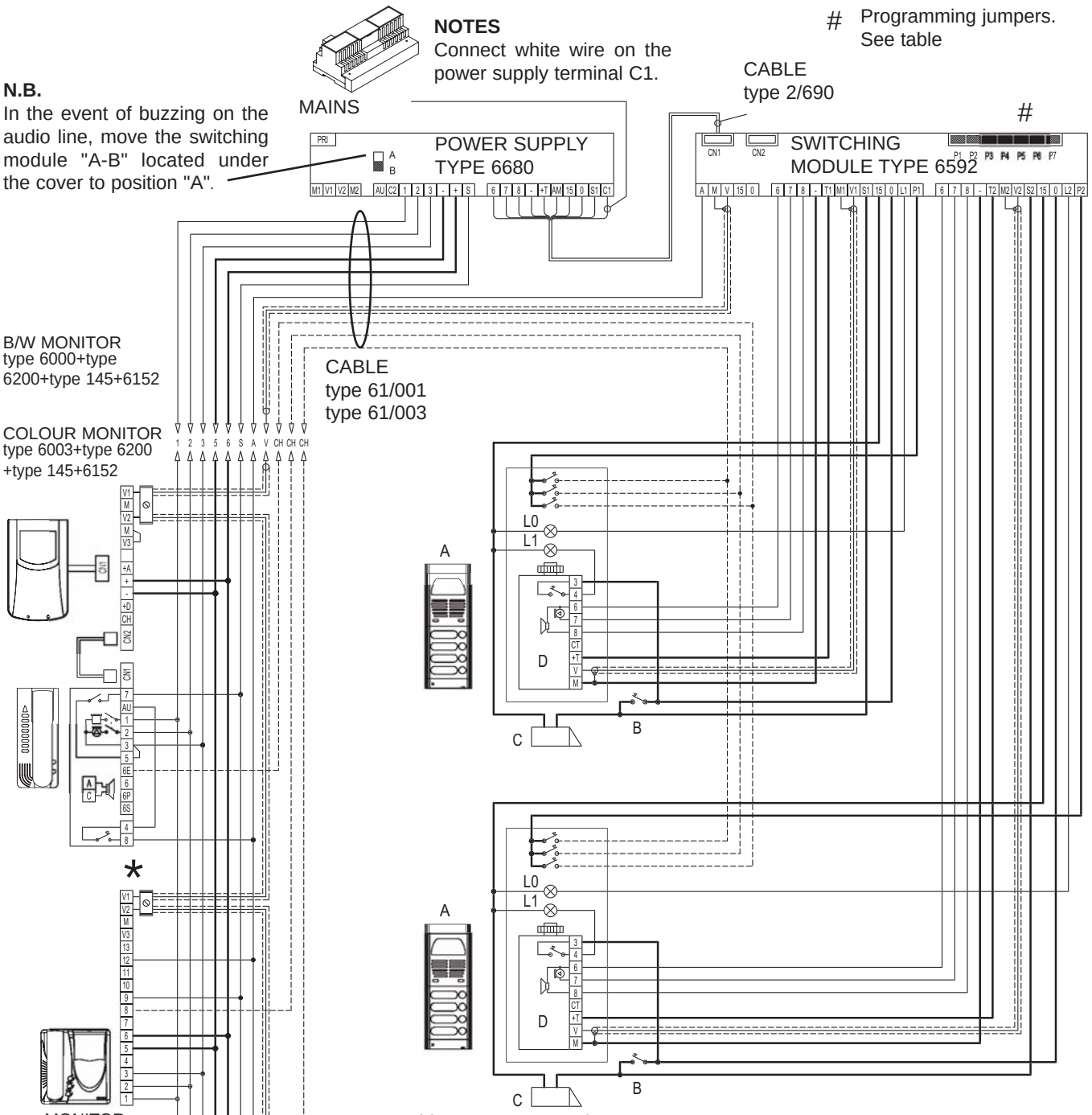
In the event of a short circuit, the protection devices (PTC) switch off the mains voltage. Once the short circuit has been eliminated, wait for a few minutes to allow the protection device to cool down so that the unit can return to normal operation.

Lighting of entrance panel: type 6680 powers a maximum of 3 24V 3W bulbs
Transformer type M832 powers a maximum of 10 24V 3W bulbs;
Transformer type M832/030 powers a maximum of 16 24V 3W bulbs.



BLOCK DIAGRAM N° sb1232

N. B. The system can be completed by adding other services. To do this, consult the variations on the standard connection for the various system components, on pages 115 to 131.



NOTES
Connect white wire on the power supply terminal C1.

\# Programming jumpers. See table

N.B.
In the event of buzzing on the audio line, move the switching module "A-B" located under the cover to position "A".

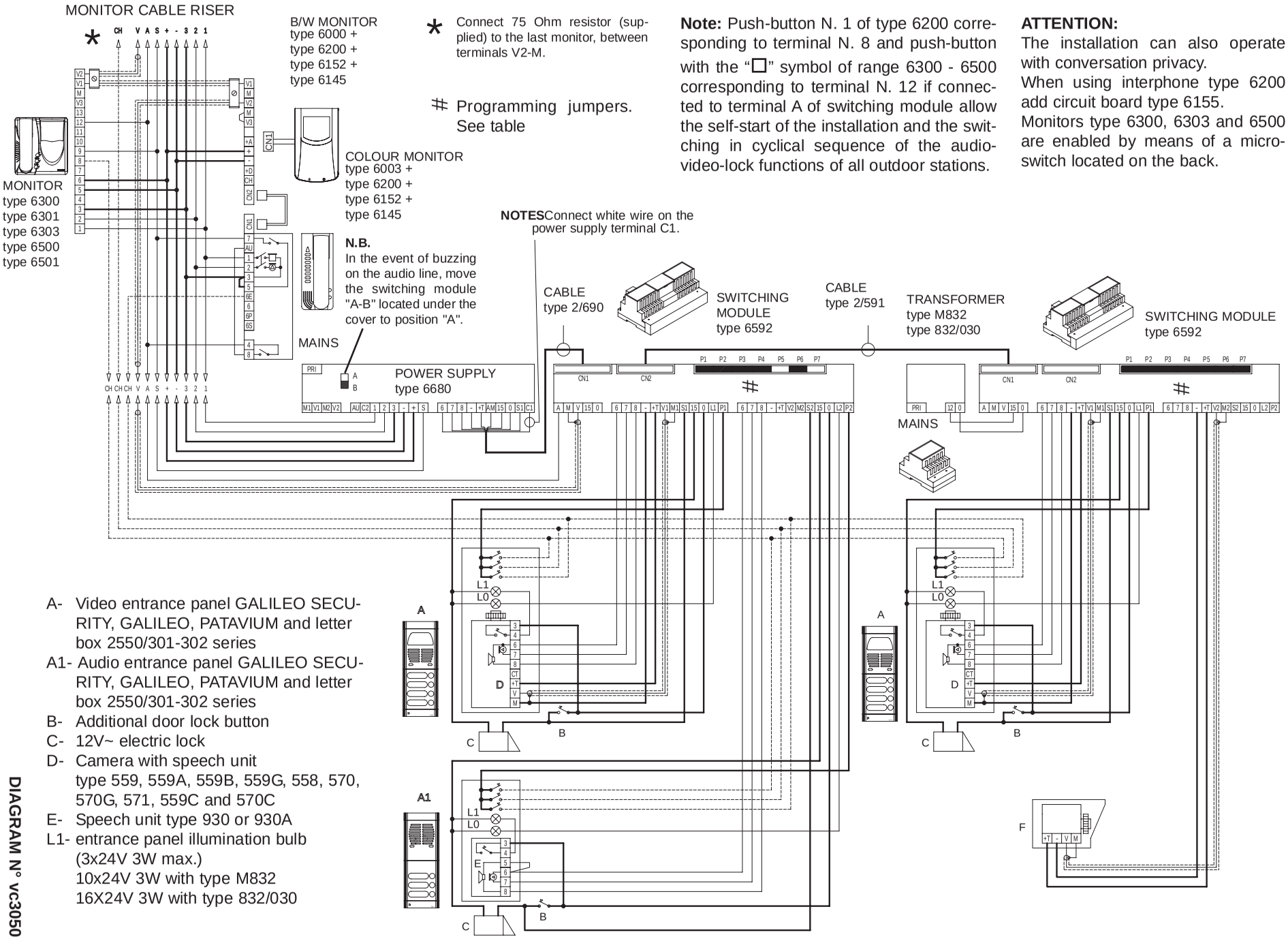
* Connect 75 Ohm resistor (supplied) to the last monitor, between terminals V2-M.

A- Video entrance panel GALILEO SECURITY, GALILEO, PATAVIUM and letter box 2550/301-302 series
B- Additional door lock button
C- 12V~ electric lock
D- Camera with speech unit type 559, 559A, 559B, 559G, 558, 570, 570G, 571, 559C and 570C
L0- "Engaged" lamp type 8291 for GALILEO range entrance panel
L1- Entrance panel illumination bulb (3x24V 3W max.)
10x24V 3W with type M832
16X24V 3W with type 832/030

Note: Push-button N. 1 of type 6200 corresponding to terminal N. 8 and push-button with the "☐" symbol of range 6300 - 6500 corresponding to terminal N. 12 if connected to terminal A of switching module allow the self-start of the installation and the switching in cyclical sequence of the audio-video-lock functions of all outdoor stations.

ATTENTION:
The installation can also operate with conversation privacy.
When using interphone type 6200 add circuit board type 6155.
Monitors type 6300, 6303 and 6500 are enabled by means of a microswitch located on the back.

DIAGRAM N° vc3048



Note: Push-button N. 1 of type 6200 corresponding to terminal N. 8 and push-button with the "☐" symbol of range 6300 - 6500 corresponding to terminal N. 12 if connected to terminal A of switching module allow the self-start of the installation and the switching in cyclical sequence of the audio-video-lock functions of all outdoor stations.

ATTENTION:
The installation can also operate with conversation privacy.
When using interphone type 6200 add circuit board type 6155.
Monitors type 6300, 6303 and 6500 are enabled by means of a micro-switch located on the back.

A- Video entrance panel GALILEO SECURITY, GALILEO, PATAVIUM and letter box 2550/301-302 series
A1- Audio entrance panel GALILEO SECURITY, GALILEO, PATAVIUM and letter box 2550/301-302 series
B- Additional door lock button
C- 12V~ electric lock
D- Camera with speech unit type 559, 559A, 559B, 559G, 558, 570, 570G, 571, 559C and 570C
E- Speech unit type 930 or 930A
L1- entrance panel illumination bulb (3x24V 3W max.)
10x24V 3W with type M832
16X24V 3W with type 832/030

DIAGRAM N° vc3050

VIDEO DOOR ENTRY SYSTEM IN BUILDING COMPLEX: CONNECTION OF MAIN ENTRANCE PANEL AND TWO OR MORE SECONDARY ENTRANCE PANELS

OPERATING PRINCIPLE

The installation allows connection of various apartment blocks with a main speech unit. Every single block may be equipped with an entrance panel with or without camera and monitors in each apartment. Main speech unit may have a camera entrance panel with names of all users in all buildings.

Switching module type 6594 in every apartment block, selects audio-video-door-lock connection of calling entrance panel (main and secondary).

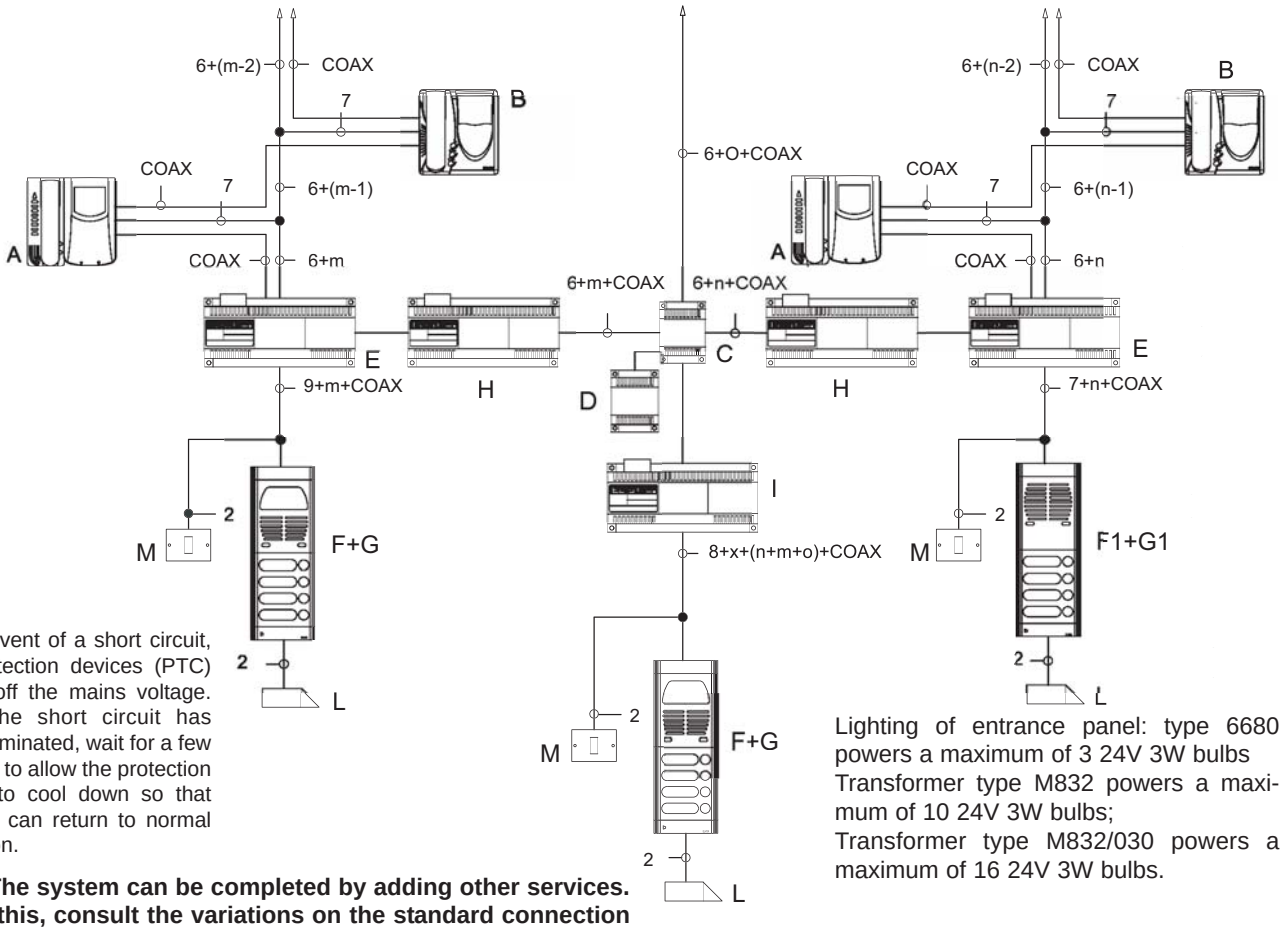
Every building is thus perfectly independent and enables simultaneous communication of monitors, in every apartment with its own entrance panel.

N.B.: Power supplier type 6680/V03 has the same features and functions as power supplier type 6680. It replaces power supplier type 6680 in "building complex" installations.

LIST OF ARTICLES REQUIRED FOR INSTALLATION (Diagram Ref. VC1930-VC4356-VC4357)

Diagram Ref.	Type	Name	Quantity
A	6000+6200+6145, 6003+6200+6145	Monitor	n
B	6300, 6301, 6303, 6500, 6501	Monitor	n
C	5556/004	Video distributor	1
D	6582	Power supply	1
E	6680/V03	Power supply	n
F	Video entrance panel series GALILEO SECURITY, GALILEO o PATAVIUM	Main entrance panel and video secondary entrance panel	n
F1	Audio secondary entrance series GALILEO SECURITY, GALILEO o PATAVIUM	Main entrance panel and audio secondary entrance panel	1÷n
G	type 559, 559A, 559B, 559G, 558, 570, 570G, 571 559C and 570C	Camera	n
G1	930 or 930A	Speech unit	n
H	6594	Switching module	n
I	6584	Power supply	1
L	-	Electric lock 12V A.C.	n
M	-	Landing call push-button	n
m	-	Number of users 1st building	m
n	-	Number of users 2nd building	n
o	-	Number of users 3rd building	o
x	-	Number of buildings	x

A complete diagram is obtained by putting basic diagram vc1930 together with vc4356 or vc4357.

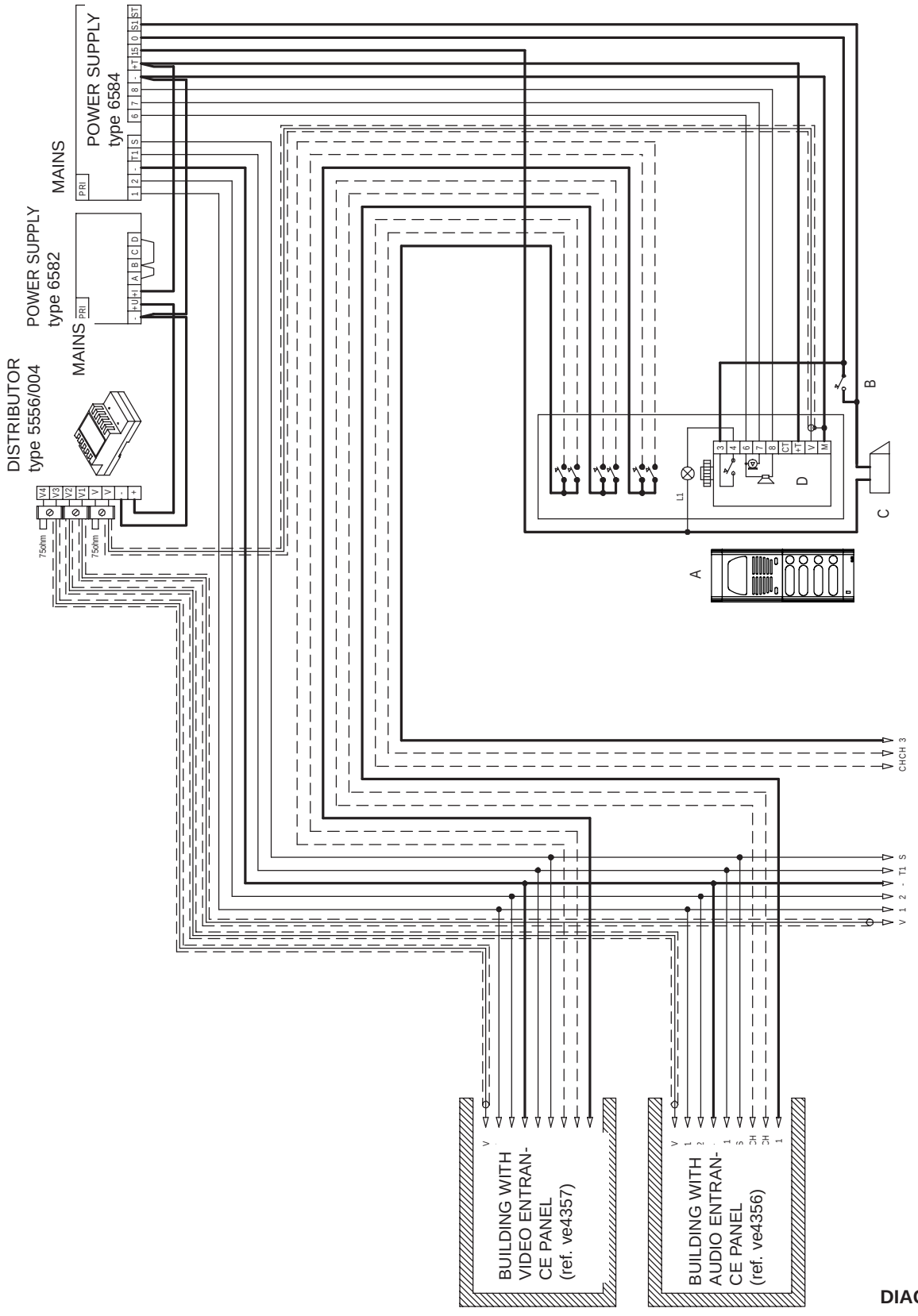


In the event of a short circuit, the protection devices (PTC) switch off the mains voltage. Once the short circuit has been eliminated, wait for a few minutes to allow the protection device to cool down so that the unit can return to normal operation.

N. B. The system can be completed by adding other services. To do this, consult the variations on the standard connection for the various system components, on pages 115 to 131.

Lighting of entrance panel: type 6680 powers a maximum of 3 24V 3W bulbs
Transformer type M832 powers a maximum of 10 24V 3W bulbs;
Transformer type M832/030 powers a maximum of 16 24V 3W bulbs.

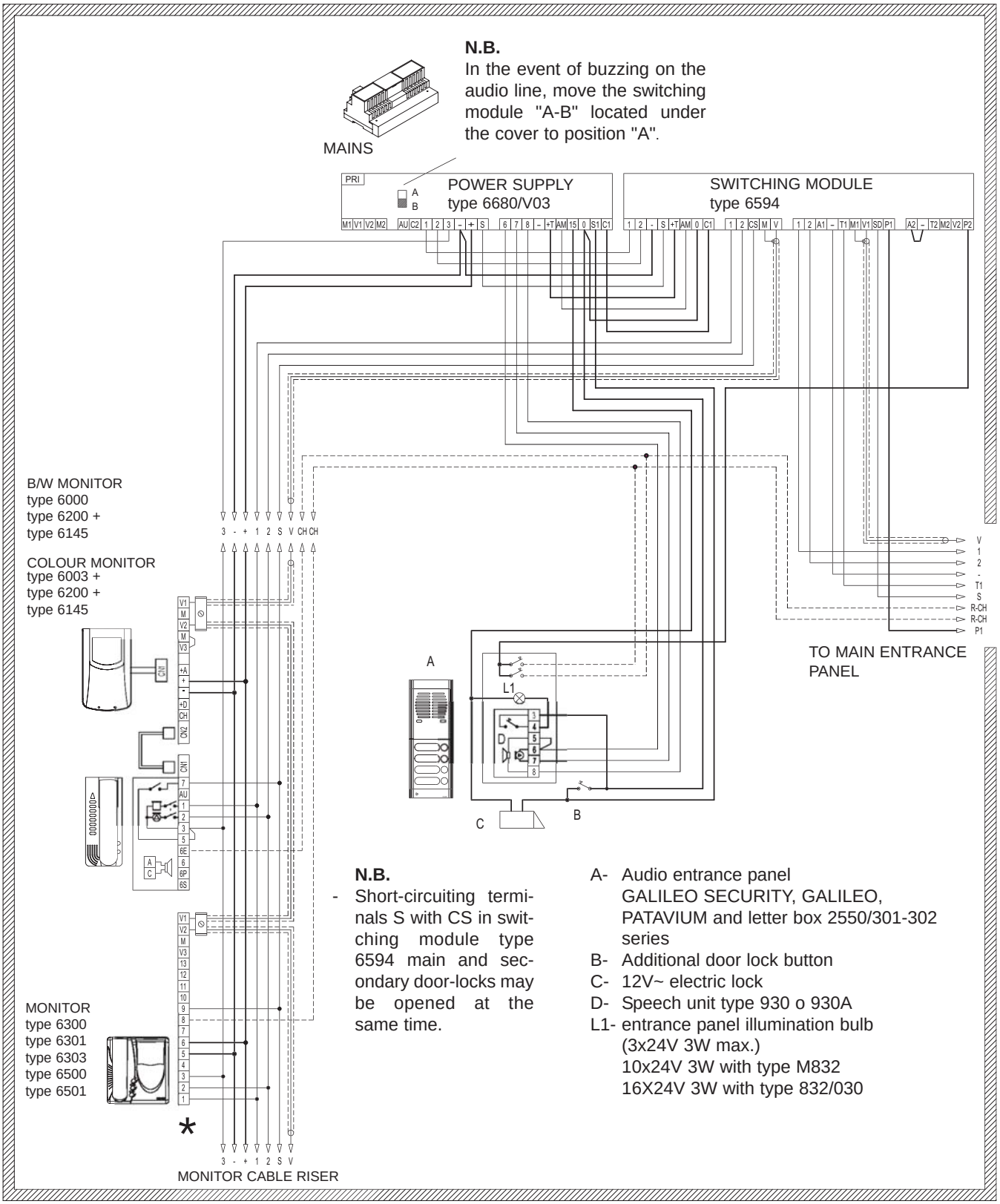
BLOCK DIAGRAM N° sb1233



L1- Entrance panel illumination bulb
(3x24V 3W max.)
10x24V 3W with type M832
16X24V 3W with type 832/030

A- Video entrance panel GALILEO SECURITY, GALILEO, PATAVIUM and letter box 2550/301-302 series
B- Additional door lock button
C- 12V~ electric lock
D- Camera with speech unit type 559, 559A, 559B, 559G, 558, 570, 570G, 559C and 570C

DIAGRAM N° ve1930



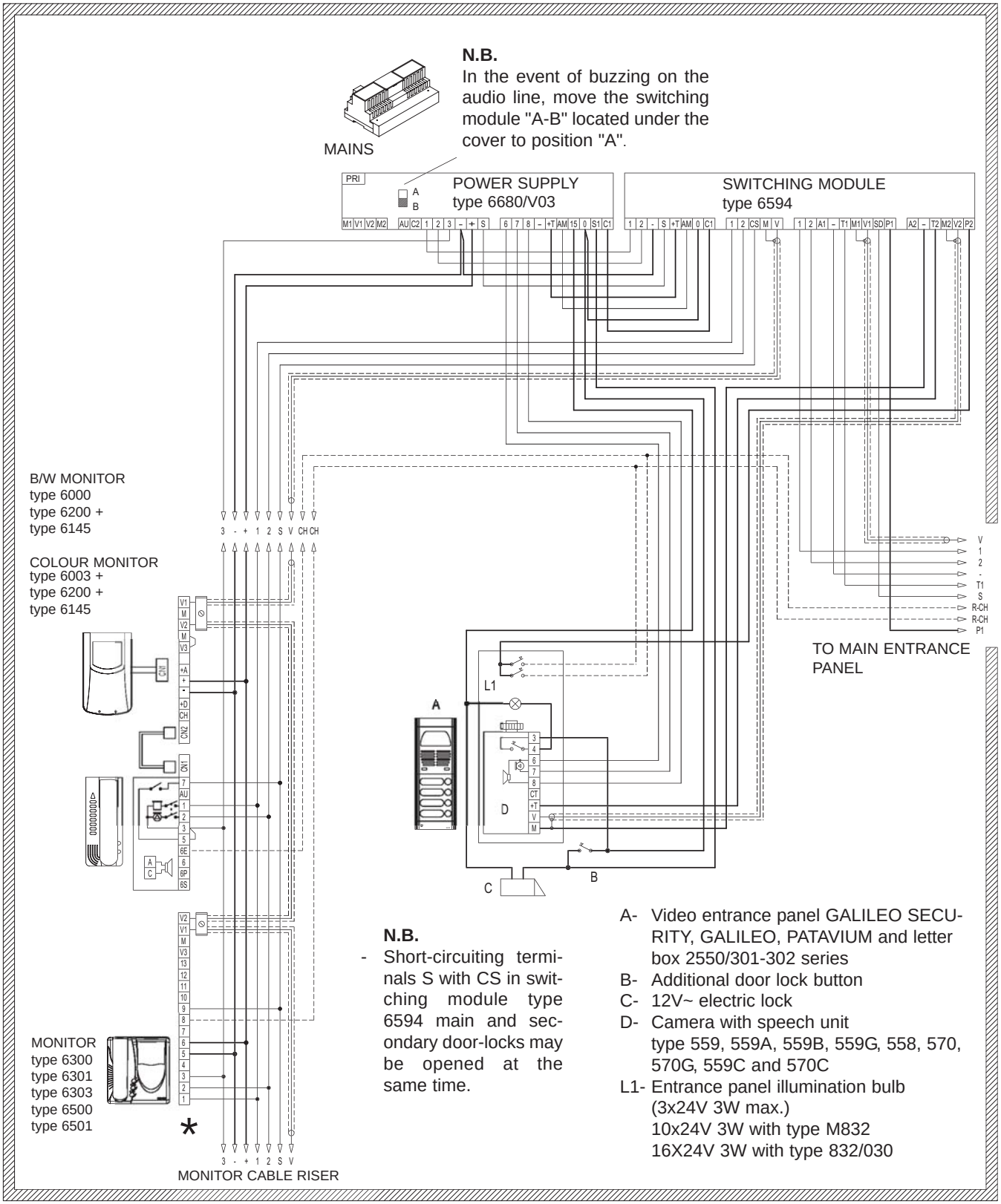
N.B.
- Short-circuiting terminals S with CS in switching module type 6594 main and secondary door-locks may be opened at the same time.

A- Audio entrance panel GALILEO SECURITY, GALILEO, PATAVIUM and letter box 2550/301-302 series
B- Additional door lock button
C- 12V~ electric lock
D- Speech unit type 930 o 930A
L1- entrance panel illumination bulb (3x24V 3W max.)
10x24V 3W with type M832
16X24V 3W with type 832/030

N.B.
The monitors have a microswitch on the back for connection "with coaxial/without coaxial"; set the microswitch to "coaxial".

*
Connect 75 Ohm resistor (supplied) to the last monitor, between terminals V2-M.

DIAGRAM N° ve4356



N.B.
The monitors have a microswitch on the back for connection "with coaxial/without coaxial"; set the microswitch to "coaxial".

* Connect 75 Ohm resistor (supplied) to the last monitor, between terminals V2-M.

DIAGRAM N° ve4357

SYSTEM DESCRIPTION AND OPERATION.

The switchboard works both in installations with "Sound System" call and in installations with AC call.
During the course of "internal" operation (IE key switched to I) the system maintains conversation privacy between the switchboard and the interphones, by disabling the speech unit. To communicate from the switchboard to the interphones or the monitors, press the line selector key and the CH button. In the specific case of a call from the switchboard to the monitor, only the audio part is active, and the video is disactivated.

To call the switchboard from the interphones or monitors, lift the interphone and press the push-button . To reply from the switchboard press the key corresponding to the LED that is ON. The switchboard is equipped with 50Hz acoustic signalling that the line is engaged. An electronic device diverts all calls from the entrance panel to the porter ringtone. During "external" operation (IE key set to E) the system enables communication without conversation privacy between the interphones or monitors and the speech unit.The switchboard is excluded from the connection with the interphones and can communicate with the speech unit. Calls from the entrance panel are sent to the respective internal users. The same porter switchboard call push-button on the interphones or monitors operates the electric lock by means of a relay fitted in the switchboard. When the switchboard is in the "external" state (I/E key set to E), to open the lock for the entrance panel from the switchboard, press the AP button.
For switchboards with more than 80 lines, there is a multiplier key "=x" on the switchboard, which enables you to double the number of lines. Each key inserts two users separately.

OPERATIONS TO CARRY OUT

To communicate with an interphone or monitor from the switchboard:
- lift the interphone;
- on the multiplier key, select the LED (yellow or red depending on the interphone you wish to call);
- press the line selector key: this lights the corresponding LED of the same colour as the LED on the multiplier key.

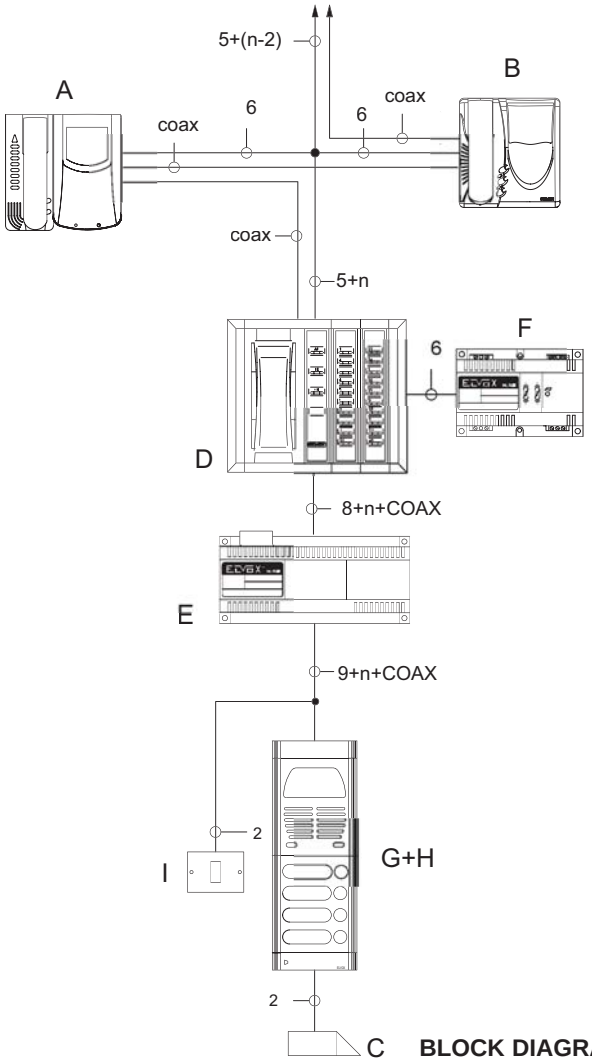
To change, simply press the multiplier key.
All the other functions remain unchanged.

SWITCHBOARD INSTALLATION

Switchboard may be flush-mounted or flush/desk-top mounted.
For surface wall-mounted, carry out following operations: open housing and loosen screws fixing the two metal side supports.
Slide supports out and reverse their position. In this way, the position of switchboard front panel is tilted, allowing interphone hooking.

In the event of a short circuit, the protection devices (PTC) switch off the mains voltage. Once the short circuit has been eliminated, wait for a few minutes to allow the protection device to cool down so that the unit can return to normal operation.

N. B. The system can be completed by adding other services. To do this, consult the variations on the standard connection for the various system components, on pages 115 to 131.



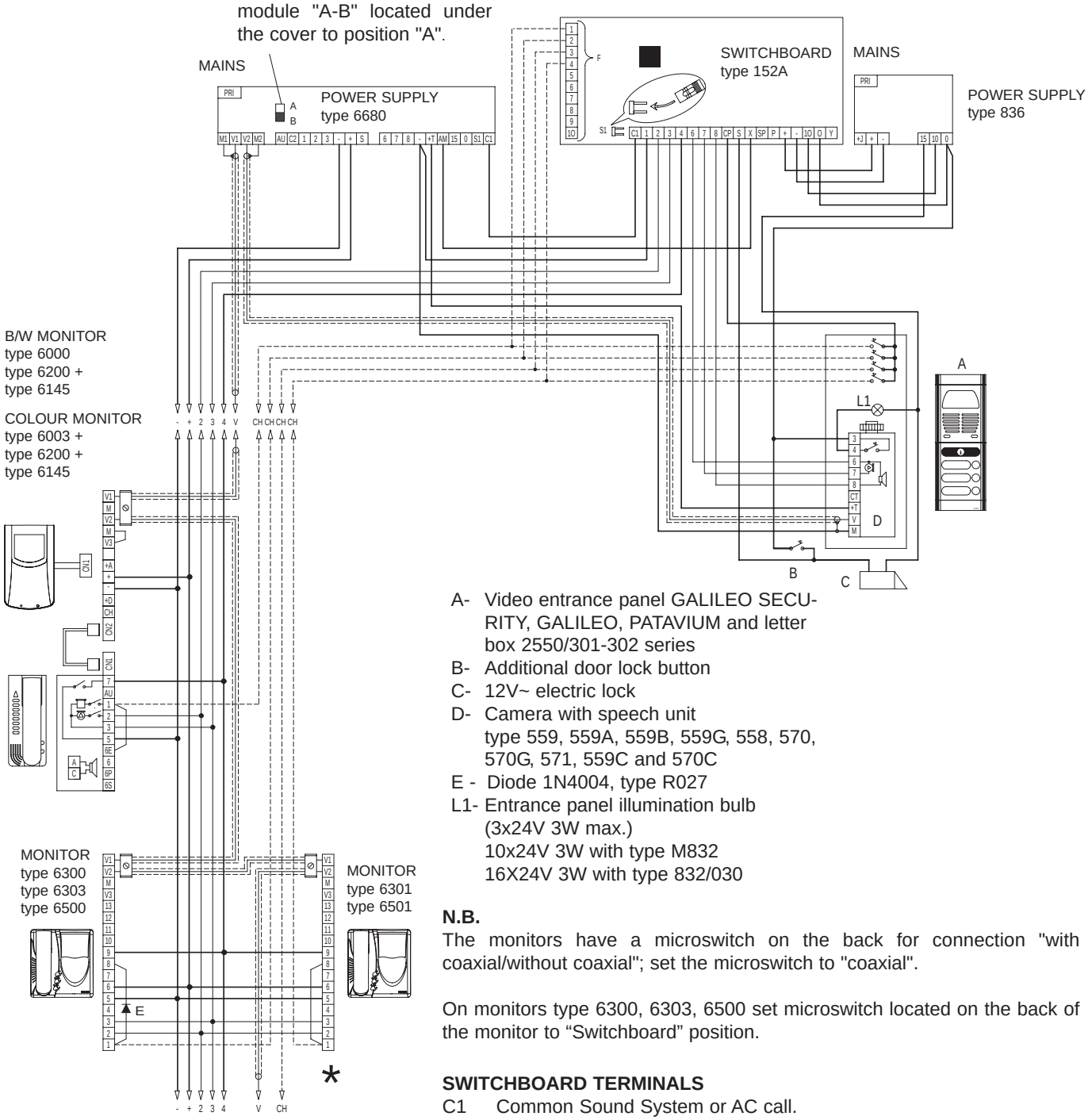
BLOCK DIAGRAM N° sb1234

LIST OF ARTICLES REQUIRED FOR INSTALLATION (Diagram Ref. VP3425)

Diagram Ref.	Type	Name	Quantity
A	6000+6200+6145, 6003+6200+6145	Monitor	n
B	6300, 6301, 6303, 6500, 6501	Interphone	n
C	-	Electric lock 12V A.C.	1
D	152A-152B- - -152I	Switchboard	1
E	6680	Power supply	1
F	836	Power supply for switchboard	1
G	Series GALILEO SECURITY, GALILEO o PATAVIUM	Entrance panel	1
H	type 559, 559A, 559B, 559G, 558 570, 570G, 571, 559C e 570C	Camera	1
I	-	Additional door lock button	1
n	-	Number of entrance panel calls	n

N.B.
In the event of buzzing on the audio line, move the switching module "A-B" located under the cover to position "A".

■ Insert the jumper S1



A- Video entrance panel GALILEO SECURITY, GALILEO, PATAVIUM and letter box 2550/301-302 series
B- Additional door lock button
C- 12V~ electric lock
D- Camera with speech unit type 559, 559A, 559B, 559G, 558, 570, 570G, 571, 559C and 570C
E - Diode 1N4004, type R027
L1- Entrance panel illumination bulb (3x24V 3W max.)
10x24V 3W with type M832
16X24V 3W with type 832/030

N.B.
The monitors have a microswitch on the back for connection "with coaxial/without coaxial"; set the microswitch to "coaxial".

On monitors type 6300, 6303, 6500 set microswitch located on the back of the monitor to “Switchboard” position.

* Connect 75 Ohm resistor (supplied) to the last monitor, between terminals V2-M.

SWITCHBOARD TERMINALS

C1 Common Sound System or AC call.
1 Negative
2 Microphone
3 Common audio line
4 Porter switchboard call (switchboard in "INTERNAL" position) or open door lock (switchboard in "EXTERNAL" position)
6,7,8 Speech unit
CP Common, buttons for entrance panels
S Door lock
X Monitor OFF
SP-P Connection for additional external ringtone. The ringtone is activated by means of calls from the entrance panel with the switchboard in the "INTERNAL" position.
F Interphone receivers and interphone call

DIAGRAM N° VP3425

SYSTEM DESCRIPTION AND OPERATION.

The switchboard works both in installations with "Sound System" call and in installations with AC call.
During the course of "internal" operation (IE key switched to I) the system maintains conversation privacy between the switchboard and the interphones, by disabling the speech unit. To communicate from the switchboard to the interphones or the monitors, press the line selector key and the CH button. In the specific case of a call from the switchboard to the monitor, only the audio part is active, and the video is disactivated.

To call the switchboard from the interphones or monitors, lift the interphone and press the push-button  . To reply from the switchboard press the key corresponding to the LED that is ON. The switchboard is equipped with 50Hz acoustic signalling that the line is engaged. An electronic device diverts all calls from the entrance panel to the porter ringtone. During "external" operation (IE key set to E) the system enables communication without conversation privacy between the interphones or monitors and the speech unit.The switchboard is excluded from the connection with the interphones and can communicate with the speech unit. Calls from the entrance panel are sent to the respective internal users. The same porter switchboard call push-button on the interphones or monitors operates the electric lock by means of a relay fitted in the switchboard. When the switchboard is in the "external" state (I/E key set to E), to open the lock for the entrance panel from the switchboard, press the AP button.
For switchboards with more than 80 lines, there is a multiplier key "=x" on the switchboard, which enables you to double the number of lines. Each key inserts two users separately.

OPERATIONS TO CARRY OUT

To communicate with an interphone or monitor from the switchboard:
- lift the interphone;
- on the multiplier key, select the LED (yellow or red depending on the interphone you wish to call);
- press the line selector key: this lights the corresponding LED of the same colour as the LED on the multiplier key.

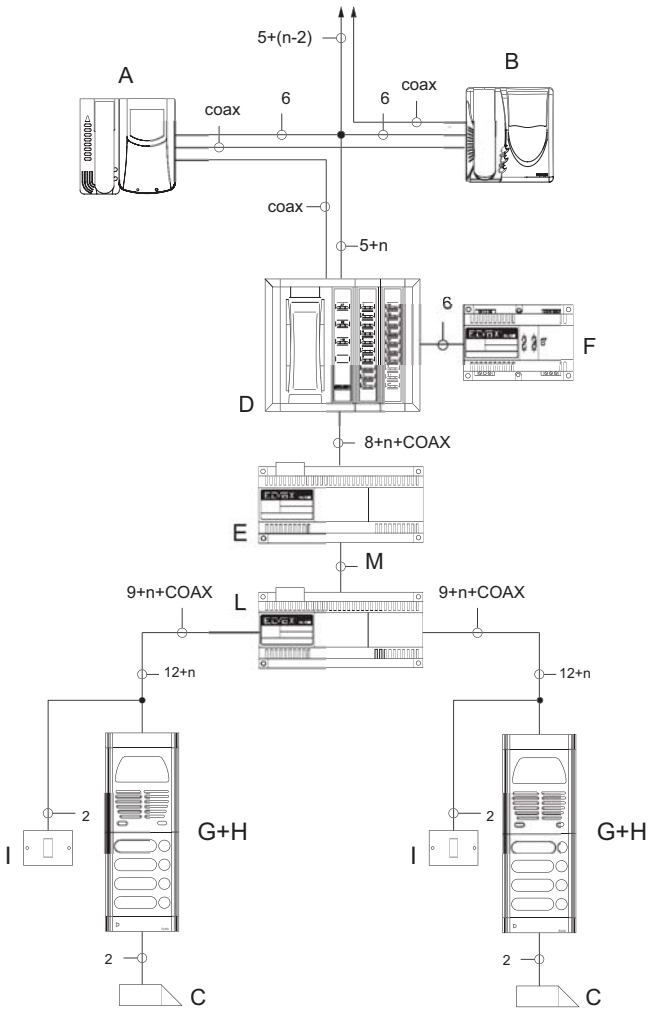
To change, simply press the multiplier key.
All the other functions remain unchanged.

SWITCHBOARD INSTALLATION

Switchboard may be flush-mounted or flush/desk-top mounted.
For surface wall-mounted, carry out following operations: open housing and loosen screws fixing the two metal side supports.
Slide supports out and reverse their position. In this way, the position of switchboard front panel is tilted, allowing interphone hooking.

In the event of a short circuit, the protection devices (PTC) switch off the mains voltage. Once the short circuit has been eliminated, wait for a few minutes to allow the protection device to cool down so that the unit can return to normal operation.

N. B. The system can be completed by adding other services. To do this, consult the variations on the standard connection for the various system components, on pages 115 to 131.



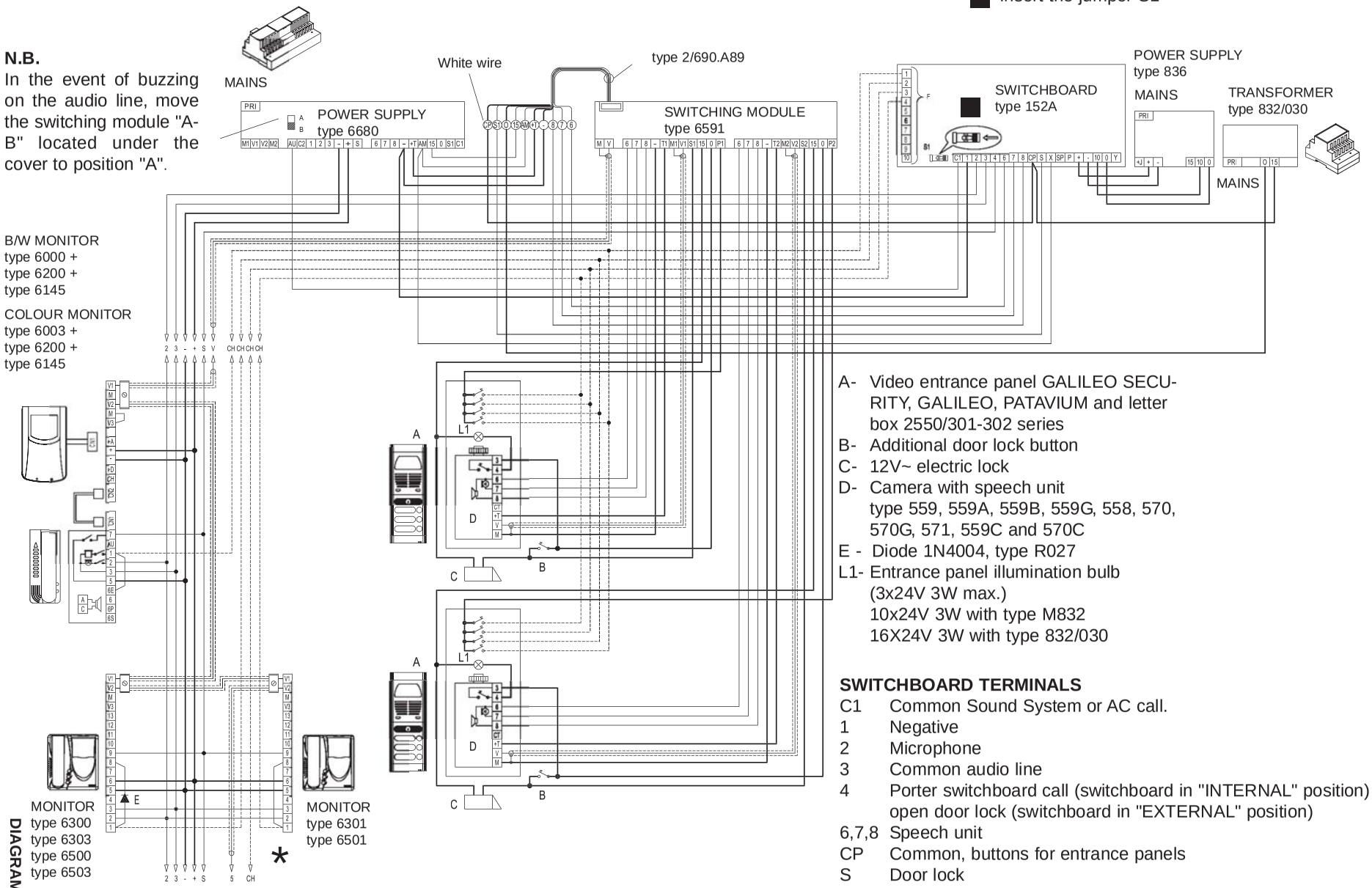
BLOCK DIAGRAM N° sb1234

LIST OF ARTICLES REQUIRED FOR INSTALLATION (Diagram Ref. VP4519)

Diagram Ref.	Type	Name	Quantity
A	6000+6200+6145, 6003+6200+6145	Monitor	n
B	6300, 6301, 6303, 6500, 6501	Interphone	n
C	-	Electric lock 12V A.C.	1
D	152A-152B- - -152I	Switchboard	1
E	6680	Power supply	1
F	836	Power supply for switchboard	1
G	Series GALILEO SECURITY, GALILEO o PATAVIUM	Entrance panel	1
H	type 559, 559A, 559B, 559G, 558 570, 570G, 571, 559C e 570C(colour)	Camera	1
I	-	Additional door lock button	1
L	type 6591	Switching module	1
M	type 2/690.A89	Harness	1
n	-	Number of entrance panel calls	n

N.B.
In the event of buzzing on the audio line, move the switching module "A-B" located under the cover to position "A".

■ Insert the jumper S1



A- Video entrance panel GALILEO SECURITY, GALILEO, PATAVIUM and letter box 2550/301-302 series
B- Additional door lock button
C- 12V~ electric lock
D- Camera with speech unit type 559, 559A, 559B, 559G, 558, 570, 570G, 571, 559C and 570C
E - Diode 1N4004, type R027
L1- Entrance panel illumination bulb (3x24V 3W max.)
10x24V 3W with type M832
16X24V 3W with type 832/030

SWITCHBOARD TERMINALS

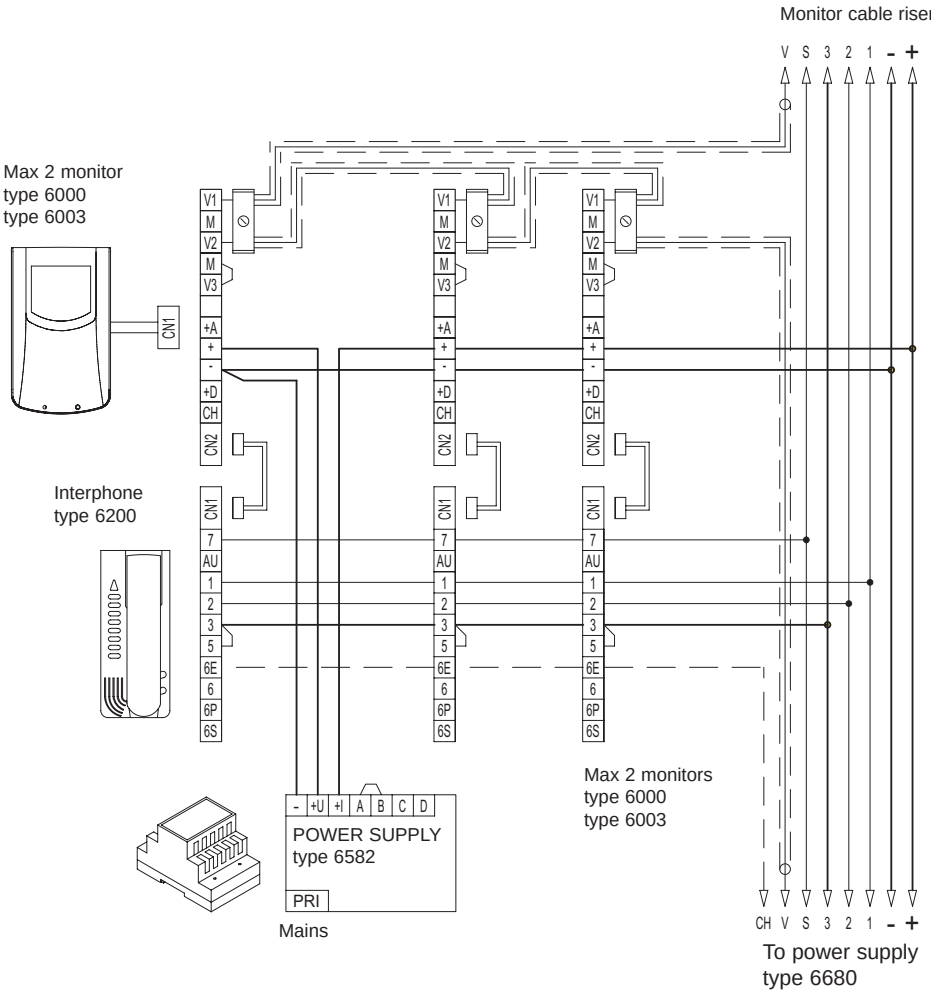
C1	Common Sound System or AC call.
1	Negative
2	Microphone
3	Common audio line
4	Porter switchboard call (switchboard in "INTERNAL" position) or open door lock (switchboard in "EXTERNAL" position)
6,7,8	Speech unit
CP	Common, buttons for entrance panels
S	Door lock
X	Monitor OFF
SP-P	Connection for additional external ringtone. The ringtone is activated by means of calls from the entrance panel with the switchboard in the "INTERNAL" position. Interphone receivers and interphone call.

* Connect 75 Ohm resistor (supplied) to the last monitor, between terminals V2-M.

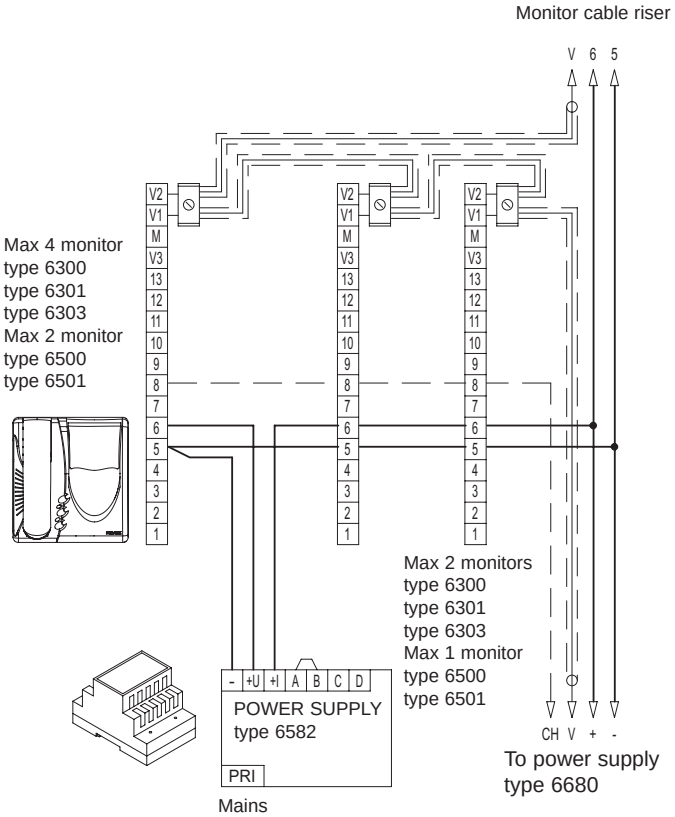
DIAGRAM N° VP4519

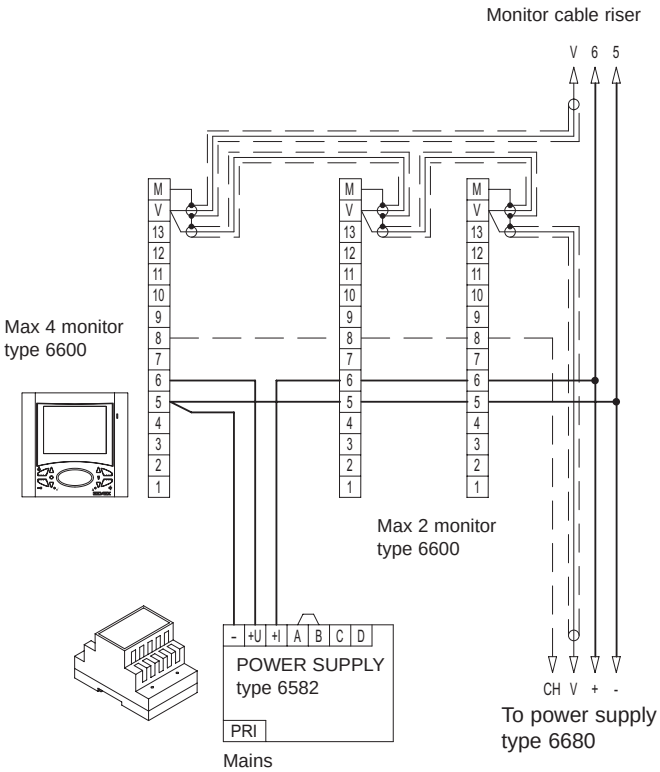
VARIATION 17

Wiring diagram with simultaneous activation of two or more monitors by power supply type 6582



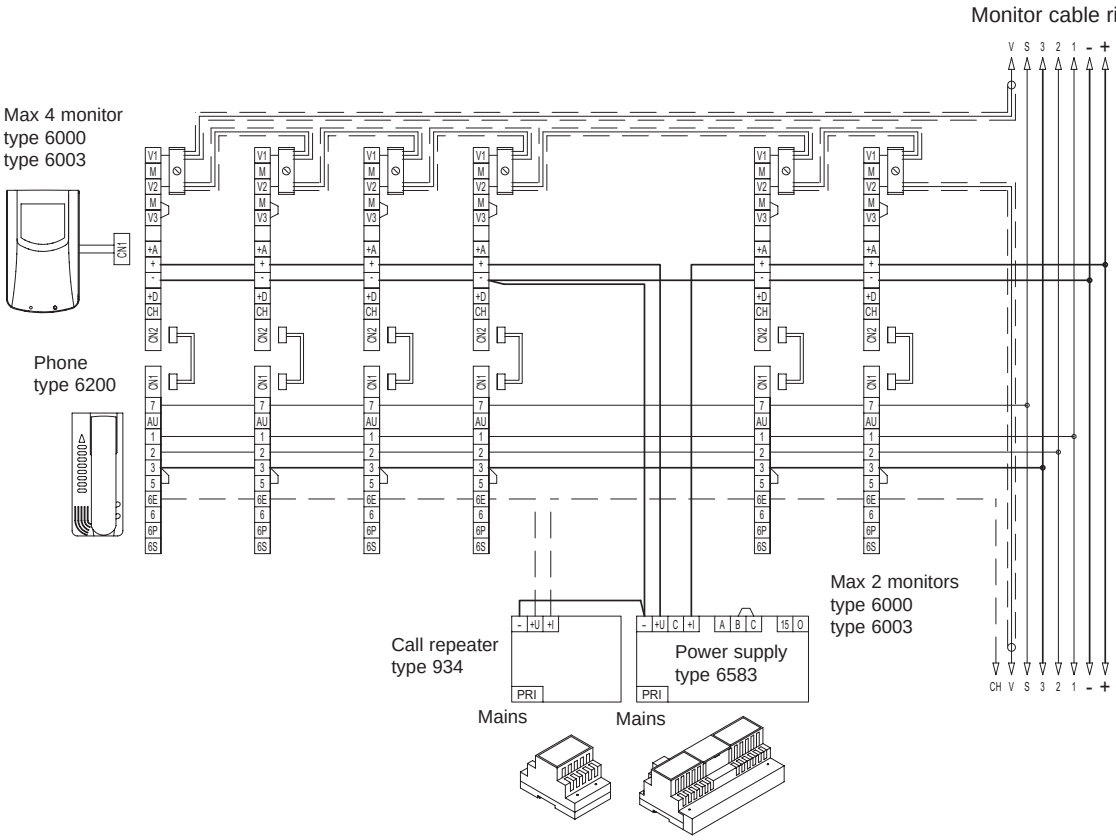
The power supply type 6680 can simultaneously power two monitors type 6000, 6003, 6300, 6301, 6303 or one monitor type 6500, 6501 by connecting them as shown in the diagram.
With a larger number of monitors switched on simultaneously, it is necessary to use the additional power supply type 6582: connect a maximum of two monitors type 6000, 6003, 6300, 6301, 6303, 6600 or one monitor type 6500, 6501, or use the desk-top conversion kits with built-in power supply.
For simultaneous switch-on of more than one monitor with the same call, use type 934 to regenerate the call signal.
Use type 934 after the 3rd monitor and for a further 4 monitors.





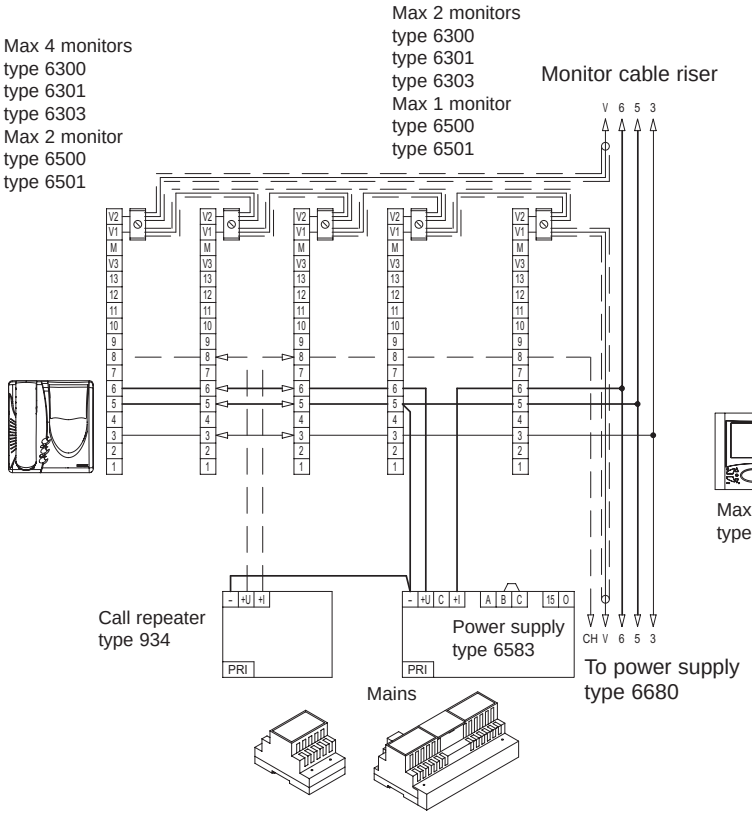
VARIATION 18

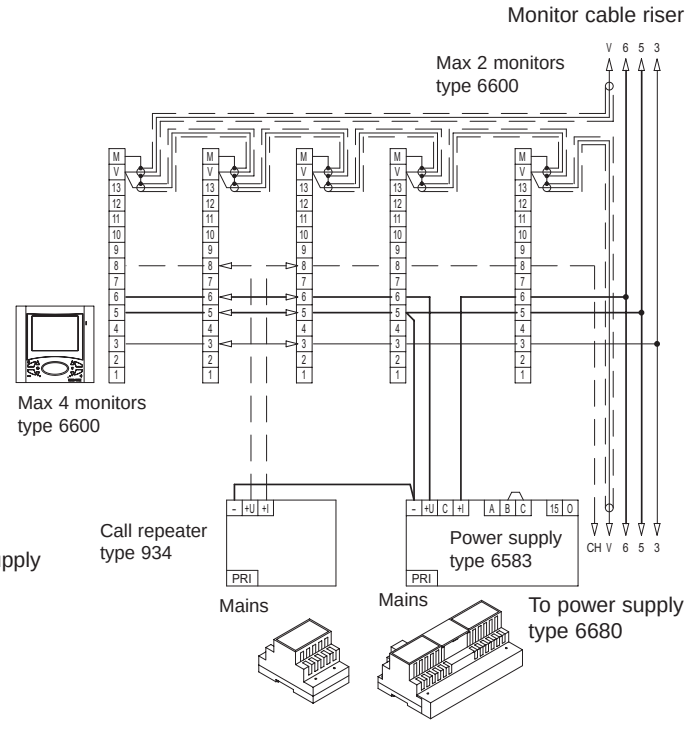
Wiring diagram with simultaneous switch-on of two or more monitors with power supply type 6583, with call repeater type 934.



The power supply type 6680 can power two monitors type 6000, 6003, 6300, 6301, 6303 or one monitor type 6500, 6501 by connecting them as shown in the standard diagram.

For simultaneous switch-on of more than one monitor, it is necessary to use the additional power supply type 6583: connect a maximum of four monitors type 6000, 6003, 6300, 6301, 6303, 6600 or two monitors type 6500, 6501, or use the desk-top conversion kits with built-in power supply.



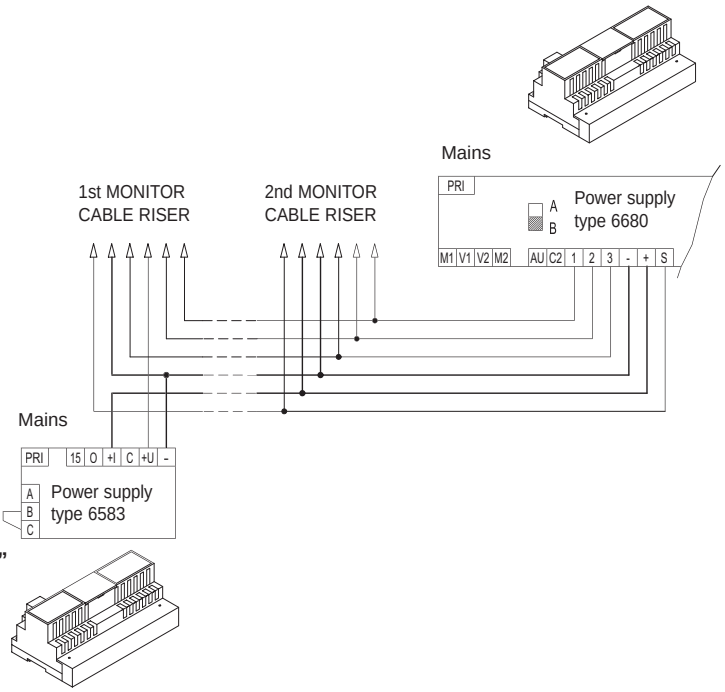


VARIATION 19

Wiring diagram for power supply type 6583 on installations with considerable voltage drop on power line "+ -".

Stand-by line power supply type 6583 may be connected as shown in the diagram in case of long supply lines where power voltage on the line wiring to the monitors (+ -) is less than 15V D.C. between terminals 5-6. The unit can supply 18V D.C. 2A with intermittent operation.

If a line with excessive voltage drops powers a single monitor, you can use the power supply type 6582.

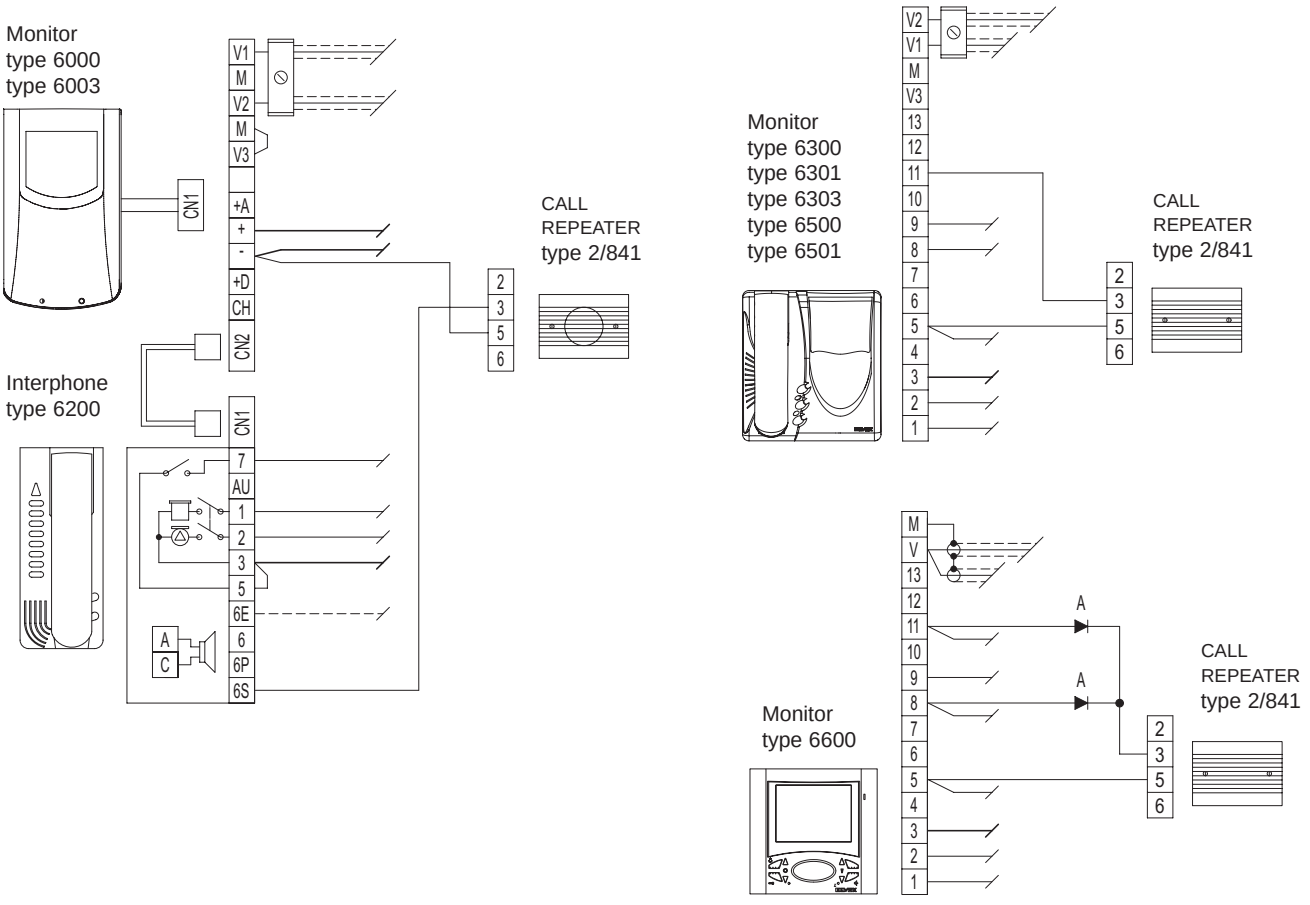


N.B. Set jumper in "B-C"

VARIATION 20

Connection of call repeater type 2/841.

The loudspeaker module type 2/841 repeats the monitor sound leaving the tone unaltered.

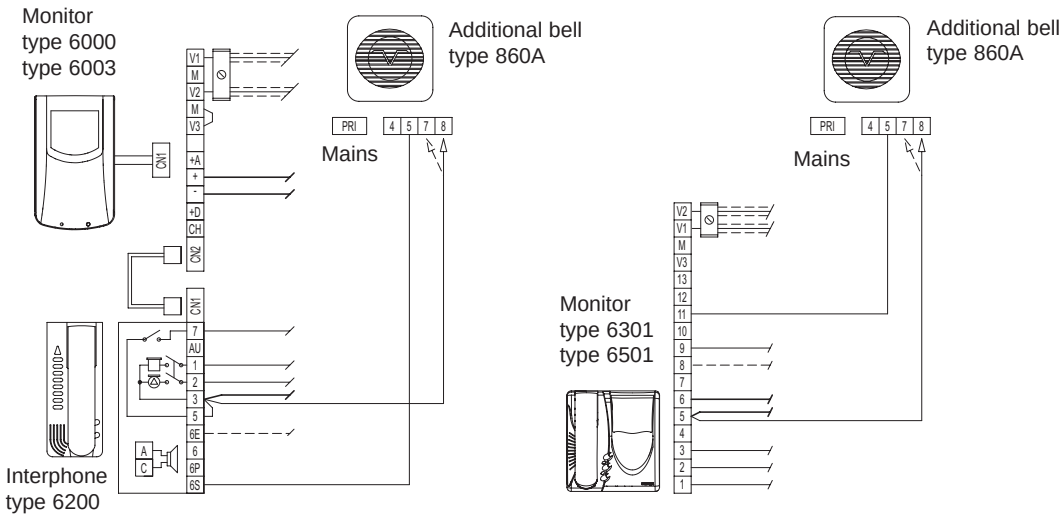


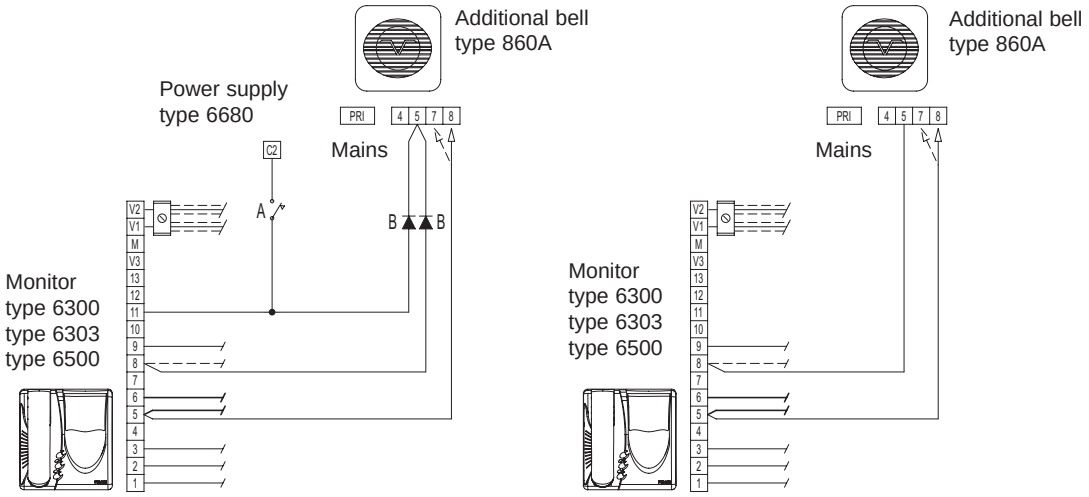
VARIATION 21

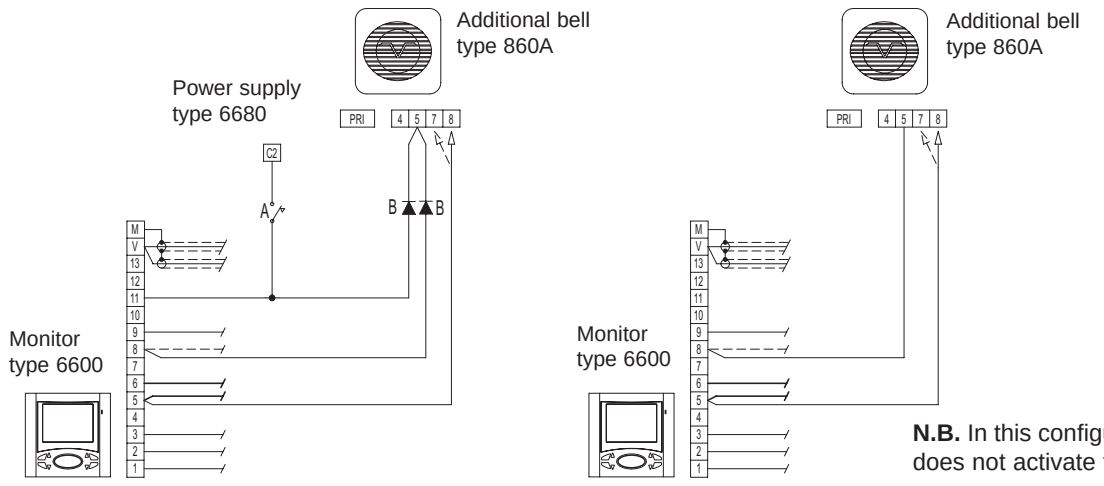
Wiring diagram of additional electronic ringtone type 860A.

N.B. Electronic ringtone type 860A features a two or three-notes ringtone which is selected by connection to the corresponding terminal (7 or 8). The ringtone is powered by the mains voltage.

A- Landing call push-button
B- Diode 1N4004, type R027







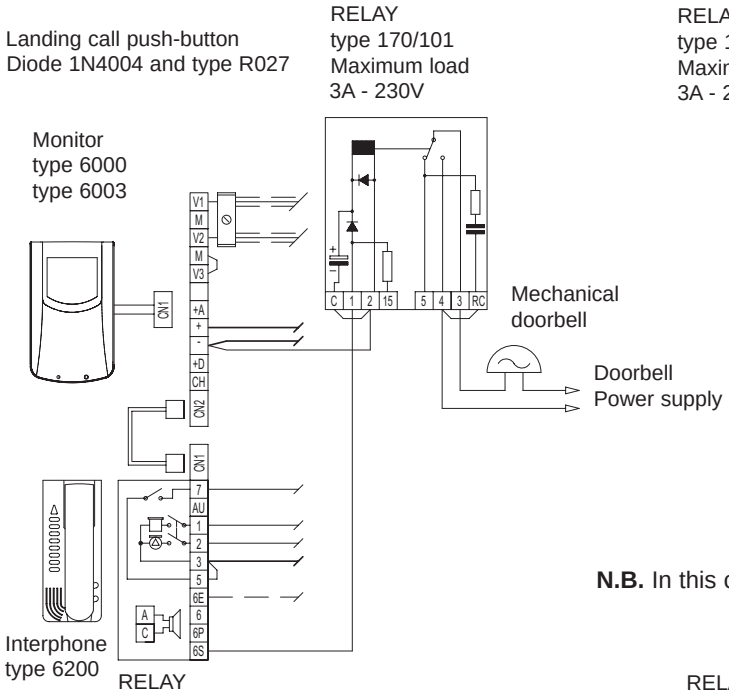
N.B. In this configuration, the landing call does not activate the additional bell.

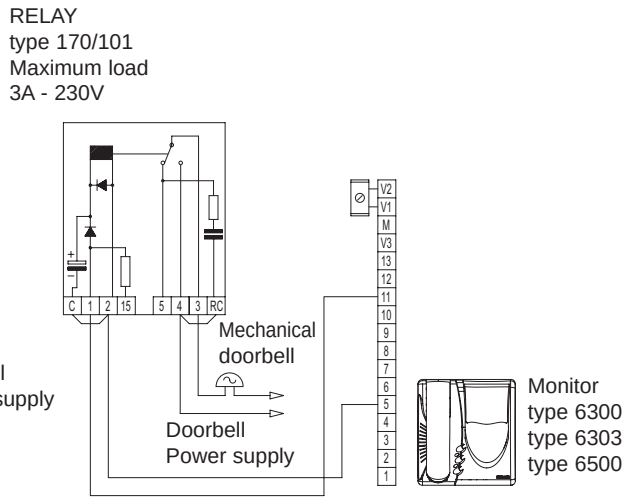
VARIATION 22

Wiring diagram for additional mechanical doorbells.

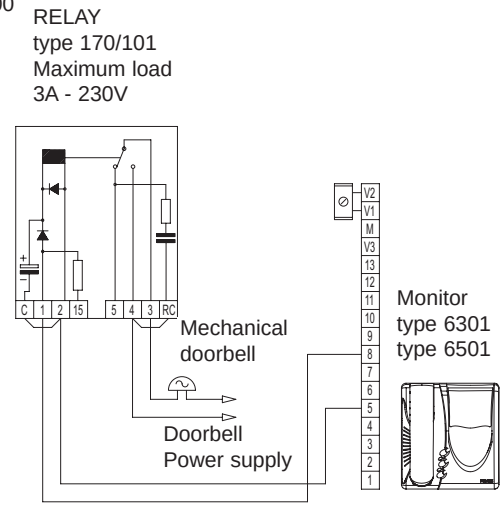
The diagram shows the connection of additional doorbells operating at 12 V AC or at the mains voltage using relay type 170/101, by connecting it as shown in the diagram.

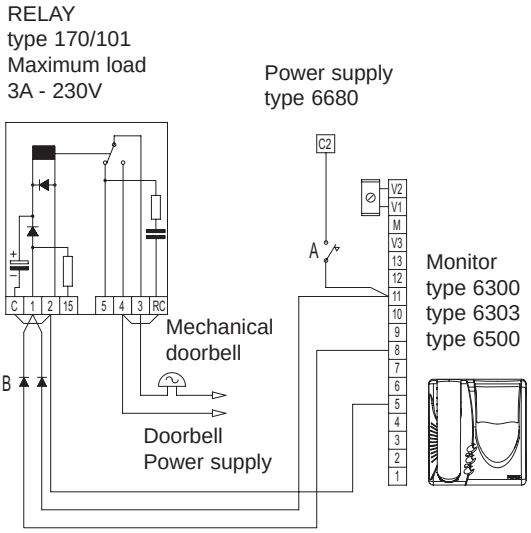
A- Landing call push-button
B- Diode 1N4004 and type R027

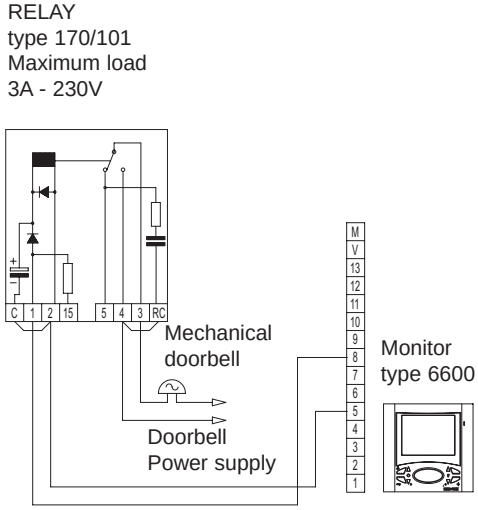


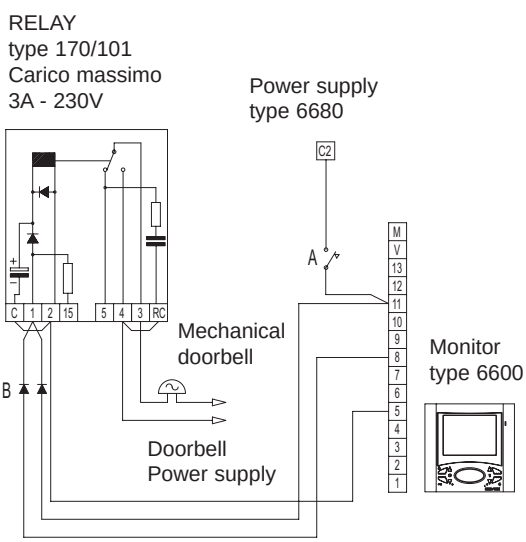


N.B. In this configuration, the landing call does not activate the relay









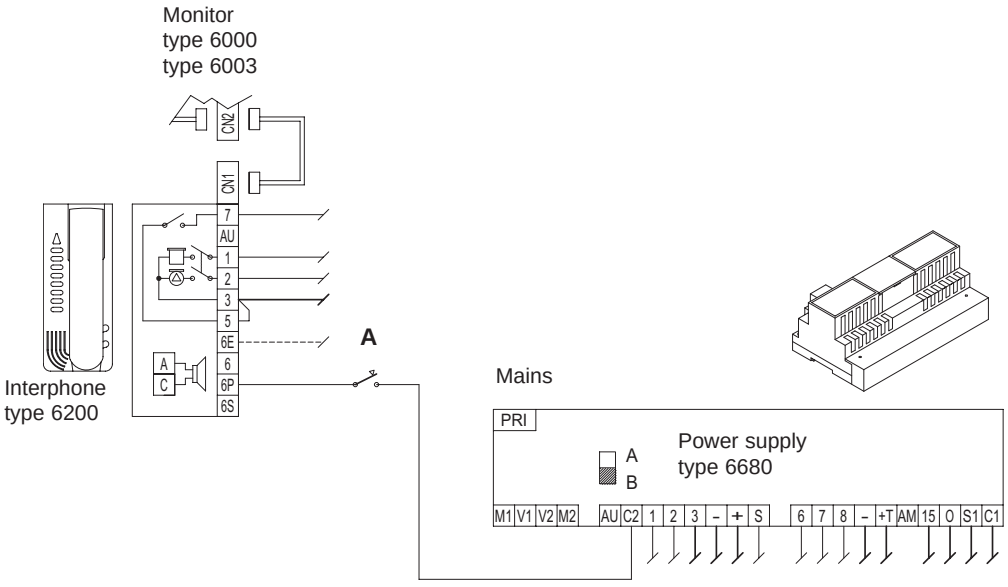
VARIATION 23

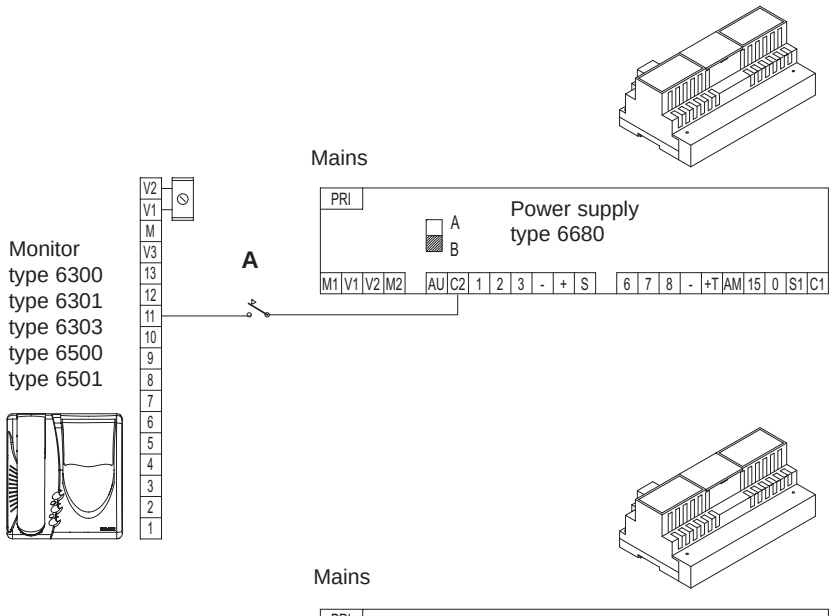
Wiring diagram for landing call button.

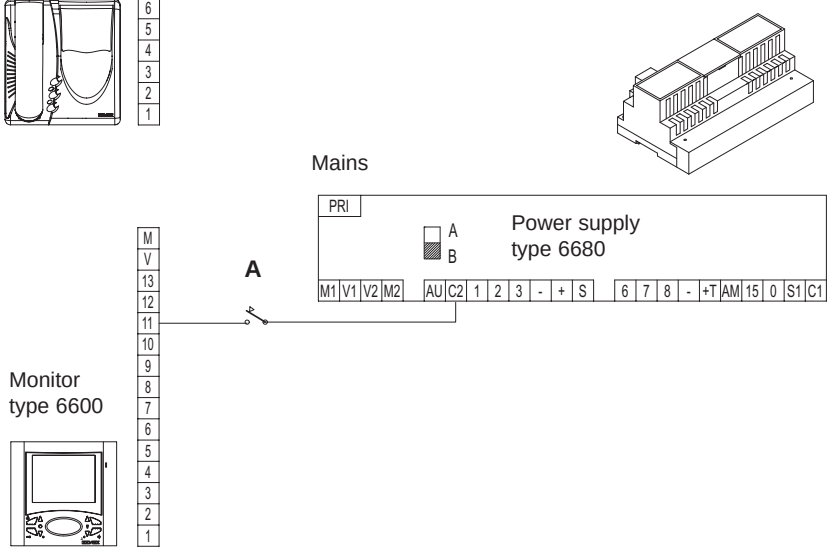
When the landing call push-button is pressed, the monitor sounds with a different tone from the tone generated by a call from the entrance panel. The monitor remains OFF.

A- Landing call push-button

If type 6150 is installed inside interphone type 6200, the landing call cannot be used.





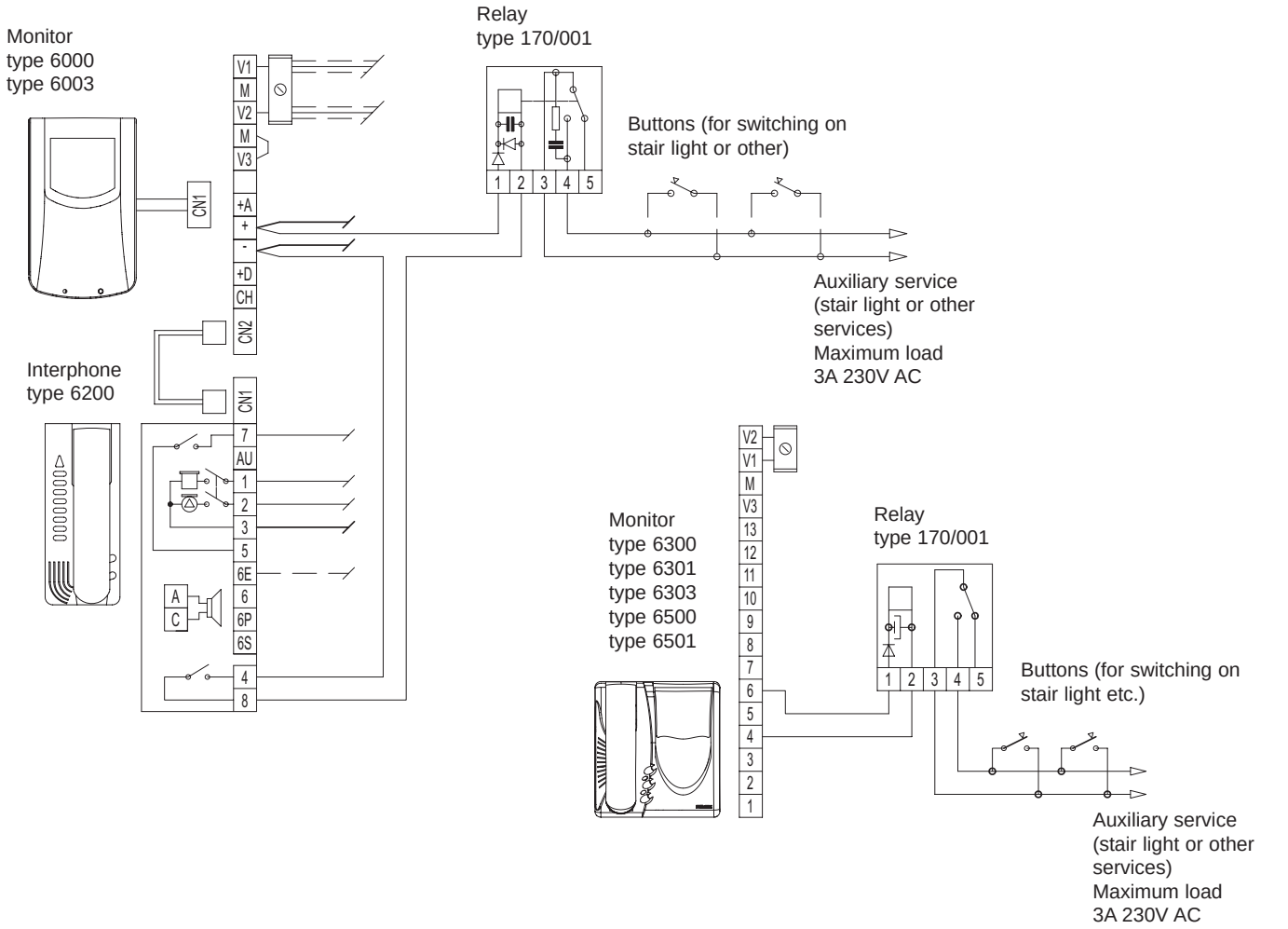


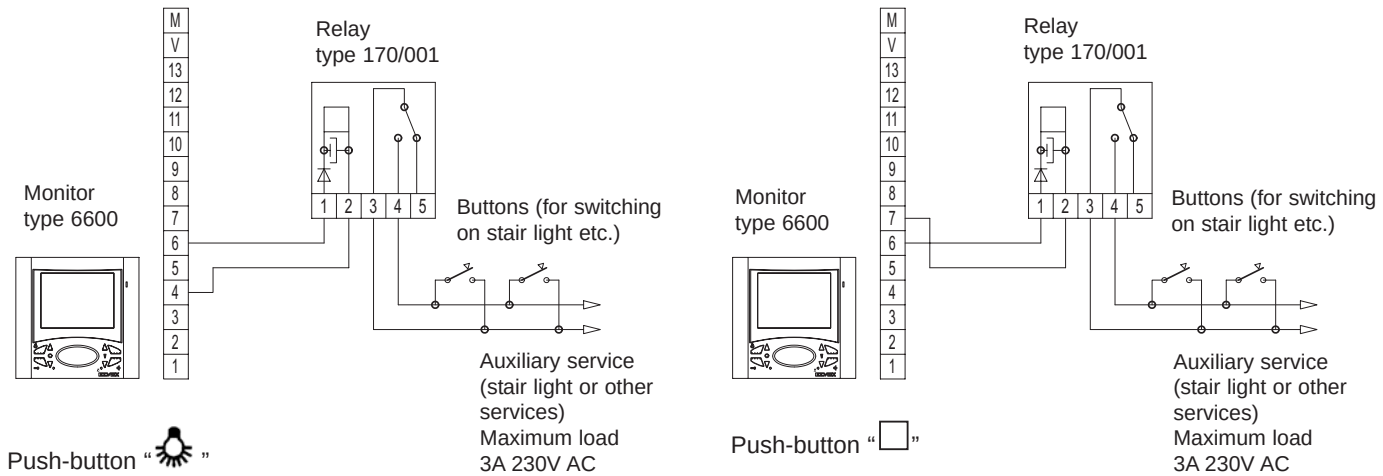
VARIATION 24

Wiring diagram for switching on the stair light or other services powered by AC mains by means of relay type 170/001.

To switch on the stair light in this case, press push-button number 1. You can connect any one of the eight additional buttons of type 6152. The capacity of the contacts of the monitor push-button is 24 V D.C./A.C. 0.5A max.

To activate the auxiliary service press the push-button with the symbol . The capacity of the contacts of the interphone push-button is 24 V D.C./AC 0.5 A max.

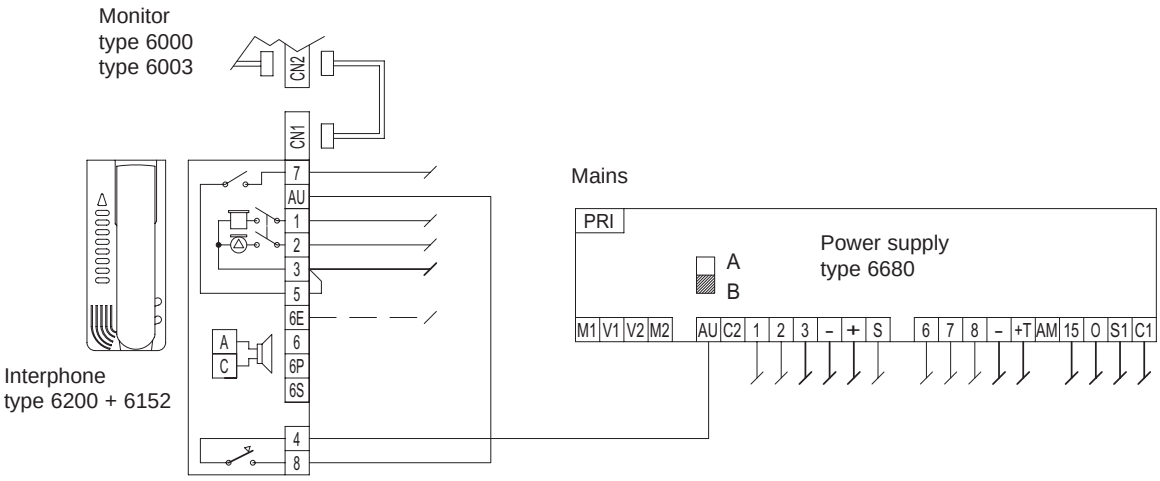




VARIATION 25

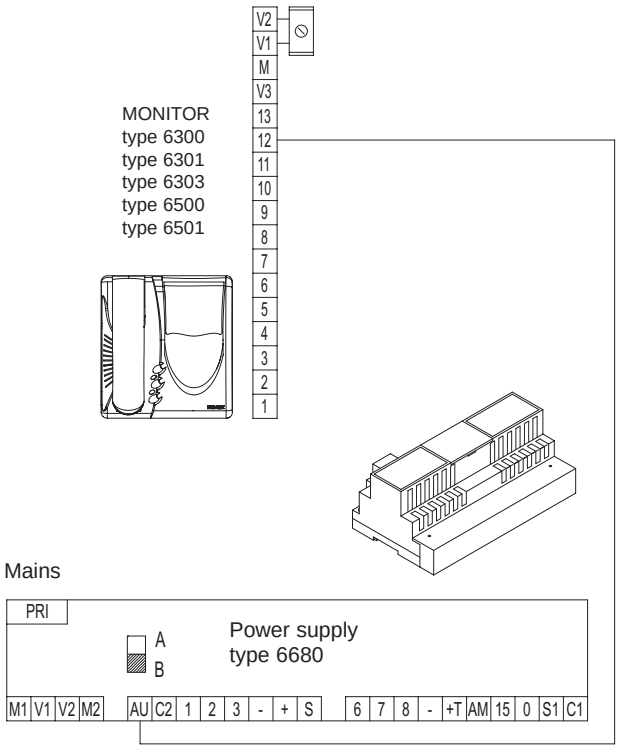
Wiring diagram for self-start of monitor

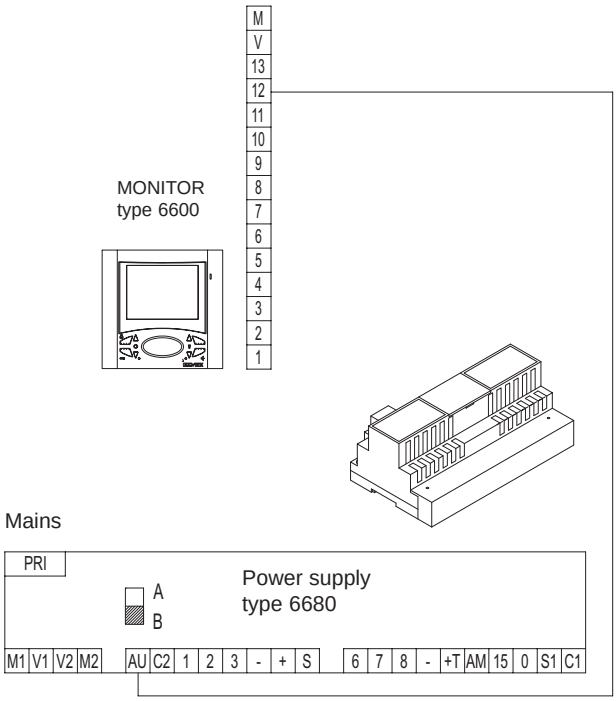
To activate the video system from the monitor, press push-button number 1, because this push-button has been used in the diagram. You can, however, connect any one of the eight additional buttons type 6152.
The capacity of the contacts of the monitor push-button is 24 V D.C./A.C. 0.5A max.



N.B. The key with the symbol ☐ is set up exclusively for self-start of the system and cannot be used for other purposes.

It is possible to activate the video system from the monitor, using the push-button with the symbol "🔊", by connecting it as shown in the diagram.

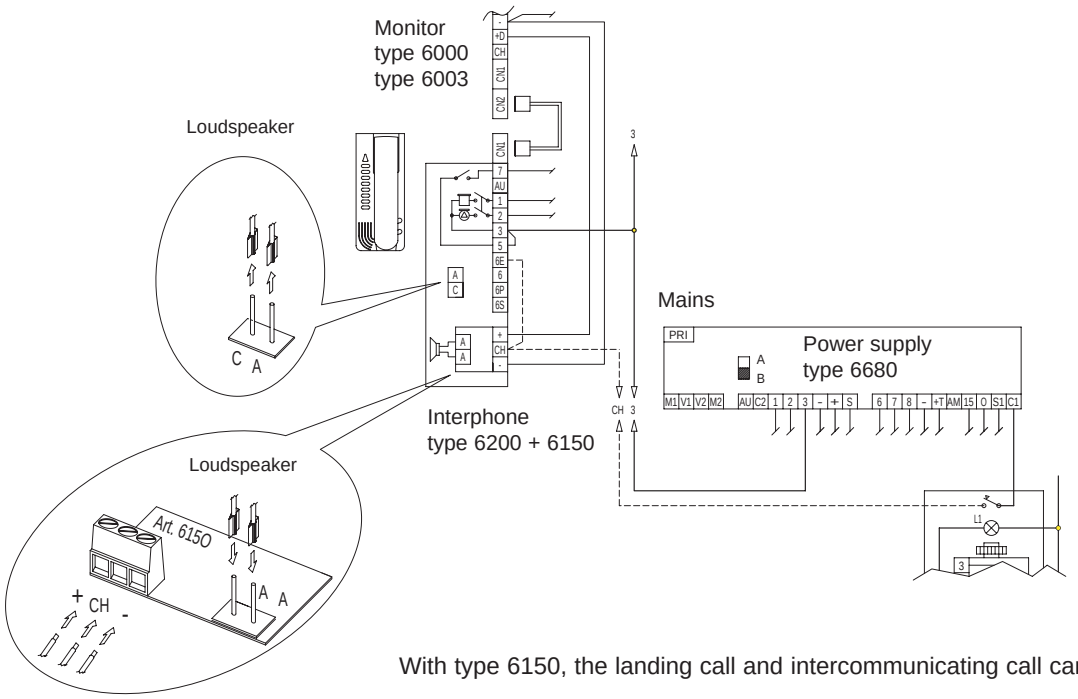




VARIATION 26

Wiring diagram of video door entry system with "SOUND SYSTEM" call and ringtone type 6150.

The electronic ding-dong ringtone card type 6150 can be installed in interphone type 6200 to convert the sound generated by the power supply type 6680.
N.B . The loudspeaker must be disconnected from the interphone's motherboard and connected to connector "A-A" on the interphone.

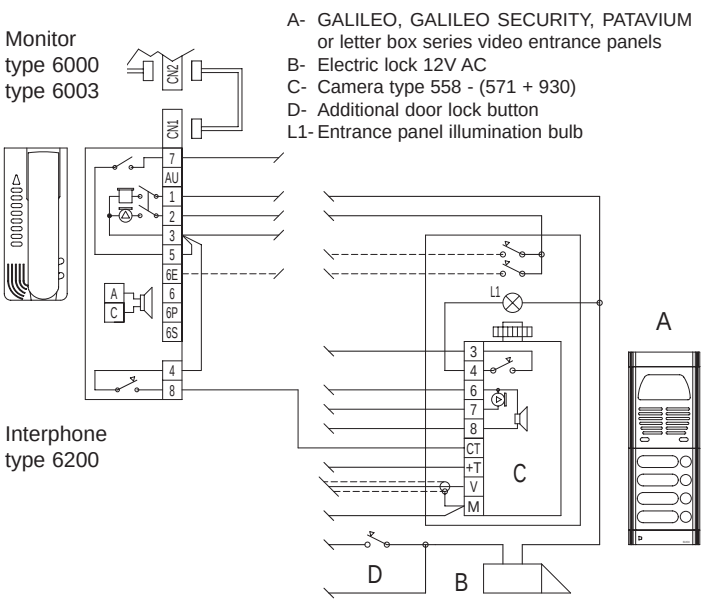


With type 6150, the landing call and intercommunicating call cannot be connected.

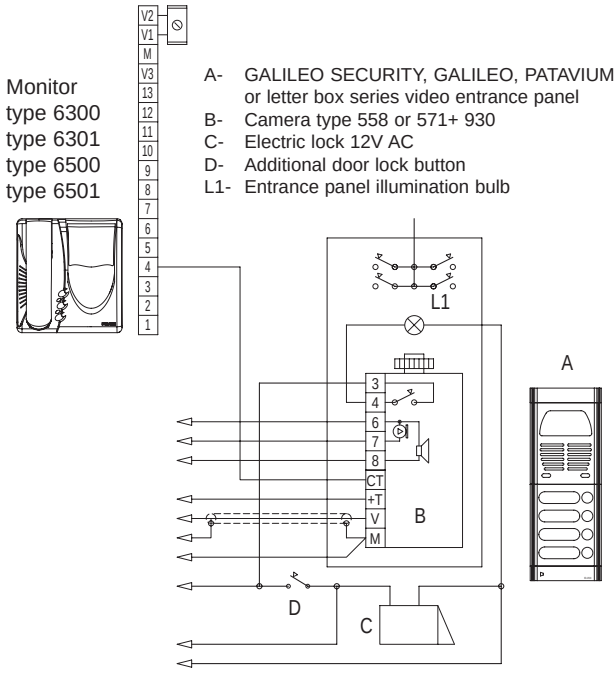
VARIATION 27

Wiring diagram of cameras type 558-571 with "Videomoving" device

Cameras with vertical movement type 558 and 571 enable you to control the vertical camera angle using push-button number 1 on the interphone. You can connect any one of the eight additional buttons of type 6152.
This makes it possible to frame people of different heights or to position the entrance panel higher or lower than prescribed.



Cameras with vertical movement type 558 and 571 enable you to control the vertical camera angle using the monitor push-button with the symbol . This makes it possible to frame people of different heights or position the entrance panel higher or lower than prescribed.



VARIATION 12

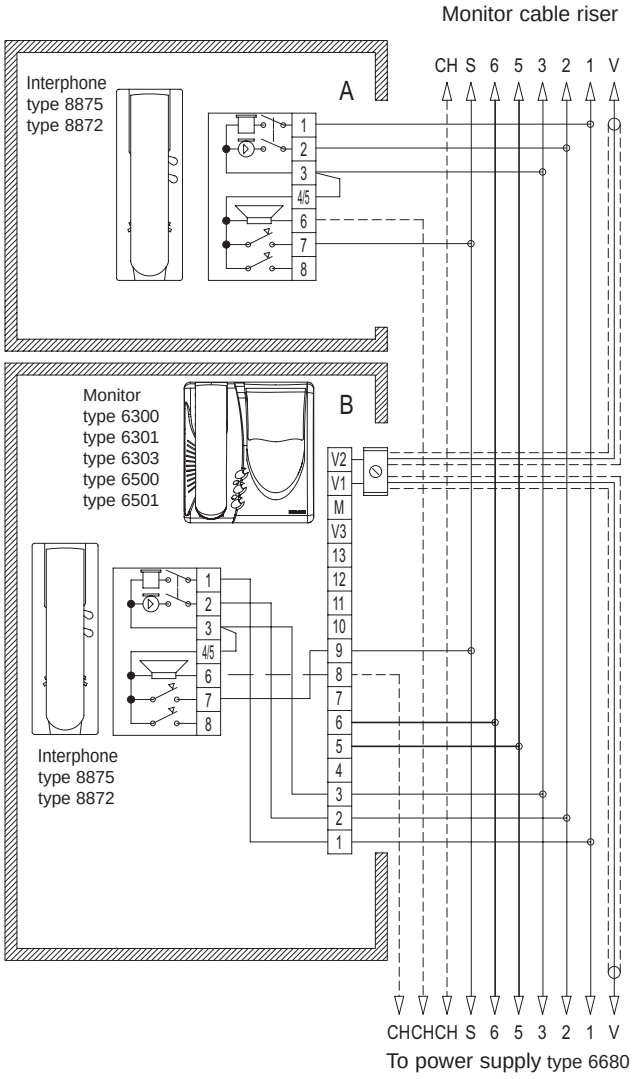
Wiring diagram for video door entry system with an interphone in parallel, and/or user with interphone without monitor.

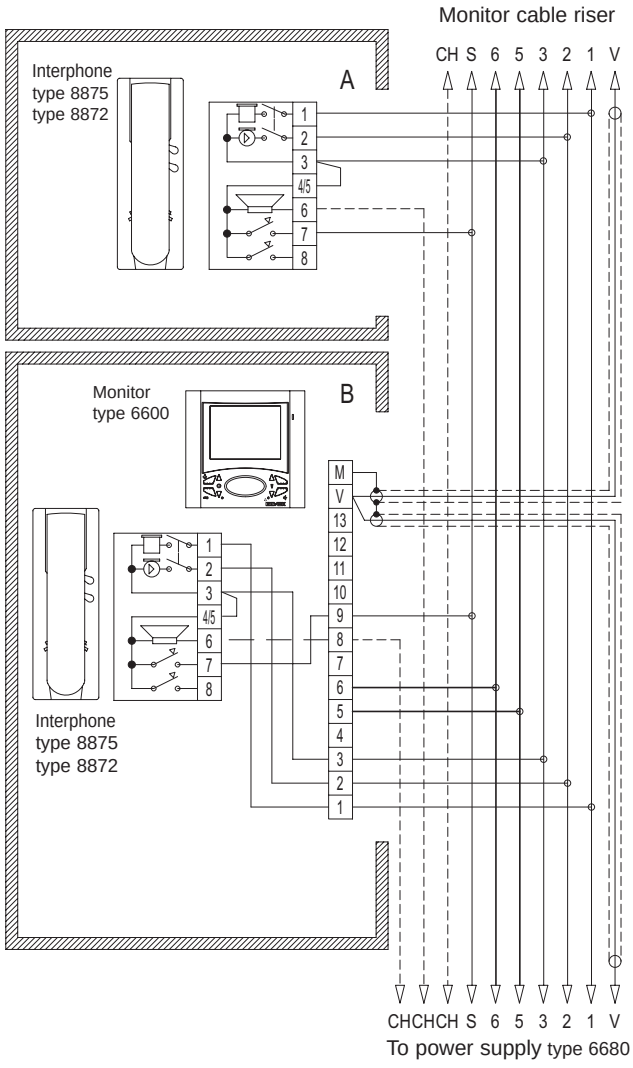
A -Connection to user without monitor

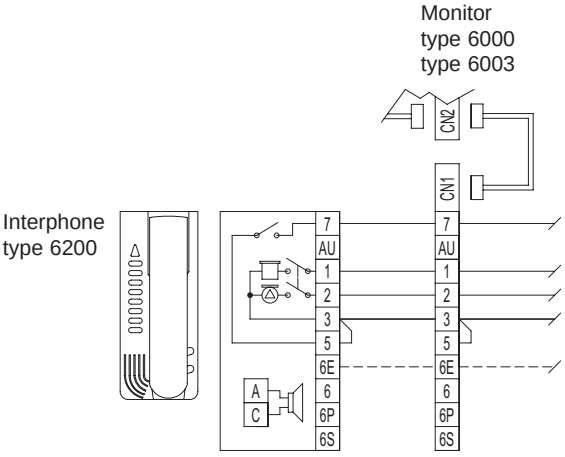
B - Connection in parallel to a video door entry unit

N.B.

Can be connected to a maximum of 1 interphone in parallel
to a monitor. To connect a larger number, use call repeater type 934 (see variation).







Interphone type 6200 can also be connected without monitor.
Simply do not make the connection between the monitor and the interphone.

VARIATION 29

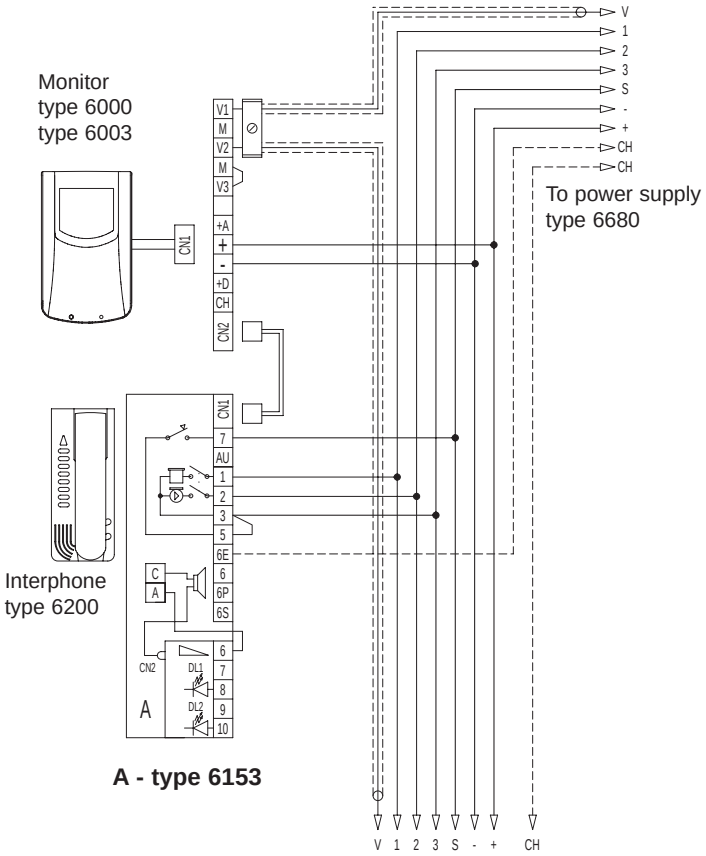
Wiring diagram of ringtone level control module with OFF indicator (red LED) and "lock open" indication (green LED) with accessory module type 6153.

DESCRIPTION OF MODULE type 6153
Switching module type 6153 makes it possible to control the ringtone volume or disable it, on interphones with call loudspeaker in the **PETRARCA series, type 6200 - 6201**. The device also has two LEDs , one for indicating that the ringtone is OFF (red indicator) and one to indicate that the door lock is open (green indicator); the use of these two devices requires additional connections as shown in the wiring diagrams.

INSTALLING THE MODULE ON PETRARCA SERIES INTERPHONES 6200 - 6201
- Open the interphone Fig. 1
- Snap off the plastic lamina by exerting pressure on it (Fig. 1B)
- Insert the card in its seat and fix it with the screw supplied (Fig. 2)
- Disconnect the loudspeaker wire from pin "A" on the interphone.
- Insert the removed wire onto the pin (CN2) on the card type 6153.
- Insert the wire pre-connected to terminal n° 6 of type 6153, on pin "A" of the interphone (Fig. 3)

N.B. On terminal n° 7 of card type 6153, there is a wire to be used for visual indication that the ringtone is disabled.
In position "0" (ringtone OFF) terminals
7 -10 are connected to the diode, thus enabling the red LED to light.

Wiring diagram of call volume control module without visual indicators



A - type 6153

Fig. 1

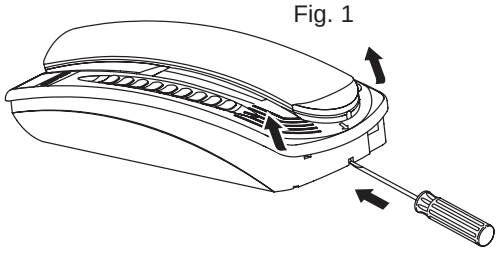


Fig. 1B

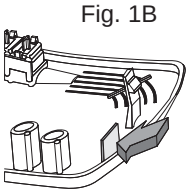


Fig. 2

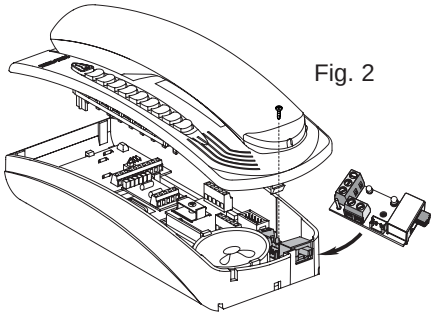
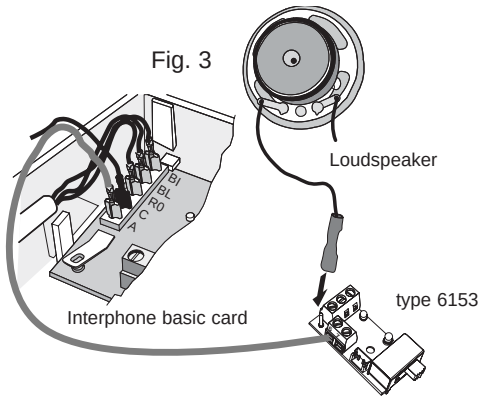
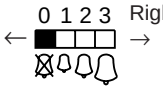


Fig. 3



Ringtone level selection
Left 0 1 2 3 Right

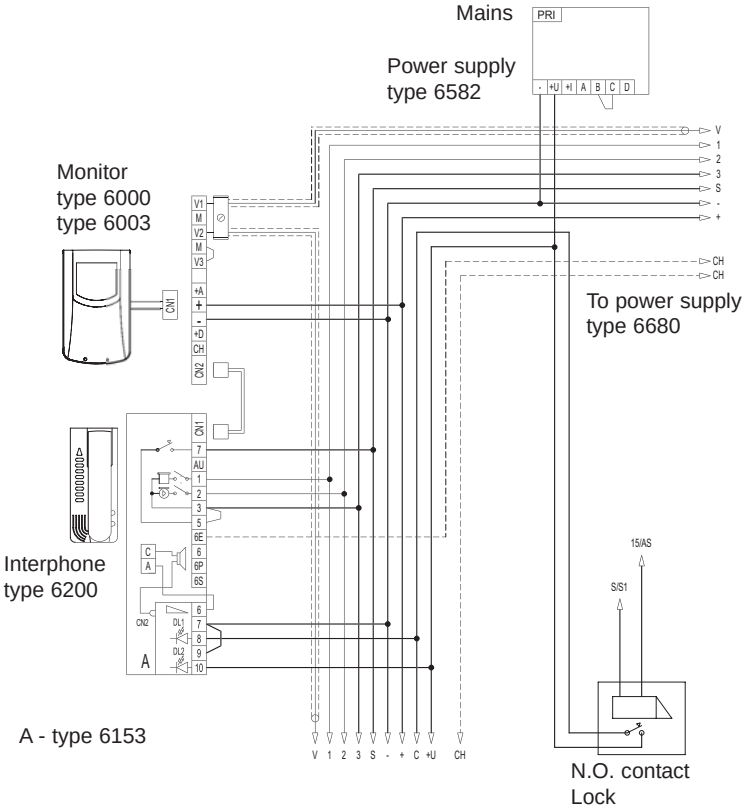


Position "0": ringtone OFF
Position "1": minimum volume
Position "2": medium volume
Position "3": maximum volume

When the ringtone OFF visual indicator is used (red LED) as well as the "lock open" indicator (green LED), it is necessary to power these diodes (up to a maximum of 30) with the separate power supply type 6582. See diagrams on next page.

VARIATION 30

Wiring diagram of ringtone level control module with OFF indicator (red LED) and lock open indicator module (green LED).

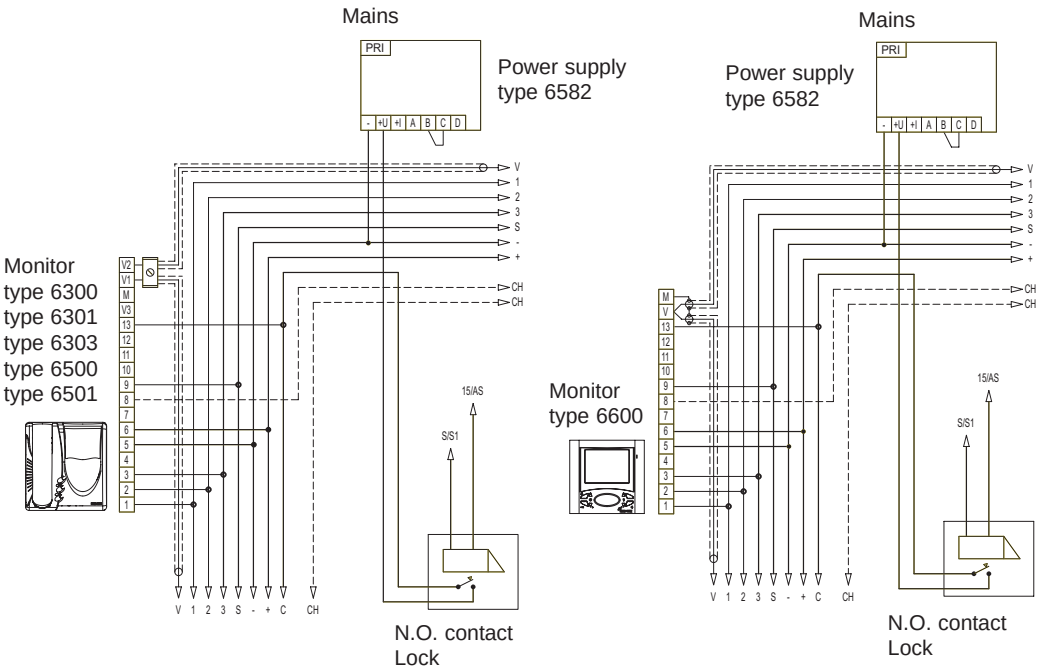


The diagram shows the connection of type 6153 with the ringtone OFF (red LED) and lock open (green LED) indicators on interphones type 6200 and monitor type 6000, 6003.
To use just one of the two functions, proceed as follows:
With the ringtone OFF indication, connect only the wire to terminal N. 10 of the interphone type 6200.
With the "lock open" indicator, connect only terminal N. 8 of the interphone type 6200.

As shown in the diagram, use type 6582 to power the LEDs (maximum 30).
For more than 30 LEDs, use further additional power supplies.

VARIATION 31

Wiring diagram of "lock open" visual indication (green LED) with 6300, 6500 and 6600 series monitors.



The diagram shows the connection of the "lock open" indicator (green LED) with 6300 and 6500, 6600 series monitors (connection to terminal 13).

The ringtone OFF indication is already inserted in the monitors and it is not necessary to connect any additional conductor.
To disable the "lock open" indication, do not connect terminal No 13 of the monitors

The red LEDs are powered by the power supply 6680 and must not exceed a total of 20 in number. For larger numbers, use an additional power supply.

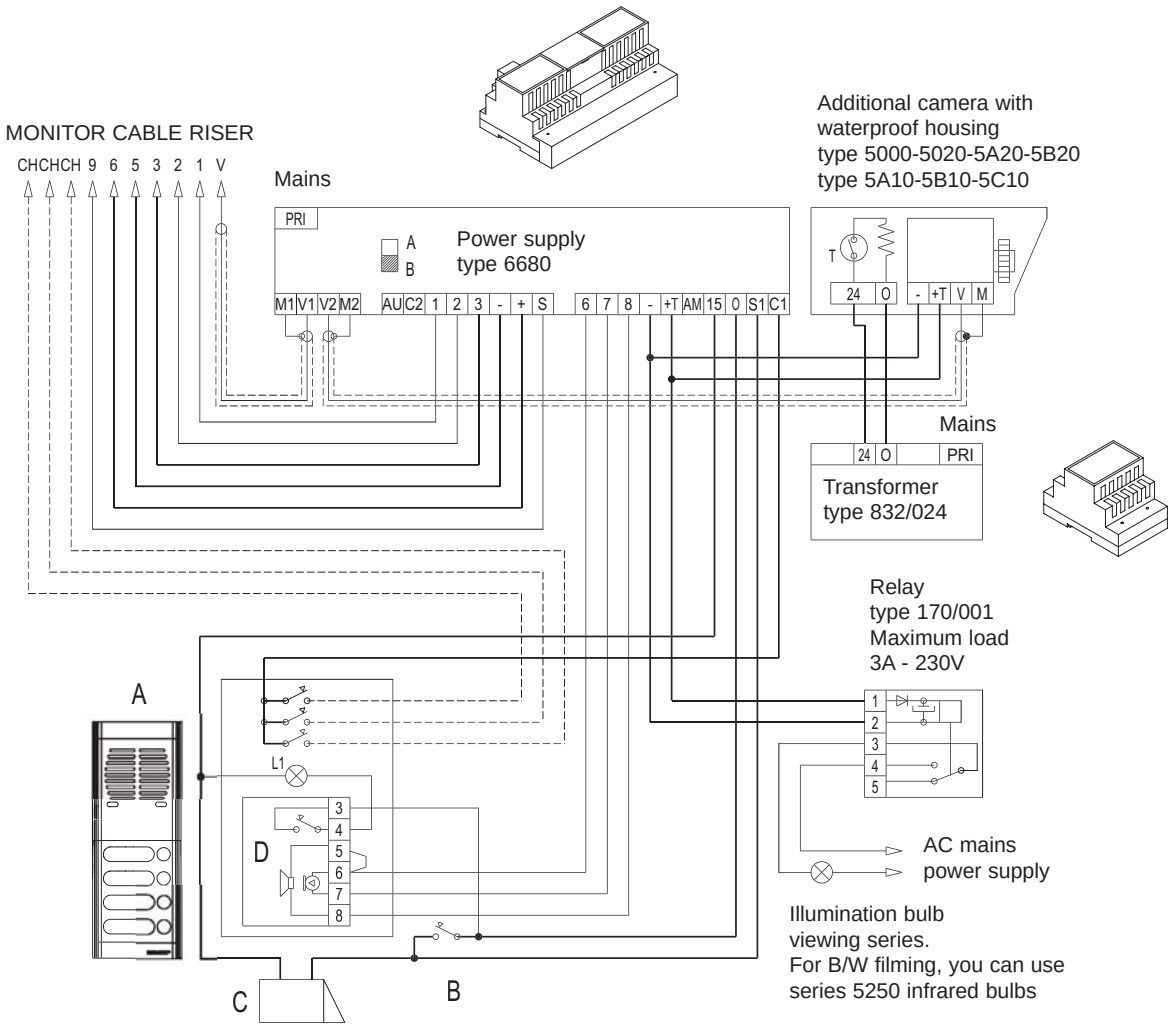
As shown in the diagram, use a power supply type 6582 to power the green LEDs (maximum 30).
For more than 30 LEDs, use further additional power supplies.

VARIATION 32

Wiring diagram for the separate camera from the entrance panel with speech unit and additional bulbs for lighting the coverage area.

It is possible to connect an entrance panel with the speech unit only and a separate camera type 5000 - 5020 - 5A20 - 5B20 - 5A10 -5B10-5C10. The illumination bulb must be inserted as shown in the diagram.

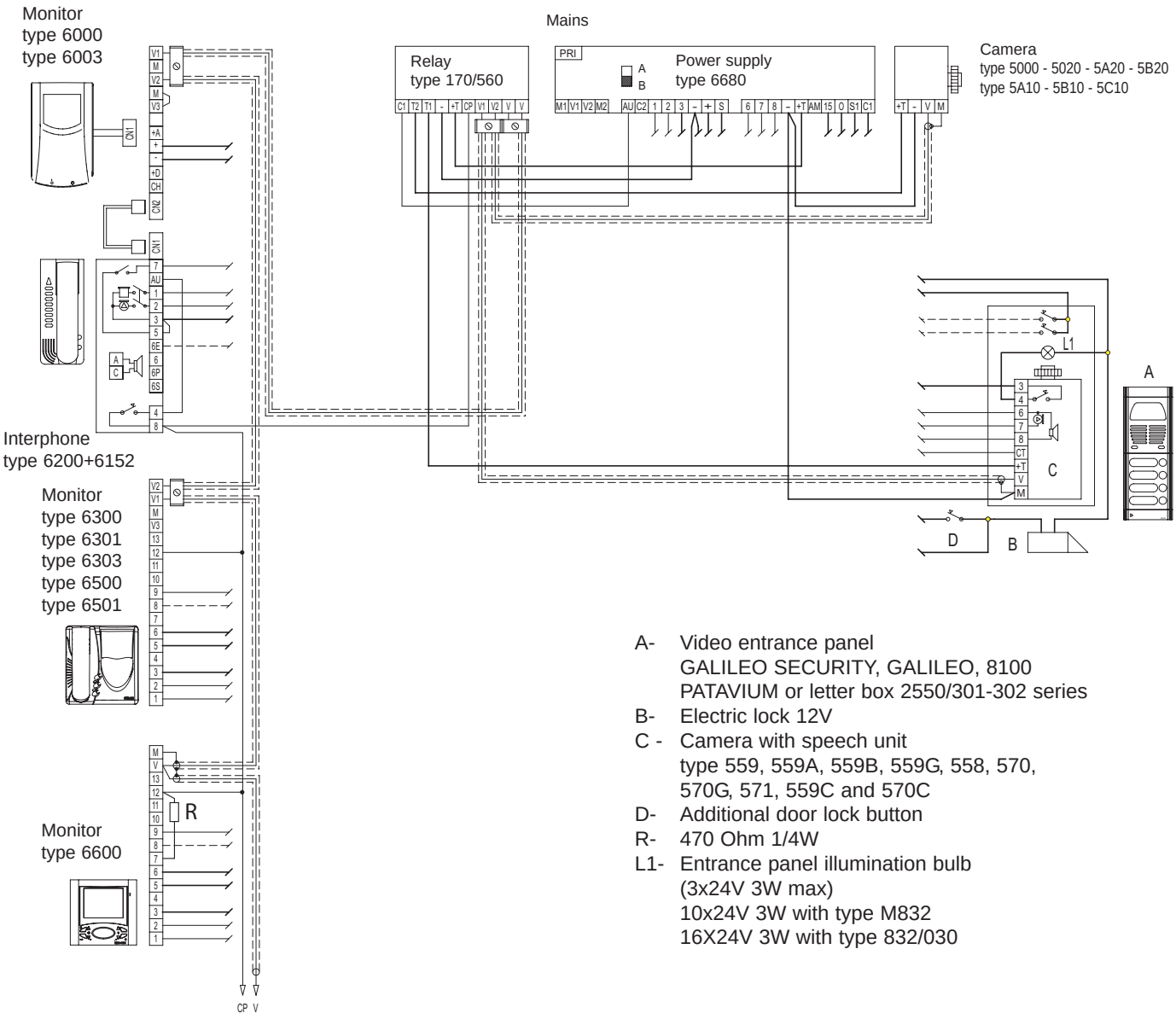
The illuminated push-button connected to terminals 3 and 4 of the speech unit type 930 or 930A can be used to switch the entrance panel illumination bulbs on momentarily, as shown in the diagram.



A- GALILEO SECURITY, PATAVIUM, GALILEO or letter box 2550/302-302 series audio entrance panel
B- Additional door lock button
C- Electric lock 12V AC
D- Speech unit type 930 or 930A
L1- Entrance panel illumination bulb
(3x24V 3W max)
10x24V 3W with type M832
16X24V 3W with type 832/030

VARIATION 33

Wiring diagram for relay type 170/560 for additional camera switching.



A- Video entrance panel
GALILEO SECURITY, GALILEO, 8100
PATAVIUM or letter box 2550/301-302 series
B- Electric lock 12V
C - Camera with speech unit
type 559, 559A, 559B, 559G, 558, 570,
570G, 571, 559C and 570C
D- Additional door lock button
R- 470 Ohm 1/4W
L1- Entrance panel illumination bulb
(3x24V 3W max)
10x24V 3W with type M832
16X24V 3W with type 832/030

OPERATION

Relay type 170/560 makes it possible to perform two operations with a single button.

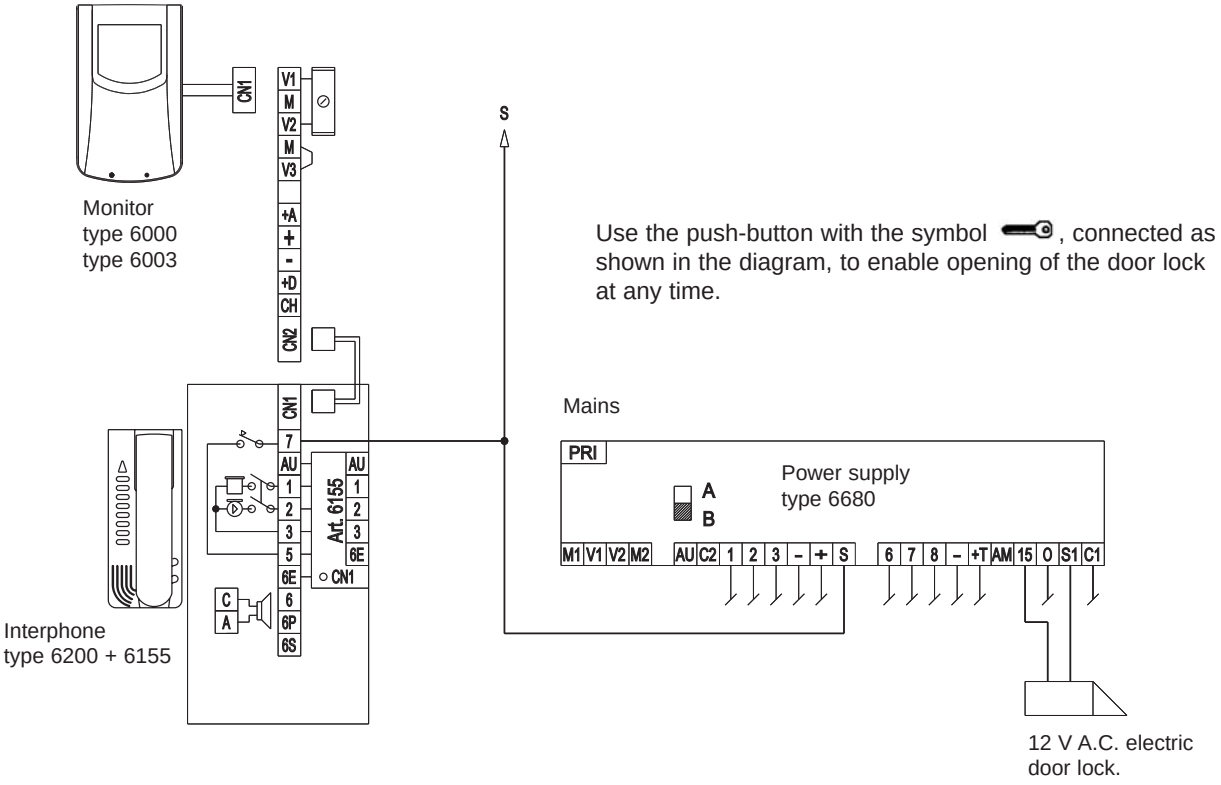
On 6300 and 6500 series monitors, the push-button used has the symbol "☐".

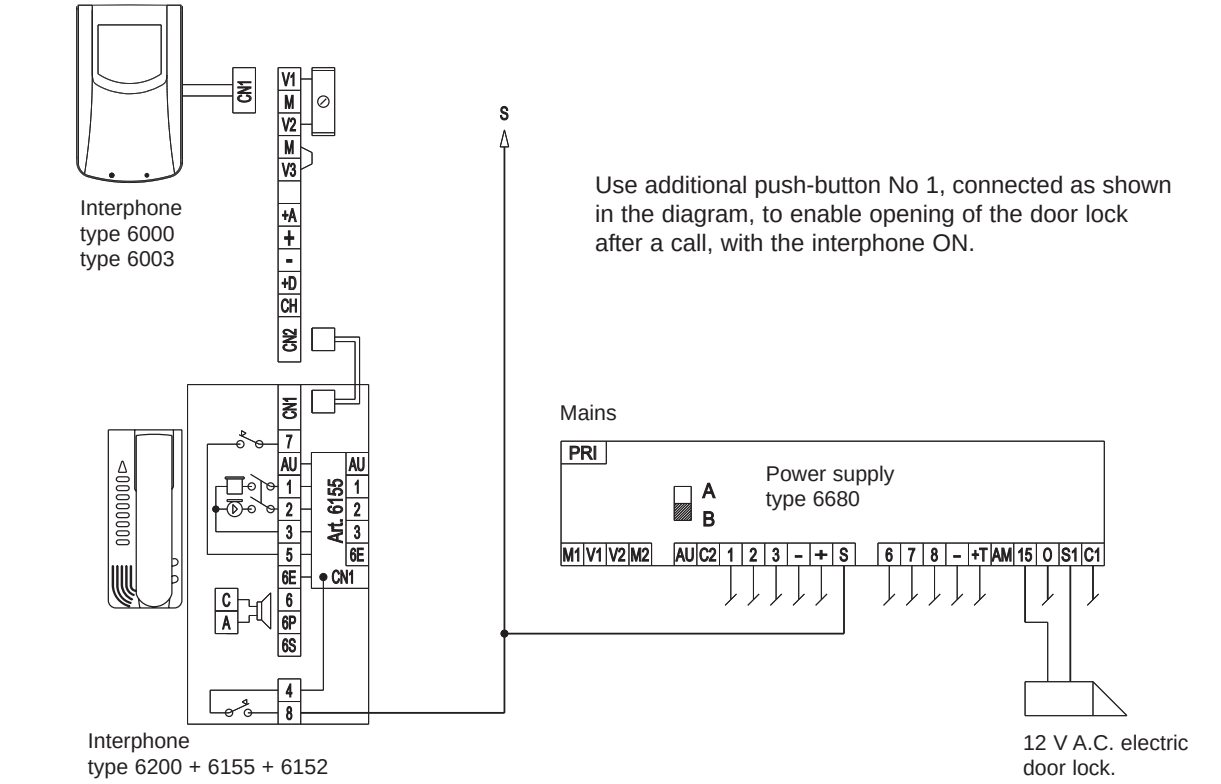
On monitors series 6600 use the push-button for the self-activation and the "☐" push-button for the camera switching.
On interphones type 6200, use an additional button; the push-button used in the diagram is push-button number 1.
Pressing this push-button enables self-start of the system without activating the ringtone. If you keep the push-button pressed down,
you will see the image of the additional camera; when you release it, you will switch to the image of the entrance panel camera.
For night filming, light the viewing area of the secondary camera with an additional bulb, using relay
type 170/001. This bulb can be either infrared for B/W filming, or white light type for colour filming.

VARIATION 34

Wiring diagram of video entry unit with conversation privacy and door lock release after call.

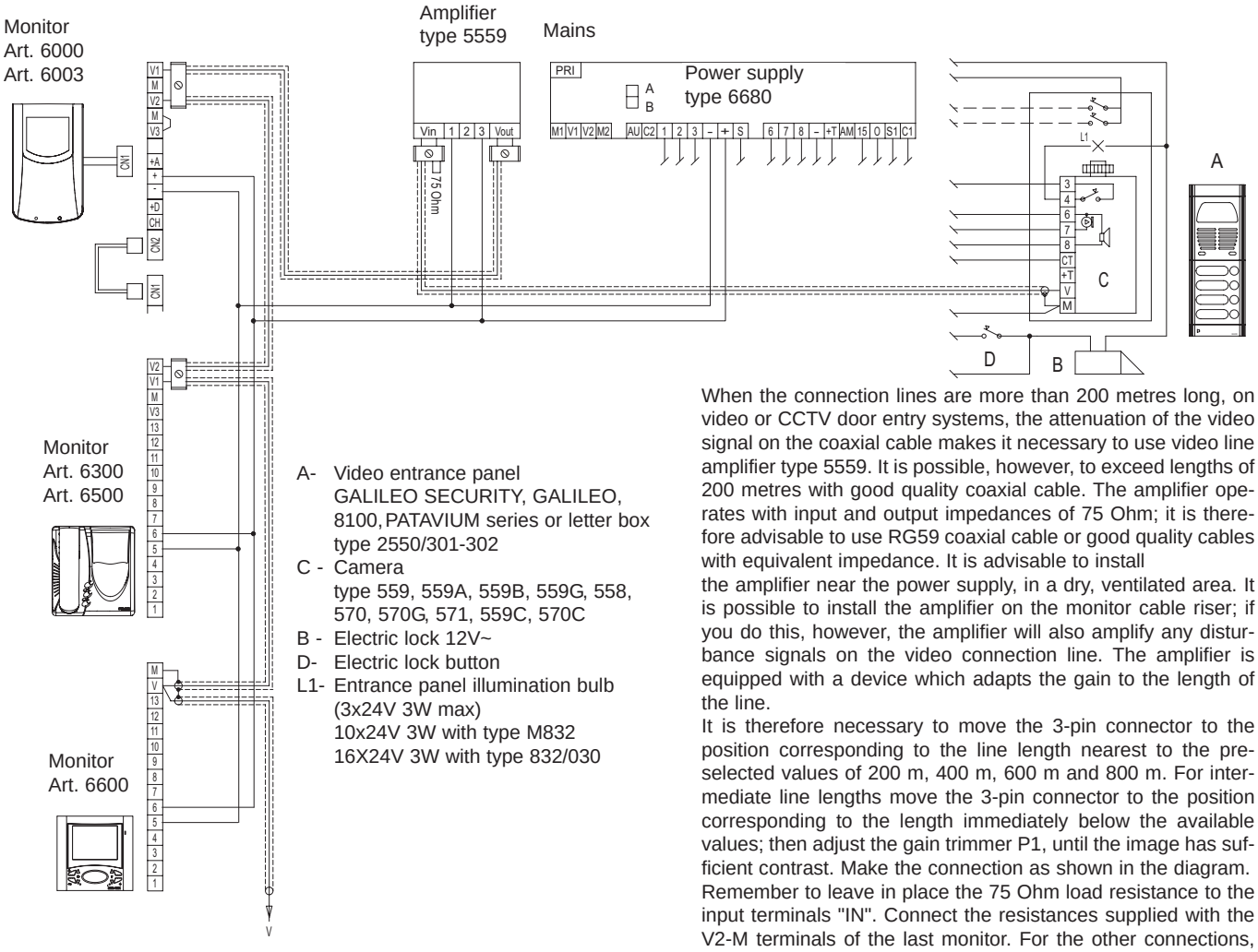
To provide conversation privacy, fit card type 6155 into interphone type 6200.





VARIATION 35

Wiring diagram for video amplifier type 5559.



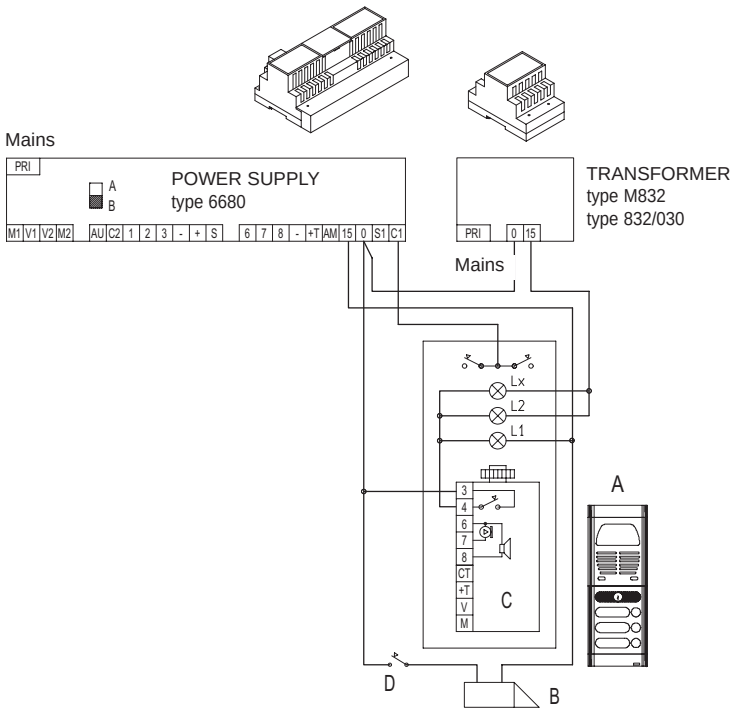
A- Video entrance panel
GALILEO SECURITY, GALILEO, 8100, PATAVIUM series or letter box type 2550/301-302
C - Camera
type 559, 559A, 559B, 559G, 558, 570, 570G, 571, 559C, 570C
B - Electric lock 12V~
D- Electric lock button
L1- Entrance panel illumination bulb (3x24V 3W max)
10x24V 3W with type M832
16X24V 3W with type 832/030

When the connection lines are more than 200 metres long, on video or CCTV door entry systems, the attenuation of the video signal on the coaxial cable makes it necessary to use video line amplifier type 5559. It is possible, however, to exceed lengths of 200 metres with good quality coaxial cable. The amplifier operates with input and output impedances of 75 Ohm; it is therefore advisable to use RG59 coaxial cable or good quality cables with equivalent impedance. It is advisable to install
the amplifier near the power supply, in a dry, ventilated area. It is possible to install the amplifier on the monitor cable riser; if you do this, however, the amplifier will also amplify any disturbance signals on the video connection line. The amplifier is equipped with a device which adapts the gain to the length of the line.
It is therefore necessary to move the 3-pin connector to the position corresponding to the line length nearest to the preselected values of 200 m, 400 m, 600 m and 800 m. For intermediate line lengths move the 3-pin connector to the position corresponding to the length immediately below the available values; then adjust the gain trimmer P1, until the image has sufficient contrast. Make the connection as shown in the diagram.
Remember to leave in place the 75 Ohm load resistance to the input terminals "IN". Connect the resistances supplied with the V2-M terminals of the last monitor. For the other connections, refer to the wiring diagrams for the power supply type 6680.

VARIATION 36

Wiring diagram for transformer type M832-832/030 in entrance panels with name tag illumination bulbs

The transformer is used when there are three or more name tag illumination bulbs.

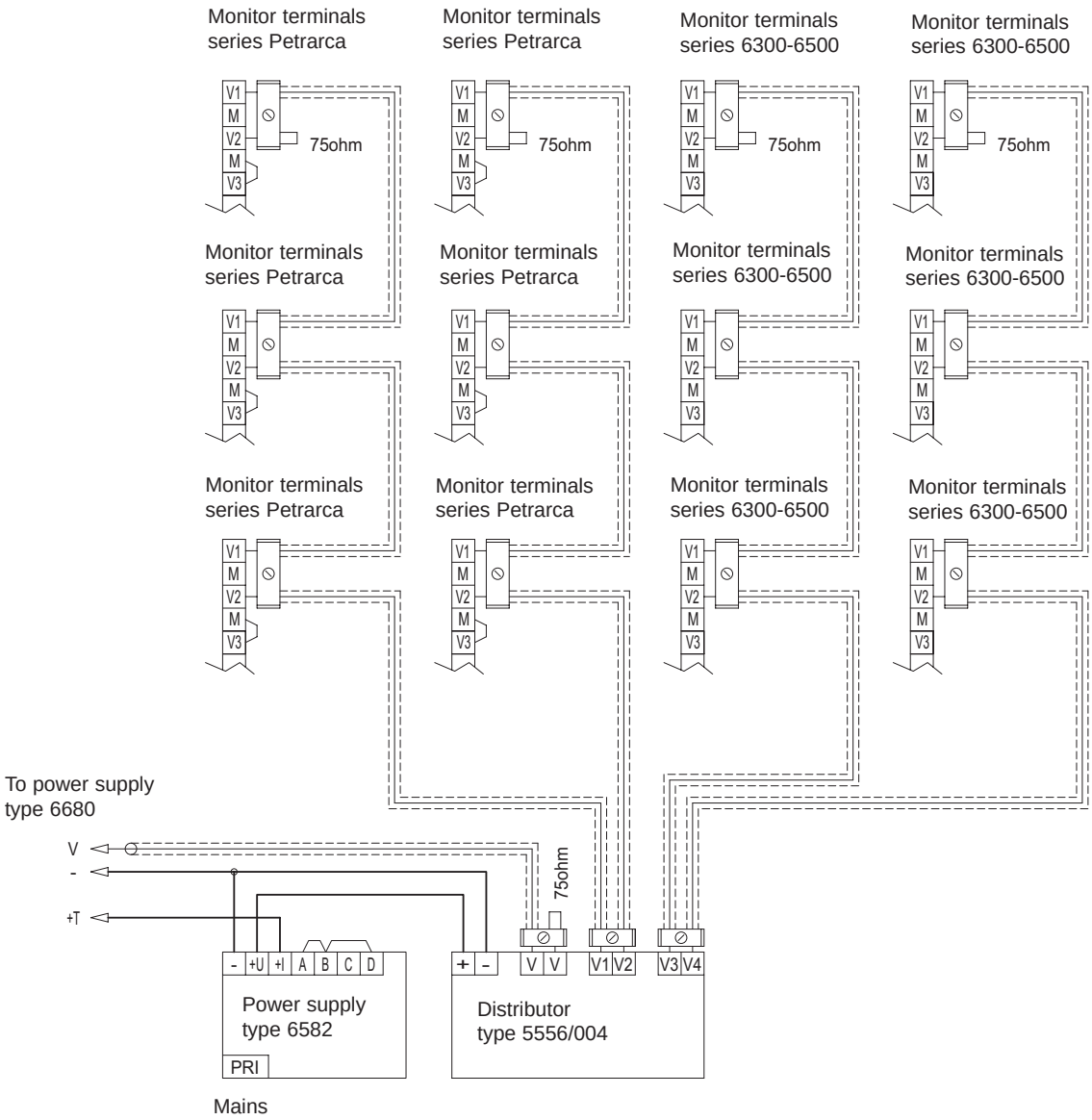


A- Video entrance panel
GALILEO SECURITY, GALILEO, 8100
PATAVIUM series or letter box type 2550/301-302
C - Camera
B - Electric lock 12V~
D- Electric lock button
L1...Lx- 3x24V 3W max
10x24V 3W max with M832
16x24V 3W max with 832/030

VARIATION 37

Wiring diagram of video distributor type 5556/004 for several cable risers.

The video connection must be made using a RG59 type cable or one similar with an impedance of 75 Ohm.
75 Ohm resistors (supplied) must be wired across video outputs V1-V2-V3-V4. These resistors must be wired to the output terminals not used or terminals V2-M on the last riser monitor. A 75 Ohm resistor must also be wired to the “V” voltage-free terminal on the last distributor.
N.B. Video distributor type 5556/004 is equipped with trimmer P1 which simultaneously adjusts the video signal gain at all the outputs. This trimmer is factory-set to 1.

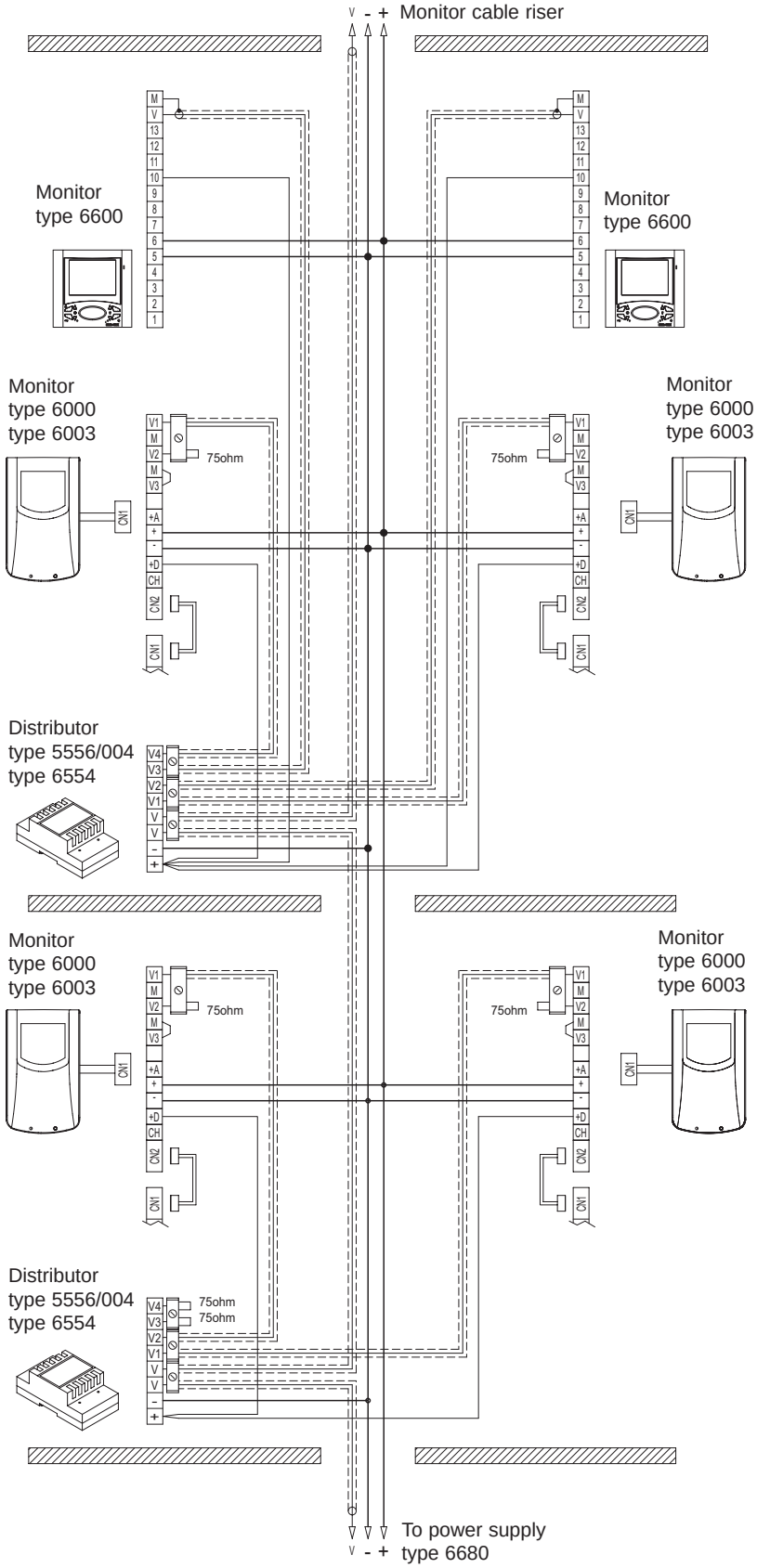


N.B. In power supply type 6582 short circuit terminals A-B-D.

VARIATION 38

Wiring diagram of video door entry unit and video floor distributor type 5556/004 or type 6554 with monitors series Petrarca.

The wiring diagram only illustrates the monitor cable riser connection to a video floor distributor in a video door entry system. To make the remaining connections, follow the standard wiring diagrams for power supply type 6680, except for the monitor cable riser connection (without video floor distributor) which must be replaced by the one shown in this diagram.



5556/004 e 6554:
75 Ohm resistors (supplied) must be wired across video outputs V1-V2-V3-V4. These resistors must be wired to the output terminals not used or terminals V2-M on the monitor. A 75 Ohm resistor must also be wired to the voltage-free terminal “V” on the last distributor.

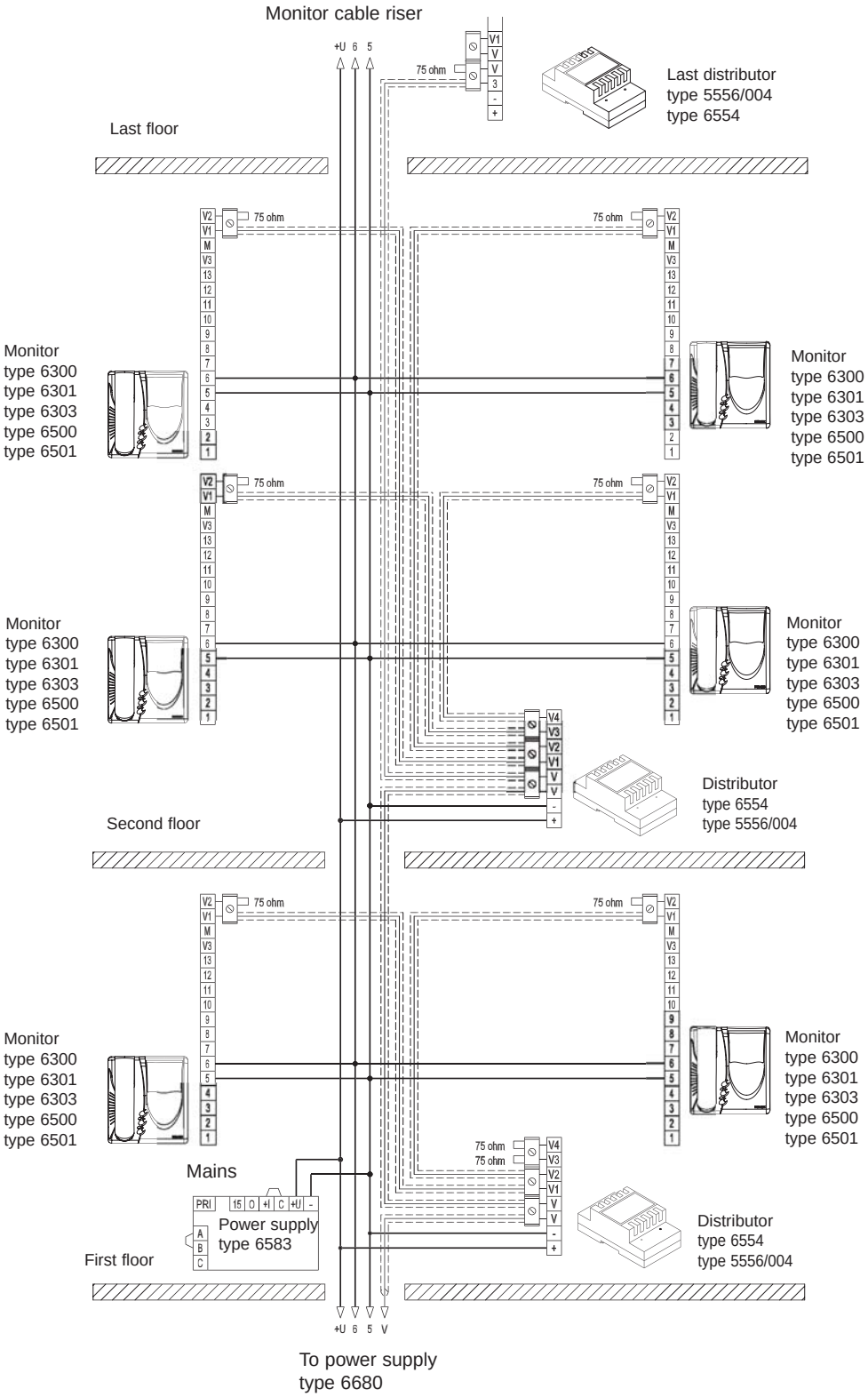
N.B. To power the distributors, connect the terminals - and + of the distributor to the - and +D terminals only of the monitors connected to the distributor itself.

IMPORTANT:
Distributor type 6554 can be connected directly to the + and - terminal of the standard power supply instead of +D terminal of the monitor.
In this case, it is possible to insert a maximum of 10 video distributors type 6554 in the same system.

VARIATION 39

Wiring diagram of video door entry unit and video floor distributor type 5556/004 or type 6554 with monitors series 6300 and 6500.

The wiring diagram only illustrates the monitor cable riser connection to a video floor distributor in a video door entry system. To make the remaining connections, follow the standard wiring diagrams for power supply type 6680, except for the monitor cable riser connection (without video floor distributor) which must be replaced by the one shown in this diagram.



5556/004 e 6554:
75 Ohm resistors (supplied) must be wired across video outputs V1-V2-V3-V4. These resistors must be wired to the output terminals not used or terminals V2-M on the monitor. A 75 Ohm resistor must also be wired to the voltage-free terminal “V” on the last distributor.

IMPORTANT:
The power supply type 6583 can power up to a maximum of 12 distributors 5556/004 or 30 distributors 6554; if further distributors are needed, use further 6583 units.

VIDEO DOOR ENTRY SYSTEMS WITHOUT COAX CABLE WITH SOUND SYSTEM CALL

MINIMUM CONDUCTOR SECTION FOR VIDEO DOOR ENTRY SYSTEM WITHOUT COAXIAL CABLE (in mm^2)

Section type	Terminals	Ø up to 50 m.	Ø up to 100 m.	Ø up to 200 m.
a	0, 15, -, +, S1, P1, P2, +T lock, calls	1 mm^2	1,5 mm^2	2,5 mm^2
b	Other	0,75 mm^2	1 mm^2	1,5 mm^2

VIDEO DOOR ENTRY SYSTEM WITHOUT COAXIAL CABLE WITH POWER SUPPLY TYPE 6568

OPERATION

The video installation without coaxial cable has been designed to reduce to the minimum mounting operations and particularly when carrying out remaking works. The installation can use the 5-wire conductors of old intercom (4 common + 1 call) without using a shielded cable for the video signal. The installation consists of one camera entrance panel, speech unit, one power supply and one or more monitors. When a push-button of entrance panel is pressed, the ringtone rings in the corresponding apartment. Almost immediately the image of the caller appears on the monitor. The coverage area is illuminated, in a invisible way, by infrared LED'S (when using a B/W camera) or white light (when using a color camera) incorporated in the entrance panel. If desired, the user may simply raise the interphone, communicate with the caller and, if appropriate, activate the door lock release. In this case, door-opening time may be varied from 0.5 to 30 seconds using the potentiometer P3.

ATTENTION: the installation is completely switched off by pressing the lock release push-button.

The system turns automatically off after a preset time, adjustable from 30 to 90 seconds using potentiomenter P1 inside power supply.

If the caller presses another user's push-button, the previously called monitor is automatically disactivated without waiting for the end of the preset time.

When testing the installed system, use trimmer P2 to adjust the optimal volume of the speech unit. For simultaneous activation of two or more monitors, one extra power supply (type 6582) must be installed for each additional monitor or type 6583 for more monitors. A blocking circuit cuts off power to the monitors if the line is overloaded or short-circuited. Push-buttons with name-tags are illuminated through output 0-15 on the power supply. Up to a maximum number of three 24V 3W bulbs can be connected. Additional transformers type M832 or 832/030 are required for entrance panels with more than three bulbs.

Technical specifications of power supply type 6568

Power supply for video door entry installation without coaxial cable; in grey ABS housing; preset for mounting on case with 12-module DIN supports or with expanding plugs with screws.

- 230V A.C. 50Hz supply (other voltages on request)
- 60VA maximum absorbed power.
- 18V D.C. 0.8A monitor supply.
- 13V D.C. 0.3A camera supply.
- 15V A.C. rectified 0.25A outputs for panels illumination in continuous operation (max. three 24V 3W bulbs).
- Amplified electric audio door entry system.
- Timer and automatic disconnection device of monitor previously activated.
- Interchangeable cards for quick maintenance.
- Removable terminal blocks.
- Dimensions: 208x135x72 - Weight: 1.4 Kgs.

Protections on power supply:

- Primary coil of transformer: PTC
- 1st secondary coil for internal electronic supply: F3A 250V (F1) fuse.
- 2nd secondary coil for lock and electronic calls supply: F34 250V (F2) fuse.
- Electronic protection against short-circuits and overloading on monitor cable riser.
- Electronic protection against overloadings to speech unit.

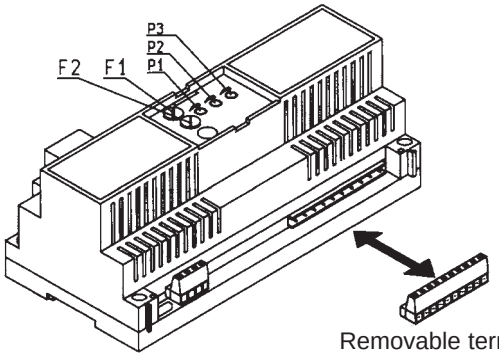
Note:

The electric door lock must operate with an intermittent cycle so that 5 rest periods correspond to one operation period, if not there is a a risk of overheating of the protection device (one period corresponds to the door lock insertion time).

CARD CALIBRATIONS ON POWER SUPPLY TYPE 6568

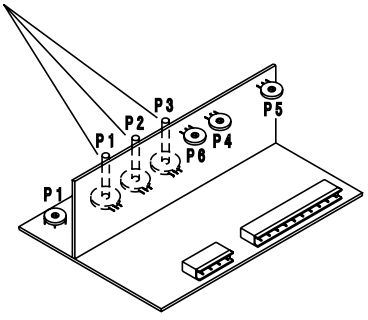
ADJUSTMENTS

P1 - Activation time adjustment for monitor and camera.
P2 - Volume adjustment of speech unit.
P3 - Activation time adjustment for electric lock.



Removable terminal block

EXTERNAL ADJUSTMENTS

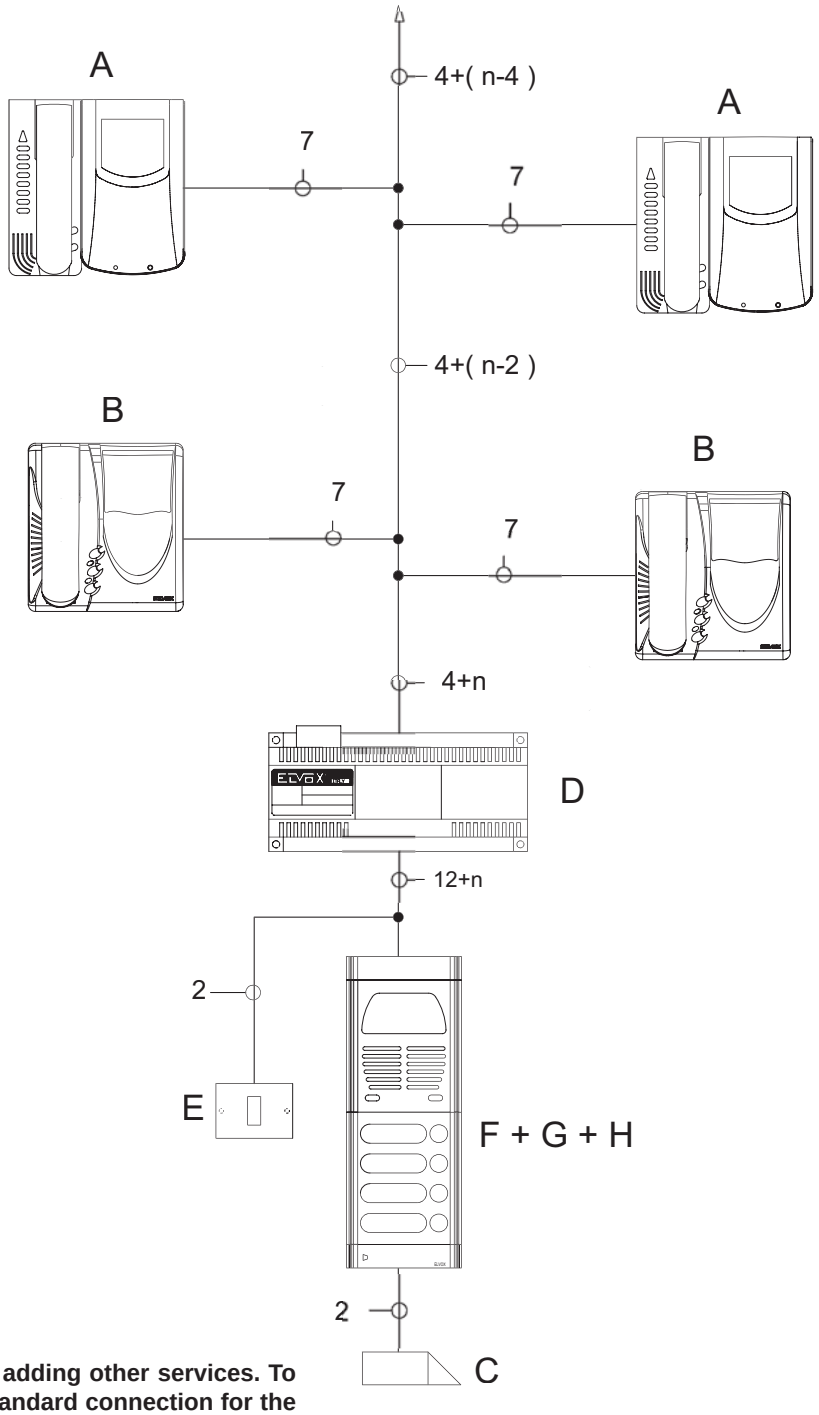


INTERNAL ADJUSTMENTS

P1 - 18 D.C. Stabllized supply voltage (factory set x 4)
P4 - Internal volume (preset during manufacturing)
P5 - Adjustment of lock activation point (preset during manufacturing)
P6 - Volume balance (preset during manufacturing)

LIST OF ARTICLES REQUIRED FOR INSTALLATION (Diagram Ref. VC3001, with floor distributor)

Diagram Ref.	Type	Name	Quantity
A	6000 + 6201 + 6145, 6000 + 6201 + 7155 + 6145	Monitor	n
B	6306, 6506	Monitor	n
C	-	Electric lock 12V A.C.	1
D	6568	Power supply	1
E	-	Additional push-button for lock	n
F	Series GALILEO SECURITY, GALILEO, PATAVIUM	Entrance panel	1
G	561-561G	Camera	1
H	27/005 - 2/994	Diode strip	n
n	-	Number of users	n



In the event of a short circuit, the protection devices (PTC)
switch off the mains voltage. Once the short circuit has been eliminated, wait for a few minutes to allow the protection device to cool down so that the unit can return to normal operation.

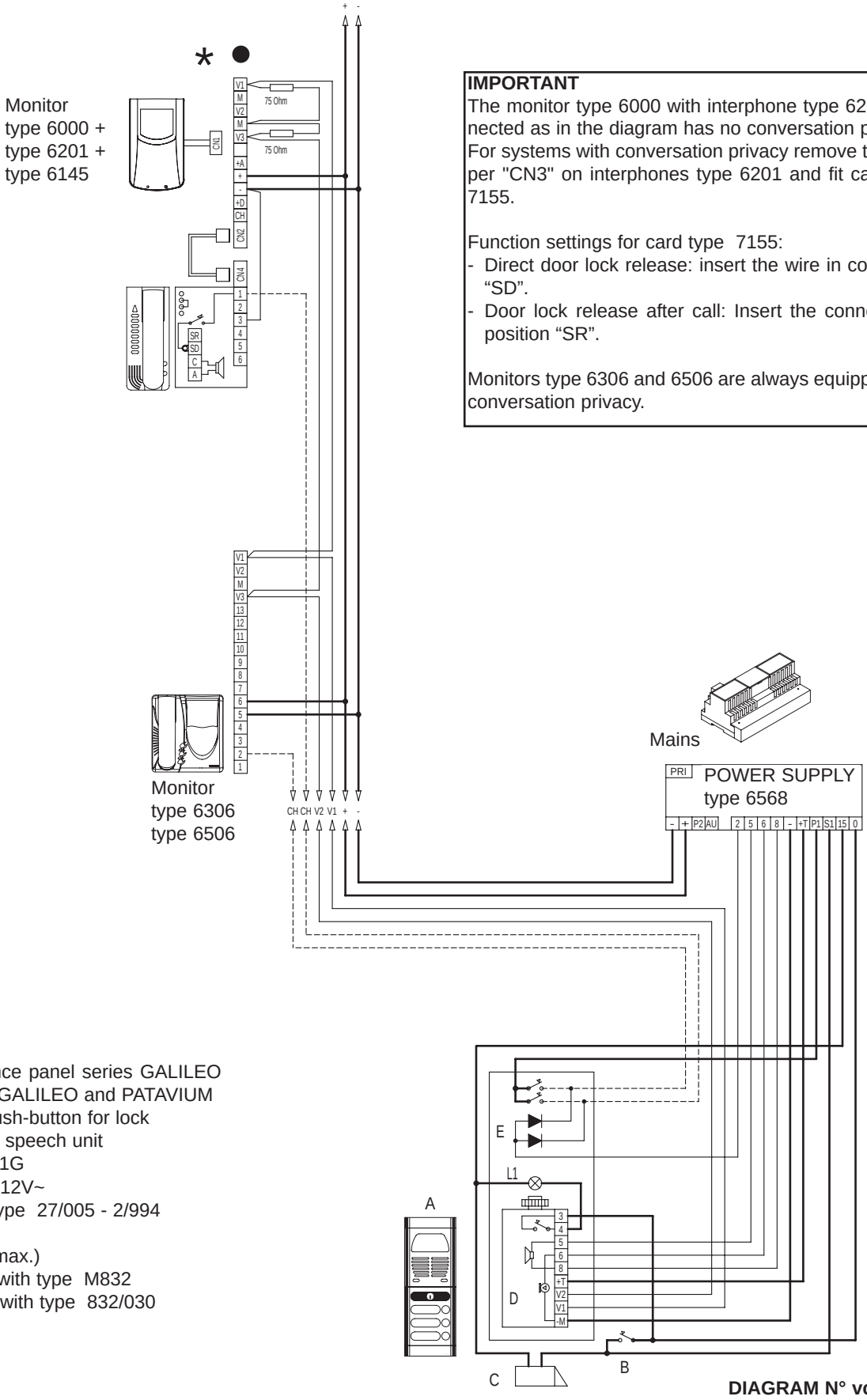
Lighting of entrance panel:
type 6680 powers a maximum of 3 24V 3 W bulbs
Transformer type M832 powers a maximum of 10 24V 3W bulbs;
Transformer type M832/030 powers a maximum of 16 24V 3W bulbs.

N. B. The system can be completed by adding other services. To do this, consult the variations on the standard connection for the various components of the system, on pages 140 to 150.

BLOCK DIAGRAM N. sb1263

● Remove the connection jumper V3-M from the monitor terminal block and set the microswitch located under the monitor to the twisted position.

* Connect 75 Ohm resistor (supplied) to the last monitor, between terminals V1-M and V3-M.



IMPORTANT
The monitor type 6000 with interphone type 6201 connected as in the diagram has no conversation privacy. For systems with conversation privacy remove the jumper "CN3" on interphones type 6201 and fit card type 7155.

Function settings for card type 7155:
- Direct door lock release: insert the wire in connector "SD".
- Door lock release after call: Insert the connector in position "SR".

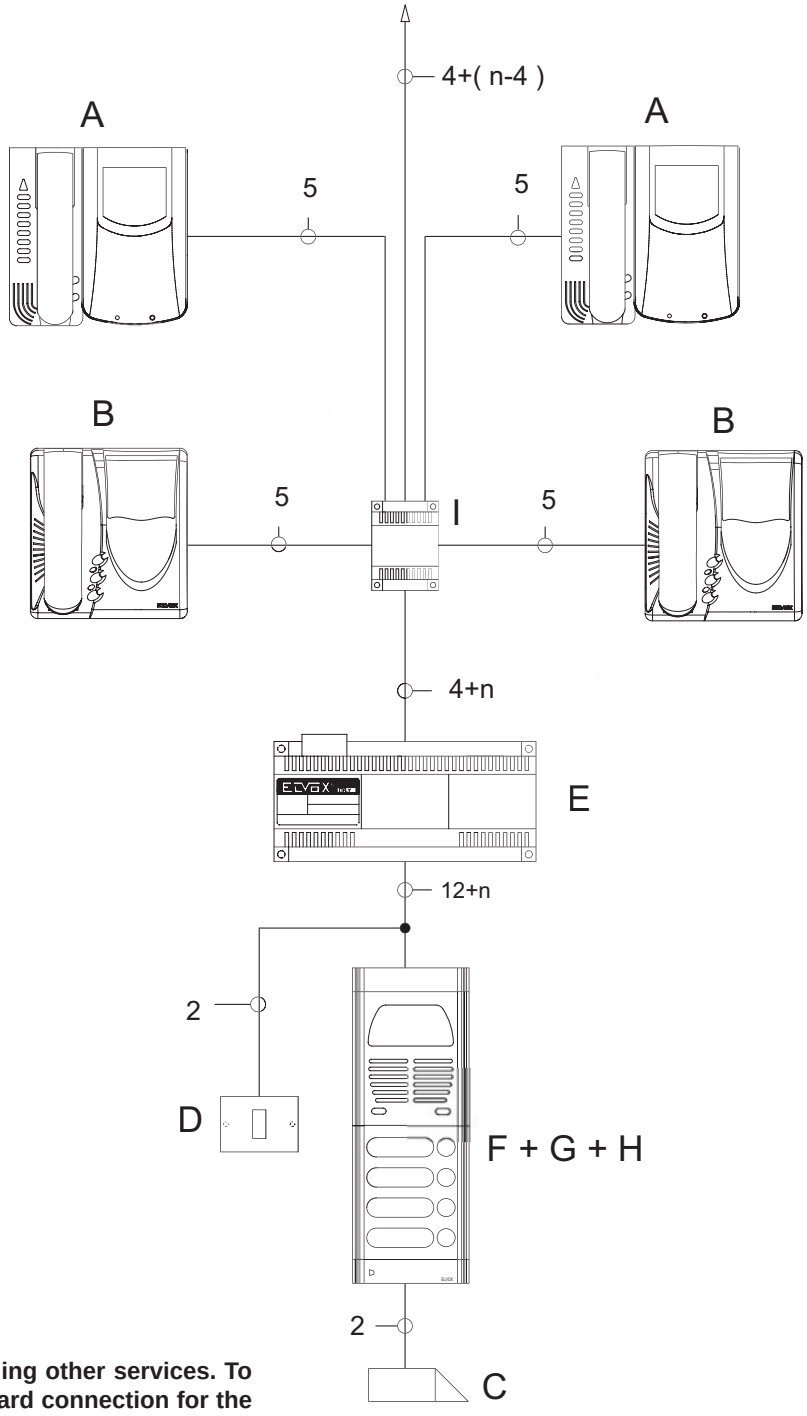
Monitors type 6306 and 6506 are always equipped with conversation privacy.

A- Video entrance panel series GALILEO SECURITY, GALILEO and PATAVIUM
B- Additional push-button for lock
C- Camera with speech unit type 561-561G
D- Electric lock 12V~
E- Diode strip type 27/005 - 2/994
L1- Panel bulb (3x24V 3W max.)
10x24V 3W with type M832
16X24V 3W with type 832/030

DIAGRAM N° vc3001

LIST OF ARTICLES REQUIRED FOR INSTALLATION (Diagram Ref. VC3040, with floor distributor)

Diagram Ref.	Type	Name	Quantity
A	6000 + 6201 + 6145, 6000 + 6201 + 7155 + 6145	Monitor	n
B	6306, 6506	Monitor	n
C	-	Electric lock 12V A.C.	1
D	-	Additional push-button for lock	n
E	6568	Power supply	1
F	Series GALILEO SECURITY, GALILEO, PATAVIUM	Entrance panel	1
G	561-561G	Camera	1
H	27/005 - 2/994	Diode strip	n
I	6669	Floor distributor	n
n	-	Number of users	n



In the event of a short circuit, the protection devices (PTC)
switch off the mains voltage. Once the short circuit has been eliminated, wait for a few minutes to allow the protection device to cool down so that the unit can return to normal operation.

Lighting of entrance panel:
type 6680 powers a maximum of 3 24V 3 W bulbs
Transformer type M832 powers a maximum of 10 24V 3W bulbs;
Transformer type M832/030 powers a maximum of 16 24V 3W bulbs.

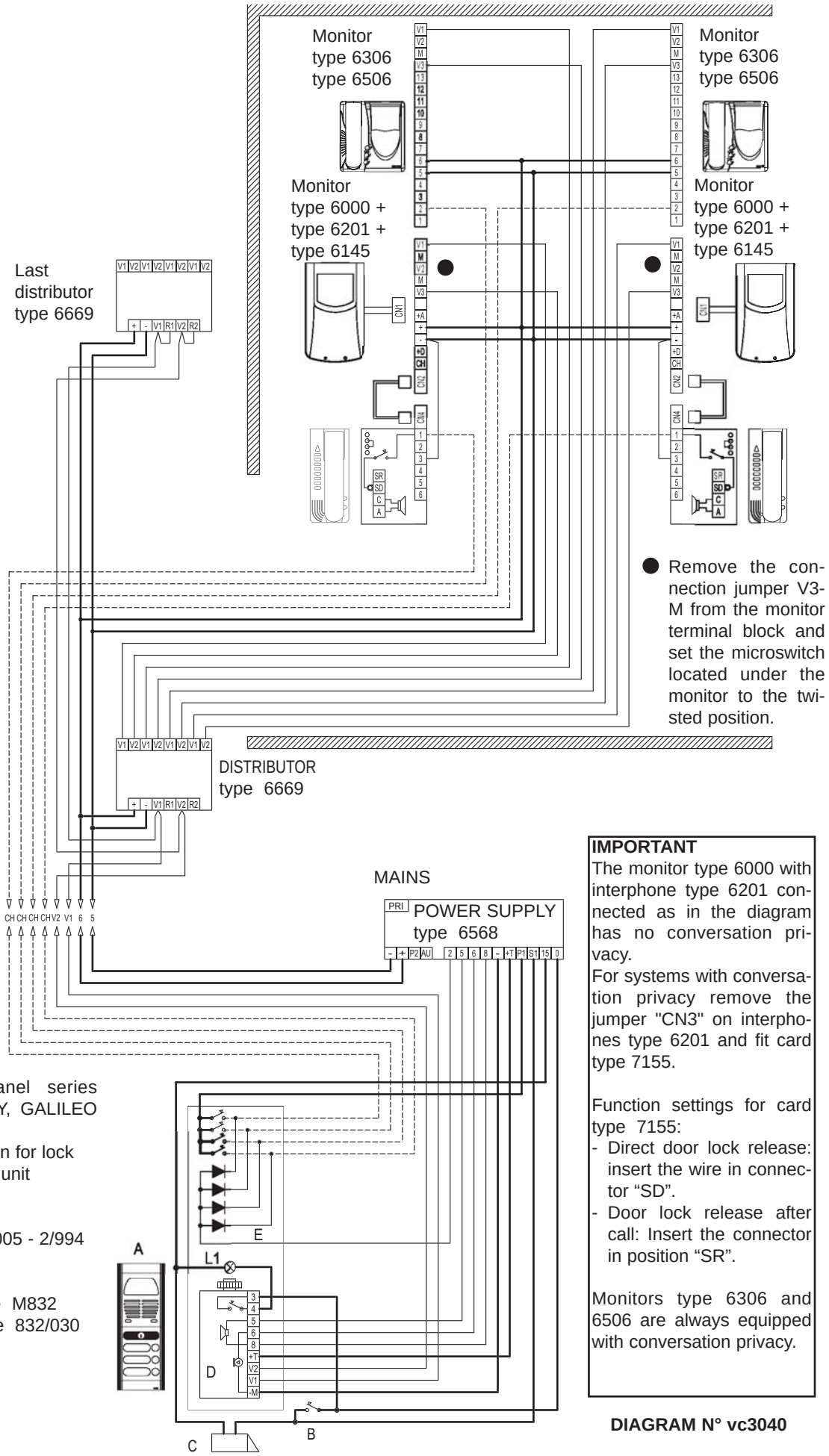
N. B. The system can be completed by adding other services. To do this, consult the variations on the standard connection for the various components of the system, on pages 140 to 150.

BLOCK DIAGRAM N. sb1264

VIDEO DOOR ENTRY SYSTEM WITHOUT COAXIAL CABLE WITH POWER SUPPLY TYPE 6568 AND FLOOR DISTRIBUTOR TYPE 6669

IMPORTANT:
Video signal closing resistors must be wired to the last video distributor: to do this, simply short V1 with R1 and V2 with R2.

IMPORTANT: The connection line between the video distributor and monitor must not exceed 20 metres.



A- Video entrance panel series GALILEO SECURITY, GALILEO and PATAVIUM
B- Additional push-button for lock
C- Camera with speech unit type 561-561G
D- Electric lock 12V~
E- Diode strip type 27/005 - 2/994
L1- Panel bulb (3x24V 3W max.)
10x24V 3W with type M832
16X24V 3W with type 832/030

IMPORTANT
The monitor type 6000 with interphone type 6201 connected as in the diagram has no conversation privacy.
For systems with conversation privacy remove the jumper "CN3" on interphones type 6201 and fit card type 7155.

Function settings for card type 7155:
- Direct door lock release: insert the wire in connector “SD”.
- Door lock release after call: Insert the connector in position “SR”.

Monitors type 6306 and 6506 are always equipped with conversation privacy.

DIAGRAM N° vc3040

OPERATING PRINCIPLE

When a caller presses a call push-button on an external entrance panel, the audio/video function and door lock release are automatically activated for that door entrance panel while the other entrance panels remain disabled. The last call made is given priority over all preceding calls.

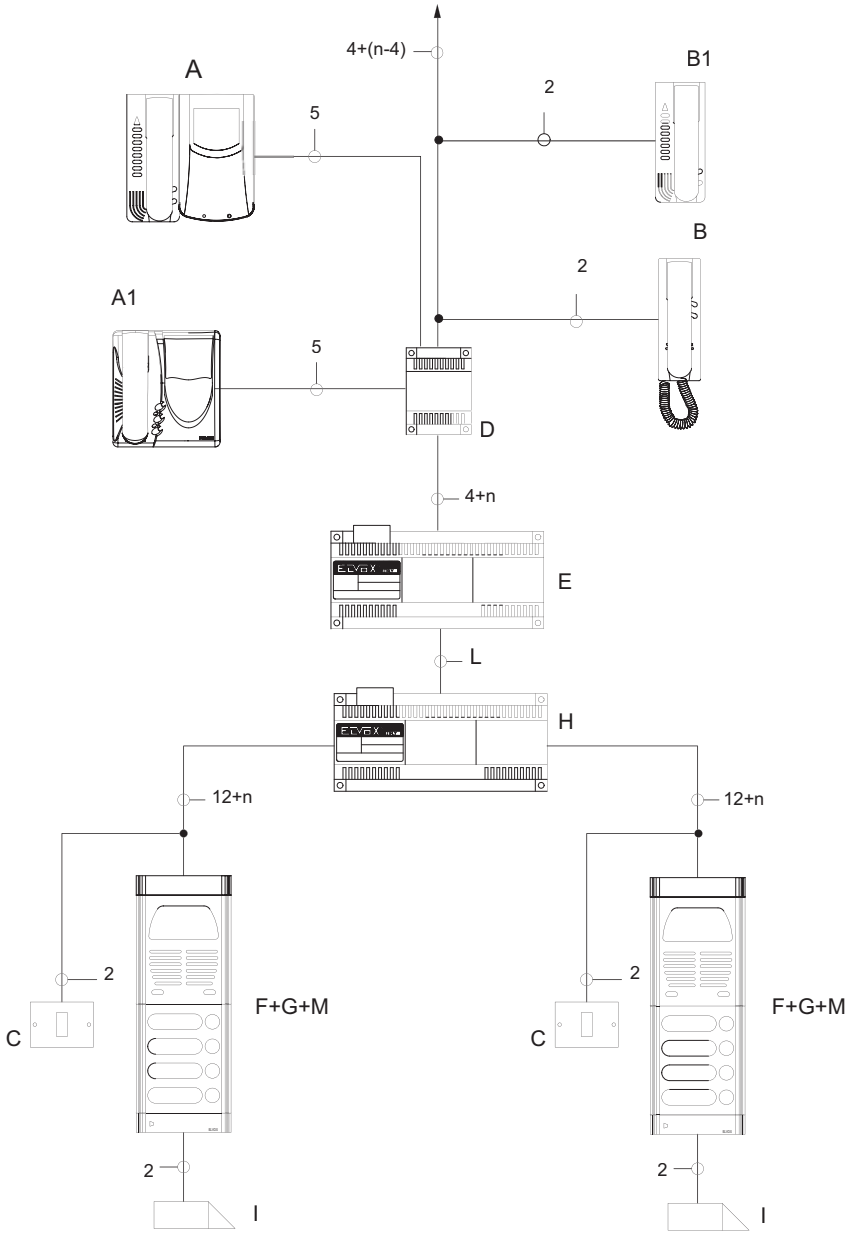
LIST OF ARTICLES REQUIRED FOR INSTALLATION (Diagram Ref. VC3039)

Diagram ref.	Type	Name	Quantity
A	6000 + 6201 + 6145, 6000 + 6201 + 7155 + 6145	Monitor	n
A1	6306, 6506	Monitor	n
B	8873, 8877	Interphone	n
B1	6201	Interphone	n
C	-	Additional push-button for lock	2
D	6669	Distributor	1
E	6568	Power supply	1
F	Series GALILEO, GALILEO SECURITY or PATAVIUM	Video entrance panel	1
G	561, 561G	Camera	1
H	6596	Switching module	1
I		Electric lock 12V A.C.	1
L	2/668	Harness	1
M	27/005, 2/994	Diode strip	n
n	-	Number of entrance panel calls	n

In the event of a short circuit, the protection devices (PTC) switch off the mains voltage. Once the short circuit has been eliminated, wait for a few minutes to allow the protection device to cool down so that the unit can return to normal operation.

Lighting of entrance panel:
type 6680 powers a maximum of 3 24V 3 W bulbs
Transformer type M832 powers a maximum of 10 24V 3W bulbs;
Transformer type M832/030 powers a maximum of 16 24V 3W bulbs.

N. B. The system can be completed by adding other services. To do this, consult the variations on the standard connection for the various components of the system, on pages 140 to 150.



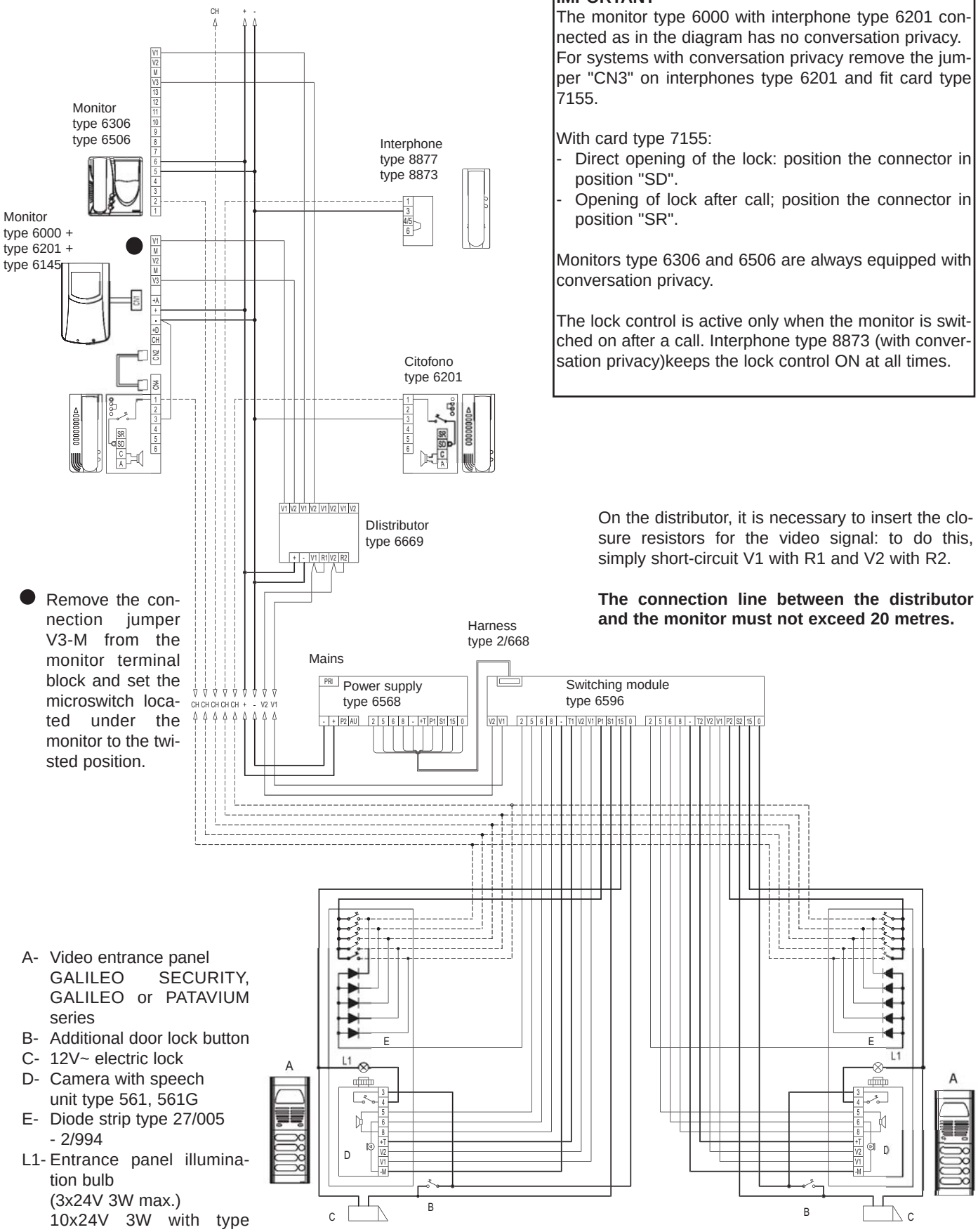
BLOCK DIAGRAM N. sb1239

IMPORTANT
The monitor type 6000 with interphone type 6201 connected as in the diagram has no conversation privacy.
For systems with conversation privacy remove the jumper "CN3" on interphones type 6201 and fit card type 7155.

With card type 7155:
- Direct opening of the lock: position the connector in position "SD".
- Opening of lock after call; position the connector in position "SR".

Monitors type 6306 and 6506 are always equipped with conversation privacy.

The lock control is active only when the monitor is switched on after a call. Interphone type 8873 (with conversation privacy)keeps the lock control ON at all times.



● Remove the connection jumper V3-M from the monitor terminal block and set the microswitch located under the monitor to the twisted position.

On the distributor, it is necessary to insert the closure resistors for the video signal: to do this, simply short-circuit V1 with R1 and V2 with R2.

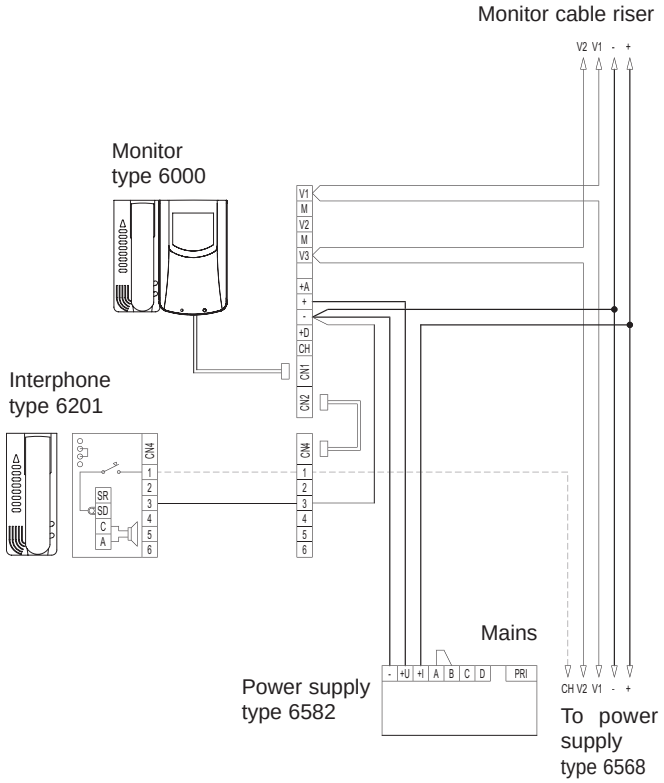
The connection line between the distributor and the monitor must not exceed 20 metres.

A- Video entrance panel GALILEO SECURITY, GALILEO or PATAVIUM series
B- Additional door lock button
C- 12V~ electric lock
D- Camera with speech unit type 561, 561G
E- Diode strip type 27/005 - 2/994
L1- Entrance panel illumination bulb (3x24V 3W max.)
10x24V 3W with type M832
16X24V 3W with type 832/030

DIAGRAM N° vc3039

VARIATION 40

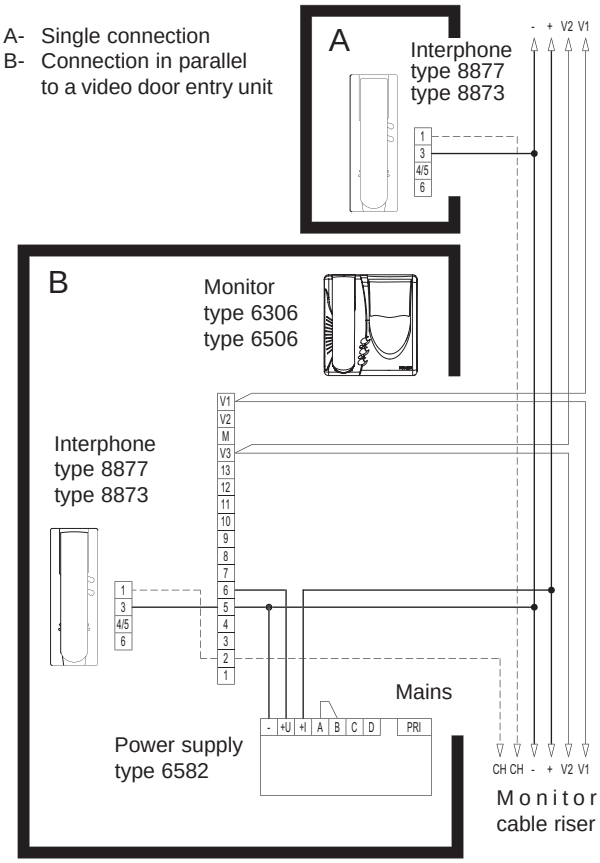
Wiring diagram of interphone type 6201 connected in parallel in a video door entry system without coaxial cable.



VARIATION 41

Wiring diagram of an interphone in a video door entry system without coaxial cable.

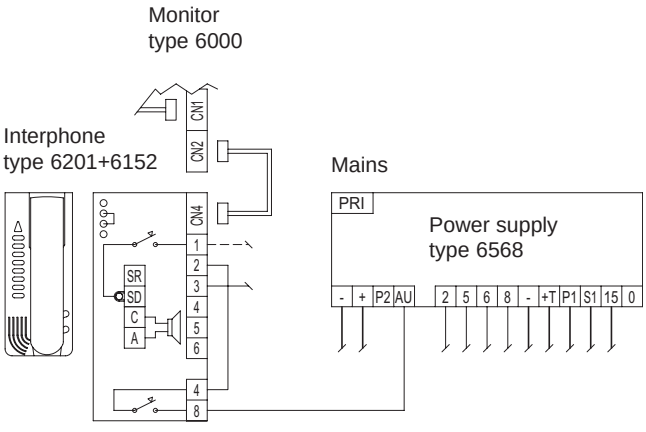
A- Single connection
B- Connection in parallel to a video door entry unit



VARIATION 42

Wiring diagram of monitor self-start button.

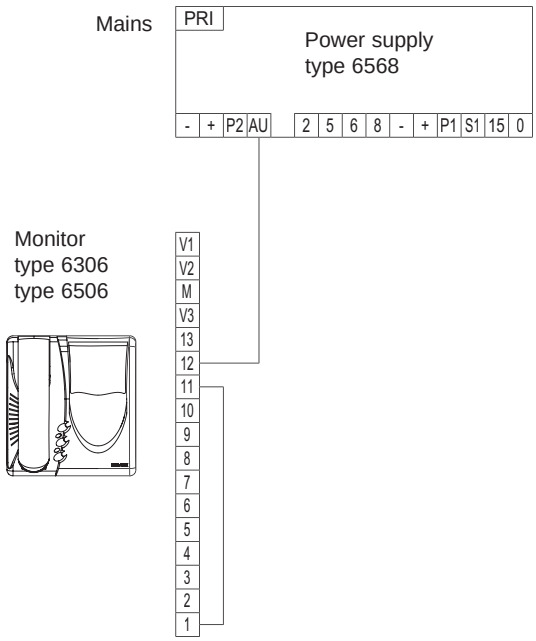
It is possible to activate the video system from the monitor, using one of the additional buttons (type 6152). The push-button used in the diagram is push-button number 1.



VARIATION 43

Wiring diagram of monitor self-start button

It is possible to activate the video system from the monitor, using the push-button with the symbol ☐ .



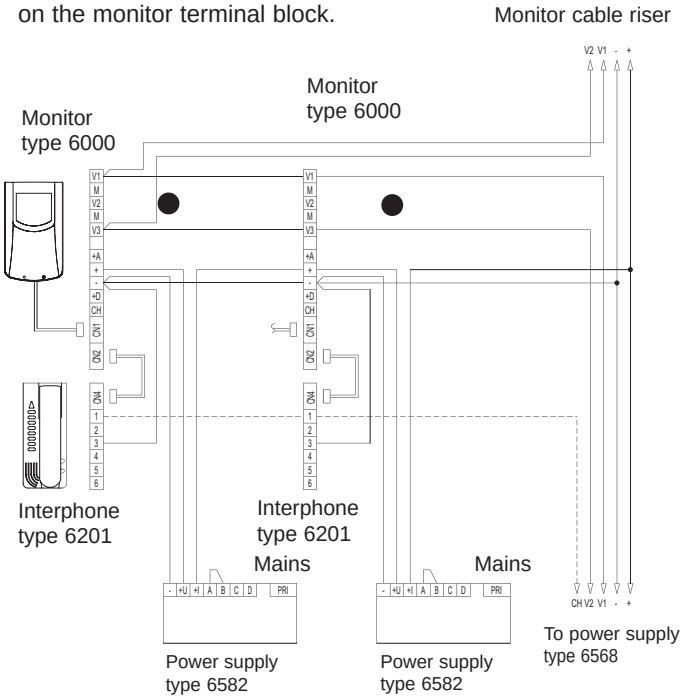
VARIATION 44

Wiring diagram of two or more monitors connected in parallel with simultaneous switch-on.

Power supply type 6568 powers a single monitor type 6000. If two monitors are to be switched on simultaneously, it is necessary to use an additional power supply type 6582 for each monitor, including the first.

●

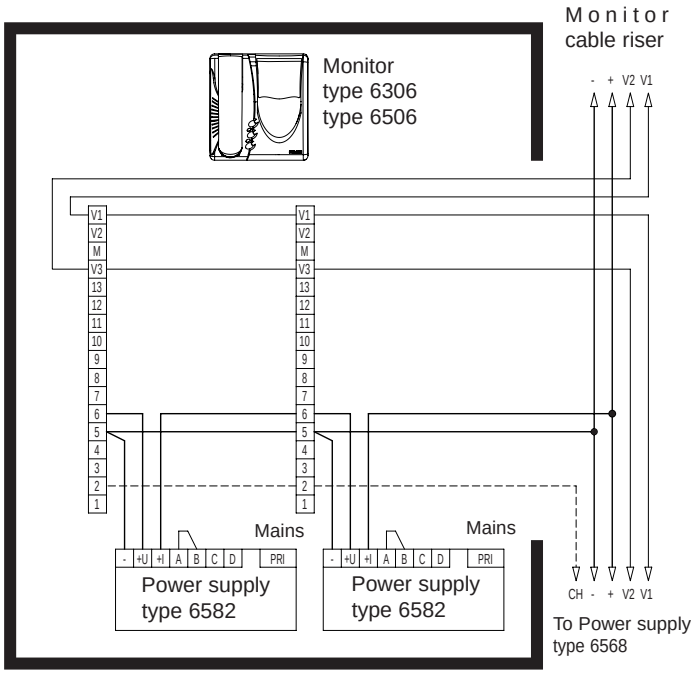
Remove the jumper between V3-M on the monitor terminal block.



VARIATION 45

Wiring diagram of 2 or more monitors connected in parallel, with simultaneous switch-on.

Power supply type 6568 powers a single monitor type 6306 or 6506, connected as shown in the diagram. If more than two monitors are to be switched on simultaneously, it is necessary to use an additional power supply type 6582 for each monitor, including the first.

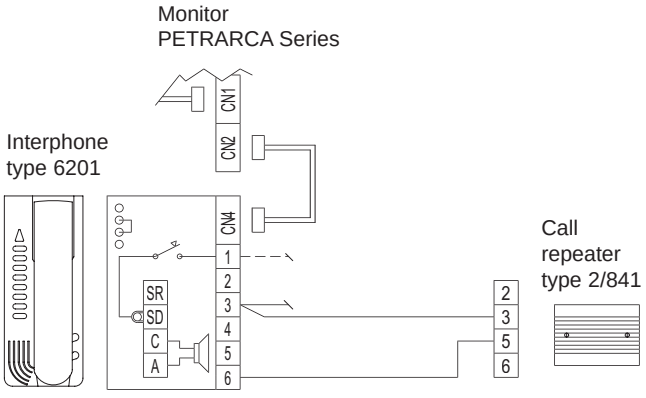


VARIATION 46

Wiring diagram of call repeater

Type 2/841 repeats the sound of the monitor without changing its tone.

N.B. It is not possible to directly connect conventional electronic ringtones or mechanical doorbells (see variation).

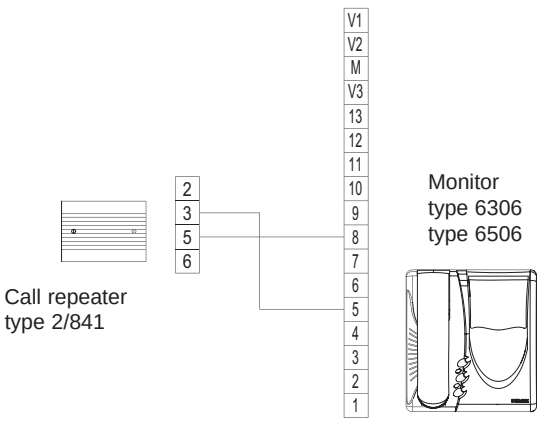


VARIATION 47

Wiring diagram of call repeater

Type 2/841 repeats the sound of the monitor without changing its tone.

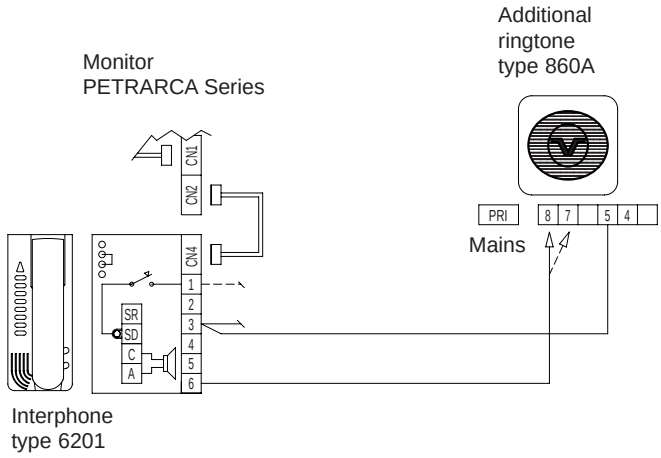
N.B. It is not possible to directly connect conventional electronic ringtones or mechanical doorbells (see variation).



VARIATION 48

Wiring diagram of additional electronic ringtones type 860A with interphones type 6201.

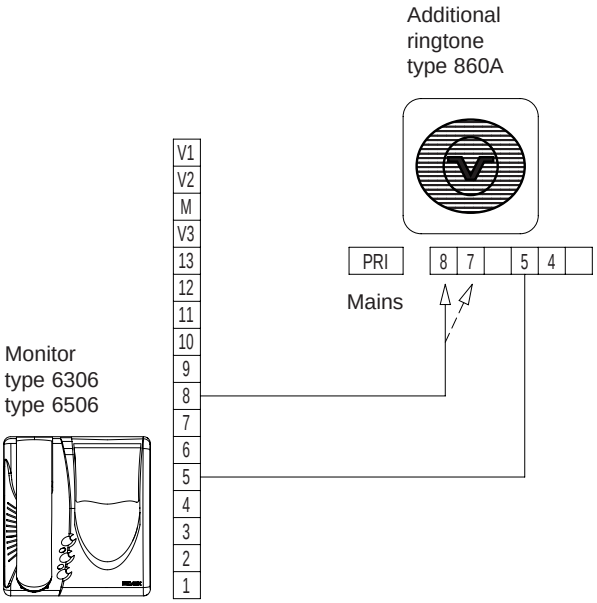
N.B. Electronic ringtone type 860A has two different type s of sounds and three tones, which can be selected between terminal 7 and terminal 8.



VARIATION 49

Wiring diagram of additional electronic ringtones type 860A with monitor type 6306, 6506.

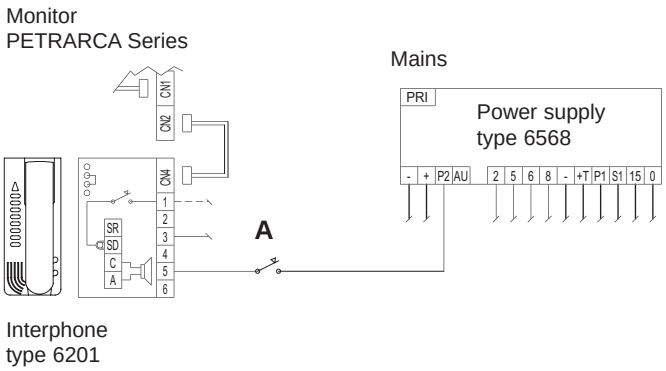
N.B. Electronic ringtone type 860A has two different type s of sounds and three tones, which can be selected between terminal 7 and terminal 8.



VARIATION 50

Wiring diagram for landing call button.

If you connect the landing call push-button as shown in the diagram, the monitor will produce a different sound from the sound of a call from the main speech unit. In this case the monitor remains switched off.

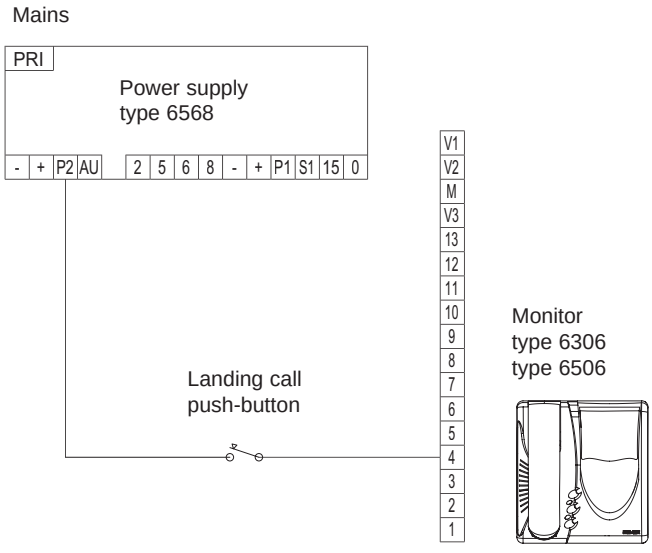


A- Landing call push-button

VARIATION 51

Connecting the landing call button

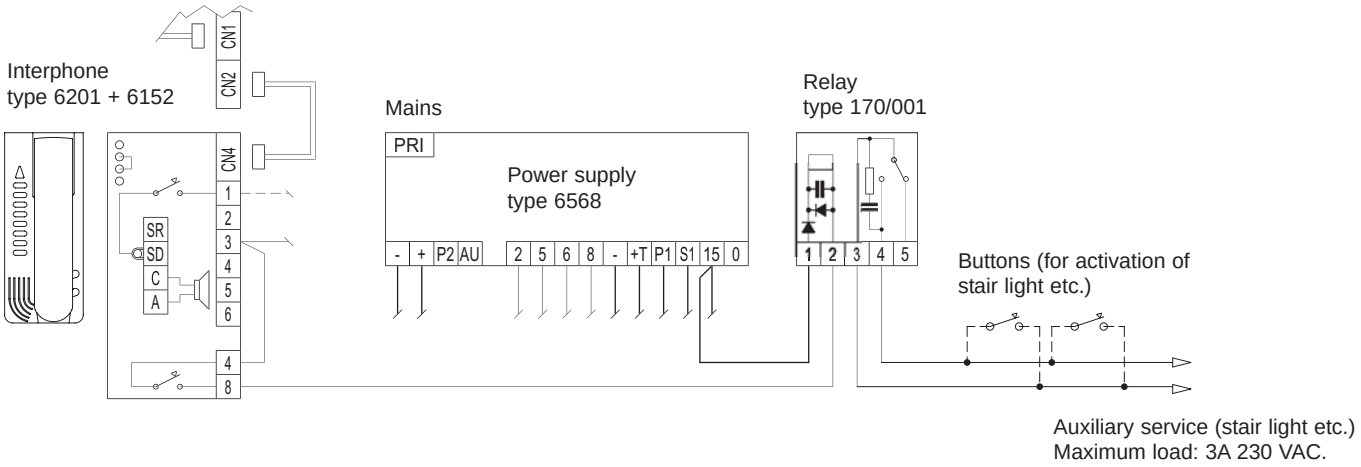
If you connect the landing call push-button as shown in the diagram, the monitor will produce a different sound from the sound of a call from the main speech unit. In this case the monitor remains switched off.



VARIATION 52

Connection of a push-button for auxiliary services (or stair light) by means of relay type 170/001 with interphone type 6201.

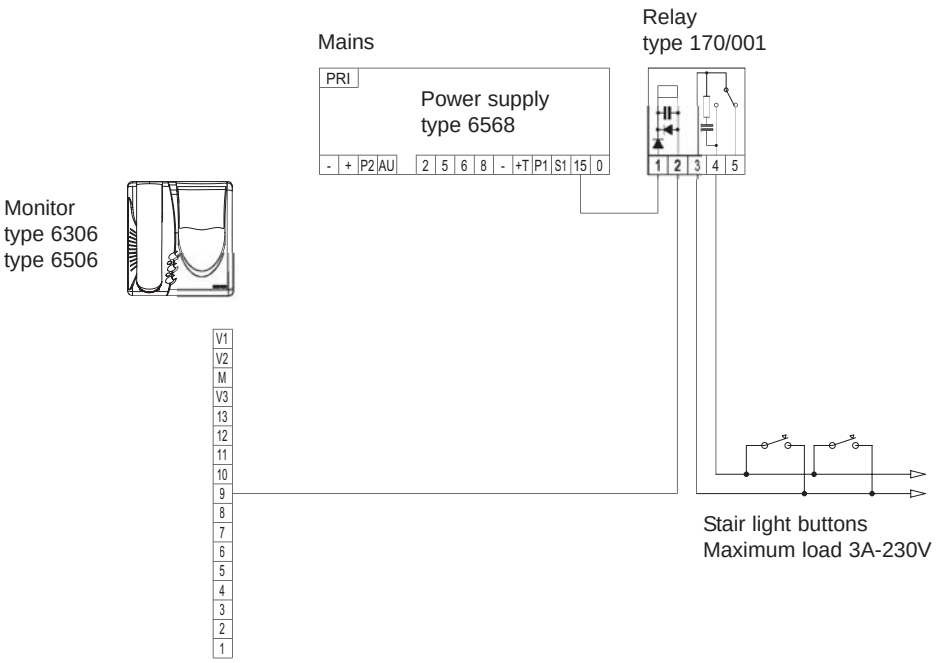
In the diagram, the push-button used in the interphone for this purpose is number 1 of the additional buttons.
N.B. Maximum capacity of the relay contacts: 3A-230V



VARIATION 53

Connection of a push-button for auxiliary services (or stair light) by means of relay type 170/001 with monitor type 6306, 6506.

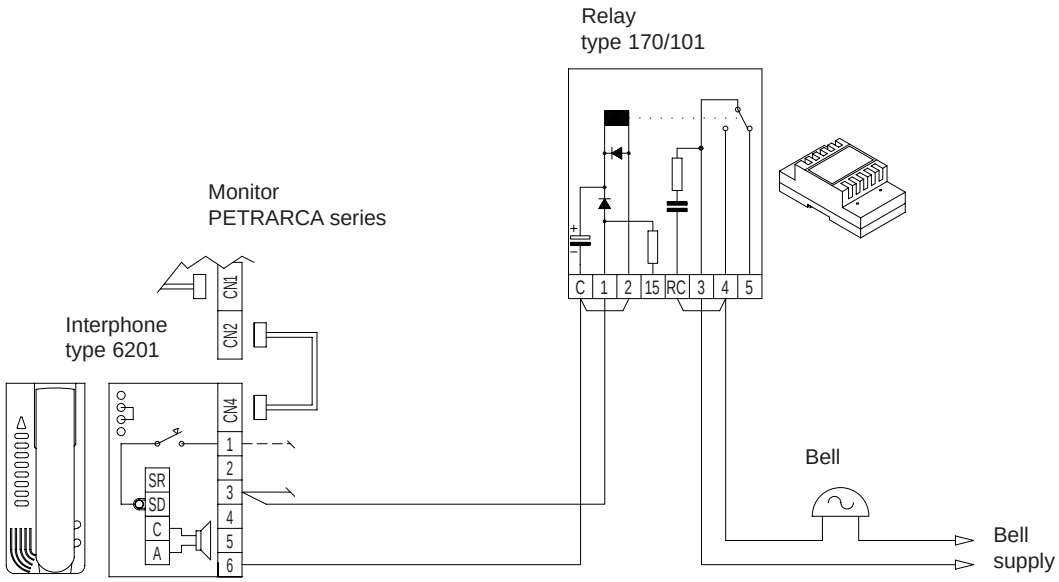
For switch-on of the stair light, use the push-button with the symbol .
N.B. Maximum capacity of the relay contacts: 3A-230V.



VARIATION 54

Wiring diagram of additional mechanical doorbells with interphone type 6201.

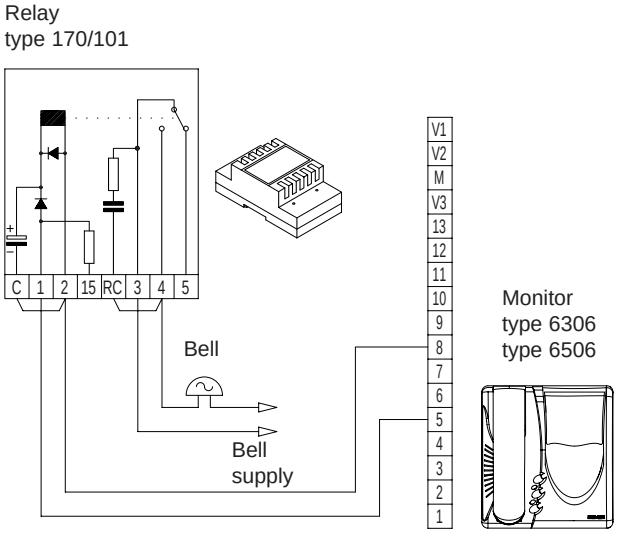
Additional 12 V A.C. doorbells may be installed by connecting relay type 170/101 as illustrated in the diagram below.
Maximum contact load: 230V, 3A.



VARIATION 55

Additional mechanical bell connection with monitor type 6306, 6506.

Additional 12 VA.C. bells may be installed using relay type 170/101 by connecting it as shown in the wiring diagram.
Maximum contact load: 230V, 3A.



STANDARD VIDEO DOOR ENTRY SYSTEM WIRING DIAGRAM VARIATIONS WITHOUT COAX CABLE

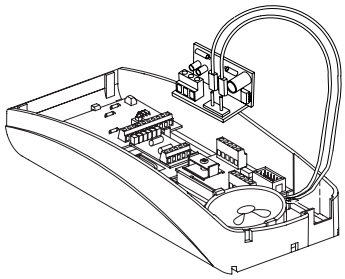
Technical specifications OF RINGTONE type 6150
- Two-tone sound signal - power supply: 13.5 ÷ 18Vc.c. - Consumption 75mA

DESCRIPTION

DING-DONG ringtone card for installation in interphones type 6200 - 6201 in the PETRARCA series. Once installed, the card enables the interphone to be used in systems with AC call or, if fitted in SOUND SYSTEM installations, converts the sound of the interphone from modulated to two-tone (DING-DONG).

RINGTONE ASSEMBLY

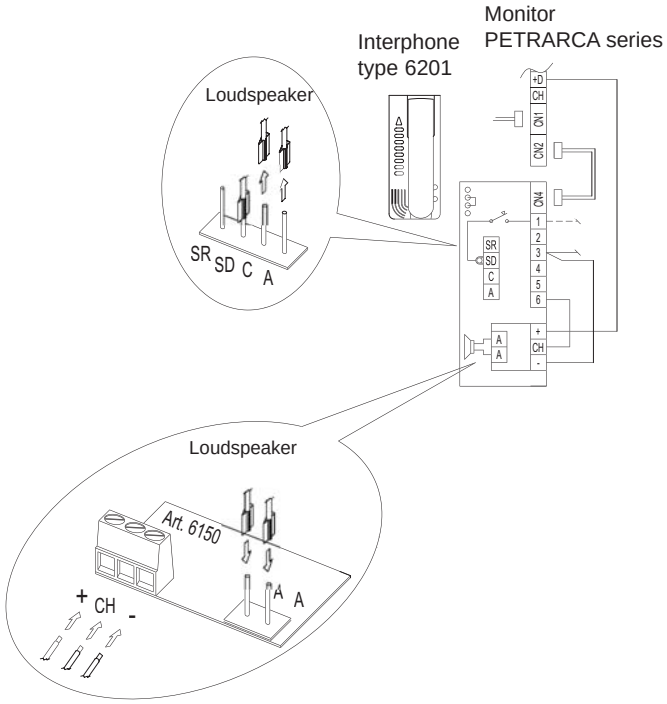
1) Open the interphone by separating the cover from the base.
2) Insert the electronic card in its seat and fix with the screw supplied.
3) Remove the 2 loudspeaker conductors (Faston type) from the standard interphone card and insert them (without taking account of polarisation) in the two pins (denominated "A-A") of ringtone type 6150.
4) Make the connection as shown in the diagrams attached.



VARIATION 56

Wiring diagram of electronic two-tone ringtone type 6150

The ringtone with electronic two-tone sound type 6150 must be inserted in interphone type 6201 to change the modulated sound generated by the power supply type 6568.

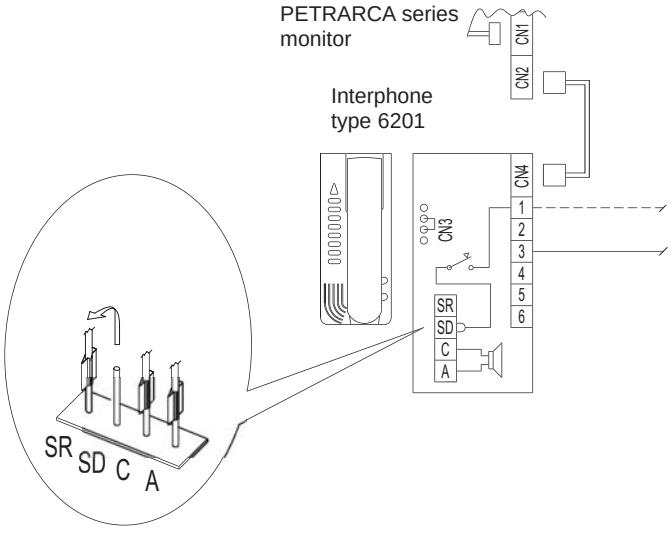


VARIATION 57

Wiring diagram of video entry unit with conversation privacy and door lock release after call.

Disconnect the jumper from connector "CN4" and mount conversation privacy card type 7155.

If a conversation privacy card is fitted, the door lock can also be released after a call only by disconnecting the wire from connector "SO" and reconnecting it to connector "SR"

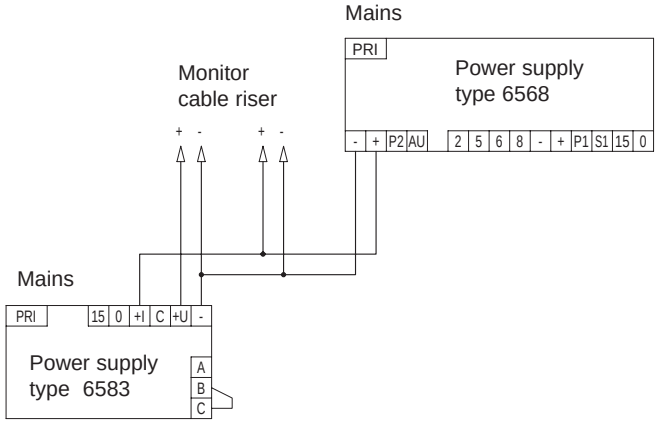


VARIATION 58

Connection of power supply type 6583 on installations with considerable voltage drop on power line "+ -".

Additional power supply type 6583 may be connected as shown in diagram, in case of long supply lines where power voltage on line wiring to monitors (+ -) is less than 15V= between terminals 5-6. This unit can supply 18V= 1,6A with continuous operation, 3A with intermittent operation.

N.B. Set the jumper to position "B-C"



VARIATION 59

Call sound level control, with OFF indicator (red LED) and "lock open" indicator (green LED), with accessory module type 6153 with interphones type 6201.

DESCRIPTION OF MODULE type 6153

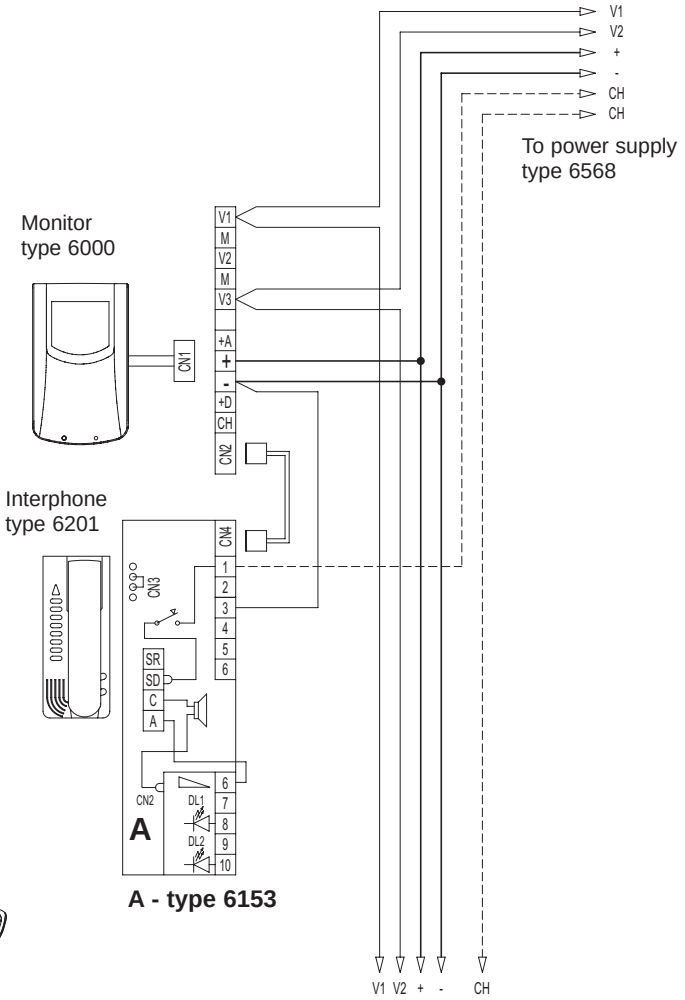
Switching module type 6153 makes it possible to control the ringtone volume or disable it, on interphones with call loudspeaker in the PETRARCA series, type 6201. The device is also equipped with two LEDs , one for indicating that the ringtone is OFF (red indicator) and one for indicating that the lock is open (green indicator); the use of these two devices requires additional connections to be made, as shown in the wiring diagrams on the next page.

INSTALLING THE MODULE ON PETRARCA SERIES 6201 INTERPHONES

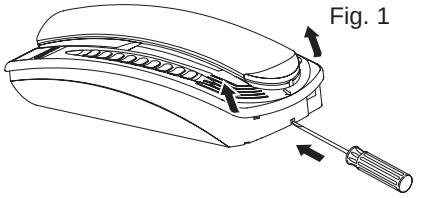
- Open the interphone (Fig. 1)
- Snap off the plastic lamina by exerting pressure on it (Fig. 1B)
- Insert the card in its seat and fix it with the screw supplied (Fig. 2)
- Disconnect the loudspeaker wire from "A" on the interphone.
- Insert the removed wire onto the pin (CN2) on the card type 6153.
- Insert the wire pre-connected to terminal n° 6 of type 6153, into pin "A" of the interphone (Fig. 3).

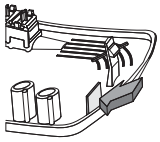
N.B. On terminal n° 7 of card type 6153, there is a wire to be used for visual indication that the ringtone is disabled.
In position "0" (ringtone OFF) terminals 7 - 10 are connected to the diode, thus enabling the red visual indicator (LED) to light.

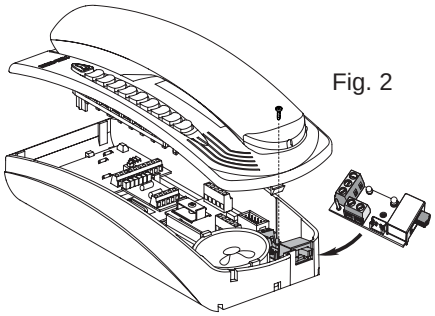
Wiring diagram of call volume control module without LEDs

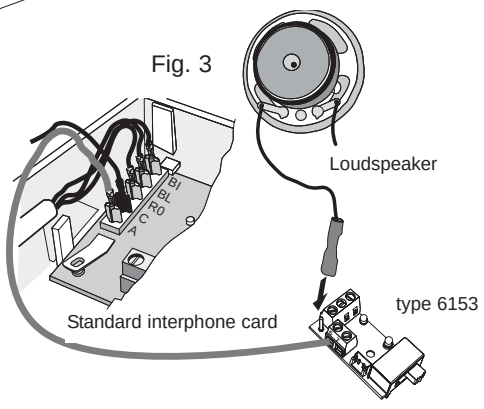


A - type 6153



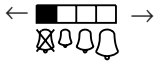






Call level selection

Left 0 1 2 3 Right

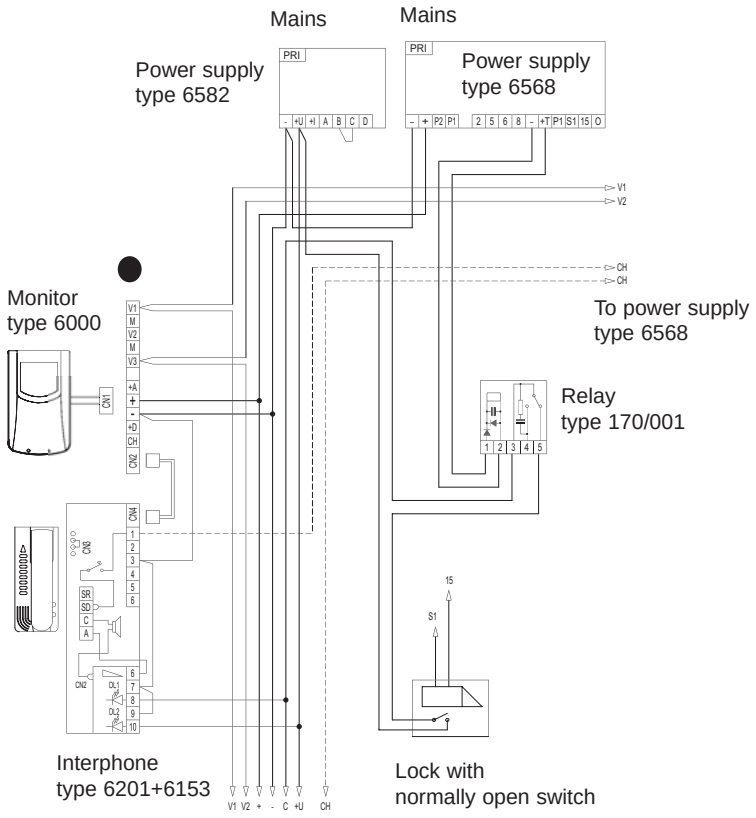


Position "0": ringtone OFF
Position "1": minimum volume
Position "2": medium volume
Position "3": maximum volume

When the ringtone OFF visual indicator is used (red LED) as well as the "lock open" indicator (green LED)
it is necessary to power these LEDs with a separate power supply type 6582, which can power up to 30 LEDs simultaneously.
See diagrams on next page.

VARIATION 60

Connection of ringtone level control module, with OFF indicator (red LED) and "lock open" indicator (green LED) with interphones type 6201.



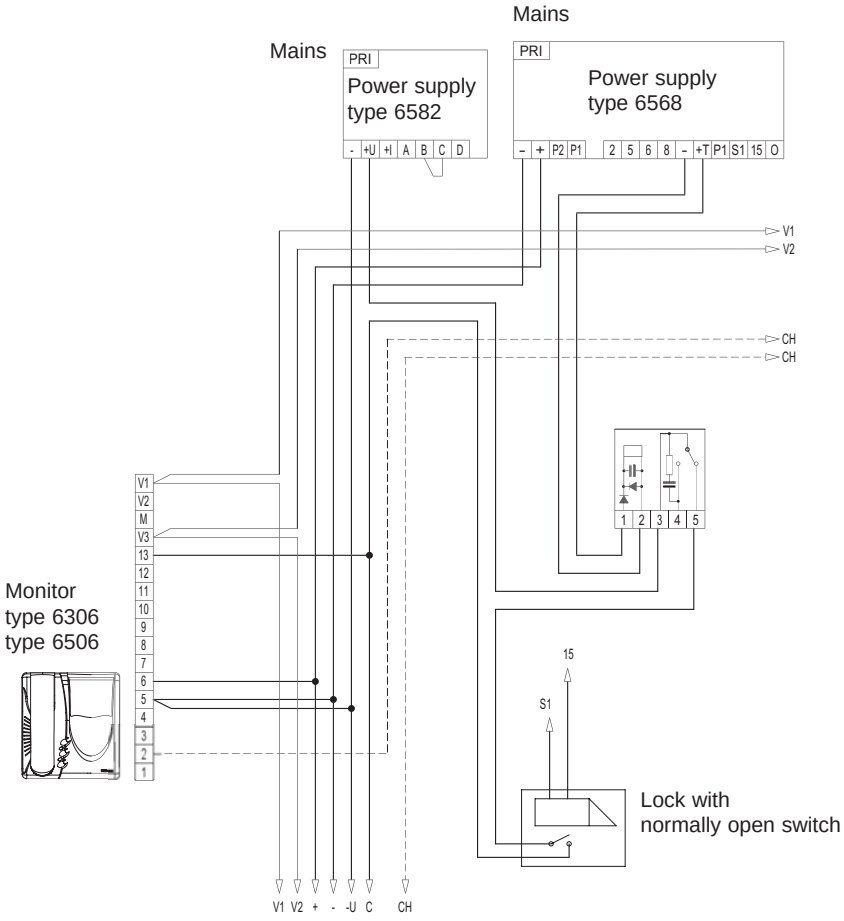
● Remove the jumper between V3-M from the monitor terminal block

The diagram shows the connection of type 6153 with the
ringtone OFF (red LED) and "lock open" (green LED) indicators with interphones type 6201 and monitor type 6000,
If you do not need to use one of the two functions, proceed as follows:
With the ringtone OFF LED connect only the wire to terminal N. 10 of type 6153. With the "lock open" LED, connect only terminal N. 8 of type 6153.

As shown in the diagram, a power supply type 6582 is used to power these LEDs .
The power supply can power a total of up to 30 LEDs simultaneously. For a larger number, it is necessary to use further additional power supplies.

VARIATION 61

Connection with "lock open" visual indicator (green LED) with monitor type 6306 and 6506.



The diagram shows the connection of the "lock open" indicator (green LED) with monitor type 6306 and 6500 (connection to terminal 13),

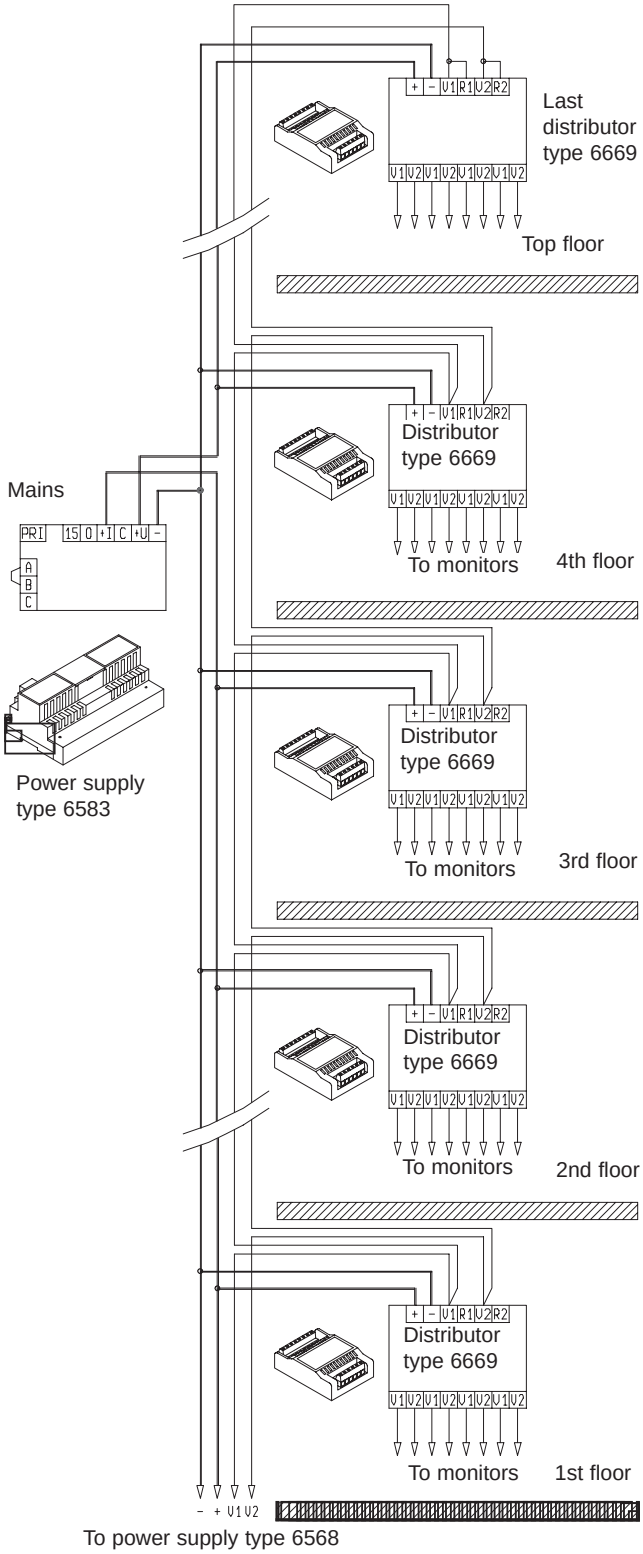
As shown in the diagram, a power supply type 6582 is used to power the green LEDs .
The power supply can power a total of up to 30 LEDs simultaneously.
For a larger number, it is necessary to use further additional power supplies.

VARIATION 62

Wiring diagram of video door entry unit without coaxial cable with more than 10 floor distributors type 6669.

Important: For more than 10 video distributors type 6669 and up to a maximum of 15, use power supply type 6583.

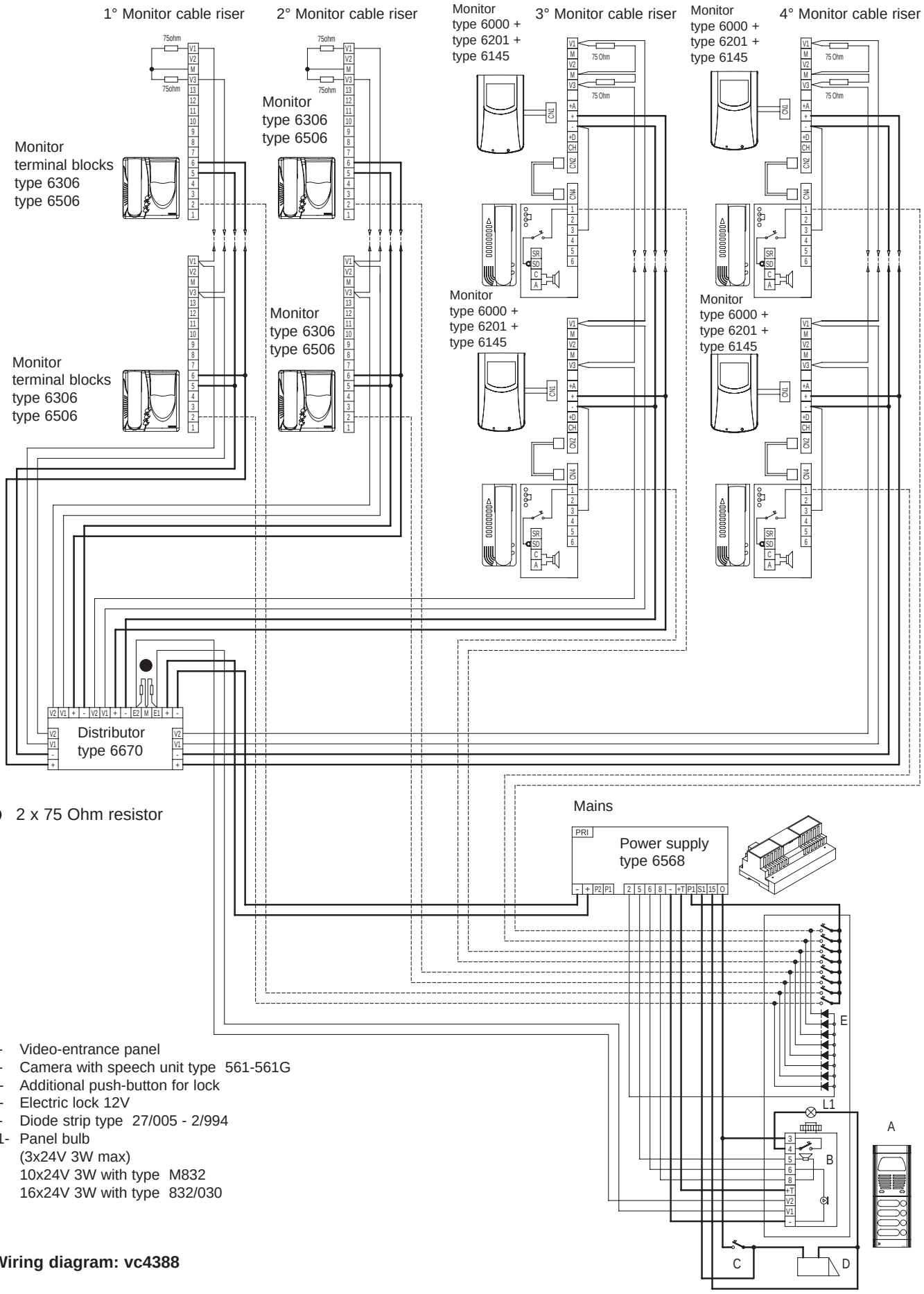
N.B.
Connect jumpers between terminals V1 and R1 and V2 and R2 on the last distributor.



Wiring diagram: vc2940

VARIATION 63

Examples of video signal distribution on several cable risers without using coaxial cable.

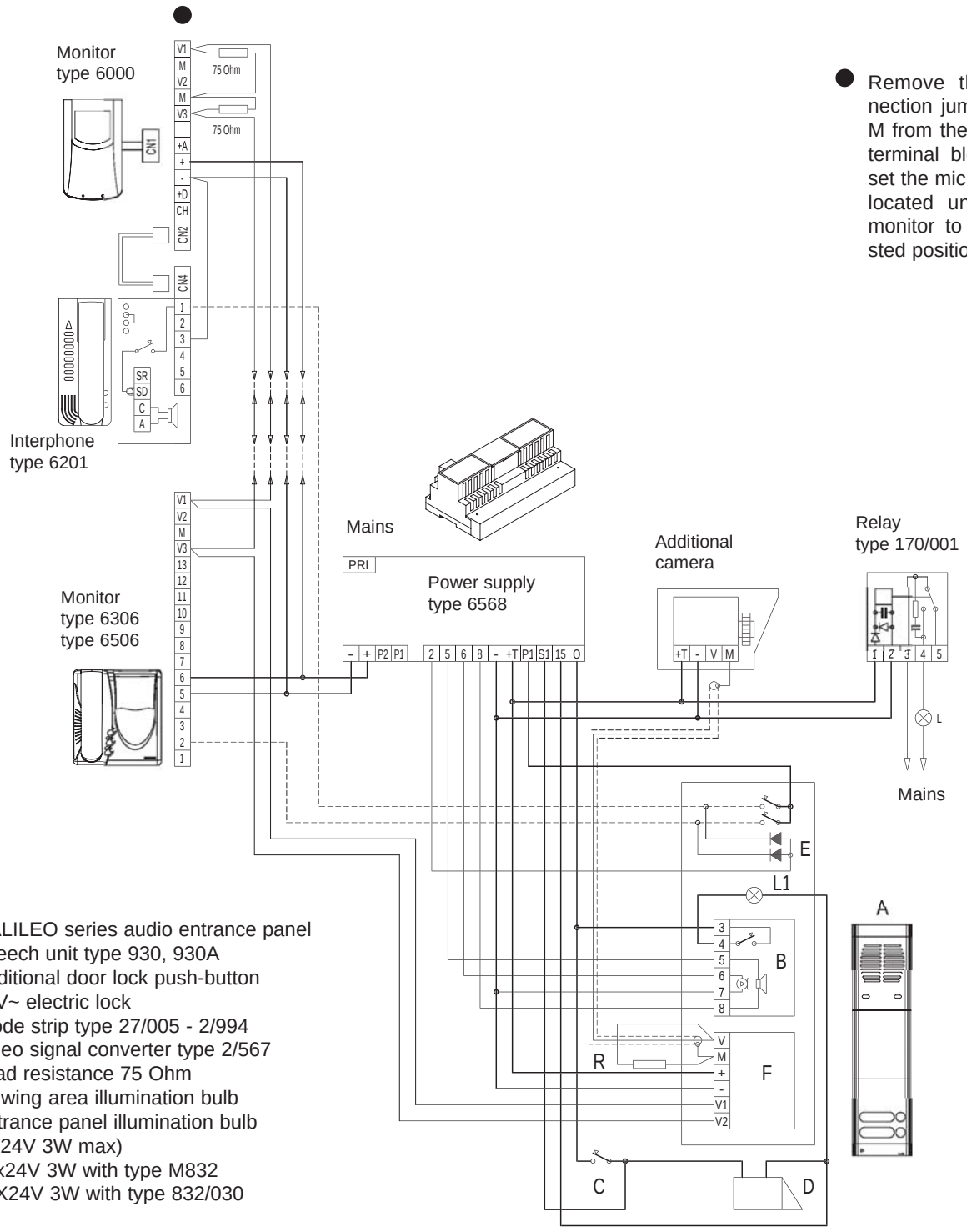


Wiring diagram: vc4388

VARIATION 64

Connection of a camera separate from the entrance panel with speech unit and additional bulbs for lighting the the viewing zone.

The figure shows the connection of an entrance panel with the speech unit only and a separate camera type 5020 - 5A20 - 5B20 -5A10- 5B10 - 5C10. The illumination bulb (L) must be inserted as shown in the diagram. For B/W filming infrared lighting can be used.
To connect the audio speech unit type 930 or 930A, use the video signal converter device type 2/567, which is installed in the GALILEO series entrance panel with neutral module type 8000, and is included in the system to eliminate the coaxial cable from the power supply to the entrance panel: this converts the output of the video signal for coaxial cable from 75 Ohm to video signal on the twisted pair telephone line with balanced impedance.



● Remove the connection jumper V3-M from the monitor terminal block and set the microswitch located under the monitor to the twisted position.

A- GALILEO series audio entrance panel
B- Speech unit type 930, 930A
C- Additional door lock push-button
D - 12V~ electric lock
E- Diode strip type 27/005 - 2/994
F- Video signal converter type 2/567
R- Load resistance 75 Ohm
L- Viewing area illumination bulb
L1- Entrance panel illumination bulb
(3x24V 3W max)
10x24V 3W with type M832
16X24V 3W with type 832/030

Wiring diagram: vc2933

4-WIRE VIDEO DOOR ENTRY SYSTEM KITS

MINIMUM CONDUCTOR SECTION FOR 4-WIRE SYSTEM KITS (in mm^2)

Monitor terminal	up to10 m.	up to 30 m.	up to 50 m.	up to 100 m.
11 - 12	1,5mm^2	-	-	-
1 - 2	**type 63CV** / 0,5 mm^2		0,75 mm^2	1mm^2
Video	**type 63CV** Coaxial cable 75 Ohm (type RG59)		Coaxial cable 75 Ohm (type RG59)	

OVERVIEW
The 4-WIRE video door entry system kit was designed to facilitate installation.
It consists of a 4" monitor with flat screen powered by a transformer to be connected to the AC mains, and a "PATAVIUM", "GALILEO", "GALILEO SECURITY" or letter box series entrance panel with camera and audio speech unit.
The system can be extended by adding extra monitors and/or interphones, a call repeater and other useful accessories supplied on request.

Models of kit

637E Single residence kit with Galileo surface wall-mounted entrance panel, camera type 63U7 and a B/W monitor type 63M7.

637G Single residence kit with Galileo flush wall-mounted entrance panel, camera type 63U7 and a B/W monitor type 63M7.

637G/S2 Double residence kit with Galileo flush wall-mounted entrance panel, camera type 63U7/V and 2 B/W monitors type 63M7.

637G/C1 Single residence kit with Galileo flush wall-mounted entrance panel, camera type 63B7 and a colour monitor type 63C7.

637G/C2 Double residence kit with Galileo flush wall-mounted entrance panel, camera type 63B7/V and 2 colour monitors type 63C7

637V Single residence kit with Galileo Security flush wall-mounted entrance panel, camera type 63U7/V and a B/W monitor 63M7.

637T Single residence kit with Patavium flush wall-mounted entrance panel, camera type 63U7/V and B/W monitor type 63M7.

637P Single residence kit with letter box entrance panel, camera type 570, speech unit type 930E and a B/W monitor type 63M7.

OPERATING PRINCIPLE

When entrance panel push-button is pressed, a call signal is heard and the monitor comes on immediately,showing a clear image of the caller. Lift interphone to communicate with caller and if required operate the electric lock by pressing the push-button with the key symbol. The monitor turns off automatically after about 30".The installation can be switched on from the inside by pressing the push-button with the  symbol, thus allowing an external view when required.

Technical specifications OF MONITOR (type 63M7)

- Surface wall-mounted housing in ABS plastic, available in white, white/black or black.
- Back plate and fixing screws for wall mounting (supplied in packing).
- CRT with 4" flat screen.
- Electronic circuit on interchangeable card.
- Standard CCIR, 625 lines, 50 images (Standard EIA on request).
- 4MHz pass band.
- Input signal 1Vpp on 75 Ohms.
- Operating temperature: 0° C + 40° C.
- Built-in adjustable electronic ringtone.
- 3-position variable ringtone volume adjustment.
- Brightness control
- Contrast control
- Push button  for electric lock release .
- Auto-switching push-button  .
- Push push-button  for auxiliary functions (stair-light, etc.).
- 15V A.C. supply voltage
- Camera supply output
- Overall dimensions: 204x220x71 mm

Technical specifications OF MONITOR (type 63C7).

- Surface wall-mounted housing in ABS plastic, available in white.
- back-plate and fixing screws for wall mounting (supplied in packing).
- With 4" colour LCD flat screen.
- Electronic circuit on interchangeable card.
- Pal standard video signal
- Input signal 1Vpp on 75 Ohms.
- Operating temperature: 0° C + 40° C.
- Built-in adjustable electronic ringtone.
- Ringtone volume adjustment.
- Brightness control
- Colour control
- Push button  for electric lock release .
- Auto-switching push-button 
- Push push-button  for auxiliary functions (stair-light, etc.).
- 15V A.C. supply voltage
- Camera supply output
- Overall dimensions: 204x220x71 mm
- Weight: Kgs. 1.5 without packing.

Technical specifications OF CAMERA (type 63B7 and 63B7/V)

- CCD 1/4" sensor
- 3,0 mm F2,8 lens with fixed focus
- Brightness automatic control
- Video signal standard PAL
- Video output voltage 1Vpp on 75 Ohms
- Operating temperature -5° +50° C.
- Subject lighting by means of white light LED.
- Name-tag lighting by means of LED diodes.
- Built-in speech unit
- Removable terminal block for connection
- 12V D.C. 150mA supply provided by monitor.
- Overall dimensions: 120x80x25 mm
- Weight: Kgs. 0.6 without packing.

Technical specifications OF CAMERA (type 63U7 and 63U7/V)

- CCD 1/4" sensor
- 3,7 mm F4.5 lens with fixed focus
- Brightness automatic control
- Video signal standard CCIR, 625 lines, 50 images (standard EIA on request)
- Video output voltage 1Vpp on 75 Ohms
- Operating temperature -5° +50° C.
- Infrared subject lighting.
- Name-tag lighting by means of LEDs.
- Built-in speech unit
- Removable terminal block for connection (point “E”).
- 12V D.C. 150mA supply provided by monitor.

Technical specifications OF TRANSFORMER (type 832/030)

- 4 -Module DIN housing in ABS plastic
- 230V 50Hz supply voltage (other voltages on request)
- 15V A.C. 30VA output voltage
- Internal protection against short-circuits with PTC
- Overall dimensions: 75x105x65 mm

MONITOR INSTALLATION

Install monitor far from sources of heat and light.

Fix the monitor hooking plate to the wall (its base mounted at 1.40 m. from floor level). Carry out connections on monitor terminal block by following enclosed diagrams.
Insert the monitor on the previously fixed hooking plate.

It is possible to change this monitor into a desk version by using he desk-top conversion kit type 6610.

NOTES:

The installation ensures a good operation if connected with 30 m. cable type 63CV (supplied separately) and also if a 12V A.C. 10VA electrical door lock is connected.
If longer distances up to max 100m are required, increase cable section. Use coaxial cable type RG59.

ENTRANCE PANEL VIDEO DOOR ENTRY UNIT

INSTALLATION

Orient the external camera unit so that it is not struck
directly by light sources (sun, street lights, car headlights etc.). The subject to be filmed must be lit frontally so as to
avoid filming against the light. The camera unit is equipped with infrared light emitters which, in the absence of illumination, make it possible to film a subject at a distance of about one metre. It is advisable to protect the device with a wall-mounted canopy or other form of shelter. Separate the flush-mounting box from the entrance panel, install the box at a recommended height of 1.65 m from its top edge to the ground.

INSTALLATION OF SUPPLY TRANSFORMER

4-DIN module supply transformer type 832/030 may be wall mounted with long fixing screws (supplied) or on a box equipped with DIN support. It is advisable to connect supply network with a double pole fused isolator.
This transformer is equipped with thermal protection (PTC) so that, in the event of a short-circuit to the secondary supply, the protection circuit removes the 15V secondary voltage until the fault is rectified.

After cutting off power supply to the primary and after eliminating the short-circuit, it is necessary to wait for a few minutes to allow cooling of the protective device, so that the transformer may start normal operation again.

FAULT-FINDING (can be solved by users):

MONITOR OFF

Check that transformer has been connected correctly to mains supply. Voltage on terminals 11 and 12 of monitor should be of 15V.

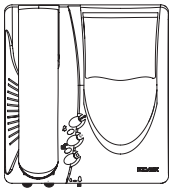
MONITOR ON WITHOUT PICTURE:

Check that cables between monitor and camera are wired properly and that there are not interruptions and/or short circuits.

SCREEN WITH ONE OR TWO HORIZONTAL BARS AND/OR DISTORTED PICTURES.

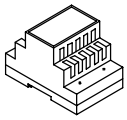
Check that supply voltage to terminals M and +T of camera is 12V ±10% (10,8V÷13,2V). If installation still does not work, contact our maintenance department or specialized technicians.

STANDARD WIRING DIAGRAM FOR VIDEO DOOR ENTRY SYSTEM KIT WITH CAMERA TYPE 63U7 OR 63B7, FOR type 637E, 637G, 637G/C1



Monitor
type 63M7
type 63C7

Transformer
type 832/030



1 2 3 4 5 6 7 8 9 10 11 12 13 V3 M V1 V2 | O 15 | PRI

75ohm

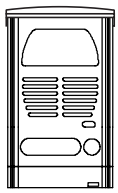
MAINS

COAX

RED

YELLOW

Cable
type 63CV



type 63U7
type 63B7

M V 1 2 4 6 P1

COAX

YELLOW

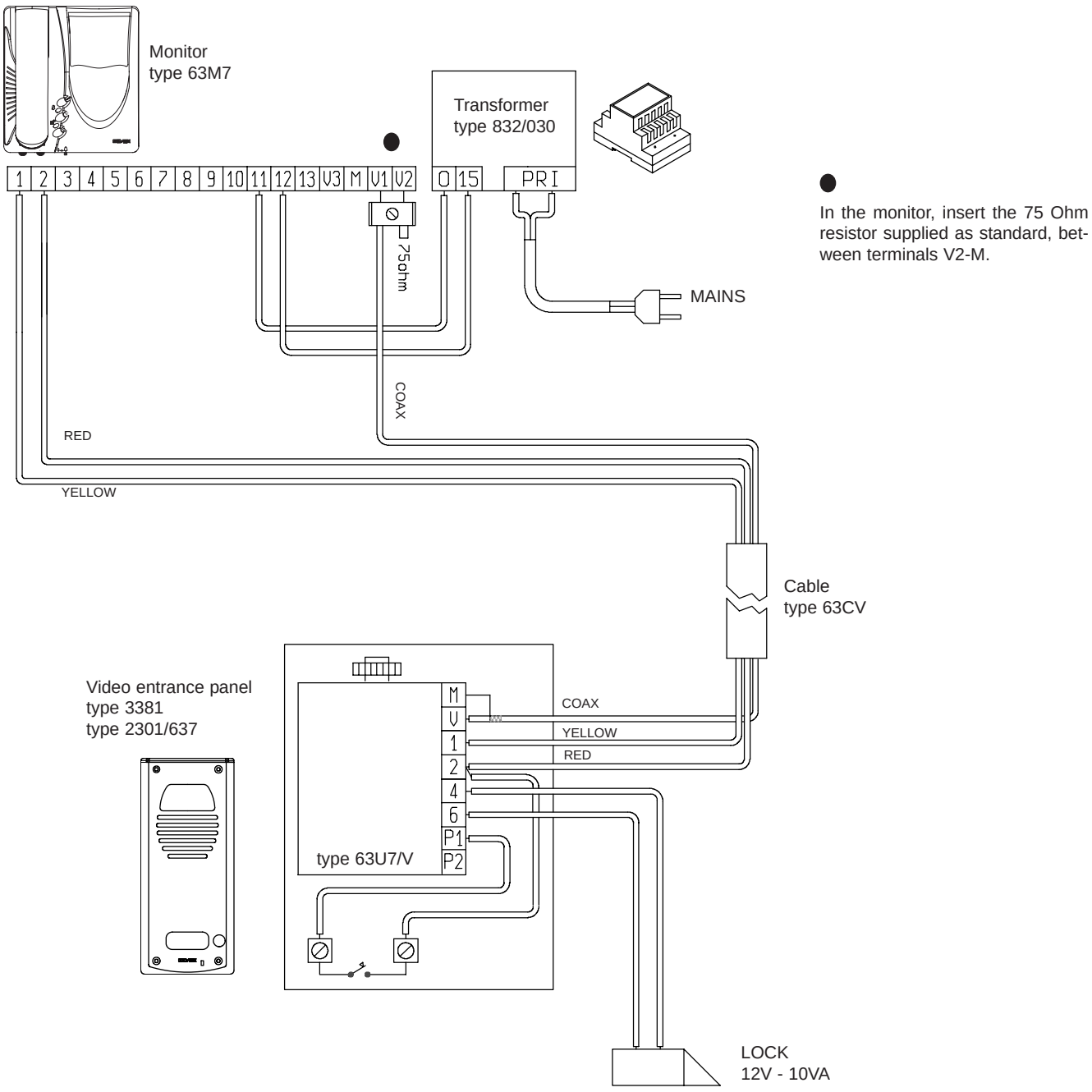
RED

Video entrance panel
type 88V1
type 8901/637
type 8901/637T

LOCK
12V - 10VA

In the monitor, insert the 75 Ohm resistor supplied as standard, between terminals V2-M.

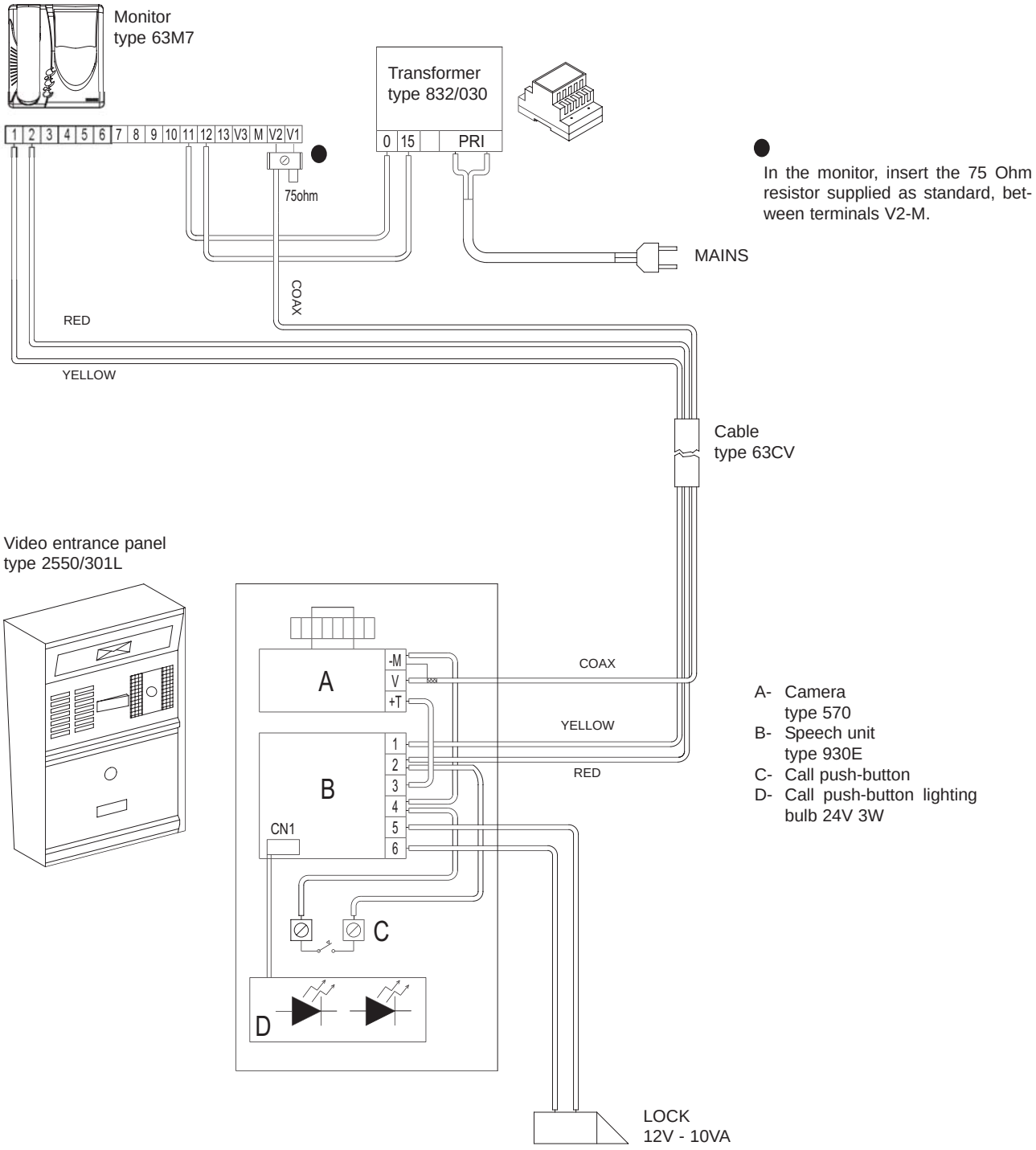
WIRING DIAGRAM N° vc4269-1



● In the monitor, insert the 75 Ohm resistor supplied as standard, between terminals V2-M.

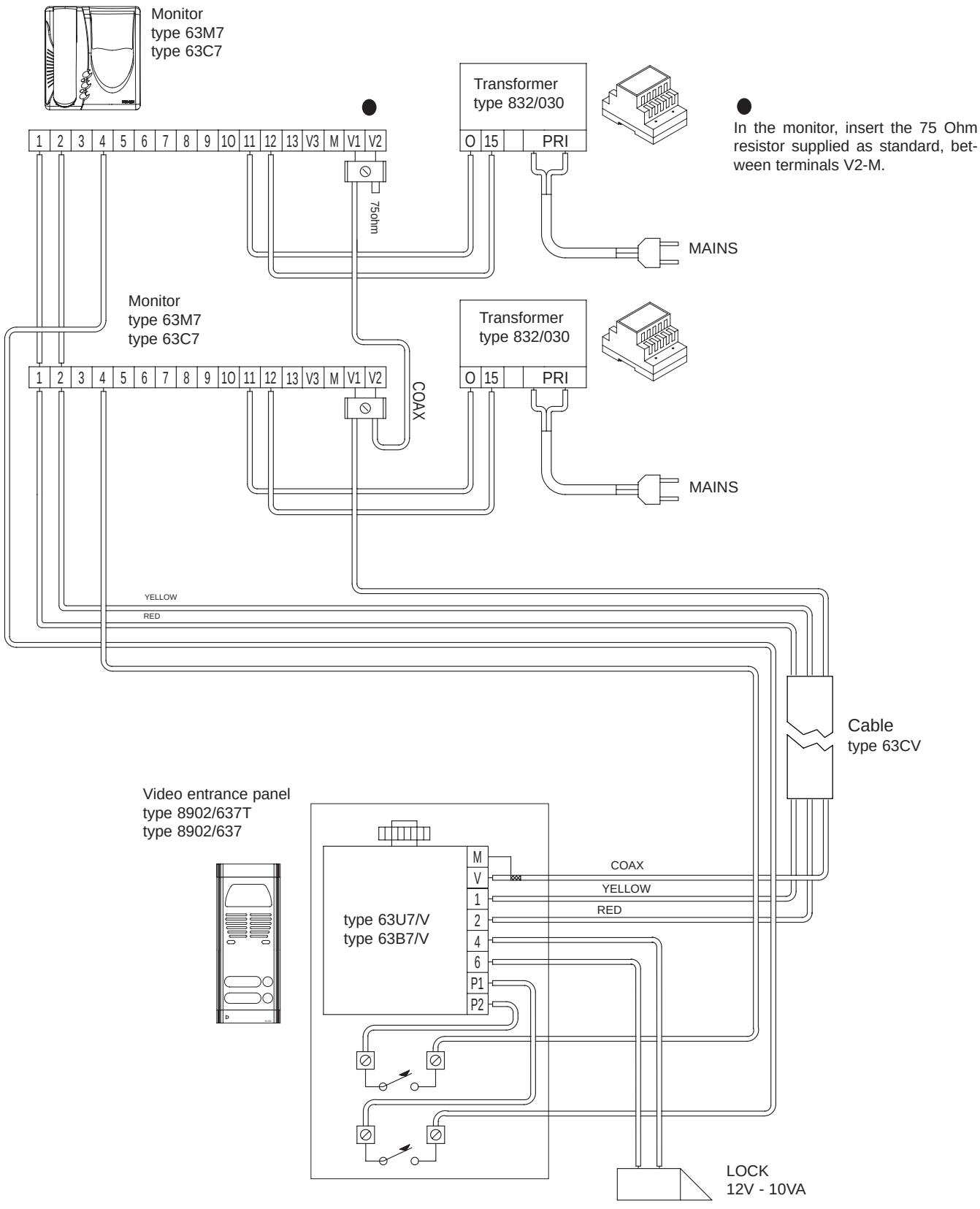
Connect entrance panel push-button according to wiring diagram.

WIRING DIAGRAM N° vc4250-1



Connect entrance panel push-button according to wiring diagram.

WIRING DIAGRAM N° vc2457



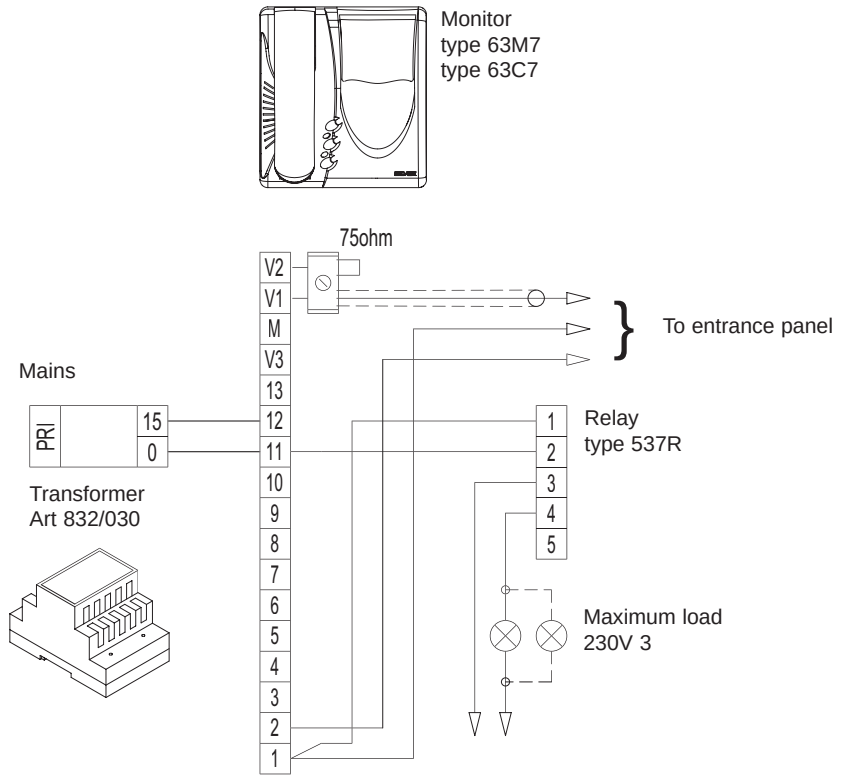
● In the monitor, insert the 75 Ohm resistor supplied as standard, between terminals V2-M.

WIRING DIAGRAM N° vc3845

VARIATION 66

Wiring diagram for relay type 537R onto 4-wire video kit, for switching on the auxiliary viewing zone illumination bulb.

N.B.
Relay type 537R remains energised all the time that the monitor is switched on.

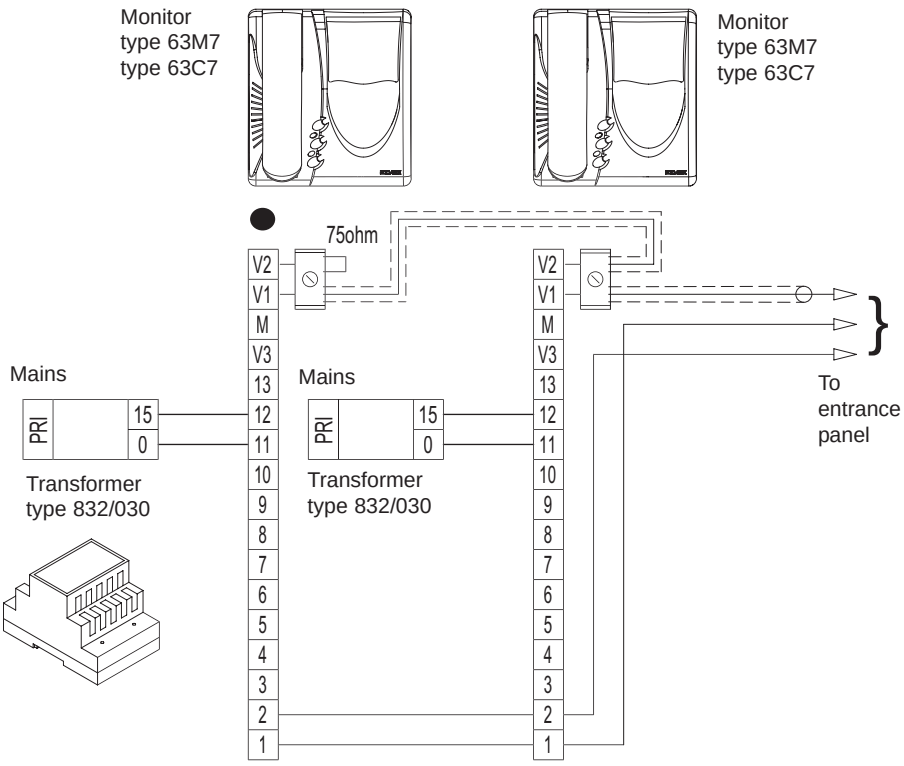


VARIATION 67

Wiring diagram for 4-wire video kit with additional monitor.

● In the last monitor insert the 75 Ohm resistor supplied, between terminals V2-M.

N.B.
Additional monitor type 63M7 or 63C7 is supplied on request.
It must be powered with its own transformer type 832/030.
The two monitors switch on simultaneously when called.



VARIATION 68

Wiring diagram for relay type 170/001 for switching on stair light.

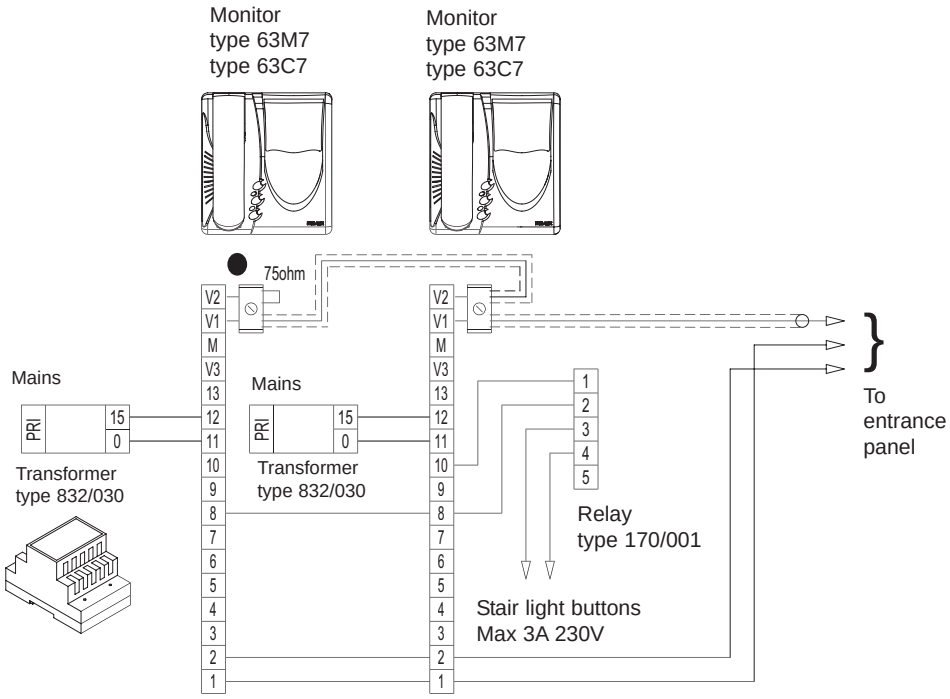
To switch on the stair light, press the push-button with the symbol . Maximum load to relay contacts, 230V 3A.

Relay type 170/001 must be connected to terminals 8 and 10 of the first monitor as shown in the diagram.

In the case of connection in parallel of two monitors, the connection of the relay to the second monitor must be made only with terminal 8.

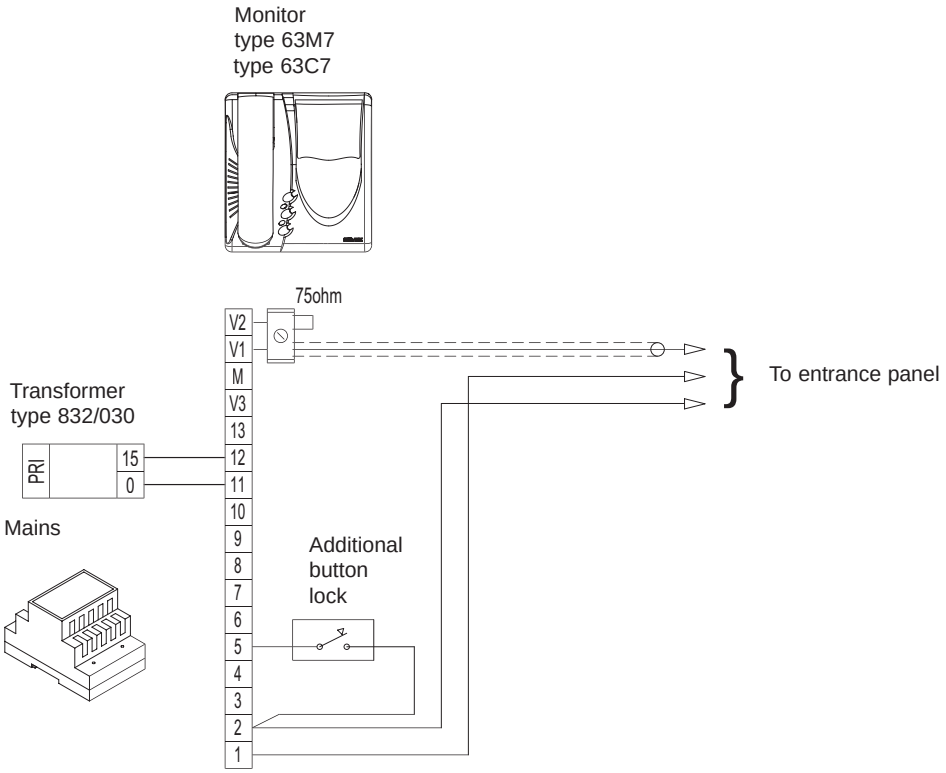
Remember that if you connect two monitors in parallel, it is necessary to power each monitor with a transformer art 832/030.

● In the last monitor insert the 75 Ohm resistor supplied, between terminals V2-M.



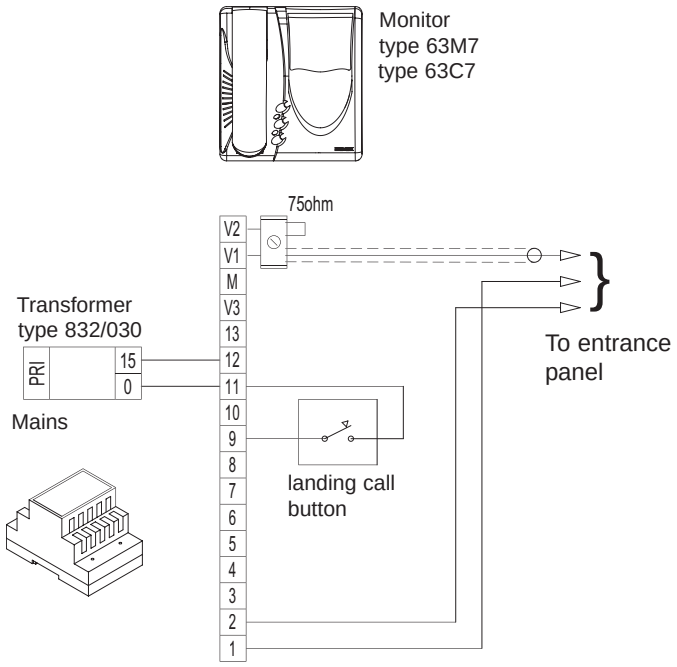
VARIATION 69

Connection of additional door lock release button.



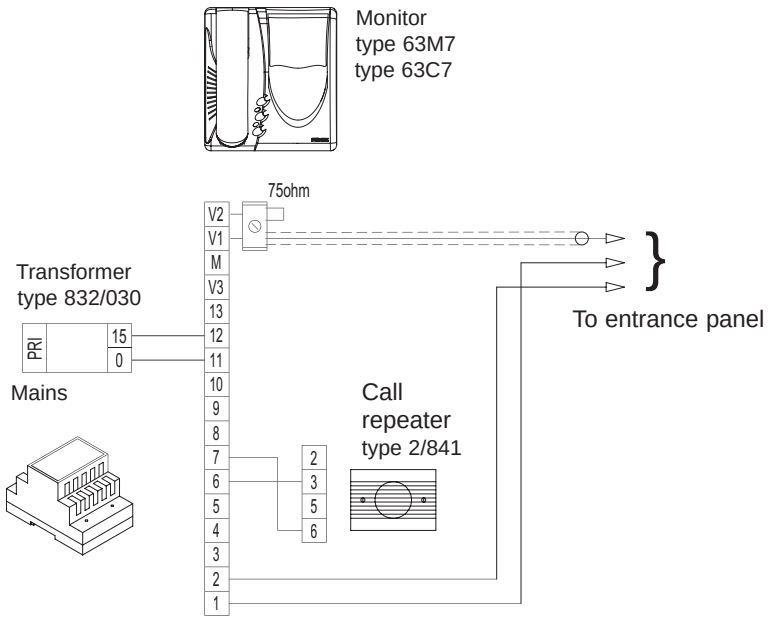
VARIATION 70

Connection of additional landing call push-button on 4-wire video entry unit kit.



VARIATION 71

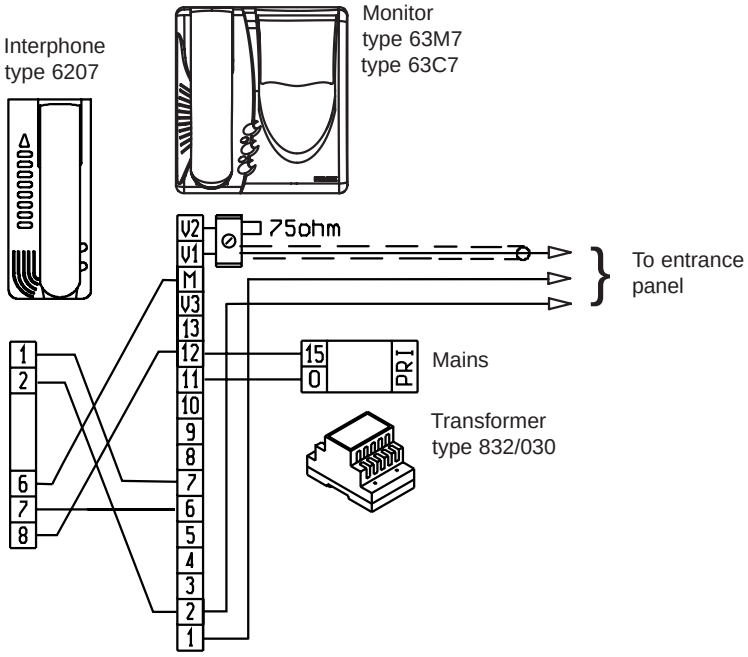
Connection of call repeater loudspeaker type 2/841 on 4-wire video door entry kit.



VARIATION 72

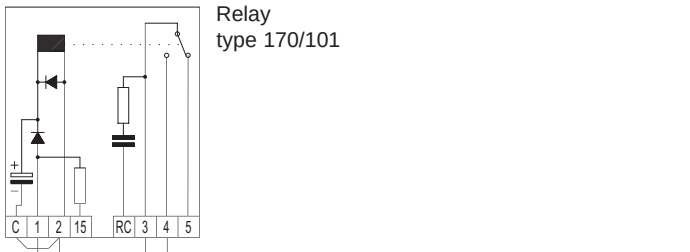
Wiring diagram for 4-wire video door entry kit with additional interphone.

N.B.
Additional interphone type 6207 is supplied on request.
Calls reach the interphone and the monitor simultaneously.

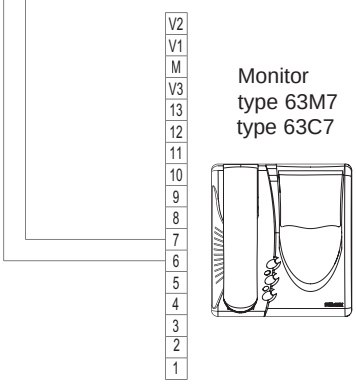


VARIATION 73

Connection of additional mechanical doorbells with relay type 170/101

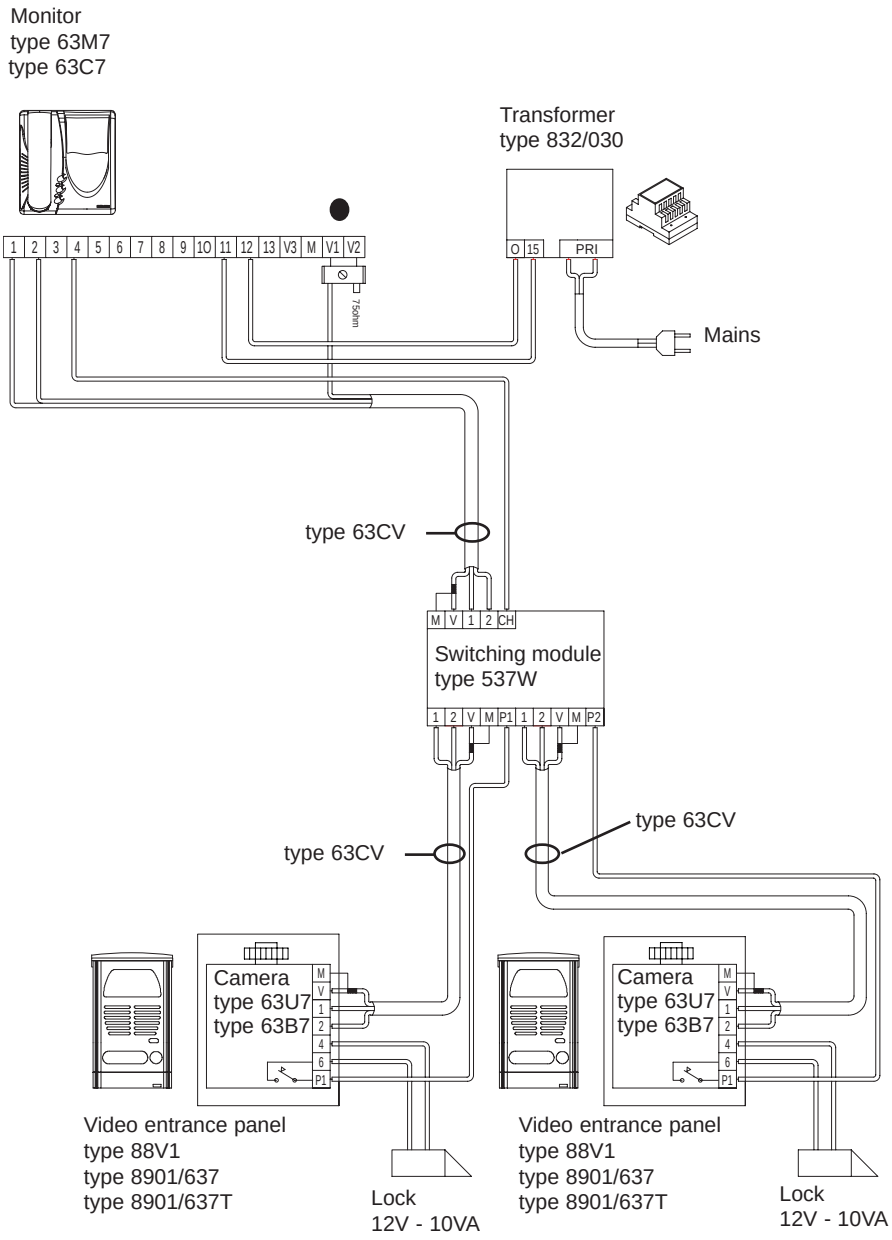


N.B. The relay must be installed near the monitor



VARIATION 74

WIRING DIAGRAM FOR MONITOR type 63M7 WITH TWO VIDEO ENTRANCE PANELS WITH CAMERAS type 63U7 OR 63B7.



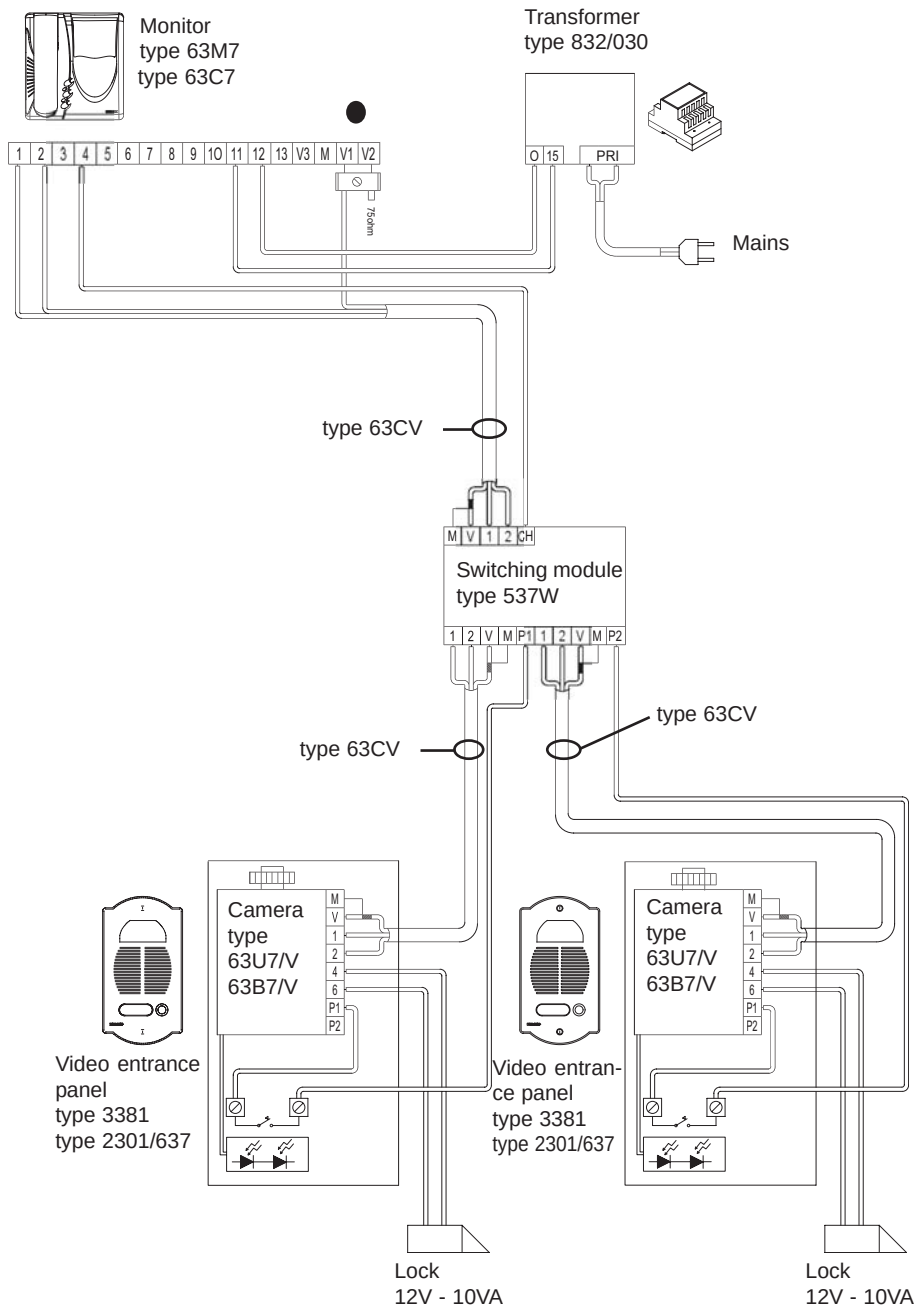
In the monitor, insert the 75 Ohm resistor supplied as standard, between terminals V2-M.

WIRING DIAGRAM N° vc4013-3

VARIANTE 75

WIRING DIAGRAM FOR MONITOR type 63M7 WITH TWO VIDEO ENTRANCE PANELS WITH CAMERA type 63U7/V O 63B7/V.

● In the monitor, insert the 75 Ohm resistor supplied as standard, between terminals V2-M.



WIRING DIAGRAM N° vc4013-4

OPEN VOICE AUDIO AND VIDEO DOOR ENTRY SYSTEMS

MINIMUM CONDUCTOR SECTION FOR STANDARD VIDEO DOOR ENTRY SYSTEM AND TWO-CHANNEL VARIATION WITH COAXIAL CABLE (in mm²)

Section type	Terminals	Ø up to 50 m.	Ø up to 100 m.	Ø up to 200 m.
a	0, 3, 12, 15, -, +, AS, S1 C1, C2, P1, P2, +T lock, calls	1 mm^2	1,5 mm^2	2,5 mm^2
b	Other	0,75 mm^2	1 mm^2	1,5 mm^2
Video	75 Ohm coaxial cable (type RG59) or RG11double insulation			

TECHNICAL FEATURES OF POWER SUPPLY type 6450

Power supply for all two-channel open-voice audio door entry systems with "SOUND SYSTEM" call facility.
It is a new power supply for intercom systems equipped with an electronic double tone generator which replaces conventional alternative calling with a buzzer or bell. The sound is emitted with two different tones thereby allowing the user to immediately identify the source of the call (main entrance, gate, garage, etc.). This feature provides economic and practical advantages since the use of several conventional sound emitting systems is no longer required; the signal is emitted from a single loudspeaker in the interphone.
The power supply can be used on installations without conversation privacy.

- 230V A.C. 50Hz supply (other voltages on request)
- 30VA maximum absorbed power.
- 15V rectified voltage 0.25A continuous duty for push-button illumination (3x24V 3W max)
- 15V A.C.door lock output: 1A intermittent service.
- Amplified electric audio door entry system.
- Interchangeable cards for quick maintenance.
- Removable terminal blocks.

N.B. This particular type of installation requires the use of the GALILEO series door entrance panels with speech units type 930A. The use of this type of speech unit allows the microphone to be located away from the loudspeaker, thus allowing a balanced adjustment on the audio.

PROTECTION OF POWER SUPPLY:
- Primary coil of transformer by PTC SIEMENS C850
- 1st. secondary coil for internal electronic supply by PTC SIEMENS C965
- 2nd. secondary coil for lock supply by PTC SIEMENS C945
- Electronic protection against overloads to speech unit.

ADJUSTMENTS

P2 - Volume adjustment of speech unit.
P3 - Activation time adjustment for electric lock.
N.B.: The electric door lock must operate by way of an intermittent cycle so that one operating period corresponds to 5 rest periods, thereby preventing the protection device from overheating (one period corresponds to the door lock activation time).

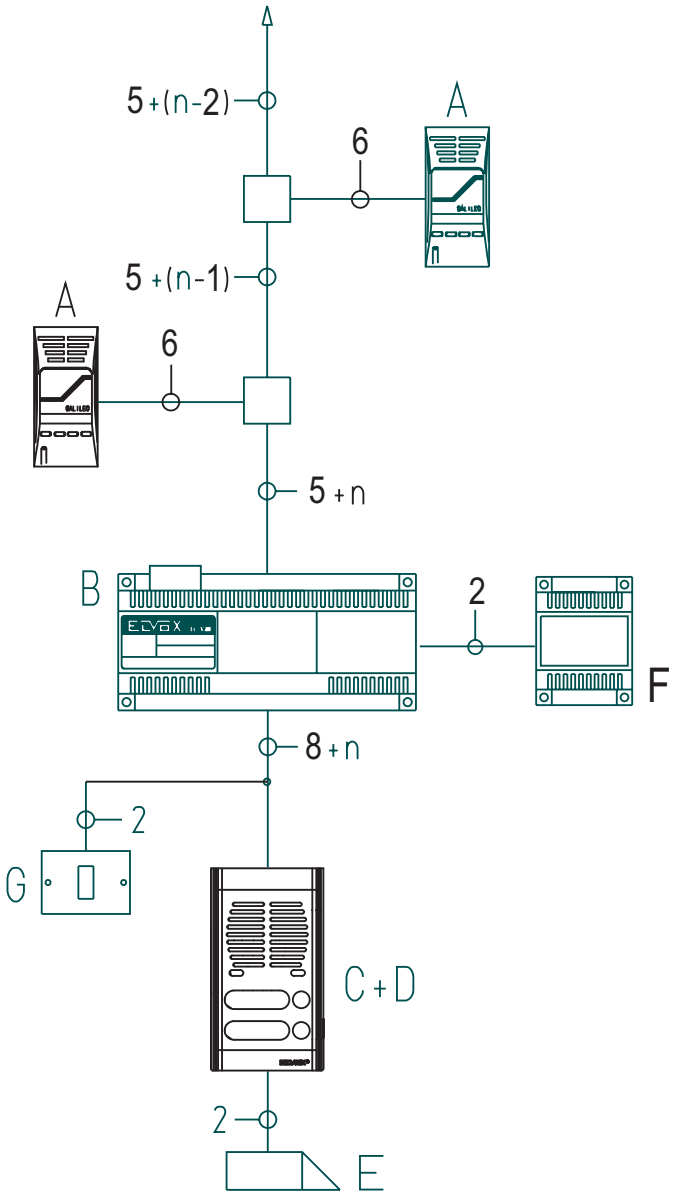
Dimensions type 6450: 208x135x72 - Weight: 1.4 Kg.

OPERATION

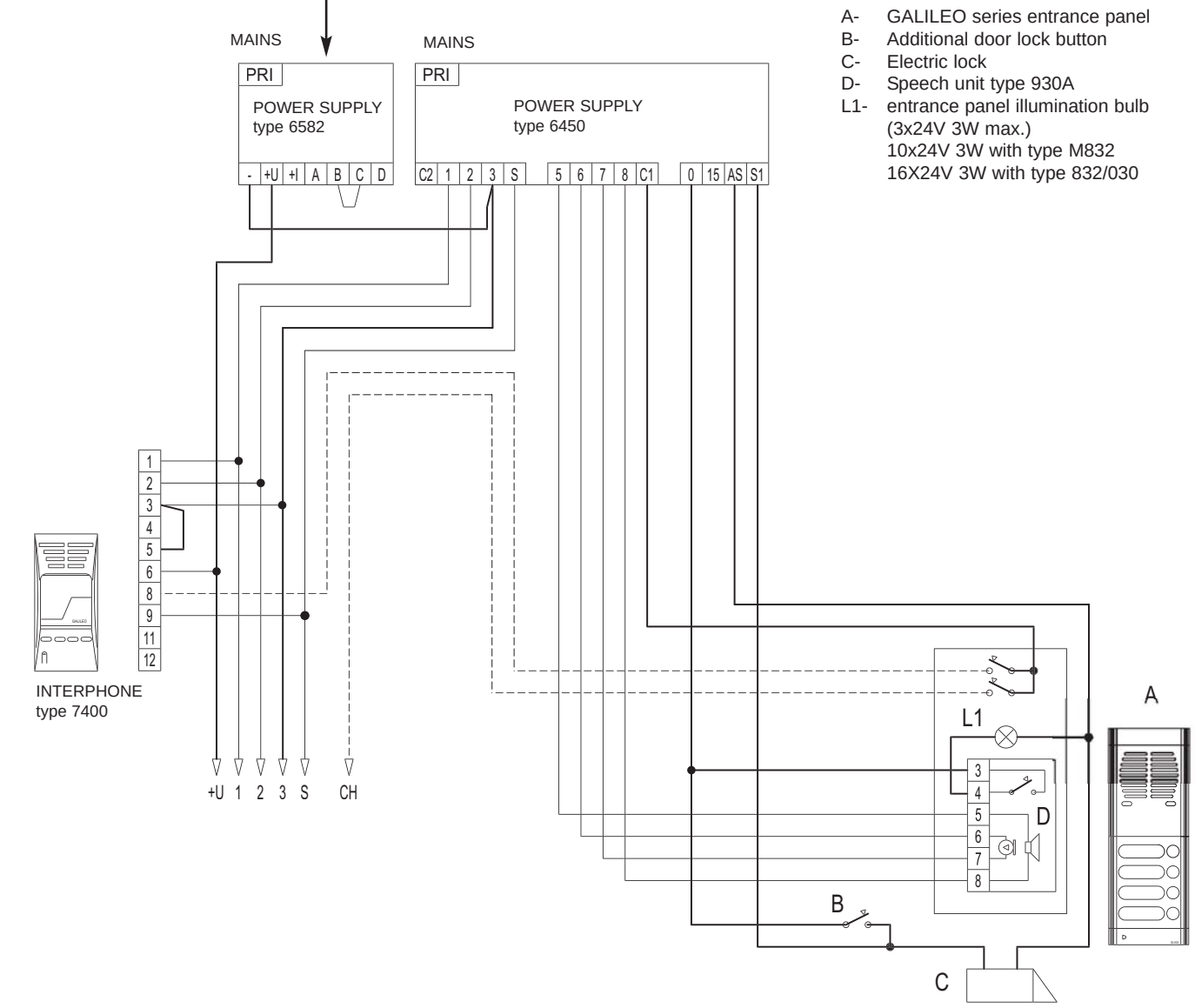
The audio door entry installation consists of one entrance panel with speech unit, one power supply and one or more interphones. When an entrance panel push-button is pressed, the ringtone rings in the corresponding apartment. To communicate with the speech unit, the user must press the push-button marked  until the end of the conversation.
If desired, the user may activate the door lock release push-button; in this case the door opening time may be varied from 1 to 30 seconds using the potentiometer P3.
When testing the installed system, use trimmer P2 to adjust the optimal volume of the speech unit.
The power supply is also equipped with a specific device to eliminate any buzzing on the voice circuit caused by the use of wires that are too long and/or too thin.
Push-buttons with name-tags are illuminated through output 0-15 on power supply. Up to a maximum number of 24V 3W bulbs can be connected. An additional transformer, type M832 or 832/030 is required for entrance panels with more than three bulbs.
Intercommunicating networks cannot be created.
Interphones to be used on these installations are type 7400.

LIST OF SYSTEM COMPONENTS

Diagram ref.	type	Denomination	Quantity
A	7400	Interphone	1÷n
B	6450	Power supply	1
C	GALILEO series	entrance panel	1
D	930A	Speech unit	1
E	-	12V ~ electric lock	1
F	6582	Power supply	1
G	-	Additional push-button for lock	1
n	-	Number of calls from entrance panel	1÷n

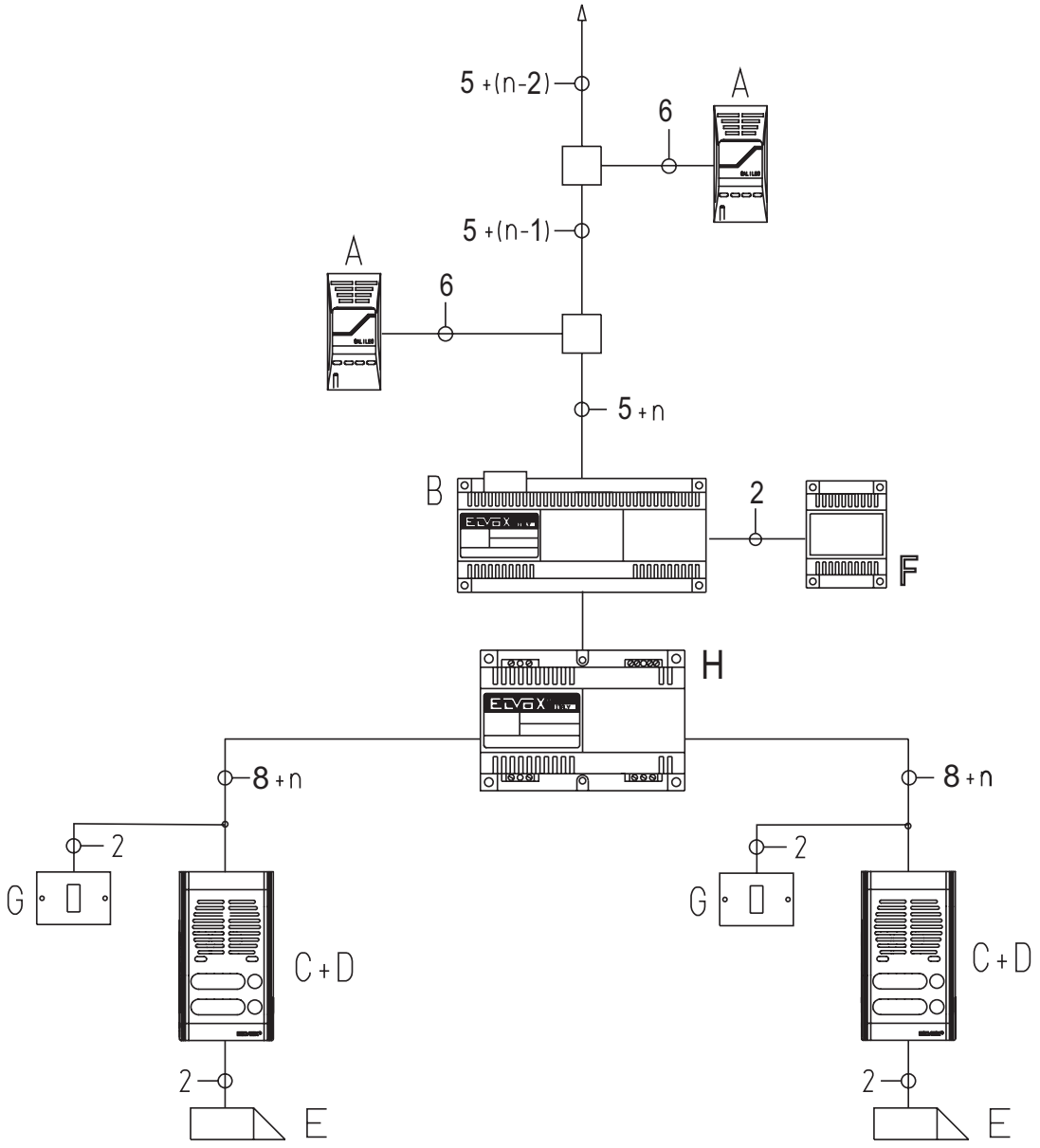


N.B. power supply type 6582 powers the ringtone OFF indicator LEDs on interphones type 7400.
The power supply can power up to 70 interphones; add another power supply type 6582 for the subsequent 70 interphones.

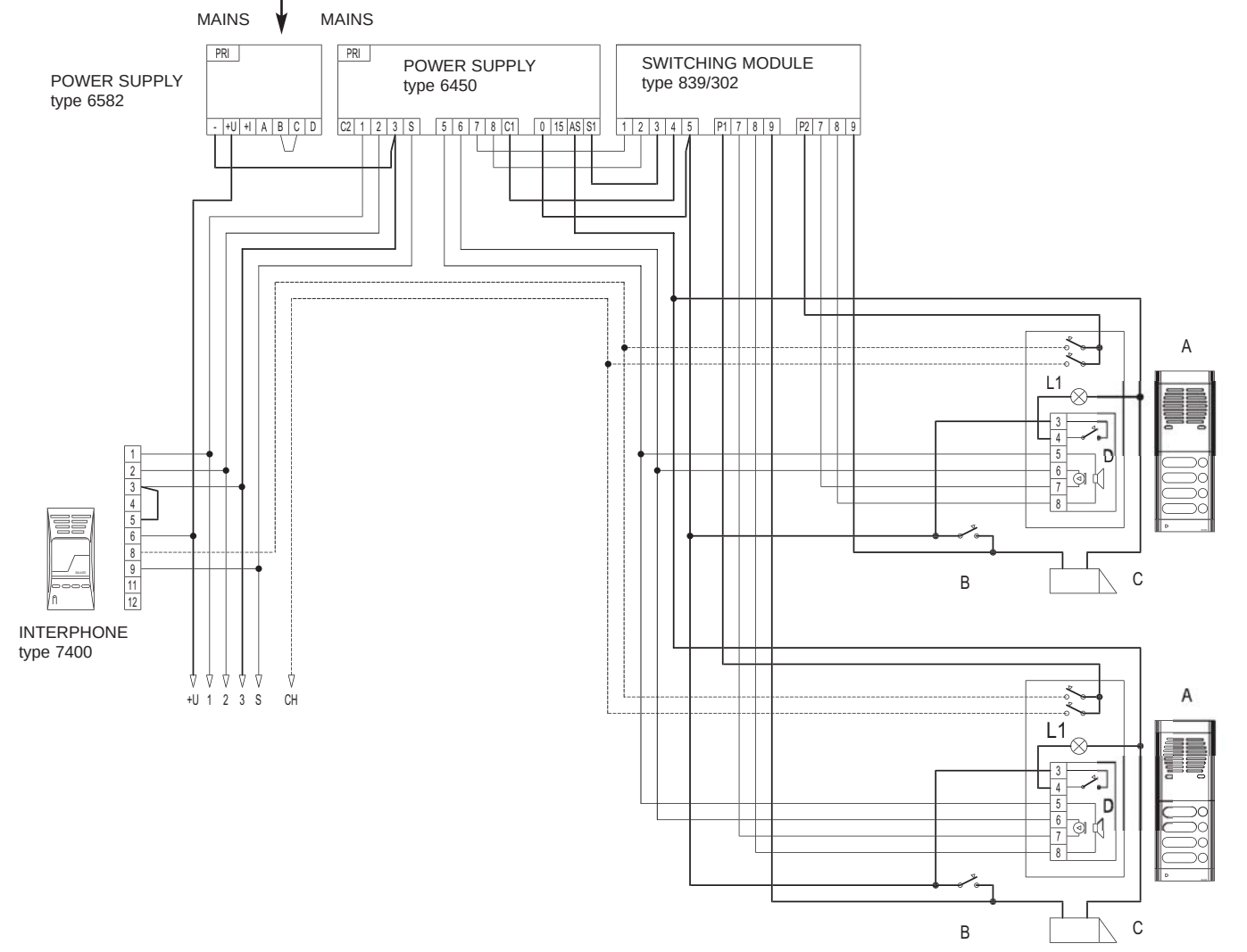


LIST OF SYSTEM COMPONENTS

Diagram ref.	type	Denomination	Quantity
A	7400	Interphone	1÷n
B	6450	Power supply	1
C	GALILEO series	entrance panel	1
D	930A	Speech unit	1
E	-	12V ~ electric lock	1
F	6582	Power supply	1
G	-	Additional push-button for lock	1
H	839/302-303	Switching module	1
n	-	Number of calls from entrance panel	1÷n



N.B. power supply type 6582 powers the ringtone OFF indicator LEDs on interphones type 7400.
The power supply can power up to 70 interphones; add another power supply type 6582 for the subsequent 70 interphones.



A- GALILEO series entrance panel
B- Additional door lock button
C- Electric lock
D- Speech unit type 930A
L1- Entrance panel illumination bulb
(3x24V 3W max.)
10x24V 3W with type M832
16X24V 3W with type 832/030

N° c3788R1

TECHNICAL SPECIFICATIONS OF POWER SUPPLY TYPE 6681

Power supply for all two-channel open-voice video door entry systems with “SOUND SYSTEM” call facility.
This new system is equipped with an electronic double tone generator “SOUND SYSTEM” which replaces conventional alternative calling with a buzzer or bell. The sound is emitted with two different tones thereby allowing the user to immediately identify the source of the call (main entrance, gate, garage, etc.). This feature provides economic and pratical advantages since the use of several conventional sound emitting systems is no longer required; the signal is emitted from a single loudspeaker in the interphone.
The power supply may be used on installations either with conversation privacy or without it. To create installations with conversation privacy use only monitor type 5651 and 5653 provided with this function.

- 230V A.C. 50Hz supply (other voltages on request)
- 60VA maximum absorbed power.
- 18V D.C. 0.8A monitor supply.
- 13V D.C. 0,3A camera supply.
- 15V rectified voltage 0.25A continuous duty for push-button illumination (3x24V 3W max)
- Door lock output: 15V D.C. 1A intermittent cycle
- Amplified electric audio door entry system.
- Timer and automatic disconnection device of monitor previously activated.
- Interchangeable cards for quick maintenance.
- Removable terminal blocks.

N.B.

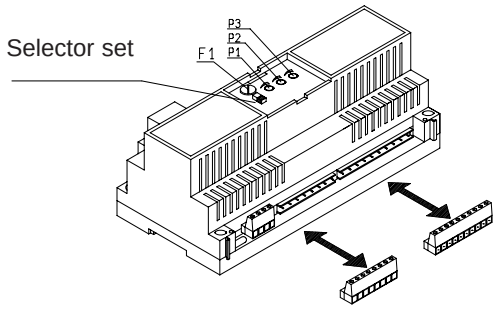
The particular type of installations requires the use of GALILEO series door entrance panels with cameras arts. 559A, 559A/1, 559B or speech unit type 930A. The use of this type of cameras or speech unit allows the microphone to be located away from the loudspeaker, thus allowing a balanced adjustment on the audio.

POWER SUPPLY OPERATING MODES

- Selector set A-B:
  Position A- Operation with “Sound system” call and rectified 0-15V output to prevent humming on the audio line.
  Position B- Operation with “Sound system” call and 0-15 V A.C. output

PROTECTION OF POWER SUPPLY:

- Primary coil of transformer by PTC SIEMENS C840
- 1st. secondary coil for internal electronic supply by F 3,15A 250V (F1) fuse.
- 2nd. secondary coil for lock supply by PTC SIEMENS C945
- Electronic protection against short-circuits and overloads on monitor cable riser.
- Electronic protection against overloads to outdoor unit.



Removable terminal block

ADJUSTMENTS

P1 - Activation time adjustment for monitor and camera.
P2 - Volume adjustment of speech unit.
P3 - Activation time adjustment for electric lock.
N.B.: The electric door lock must operate by way of an intermittent cycle so that one operating period corresponds to 5 rest periods, thereby preventing the protection device from overheating (one period corresponds to the door lock activation time).

Dimensions type 6681: 208x135x72 - Weight: 1.4 Kgs.

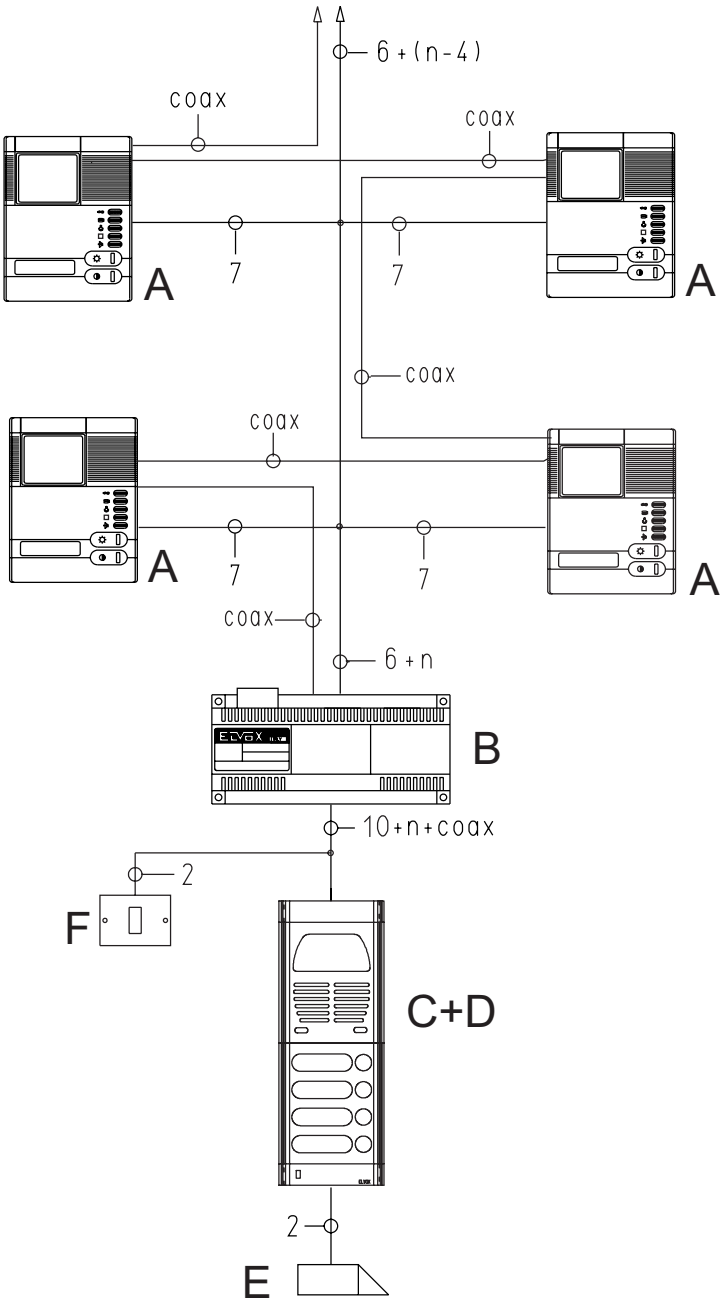
OPERATION

The video door entry installation consists of one camera and one speech unit entrance panel, one power supply and one or more monitors. When an entrance panel push-button is pressed, the ringtone rings in the corresponding apartment. Almost immediately the image of the caller appears on the monitor. The camera coverage area is illuminated by invisible infrared LED’S incorporated in the entrance panel. This illumination is not visible to caller.

To communicate with the outdoor speech unit, the user must press the push-button marked  until the end of the conversation.
The monitor switches off after a set time, thereby terminating any conversation in progress.
The system turns itself off automatically after a preset time, adjustable from 30 to 90 seconds using potentiometer P1 inside the power supply.
If the caller presses another user’s push-button, the previously called monitor is automatically disactivated without waiting for the end of the preset time.
If desired, the user may activate the door lock release push-button. In this case, door-opening time may be varied from 1 to 30 seconds using the potentiometer P3.
For simultaneous activation of two or more monitors, one extra power supply type 6582 must be installed for each additional monitor or type 6583 for more monitors.
A blocking circuit cuts off power to monitors if the line is overloaded or short-circuited. The power supply is also equipped with a specific device to eliminate any buzzing on the voice circuit caused by the use of wires that are too long and/or too thin. Push-buttons with name-tags are illuminated through output 0-15 on power supply. Up to a maximum number of three 24V 3W bulbs can be connected. An additional transformer, type M832 or 832/030 is required for entrance panels with more than three bulbs. Intercommunicating networks cannot be created.
Monitors to be used on this installation are type 5651, 5653, 7500.
These open voice monitors cannot be used with other models which do not belong to the dual channel open voice series monitors.

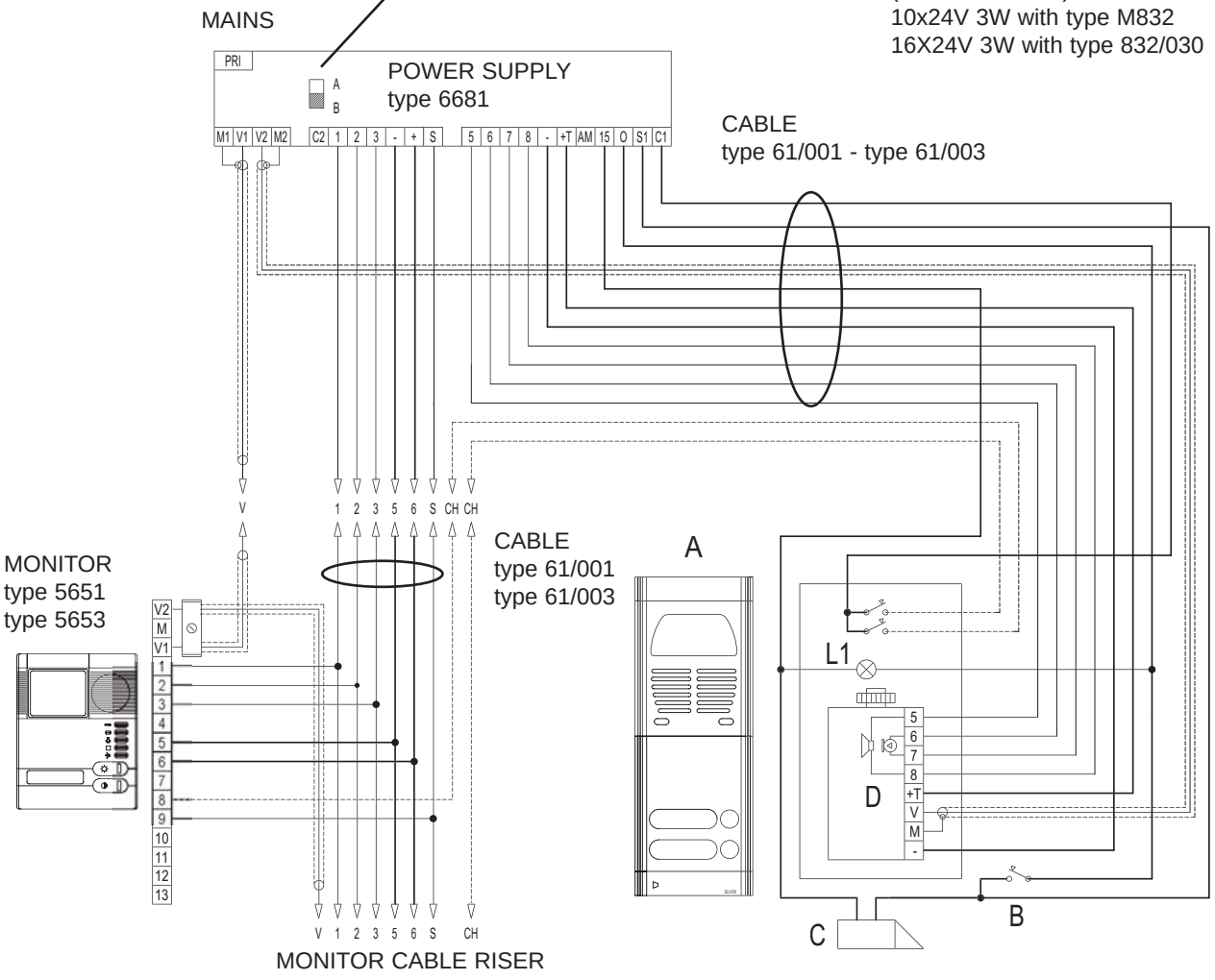
LIST OF ARTICLES REQUIRED FOR INSTALLATION (Diagram ref. VC3123)

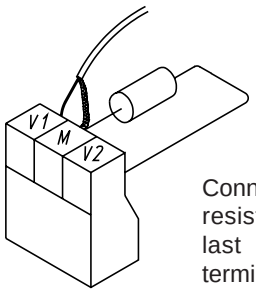
Diagram Ref.	Type	Name	Quantity
A	5651+ 5509, 5653 + 5509	Monitor + Back box	1÷n
B	6681	Power supply	1
C	series GALILEO	entrance panel	1
D	559A or 559B	Camera	1
E	-	Electric lock 12V ~	1
F	-	Additional push-button for lock	1
n	-	Number of entrance panel call	1÷n



N.B.
If a humming sound is detected on the phonic line, set slide switch "A-B" under the cover to position "A".

A- GALILEO series video door entry panel
B- Additional push-button for lock
C- Electric lock 12V~
D- Camera with speech unit type 559A, 559B
L1- Panel bulb (3x24V 3W max.)
10x24V 3W with type M832
16X24V 3W with type 832/030



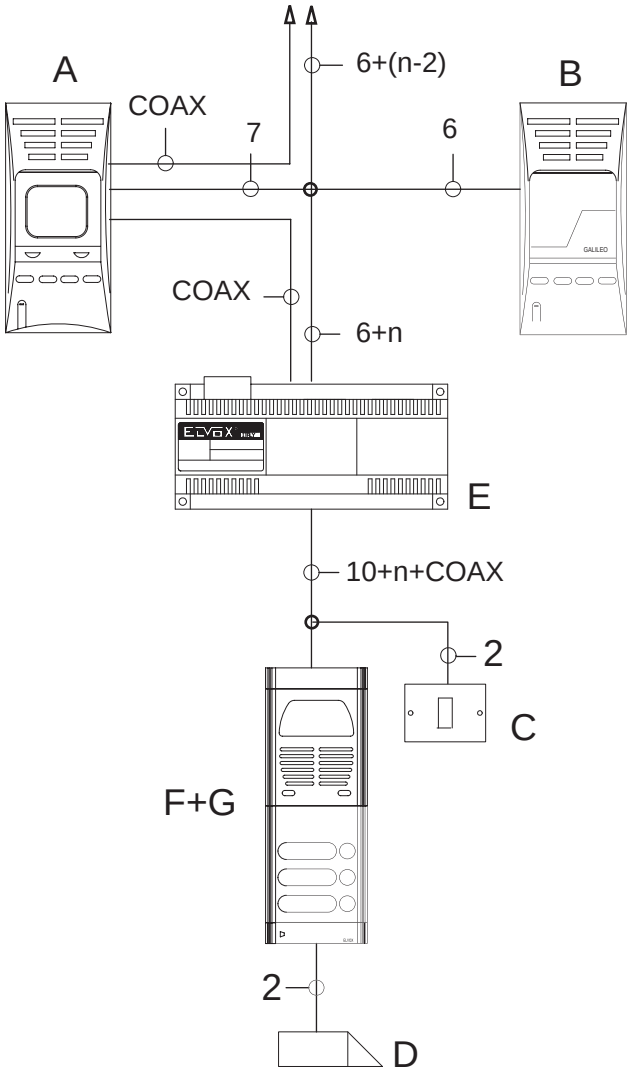


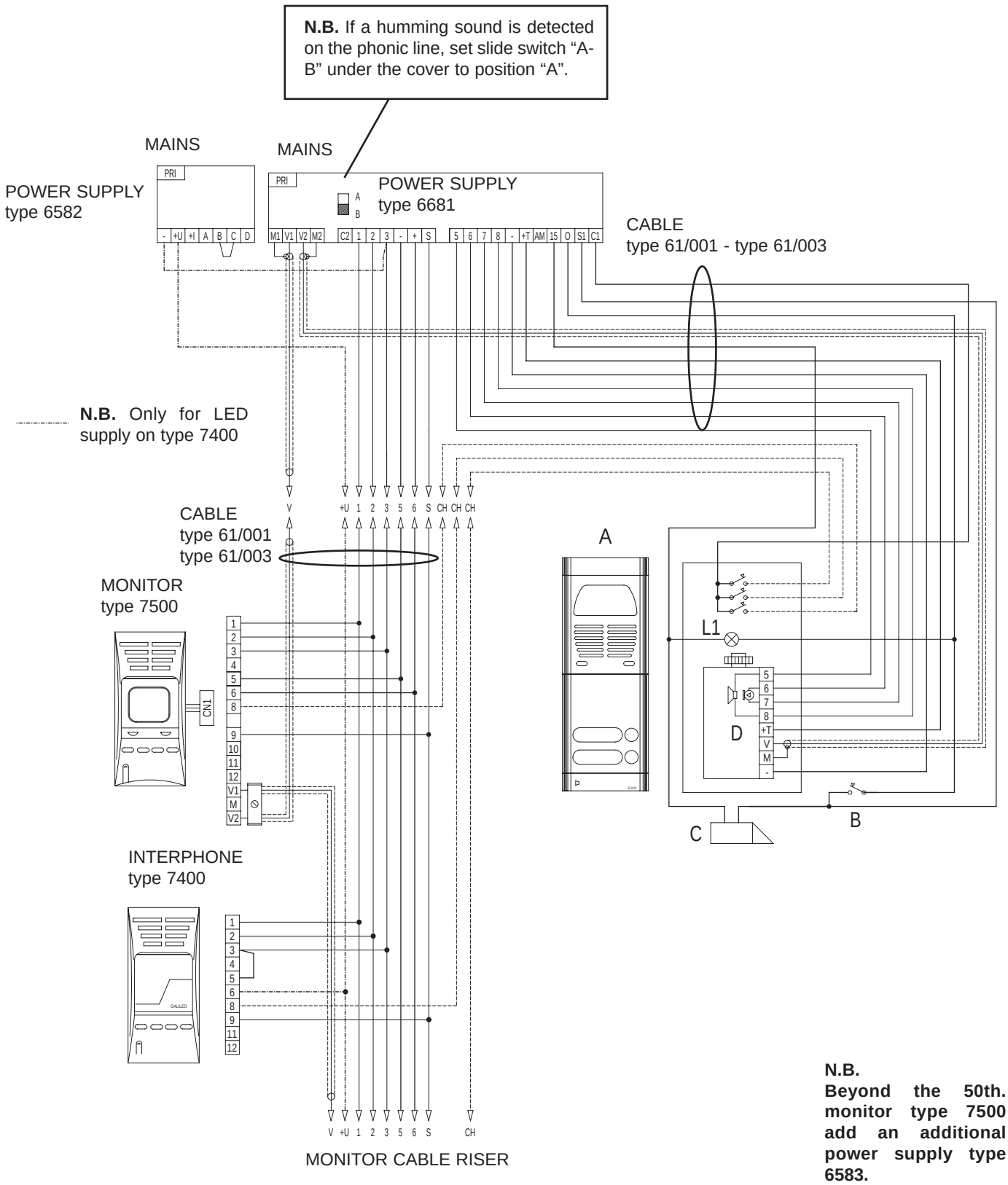
Connect the 75 Ohm resistor (provided) in last monitor between terminals V2-M.

DIAGRAM N° vc3123-1 R1

LIST OF ARTICLES REQUIRED FOR INSTALLATION (Diagram ref. VC3624)
Diagram

Ref.	Type	Name	Quantity
A	7500	Monitor	1÷n
B	7400	Interphone	1÷n
C	-	Additional push-button for lock	1÷n
D	-	Electric lock 12V ~	1
E	6681	Power supply	1
F	series GALILEO	Entrance panel	1
G	559B	Camera	1
n	-	Number of entrance panel call	1÷n





N.B.
Beyond the 50th. monitor type 7500 add an additional power supply type 6583.

Connect the 75 Ohm resistor (provided) in last monitor between terminals V2-M.

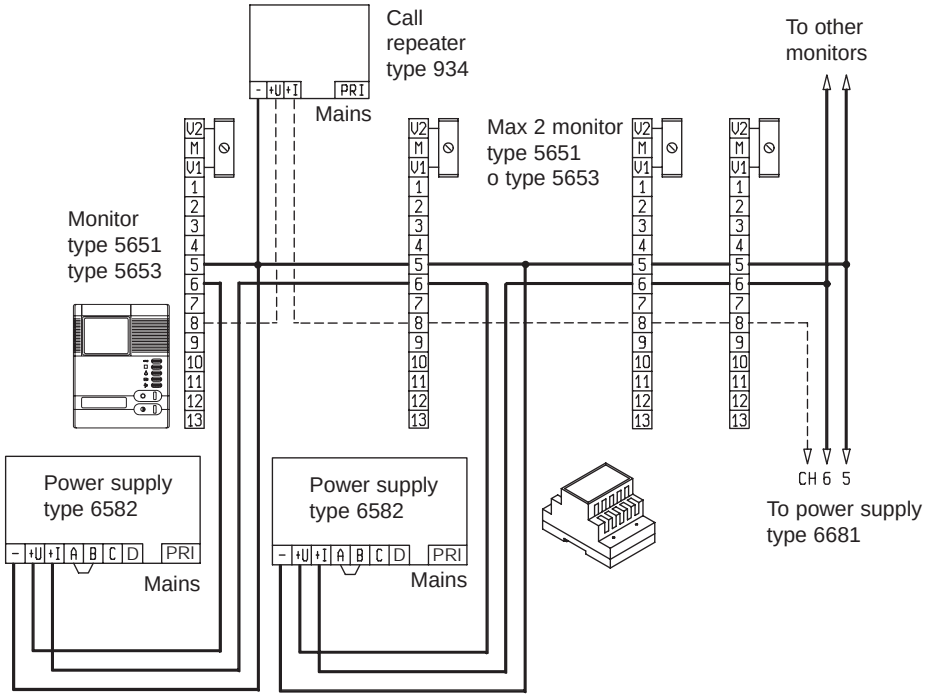
A- GALILEO series video door entry panel
B- Additional push-button for lock
C- Electric lock 12V~
D- Camera with speech unit type 559B
L1- Panel bulb
(3x24V 3W max.)
10x24V 3W with type M832
16X24V 3W with type 832/030

DIAGRAM N° vc3624R2

VARIATION 76

Wiring diagram with simultaneous switch-on of two or more monitors type 5651, 5653 with power supply type 6582.

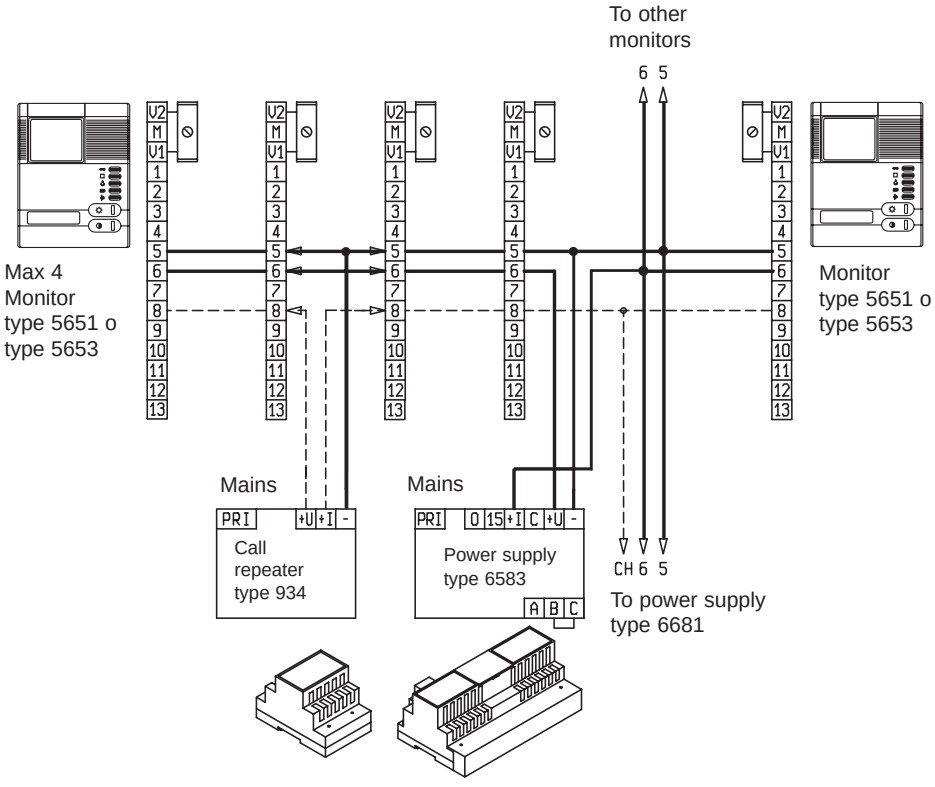
The power supply type 6681 can power two monitors type 5651, connected as shown in the diagram.
If more than two monitors are to be switched on simultaneously, it is necessary to use an additional power supply type 6582 for every two monitors.



VARIATION 77

Connection with simultaneous switch-on of two or more monitors with power supply type 6583.

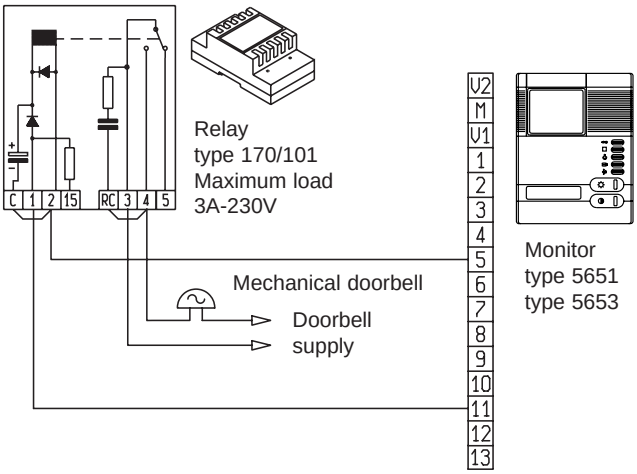
When 2 or more monitors need to be switched on simultaneously, it is possible to connect a single power supply as shown in the diagram. A maximum of 4 monitors type 5651 or 5653 may be connected together.

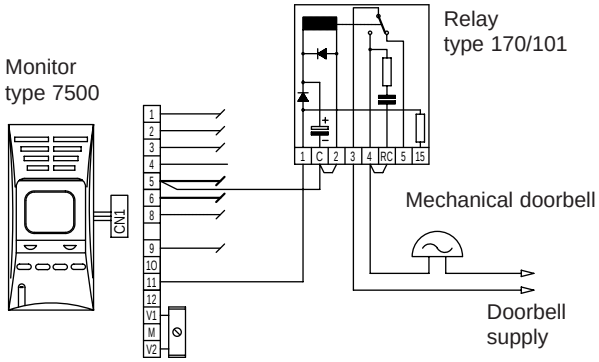


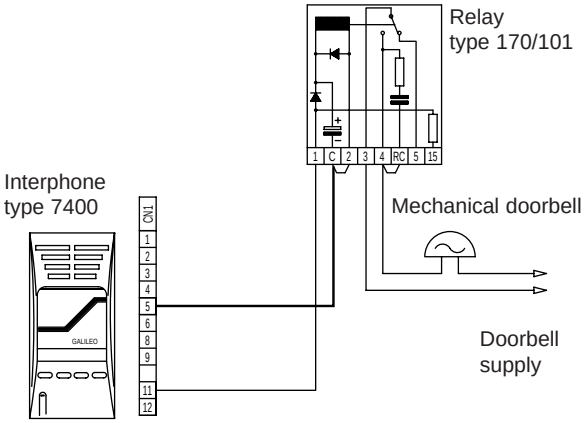
VARIATION 78

Wiring diagram for additional mechanical doorbells.

You can connect additional doorbells operating at 12V A.C. by using relay type 170/101 connected as shown in the diagram.



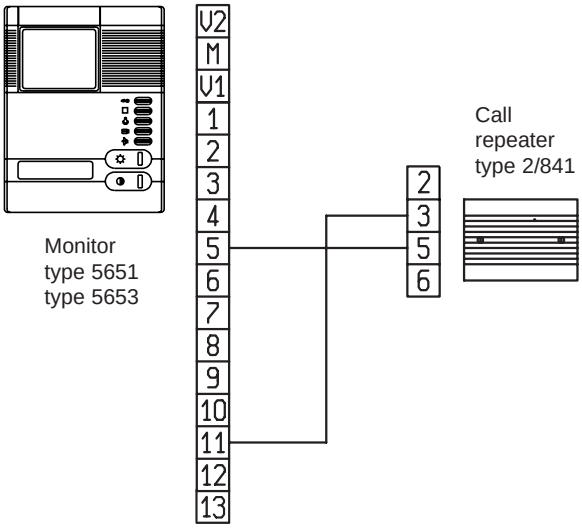


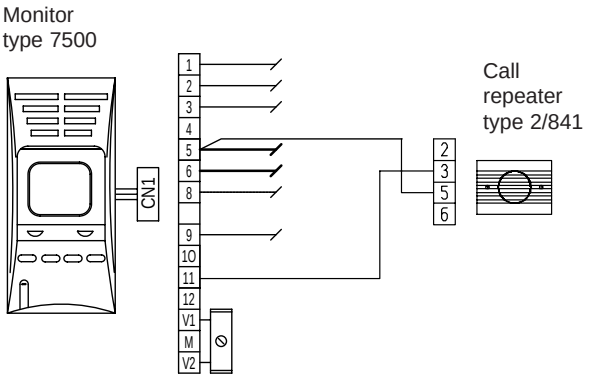


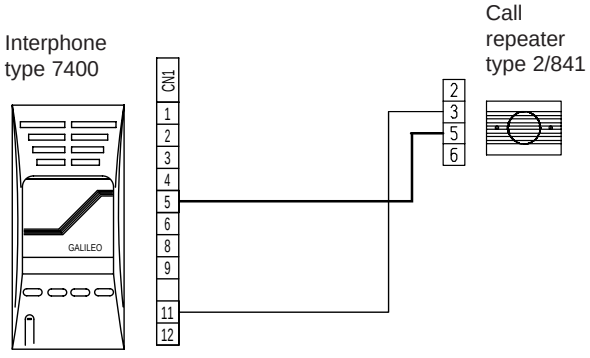
VARIATION 79

Connection of call repeater type 2/841.

Loudspeaker module type 2/841 repeats the sound of the monitor without changing its tone.

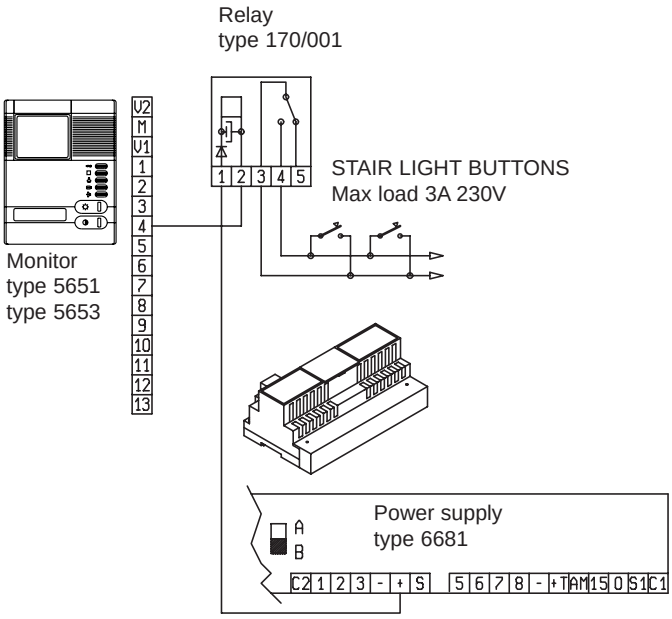


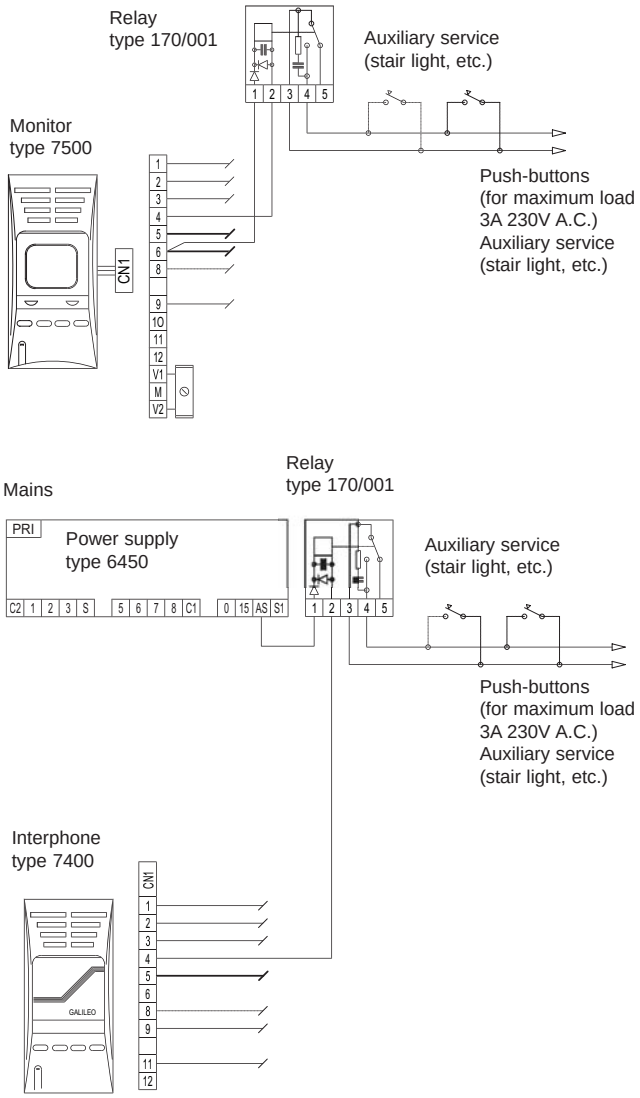




VARIATION 80

Wiring diagram for switching on the stair light by means of relay type 170/001.





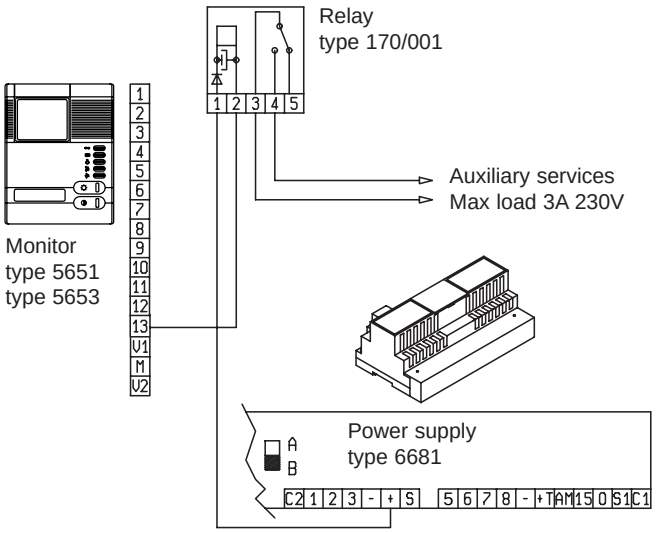
N.B.
To switch on the stair light, press the push-button with the symbol . The capacity of the contacts of the monitor push-button is 24V 0.5A D.C./A.C. max.

VARIATION 81

Connection of 2nd additional push-button in monitors for activating auxiliary services.

To activate the auxiliary service, press the push-button with the symbol .

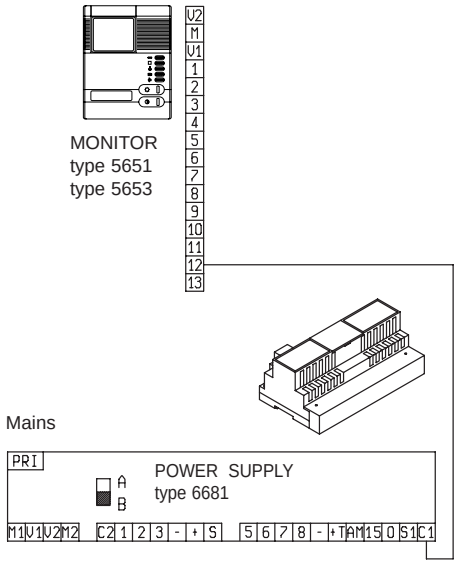
N.B. The capacity of the contacts of the monitor push-button is 24V 0.5A D.C./A.C.

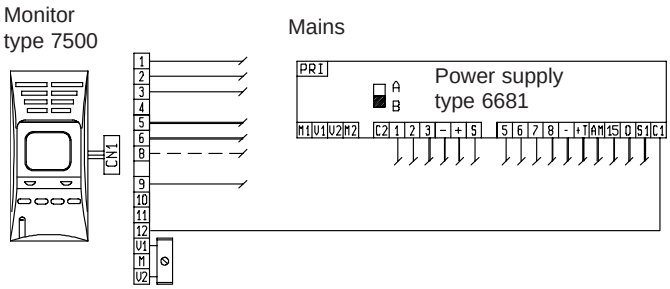


VARIATION 82

Connection of push-button for monitor activation.

It is possible to activate the video door entry system from the monitor by using push-button with symbol; see diagram for connection.
N.B. The monitor ringtone is also activated.





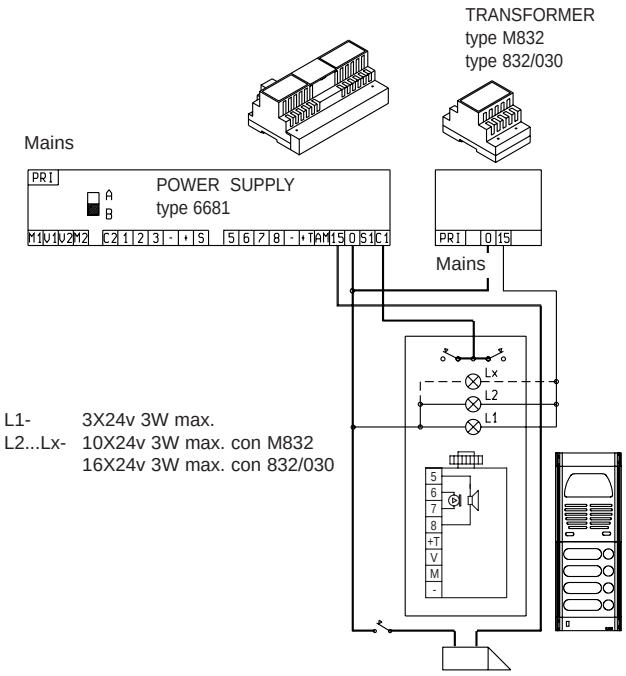
N.B.

The push-button marked with the symbol is used only for the automatic activation of the system and cannot be used for other purposes.

VARIATION 83

Connection of transformer type M832-832/030 to be fitted on entrance panels with several bulbs for name-tag lighting.

This transformer must be used when there are more than three bulbs

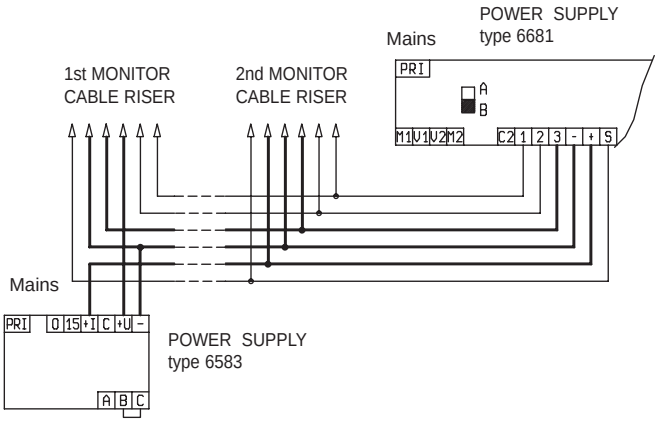


L1- 3X24v 3W max.
L2...Lx- 10X24v 3W max. con M832
16X24v 3W max. con 832/030

VARIATION 84

Connection of power supply type 6583 on installations with considerable voltage drop on power line "+ -".

Power supply type 6583 may be connected as shown in the diagram in case of long supply lines where power voltage on the line wiring to the monitors (+ -) is less than 15V D.C. between terminals 5-6. The unit can supply 18V D.C. 2A with intermittent operation.



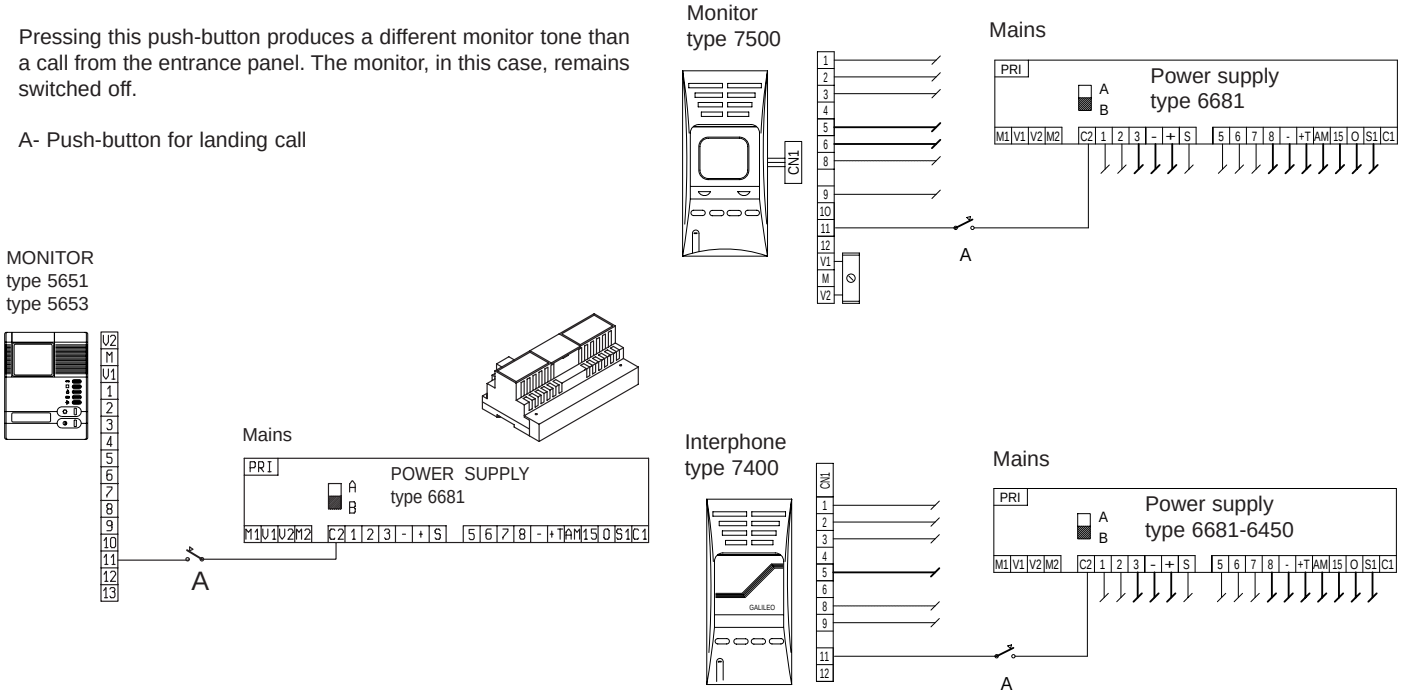
N.B. Position the shunt in "B-C"

VARIATION 85

Connection for landing call push-button.

Pressing this push-button produces a different monitor tone than a call from the entrance panel. The monitor, in this case, remains switched off.

A- Push-button for landing call



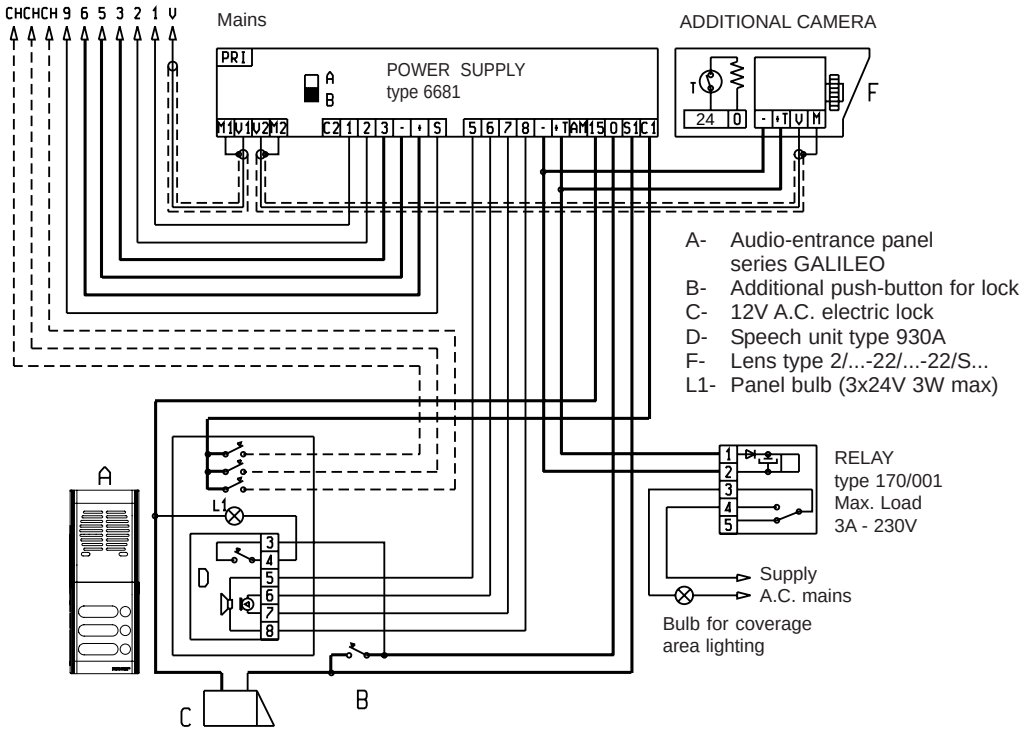
VARIATION 86

Connection of camera separate from entrance panel with speech unit and additional bulbs for camera coverage lighting.

A panel with speech unit only and a separate camera type 5000-5020-5A20-5B20-5A10-5B10-5C10 may be connected instead of a video entrance panel. Bulb must be connected as shown in diagram.

N.B.
Luminous push-button connected to terminals 3 and 4 of speech unit type 930A, may be used to switch on panel bulbs briefly as shown in the diagram. A timer may be used for longer activation or for stair-lighting. 0,5A-24V A.C. maximum load.

MONITOR CABLE RISER

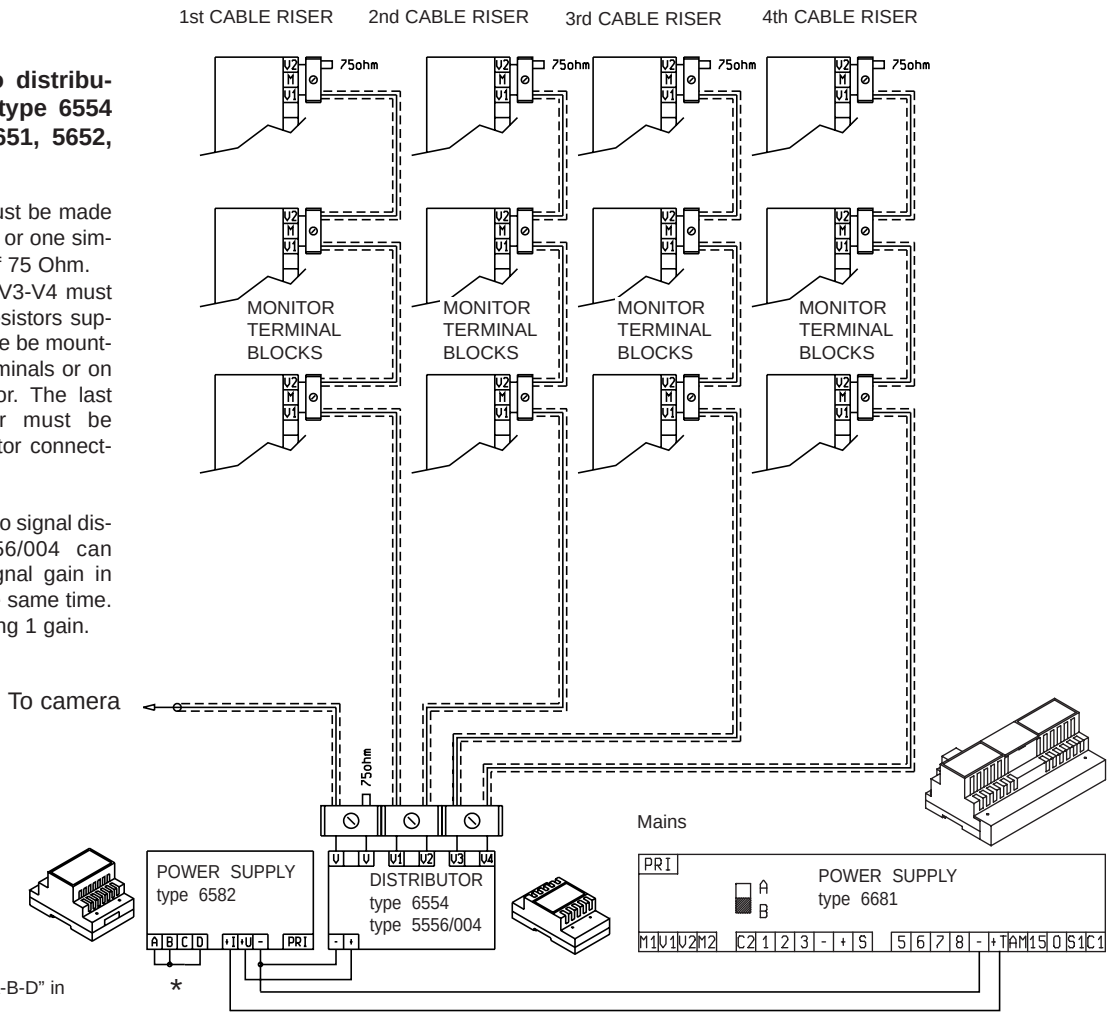


VARIATION 87

Connection of video distributor type 5556/004 or type 6554 on monitor type 5651, 5652, 5653.

The video connection must be made using a RG59 type cable or one similar with an impedance of 75 Ohm.
All video outputs V1-V2-V3-V4 must be loaded by 75-Ohm resistors supplied. They must therefore be mounted on unused output terminals or on terminal V2-M of monitor. The last video signal distributor must be loaded by 75-Ohm resistor connected to unused terminal V.

N.B. Trimmer P1 in video signal distributor type 5556/004 can increase video signal gain in every output at the same time. Manufacturer setting 1 gain.



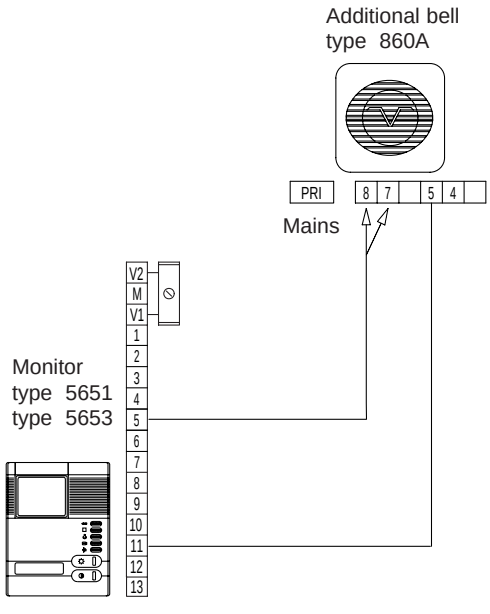
*

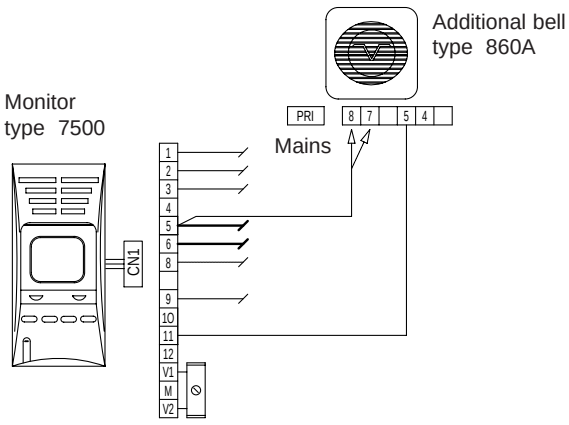
N.B. Position the shunt in "A-B-D" in power supply type 6582.

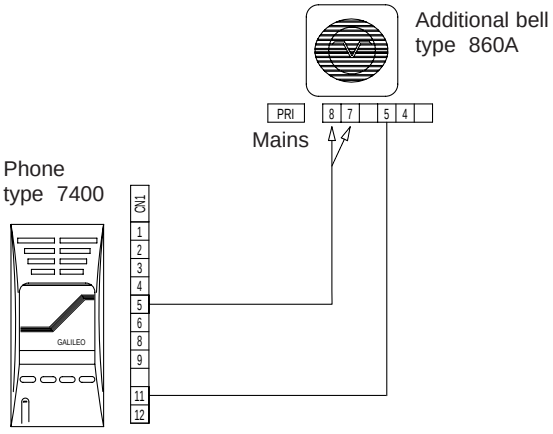
VARIATION 88

Wiring diagram of additional electronic ringtone type 860A.

N.B. Electronic ringtone type 860A features a two or three-note ringtone which is selected by connection to the corresponding terminal (7 or 8). The ringtone is powered by the mains voltage.



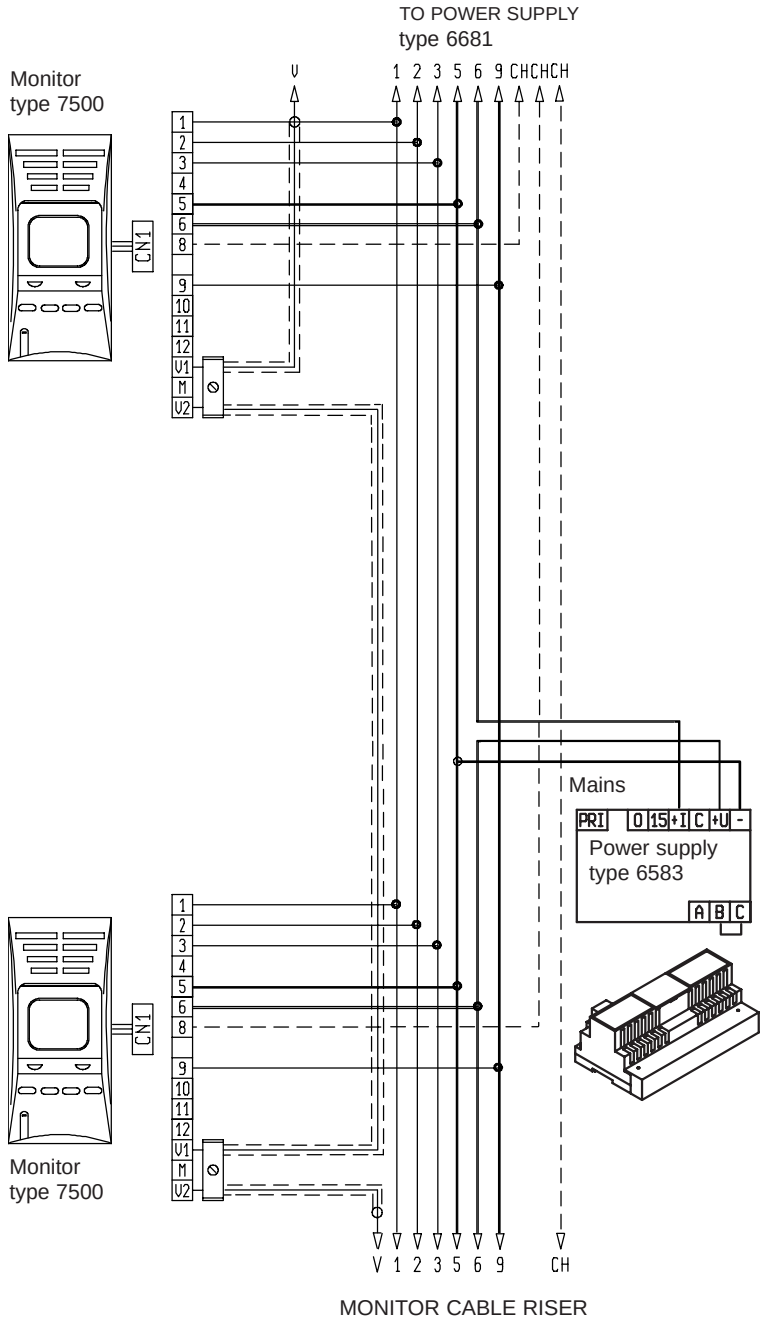




VARIATION 89

Connection for more than 50 monitors type 7500.

Beyond the 50th. monitor type 7500 add an additional power supply type 6583.
Type 6583 allows the supply of a further 100 monitors.



Notes: