ELVOX®

Communicating in style

- VIDEO DOOR ENTRY SYSTEMS
- AUTOMATIC GATE SYSTEMS
- TELEPHONE SYSTEMS
- C.C.T.V.

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TWO WIRE ELVOX

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INTRODUCTION

This manual covers audio and video door entry systems and products with Two-Wire technology. The system's main characteristics are listed below.

- Audio and video door entry units available in the Petrarca, Giotto, 6600, 8870 series and entrance panels in the Galileo and Patavium series.
- All the elements of the system (audio, video, entry panels, power supplies) are connected by a twisted non-polarized 2 wire BUS system.
- Video door entry systems are recommended to have the ELVOX twisted cable type 732H, supplied in reels of 50, 100 and 500 metres (art. 732H/50, 732H/100, 732H/500).
- Up to a total of 200 users, audio and video.
- Up to 15 entry panels, audio and video.
- Maximum distance between the two appliances farthest apart (audio/video door entry units and entrance panels) is 150 m.
- For single and multiple residence systems, including single buildings and building complexes (up to 16 independent column pillars).
- Audio and video door entry systems with confidential conversation.
- System for sending calls to the audio/video door entry unit with conventional push-buttons or with codes from 3 or up to 4 or even 8 digits.
- Makes intercom calls between all the system's audio and video door entry units or between groups of audio and video door entry units.
- The door call is standard with no need to add any supplementary devices.
- Possibility of connecting supplementary ringtone units in parallel with the audio/video door entry unit or remote ringtone units that can be activated via programmable relays.
- Ringtone differentiated by external entrance panel, door and intercom calls.
- Ringtone mute option with luminous status indicator ,as standard on Giotto and 6600 video door entry units.
- Luminous indicator for door/gate open, as standard on Giotto and 6600 video door entry units.
- Manages up to 16 auxiliary functions in the same system, via programmable relays.
- Audio and video door entry panels in the modular Galileo version. 2 basic modules, expandable with supplementary modules.
- Audio and video door entry panels in the Patavium version, expandable with supplementary entrance panels.
- The audio and video entry panels are available with conventional push-buttons or with a keypad and an alphanumerical display and electronic phone book (with 2 rows of 16 characters). Each user can be associated with two names comprising 1 row of 16 characters.
- Each single user can be connected to a dedicated audio or video entry panel, up to a maximum total number of 15 entry panels in the system.
- The same call can be routed to several devices simultaneously, up to a maximum of 8.
- Video door entry units connected in groups can be activated in two ways: switching on the master video door entry unit only (without local additional power supplies) or simultaneous activation of the units (with local additional power supplies).
- Individual programming of audio and video door entry units to activate the auxiliary functions of a specific entrance panel or of a generic entrance panel.
- Simple programming by means of the entrance panel and video door entry unit buttons. Advanced programming with the aid of a programmer or personal computer.
- Self-start/self-activation of entrance panels from audio and video door entry units.

Articles	Description
Petrarca series audio door entry units	
6209	PETRARCA series thermoplastic wall-mounted audio door entry unit with loudspeaker for electronic calls and screws for mounting on a vertical rectangular box or with plugs. Desktop installation requires use of the conversion kit. Audio door entry unit with microcontroller supplied as standard with 3 push-buttons for the functions: lock opening, self-start/activation and auxiliary service (stair light). Facility for insertion of a further 6 push-buttons and accessories for auxiliary services and intercom calls. Dimensions: 89x226x65 mm.
Accessories	
6152	Pack of 8 additional buttons (normally open) for fitting on audio door entry unit art. 6209.
692P	Pair of push-buttons for activating additional functions and intercom calls. For installation on audio door entry unit art. 6209.
692P/M	Pair of normally open push-buttons with terminals for activation of external devices. For installation on audio door entry unit art. 6209.
692P/R	Pair of push-buttons with terminals for activating additional functions from the outside with remote push-buttons, for use with audio door entry unit art. 6209.
615N	Strip of 8 anthracite grey keys for audio door entry unit models art. 6209.
6153/682	4-position switching module. Used in audio door entry unit art. 6209 for setting the call volume to one of three levels or muting. The latter state is indicated by means of a red LED. To 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.
6140	Desktop conversion kit: standard colour white, with 2 metres of 6-conductor cable and equipped with fixed terminal block.
6A40	Desktop conversion kit: white standard colour, with 2 metres of 16-conductor cable and equipped with socket with removable plug.
Petrarca series monitors	
6009	Monitor with 4” screen, black/white, low profile, PETRARCA series, made of thermoplastic material, with connector for fast wiring to audio door entry unit art. 6209. Wall-mounted or desktop installation requires the relative fixing brackets or conversion kit. Dimensions: 135x226x45 mm.
6009/C	Monitor with colour LCD 4” screen, low profile, PETRARCA series, made of thermoplastic material, with connector for fast wiring to audio door entry unit art. 6209. Wall-mounted or desktop installation requires the relative fixing brackets or conversion kit. Dimensions: 135x226x45 mm.
Accessories	
6145	Wall fixing bracket for combined audio door entry units (art. 6209) and monitors (6009-6009/C).
6142	Desktop conversion kit for combined audio door entry units (art. 6209) and monitors (6009-6009/C). Complete with 2 metres of 12-conductor cable + 1 coaxial equipped with socket and removable plug.
692T	Additional power supply for desktop base kits art. 6142 and 6A42. It is used in the event of connections of several monitors in parallel with simultaneous activation or on very long connection lines with significant voltage drops. Supplied with white power cable. Power supply 230 VAC.
8870 series audio door entry units	
8879	8870 series thermoplastic wall-mounted audio door entry unit with loudspeaker for electronic calls, screws for mounting on a vertical rectangular box or with plugs, the microcontroller is supplied as standard with 2 buttons for the functions: unlocking and auxiliary service (stair lights). Dimensions: 75x220x60 mm.
Giotto series video door entry units	
6309	GIOTTO series surface wall-mounted video door entry unit made of thermoplastic material, with black/white, low profile 4” screen, microcontroller, handset. Supplied with fixing bracket with terminal block, loudspeaker for electronic calls and three push-buttons (door lock release, self-start and auxiliary functions), call volume setting on 3 levels and muting indicated by red “LED”. The green LED indicates that the door is open when connected to a suitable lock or door. Desktop installation requires use of the conversion kit. Dimensions: 204x220x71 mm.
6309/C	GIOTTO series surface wall-mounted video door entry unit made of thermoplastic material, with colour, low profile 4” screen, microcontroller, handset. Supplied with fixing bracket with terminal block, loudspeaker for electronic calls and three push-buttons (door lock release, self-start and auxiliary functions), call volume setting on 3 levels and muting indicated by red “LED”. The green LED indicates that the door is open when connected to a suitable lock or door. Desktop installation requires use of the conversion kit. Dimensions: 204x220x71 mm.
Accessories	
661A	Desktop conversion kit for monitors art. 6309, 6309/C. Complete with 2 metres of 12-conductor cable + 1 coaxial with socket and removable plug.
661F	Desktop conversion kit for monitors art. 6309, 6309/C, with built-in power supply. For simultaneous activation of multiple monitors in parallel and for long lines and when subject to high voltage drops. Complete with 2 metres of 12-conductor cable + 1 coaxial with socket and removable plug. Power supply 230 VAC.

Articles	Description
6600 series audio door entry unit	
6601/AU	Two-channel speakerphone audio door entry unit for flush-mounting on walls, made of thermoplastic with loudspeaker for electronic calls and removable terminal block. Equipped with 8 buttons for: door lock release, self-start, auxiliary services (stair light), conversation, internal voice line volume control, ringtone volume control and muting, selection of different ringtones. For installation, requires flush-mounted back box art. 6149. Dimensions: 141x139x10 mm + 45 mm (for flush-mounting).
660C/AU	Desktop two-channel speakerphone audio door entry unit made of thermoplastic with loudspeaker for electronic calling. Equipped with 8 buttons for: door lock release, self-start, auxiliary services (stair light), conversation, internal voice line volume control, ringtone volume control and muting, selection of different ringtones. Complete with 2 metres cable with socket and removable plug. Dimensions: 141x125x125 mm.
6701/AU	Two-channel speakerphone audio door entry unit for surface-mounting on walls, made of thermoplastic with loudspeaker for electronic calls and removable terminal block. Equipped with 8 buttons for: door lock release, self-start, auxiliary services (stair light), conversation, internal voice line volume control, ringtone volume control and muting, selection of different ringtones. Supplied with wall fixing bracket. Dimensions: 141x139x40 mm.
6611/AU	Two-channel speakerphone audio door entry unit for flush-mounting on walls, made of thermoplastic with loudspeaker for electronic calls and removable terminal block. Equipped with 8 standard buttons and 6 additional buttons. The standard buttons are for: door lock release, self-start, auxiliary services (stair light), conversation, internal voice line volume control, ringtone volume control and muting, selection of different ringtones. The additional buttons are programmable for intercom calls or auxiliary services. For installation, requires flush-mounted back box art. 6149. Dimensions: 141x139x10 mm + 45 mm (for flush-mounting).
661C/AU	Desktop two-channel speakerphone audio door entry unit made of thermoplastic with loudspeaker for electronic calling. Equipped with 8 standard buttons and 6 additional buttons. The standard buttons are for: door lock release, self-start, auxiliary services (stair light), conversation, internal voice line volume control, ringtone volume control and muting, selection of different ringtones. The additional buttons are programmable for intercom calls or auxiliary services. Complete with 2 metres cable with socket and removable plug. Dimensions: 141x125x125 mm.
6711/AU	Two-channel speakerphone audio door entry unit for surface-mounting on walls, made of thermoplastic with loudspeaker for electronic calls and removable terminal block. Equipped with 8 standard buttons and 6 additional buttons. The standard buttons are for: door lock release, self-start, auxiliary services (stair light), conversation, internal voice line volume control, ringtone volume control and muting, selection of different ringtones. The additional buttons are programmable for intercom calls or auxiliary services. Supplied with wall fixing bracket. Dimensions: 141x139x40 mm.
Accessories	
6149	Square flush-mounting box (8 P) for 6600 series audio and video door entry units in the version for flush-mounting on walls. Dimensions: 136x136x59 mm
6600 series video entry unit	
6601	Two-channel speakerphone video door entry unit for flush-mounting on walls, made of thermoplastic with 4” colour LCD screen (vertical tilting) and loudspeaker for electronic calls and removable terminal block. Equipped with 8 buttons for: door lock release, self-start, auxiliary services (stair light), conversation, internal voice line volume control, ringtone volume control and muting, selection of different ringtones, brightness and contrast control. For installation, requires flush-mounted back box art. 6149. Dimensions: 141x139x10 mm + 45 mm (for flush-mounting).
660C	Desktop two-channel speakerphone video door entry unit, made of thermoplastic with 4” colour LCD screen (vertical tilting) and loudspeaker for electronic calls. Equipped with 8 buttons for: door lock release, self-start, auxiliary services (stair light), conversation, internal voice line volume control, ringtone volume control and muting, selection of different ringtones, brightness and contrast control. Complete with 2 metres cable with socket and removable plug. Dimensions: 141x125x125 mm.
6701	Two-channel speakerphone video door entry unit for surface-mounting on walls, made of thermoplastic with 4” colour LCD screen (vertical tilting) and loudspeaker for electronic calls and removable terminal block. Equipped with 8 buttons for: door lock release, self-start, auxiliary services (stair light), conversation, internal voice line volume control, ringtone volume control and muting, selection of different ringtones, brightness and contrast control. Supplied with wall fixing bracket. Dimensions: 141x139x40 mm.
6611	Two-channel speakerphone video door entry unit for flush-mounting on walls, made of thermoplastic with 3.5” colour LCD screen, loudspeaker for electronic calls and removable terminal block. Equipped with 8 standard buttons and 6 additional buttons. The standard buttons are for: door lock release, self-start, auxiliary services (stair light), conversation, internal voice line volume control, ringtone volume control and muting, selection of different ringtones, brightness and contrast control. The additional buttons are programmable for intercom calls or auxiliary services. For installation, requires flush-mounted back box art. 6149. Dimensions: 141x139x10 mm + 45 mm (for flush-mounting).

Articoles	Description
661C	Desktop two-channel speakerphone video door entry unit, made of thermoplastic with 3.5” colour LCD screen and loudspeaker for electronic calls. Equipped with 8 standard buttons and 6 additional buttons. The standard buttons are for: door lock release, self-start, auxiliary services (stair light), conversation, internal voice line volume control, ringtone volume control and muting, selection of different ringtones, brightness and contrast control. The additional buttons are programmable for intercom calls or auxiliary services. Complete with 2 metres cable with socket and removable plug. Dimensions: 141x125x125 mm.
6711	Two-channel speakerphone video door entry unit for surface-mounting on walls, made of thermoplastic with 3.5” colour LCD screen, loudspeaker for electronic calls and removable terminal block. Equipped with 8 standard buttons and 6 additional buttons. The standard buttons are for: door lock release, self-start, auxiliary services (stair light), conversation, internal voice line volume control, ringtone volume control and muting, selection of different ringtones, brightness and contrast control.The additional buttons are programmable for intercom calls or auxiliary services. Supplied with wall fixing bracket. Dimensions: 141x139x40 mm.
Accessories	
6149	Square flush-mounting box (8 P) for 6600 series audio and video door entry units in the version for flush-mounting on walls. Dimensions: 136x136x59 mm
8000 series alphanumerical electronic entrance panels	
89F4	Standard electronic module for assembly of an audio entrance panel with: speech unit, alphanumeric display (with 2 lines x 16 characters each), keypad and memory for 200 users (2 names, 16 characters per user). The standard electronic modules are supplied in the dimensions of 2 modules joined together vertically. To complete the panel, additional modules, module holder frames, flush-mounting or surface-mounting boxes, bezels or frames with rainproof cover may be required. All modules with name tag holder and push-buttons are back-lit by means of LEDs. The panels can control a door lock (even directly) and two auxiliary services by means of relay type 170/001. The panels are programmed via the panel keypad or by means of programmer type 950C.
89F7	Standard electronic module for assembly of a B/W video entrance panel with: speech unit, alphanumeric display (with 2 lines x 16 characters each), keypad and memory for 200 users (2 names, 16 characters per user). Equipped with black/white video camera with 1/4“ CCD sensor, 3 mm lens, LED for white lighting and manual vertical and horizontal tilt facility. The standard electronic modules are supplied in the dimensions of 2 modules joined together vertically. To complete the panel, additional modules, module holder frames, flush-mounting or surface-mounting boxes, bezels or frames with rainproof cover may be required. All modules with name tag holder and push-buttons are back-lit by means of LEDs. The panels can control a door lock (even directly) and three auxiliary services by means of relay type 170/001. The panels are programmed via the panel keypad or by means of programmer type 950C.
89F7/C	Standard electronic module for assembly of a colour video entrance panel with: video camera, speech unit, alphanumeric display (with 2 lines x 16 characters), keypad and memory for 200 users (2 names, 16 characters per user). Equipped with colour video camera with 1/4“ CCD sensor, 3 mm lens, LED for white lighting and manual vertical and horizontal tilt facility. The standard electronic modules are supplied in the dimensions of 2 modules joined together vertically. To complete the panel, additional modules, module holder frames, flush-mounting or surface-mounting boxes, bezels or frames with rainproof cover may be required. All modules with name tag holder and push-buttons are back-lit by means of LEDs. The panels can control a door lock (even directly) and two auxiliary services by means of relay type 170/001. The panels are programmed via the panel keypad or by means of programmer type 950C.
89F9	Standard electronic module for assembly of a video entrance panel with CCTV-type external video camera (to be added separately). The module is equipped with: speech unit, alphanumeric display (with 2 lines x 16 characters each), keypad and memory for 200 users (2 names, 16 characters per user). The standard electronic modules are supplied in the dimensions of 2 modules joined together vertically. To complete the panel, additional modules, module holder frames, flush-mounting or surface-mounting boxes, bezels or frames with rainproof cover may be required. All modules with name tag holder and push-buttons are back-lit by means of LEDs. The panels can control a door lock (even directly) and two auxiliary services by means of relay type 170/001. The panels are programmed via the panel keypad or by means of programmer type 950C.
8000 series electronic entrance panels with push-buttons	
89F3	Standard electronic module for assembly of an audio entrance panel with: speech unit, 3 conventional push-buttons and luminous "ENGAGED-PLEASE WAIT" signal. The standard electronic modules are supplied in the dimensions of 2 modules joined together vertically. To complete the panel, additional modules, module holder frames, flush-mounting or surface-mounting boxes, bezels or frames with rainproof cover may be required. All the push-buttons are back-lit by means of LEDs. The panel can control a door lock (even directly) and two auxiliary services by means of relay type 170/001. The panel is programmed via the panel keypad or by means of programmer art. 950C.
89F3/2	Like art. 89F3 but with 2 call buttons.
89F3/1	Like art. 89F3 but with 1 call button.
89F3/0	Like art. 89F3 but with no call buttons.

Articles	Description
89F5	Standard electronic module for assembly of a video entrance panel with: black/white video camera, speech unit, 3 conventional push-buttons and luminous "ENGAGED-PLEASE WAIT" signal. The black/white video camera has a 1/4“ CCD sensor, 3 mm lens, LED for infrared lighting and manual vertical and horizontal tilt facility. The standard electronic modules are supplied in the dimensions of 2 modules joined together vertically. To complete the panel, additional modules, module holder frames, flush-mounting or surface-mounting boxes, bezels or frames with rainproof cover may be required. All the push-buttons are back-lit by means of LEDs. The panel can control a door lock (even directly) and two auxiliary services by means of relay type 170/001. The panel is programmed via the panel keypad or by means of programmer art. 950C.
89F5/2	Like art. 89F5 but with 2 call buttons.
89F5/1	Like art. 89F5 but with 1 call button.
89F5/0	Like art. 89F5 but with no call buttons.
89F5/C	Standard electronic module for assembly of a colour video entrance panel with: colour video camera, speech unit, 3 conventional push-buttons and luminous "ENGAGED-PLEASE WAIT" signal. The colour video camera has a 1/4“ CCD sensor, 3 mm lens, LED for white lighting and manual vertical and horizontal tilt facility. The standard electronic modules are supplied in the dimensions of 2 modules joined together vertically. To complete the panel, additional modules, module holder frames, flush-mounting or surface-mounting boxes, bezels or frames with rainproof cover may be required. All the push-buttons are back-lit by means of LEDs. The panel can control a door lock (even directly) and two auxiliary services by means of relay type 170/001. The panel is programmed via the panel keypad or by means of programmer art. 950C.
89F5/C2	Like art. 89F5/C but with 2 call buttons.
89F5/C1	Like art. 89F5/C but with 1 call button.
89F5/C0	Like art. 89F5/C but with no call buttons.
89F8	Standard electronic module for assembly of a video entrance panel with: speech unit, 3 conventional push-buttons and luminous "ENGAGED-PLEASE WAIT" signal. The CCTV-type external video camera is to be added separately. The standard electronic modules are supplied in the dimensions of 2 modules joined together vertically. To complete the panel, additional modules, module holder frames, flush-mounting or surface-mounting boxes, bezels or frames with rainproof cover may be required. All the push-buttons are back-lit by means of LEDs. The panel can control a door lock (even directly) and two auxiliary services by means of relay type 170/001. The panel is programmed via the panel keypad or by means of programmer art. 950C.
89F8/2	Like art. 89F8/2 but with 2 call buttons.
89F8/1	Like art. 89F8/1 but with 1 call button.
89F8/0	Like art. 89F8/0 but with no call buttons.

Additional modules

8000	Blank module. For all 8000 series entrance plate models.
805N	Module with illuminated tag for 13 names complete with LED lighting system with system for removing the tag from the back. For alphanumerical entrance plate models.
80PN	Module with illuminated tag for street number complete with LED lighting system with system for removing the tag from the back. For all 8000 series entrance plate models.
8051	Module with 1 single push-button and LED lighting system. For 8000 series entrance plate models art. 89F3/.., 89F5/.., 89F5/C..
8052	Electronic module with 2 single push-buttons and LED lighting system. For 8000 series entrance plate models art. 89F3/.., 89F5/.., 89F5/C..
8053	Electronic module with 3 single push-buttons and LED lighting system. For 8000 series entrance plate models art. 89F3/.., 89F5/.., 89F5/C..
8054	Electronic module with 4 single push-buttons and LED lighting system. For 8000 series entrance plate models art. 89F3/.., 89F5/.., 89F5/C..

Module holder frames

8082	Frame for 2 vertical modules and for 2 supplementary modules only, art. 804x or 805x. Comprising external frame and push-button holder. Dim. 101x271 mm. (WidthxHeight).
8092	Frame for 2 vertical modules. Comprising external frame and module holder. To be used for standard modules type 89Fx (2-wires) or standard modules type 884x (Digi Bus). Dim. 101x271 mm. (WidthxHeight).
8083	Frame for 3 vertical modules and for 3 supplementary modules only, type 804x or 805x. Comprising external frame and push-button holder. Dim. 101x383 mm. (WidthxHeight).
8093	Frame for 3 vertical modules. Comprising external frame and module holder. To be used for standard modules type 89Fx (2-wires) and a supplementary module type 804x or 805x or for standard modules type 884x (Digi Bus) and a supplementary module type 804x or 805x. Dim. 101x383 mm. (WidthxHeight).
8084	Frame for 4 vertical modules and for 4 supplementary modules only, type 804x or 805x. Comprising external frame and push-button holder. Dim. 101x495 mm.(WidthxHeight).
8094	Frame for 4 vertical modules. Comprising external frame and module holder. To be used for standard modules type 89Fx (2-wires) and two supplementary modules type 804x or 805x or for standard modules type 884x (Digi Bus) and two supplementary modules type 804x or 805x. Dim. 101x495 mm.(WidthxHeight).

Articles	Description
	Flush-mounting back boxes
9092	Flush-mounting box for 2 vertical modules. Dim. 89x248x50 mm. (Width x Height x Depth).
9093	Flush-mounting box for 3 vertical modules. Dim. 89x360x50 mm. (Width x Height x Depth).
9094	Flush-mounting box for 4 vertical modules. Dim. 89x472x50 mm. (Width x Height x Depth).
	Bezels
9112	Bezel for 2 vertical modules in one row. Dim. 108x281 mm. (Width x Height).
9113	Bezel for 3 vertical modules in one row. Dim. 108x393 mm. (Width x Height).
9114	Bezel for 4 vertical modules in one row. Dim. 108x505 mm. (Width x Height).
9122	Bezel for 4 modules in two rows of 2 vertical modules. Dim. 208x281 mm. (Width x Height).
9123	Bezel for 6 modules in two rows of 3 vertical modules. Dim. 208x393 mm. (Width x Height).
9124	Bezel for 8 modules in two rows of 4 vertical modules. Dim. 208x505 mm. (Width x Height).
9132	Bezel for 6 modules in three rows of 2 vertical modules. Dim. 308x281 mm. (Width x Height)
9133	Bezel for 9 modules in three rows of 3 vertical modules. Dim. 308x393 mm. (Width x Height)
9134	Bezel for 12 modules in three rows of 4 vertical modules. Dim. 308x505 mm. (Width x Height).
9142	Bezel for 8 modules in four rows of 2 vertical modules. Dim. 408x281 mm. (Width x Height).
9143	Bezel for 12 modules in four rows of 3 vertical modules. Dim. 408x393 mm. (Width x Height).
9144	Bezel for 16 modules in four rows of 4 vertical modules. Dim. 408x505 mm. (Width x Height).
	Frames with rainproof cover
9212	Rainproof cover for 2 vertical modules. Dim. 118x290x38 mm. (Width x Height x Depth)
9213	Rainproof cover for 3 vertical modules. Dim. 118x402x38 mm. (Width x Height x Depth)
9214	Rainproof cover for 4 vertical modules. Dim. 118x514x38 mm. (Width x Height x Depth)
9222	Rainproof cover for 4 modules in two rows of 2 vertical modules. Dim. 218x290x38 mm. (Width x Height x Depth)
9223	Rainproof cover for 6 modules in two rows of 3 vertical modules. Dim. 218x402x38 mm. (Width x Height x Depth)
9224	Rainproof cover for 8 modules in two rows of 4 vertical modules. Dim. 218x514x38 mm. (Width x Height x Depth)
9232	Rainproof cover for 6 modules in three rows of 2 vertical modules. Dim. 318x290x38 mm. (Width x Height x Depth)
9233	Rainproof cover for 9 modules in three rows of 3 vertical modules. Dim. 318x402x38 mm. (Width x Height x Depth)
9234	Rainproof cover for 12 modules in three rows of 4 vertical modules. Dim. 318x514x38 mm. (Width x Height x Depth)
9242	Rainproof cover for 8 modules in four rows of 2 vertical modules. Dim. 418x290x38 mm. (Width x Height x Depth)
9243	Rainproof cover for 12 modules in four rows of 3 vertical modules. Dim. 418x402x38 mm. (Width x Height x Depth)
9244	Rainproof cover for 16 modules in four rows of 4 vertical modules. Dim. 418x514x38 mm. (Width x Height x Depth)
	Surface wall-mounted back boxes
9312	Box for 2 vertical modules, to be combined with art. 9212. Dim. 118x290x30 mm. (Width x Height x Depth)
9313	Box for 3 vertical modules, to be combined with art. 9213. Dim. 118x402x30 mm. (Width x Height x Depth)
9314	Box for 4 vertical modules, to be combined with art. 9214. Dim. 118x514x30 mm. (Width x Height x Depth)
9322	Box for 4 modules in two rows of 2 vertical modules, to be combined with art. 9222. Dim. 218x290x30 mm. (Width x Height x Depth)
9323	Box for 6 modules in two rows of 3 vertical modules, to be combined with art. 9223. Dim. 218x402x30 mm. (Width x Height x Depth)
9324	Box for 8 modules in two rows of 4 vertical modules, to be combined with art. 9224. Dim. 218x514x30 mm. (Width x Height x Depth).
9332	Box for 6 modules in three rows of 2 vertical modules, to be combined with art. 9232. Dim. 318x290x30 mm. (Width x Height x Depth).
9333	Box for 9 modules in three rows of 3 vertical modules, to be combined with art. 9233. Dim. 318x402x30 mm. (Width x Height x Depth).
9334	Box for 12 modules in three rows of 4 vertical modules, to be combined with art. 9234. Dim. 318x514x30 mm. (Width x Height x Depth).
9342	Box for 8 modules in four rows of 3 vertical modules, to be combined with art. 9242. Dim. 418x290x30 mm. (Width x Height x Depth).
9343	Box for 12 modules in four rows of 3 vertical modules, to be combined with art. 9243. Dim. 418x402x30 mm. (Width x Height x Depth).
9344	Box for 16 modules four rows of 4 vertical modules, to be combined with art. 9244. Dim. 418x514x30 mm. (Width x Height x Depth).

Articles	Description
Patavium series alphanumerical electronic entrance panels	
89F4/T	Patavium series standard electronic entrance panel for assembly of an audio entrance panel with: speech unit, alphanumeric display (with 2 lines x 16 characters each), keypad and memory for 200 users (2 names, 16 characters per user). The entrance panel is composed of a brass plate with a golden surface treatment and protective painting, obtained with titanium nitride PVD technology and a flush-mounting box of galvanized sheet metal. The PATAVIUM series electronic entrance panels comprise the standard panels and additional panels, which when combined enable expansion and personalisation of the entrance panels as required. All entrance panels with name tag holder and push-buttons are backlit by means of LEDs. The panels can control a door lock (even directly) and two auxiliary services by means of relay type 170/001. The panels are programmed via the panel keypad or by means of programmer type 950C. Plate dimensions: 120x309x4 mm. Back box dimensions: 105x266x55 mm
89F7/T	Patavium series standard electronic entrance panel for assembly of a B/W video entrance panel with: video camera, speech unit, alphanumeric display (with 2 lines x 16 characters), keypad and memory for 200 users (2 names, 16 characters per user). Equipped with black/white video camera with 1/4“ CCD sensor, 3 mm lens, LED for infrared lighting and manual vertical and horizontal tilt facility. The entrance panel is composed of a brass plate with a golden surface treatment and protective painting, obtained with titanium nitride PVD technology and a flush-mounting box of galvanized sheet metal. The PATAVIUM series electronic entrance panels comprise the standard panels and additional panels, which when combined enable expansion and personalisation of the entrance panels as required. All entrance panels with name tag holder and push-buttons are backlit by means of LEDs. The panels can control a door lock (even directly) and two auxiliary services by means of relay type 170/001. The panels are programmed via the panel keypad or by means of programmer type 950C. Plate dimensions: 120x309x4 mm Back box dimensions: 105x266x55 mm
89F7/CT	Patavium series standard electronic entrance panel for assembly of a colour video entrance panel with: video camera, speech unit, alphanumeric display (with 2 lines x 16 characters), keypad and memory for 200 users (2 names, 16 characters per user). Equipped with colour video camera with 1/4“ CCD sensor, 3 mm lens, LED for white lighting and manual vertical and horizontal tilt facility. The entrance panel is composed of a brass plate with a golden surface treatment and protective painting, obtained with titanium nitride PVD technology and a flush-mounting box of galvanized sheet metal. The PATAVIUM series electronic entrance panels comprise the standard panels and additional panels, which when combined enable expansion and personalisation of the entrance panels as required. All entrance panels with name tag holder and push-buttons are backlit by means of LEDs. The panels can control a door lock (even directly) and two auxiliary services by means of relay type 170/001. The panels are programmed via the panel keypad or by means of programmer type 950C. Plate dimensions: 120x309x4 mm Back box dimensions: 105x266x55 mm
89F9/T	Patavium series standard electronic entrance panel for assembly of a video entrance panel with CCTV-type external video camera (to be added separately); it is supplied with: speech unit, alphanumerical display (with 2 lines x 16 characters each), keypad and memory for 200 users (2 names, 16 characters per user). The entrance panel is composed of a brass plate with a golden surface treatment and protective painting, obtained with titanium nitride PVD technology and a flush-mounting box of galvanized sheet metal. The PATAVIUM series electronic entrance panels comprise the standard panels and additional panels, which when combined enable expansion and personalisation of the entrance panels as required. All entrance panels with name tag holder and push-buttons are backlit by means of LEDs. The panels can control a door lock (even directly) and two auxiliary services by means of relay type 170/001. The panels are programmed via the panel keypad or by means of programmer type 950C. Plate dimensions: 120x309x4 mm Back box dimensions: 105x266x55 mm
Supplementary panels	
805N/T	Supplementary entrance panel with 3 illuminated tags for 11 names (33 in total) complete with flush-mounting box, LED lighting system and system for removing the tag from the back. The entrance panel is composed of a brass plate with a golden surface treatment and protective painting, obtained with titanium nitride PVD technology and a flush-mounting box of galvanized sheet metal. Plate dimensions: 120x309x4 mm Back box dimensions: 105x266x55 mm
Patavium series electronic entrance panels with push-buttons	
89F3/T	Patavium series standard electronic entrance plate for assembly of an audio entrance panel with: speech unit, 3 conventional push-buttons and luminous "ENGAGED-PLEASE WAIT" signal. The entrance panel is composed of a brass plate with a golden surface treatment and protective painting, obtained with titanium nitride PVD technology and a flush-mounting box of galvanized sheet metal. The PATAVIUM series electronic entrance panels comprise the standard panels and additional panels, which when combined enable expansion and personalisation of the entrance panels as required. All entrance panels with name tag holder and push-buttons are backlit by means of LEDs. The panels can control a door lock (even directly) and two auxiliary services by means of relay type 170/001. The panels are programmed via the panel keypad or by means of programmer type 950C. Plate dimensions:120x309x4 mm. Back box dimensions: 105x266x55 mm
89F3/2T	Like art. 89F3/T but with 2 call buttons.
89F3/1T	Like art. 89F3/T but with 1 call button.
89F3/0T	Like art. 89F3/T but with no call buttons.

Articles		Description
89F5/T		Patavium series standard electronic entrance plate for assembly of a video entrance panel with: B/W video camera, speech unit, 3 conventional push-buttons and luminous "ENGAGED-PLEASE WAIT" signal. The B/W video camera has a 1/4“ CCD sensor, 3 mm lens, LED for infrared lighting and manual vertical and horizontal tilt facility. The entrance panel is composed of a brass plate with a golden surface treatment and protective painting, obtained with titanium nitride PVD technology and a flush-mounting box of galvanized sheet metal. The PATAVIUM series electronic entrance panels comprise the standard panels and additional panels, which when combined enable expansion and personalisation of the entrance panels as required. All entrance panels with name tag holder and push-buttons are backlit by means of LEDs. The panels can control a door lock (even directly) and three auxiliary services by means of relay type 170/001. The panels are programmed via the panel keypad or by means of programmer type 950C. Plate dimensions:120x309x4 mm Back box dimensions: 105x266x55 mm
89F5/2T		Like art. 89F5/T but with 2 call buttons.
89F5/1T		Like art. 89F5/T but with 1 call button.
89F5/0T		Like art. 89F5/T but with no call buttons.
89F5/CT		Patavium series standard electronic entrance plate for assembly of a video entrance panel with: colour video camera, speech unit, 3 conventional push-buttons and luminous "ENGAGED-PLEASE WAIT" signal. The colour video camera has a 1/4“ CCD sensor, 3 mm lens, LED for white lighting and manual vertical and horizontal tilt facility.The entrance panel is composed of a brass plate with a golden surface treatment and protective painting, obtained with titanium nitride PVD technology and a flush-mounting box of galvanized sheet metal. The PATAVIUM series electronic entrance panels comprise the standard panels and additional panels, which when combined enable expansion and personalisation of the entrance panels as required. All entrance panels with name tag holder and push-buttons are backlit by means of LEDs. The panels can control a door lock (even directly) and three auxiliary services by means of relay type 170/001. The panels are programmed via the panel keypad or by means of programmer type 950C. Plate dimensions:120x309x4 mm Back box dimensions: 105x266x55 mm
89F5/CT2		Like art. 89F5/CT but with 2 call buttons.
89F5/CT1		Like art. 89F5/CT but with 1 call button.
89F5/CT0		Like art. 89F5/CT but with no call buttons.
	Supplementary panels	
	8054/T	Supplementary entrance panel with 8 conventional push-buttons, complete with flush-mounting box, LED lighting system and system for removing the name tags from the back. The entrance panel is composed of a brass plate with a golden surface treatment and protective painting, obtained with titanium nitride PVD technology and a flush-mounting box of galvanized sheet metal. Plate dimensions:120x309x4 mm Back box dimensions: 105x266x55 mm
Speech units and video cameras with speech unit for entrance panels outside the door.		
692U		Black/white video camera with: 3.7 mm fixed lens, audio speech unit, wiring for connecting 1 call button and wiring for connecting "ENGAGED-PLEASE WAIT" signal. For use in combination with types 692S and 6922 for connection of single apartment/user. The video camera must be used with 8000 series entrance panels consisting of modules 80P1+8019 and 8100 series entrance panels (art. 81V1).
692U/C		Colour video camera with: 3.7 mm fixed lens, audio speech unit, connecting cables for 1 call button and ENGAGED-PLEASE WAIT signal. For use in combination with types 692S and 6922 for connection of single apartment/user. The video camera must be used with 8000 series entrance panels consisting of modules 80P1+8T19 and 8100 series entrance panels (art. 81VT).
69AV		Speech unit for connecting CCTV-type external video camera, with wiring for connecting 1 call button and wiring for connecting "ENGAGED-PLEASE WAIT" signal. For use in combination with types 692S and 6922 for connection of single apartment/user. The speech unit must be used with 8000 series entrance panels assembled with modules 8081+80B1 and 8100 series entrance panels (art. 81A1).
69AU		Speech unit with wiring for the connection of 1 call push-button and wiring for connection of "ENGAGED-PLEASE WAIT" signal. For use in combination with types 692S and 6922 for connection of single apartment/user. The speech unit must be used with 8000 series entrance panels assembled with modules 80P1+80B1 and 8100 series entrance panels (art. 81A1).
	Entrance panels for speech units and video cameras outside the door.	
	81A1	Surface wall-mounted audio entrance panel with 1 call button, "ENGAGED-PLEASE WAIT" signal, frame and rainproof cover made of polycarbonate and extruded aluminium plate. For use with speech unit art. 69AU or 69AV. The entrance panel is supplied with LED lighting for 12-15Vac or 21Vdc (maximum 40mW per LED). Dimensions 101x200x38 (Width x Height x Depth).
	81V1	Surface wall-mounted video entrance panel with 1 call button, "ENGAGED-PLEASE WAIT" signal, frame and rainproof cover made of polycarbonate and extruded aluminium plate. For use with video camera art. 692U. The entrance panel is supplied with LED lighting for 12-15Vac or 21Vdc (maximum 40mW per LED). Dimensions 101x200x38 (Width x Height x Depth).

Articles	Description
81VT	Surface wall-mounted video entrance panel with 1 call button, "ENGAGED-PLEASE WAIT" signal, frame and rainproof cover made of polycarbonate and extruded aluminium plate. For use with video camera art. 692U/C. The entrance panel is supplied with LED lighting for 12-15VAC or 21VDC (maximum 40mW per LED). Dimensions 101x200x38 (Width x Height x Depth).
80B1	8000 series entrance panel module for audio speech unit art. 69AU or 69AV. Using this module with art. 69AU or 69AV requires the addition of module art. 80P1. The entrance panel must be completed with mounting frames (8082, 8083, 8084), frames (91xx or 92xx) and boxes (909x or 93xx) of the 8000 series.
8019	8000 series entrance plate module for video camera with speech unit art. 692U. Using this module with art. 692U requires the addition of module art. 80P1. The entrance panel must be completed with mounting frames (8082, 8083, 8084), frames (91xx or 92xx) and boxes (909x or 93xx) of the 8000 series.
8T19	8000 series entrance plate module for video camera with speech unit art. 692U. Using this module with art. 692U requires the addition of module art. 80P1. The entrance panel must be completed with mounting frames (8082, 8083, 8084), frames (91xx or 92xx) and boxes (909x or 93xx) of the 8000 series.
80P1	8000 series entrance panel module with 1 call button and illuminated “Engaged-Please Wait” signal, complete with LED lighting for the name tag. For use with art. 69AU, 69AV, 692U, 692U/C
Power supply units	
6922	Standard power supply in DIN 8 module housing for powering audio and video door entry units and entrance panels. Supply voltage: 230Vac 60VA 50Hz. Protection with PTC against short circuit and temperature variations. Dimensions with caps on: 140x115x65 mm
6923	Standard power supply in DIN 4-module housing for powering entrance panels in parallel and video door entry units in parallel with simultaneous activation mode. Supply voltage: 230Vac 60VA 50Hz. Protection with PTC against short circuit and temperature variations. Dimensions with caps on: 70x115x65 mm
6582	Additional power supply in DIN 4-module housing for powering LEDs in additional entrance panel modules. Power supply 230VAC 50Hz. Dimensions with caps on: 70x115x65 mm
6982	Additional power supply in DIN 4-module housing for powering external video cameras (12 Vdc) for entrance panel types 89F8 and 89F9. Power supply 230VAC 50Hz. Dimensions with caps on: 70x115x65 mm
Separator	
692S	Separator for the division of conversation areas, for use in the case of intercom networks, door panels and building complexes. Dimensions with caps on: 70x105x50 mm
Concentrator and selectors	
692C	Concentrator for connecting up to 4 entrance panels, of which at least one is a video entrance panel. Dimensions with caps on: 70x105x50 mm
69AV/M	Unit for connecting a CCTV-type external video camera to the Two Wire system. The video camera is switched on by the self-start button. The unit can also be connected up with two auxiliary functions (F1 and F2). Dimensions with caps on: 140x115x65 mm.
69AV/4	Module for connecting 4 CCTV-type video cameras to the unit 69AV/M. It is possible to connect the 69AV/M unit with a number of 69AV/4 modules that makes it possible to increase the number of video cameras connected to the system; with the lock button it is possible to select the desired video camera in a cycle after the start phase. Dimensions with caps on: 70x105x50 mm
Video distributors	
692D	Passive video floor distributor to adapt impedance of video signal on non-balanced connection lines. Dimensions: 48x70x19 mm
692D/1	Active video floor distributor to adapt impedance of video signal on non-balanced connection lines. Dimensions: 48x70x19 mm
Programming modules	
950C	Portable programming module with keyboard and alphanumeric display for basic and advanced programming of ELVOX TWO-WIRE devices for apartments with more than 4 video or audio door entry units in a single apartment.
692I	PC interface with software art. 69CD for basic and advanced programming of ELVOX TWO-WIRE devices for apartments with more than 4 video or audio door entry units in a single apartment.

Articles	Description
Porter switchboards	
945F	Switchboard with “internal/external” switching with microcontroller. Equipped with keypad and alphanumeric display and electronic phone book. The switchboard can be combined with a monitor Art. 6009 or Art. 6009/C with desktop base Art. 6A92 and a telephone interface Art. 69TF. Desktop version, standard colour: black. Requires dedicated power supply unit Art. 6923. Dimensions: 310x120x235 mm
945F/T	Switchboard with “internal/external” switching with microcontroller. Equipped with keypad and alphanumeric display and electronic phone book. The switchboard can be combined with a monitor Art. 6009 or Art. 6009/C with desktop base Art. 6A92 and a telephone interface Art. 69TF and a CCTV-type external video camera. Desktop version, standard colour: black. Requires dedicated power supply unit Art. 6923. Dimensions: 310x120x235 mm
Relay	
69RH	Programmable device with 2 relays with normally open contacts. It has 2 function modes: as a timed twin relay for 2 independent auxiliary services (e.g. stair lighting) or as a call repeater relay for entrance panel and intercom calls. In mode 1 it is possible to identify the device with a code for recognising the relays; it is possible to install up to 8 devices in the same system. In mode 2 the device can be associated with up to 4 groups of audio/video door entry units for call repeating. Maximum load to contacts 3A 230V. Supplied in 4-module DIN housing. Dimensions with caps on: 70x115x50 mm.
170/101	Relay for call repetition on audio and video door entry units with additional ringtones (mechanical doorbell). Maximum load to contacts 3A 230V. Supplied in 4-module DIN housing. Dimensions with caps on: 70x115x50 mm.
Ringtone	
860A	Electronic ringtone with call differentiated on two 2 and 3-note inputs (version with SAE800) in thermoplastic. Power supply 230VAC. Dimensions: 140x140x50 mm.
Cables	
732H/50	Cable for connections in P.V.C. CEI 20-22/II, comprising 2 twisted wires of 1 mm^2, in bundles of 50 m
732H/100	Cable for connections in P.V.C. CEI 20-22/II, comprising 2 twisted wires of 1 mm^2, in bundles of 100 m
732H/500	Cable for connections in P.V.C. CEI 20-22/II, comprising 2 twisted wires of 1 mm^2, in bundles of 500 m

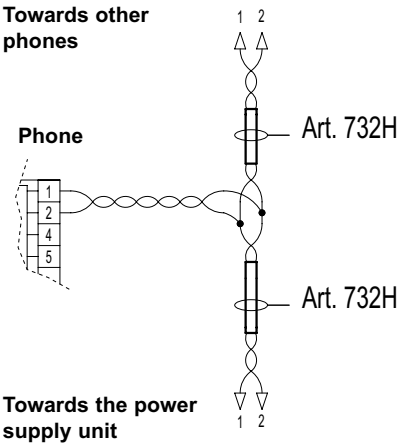
INSTRUCTIONS FOR CONNECTIONS

For connecting appliances in all the system, the Two Wire system requires a cable comprising two non-polarized conductors (twisted wires are recommended), in which are conveyed: the digital signals for the calls, the conversation signal, the activation signals for the auxiliary functions and the low-voltage power supply of the appliances (audio and video door entry units and entrance panels). For video door entry system it is vital to use cable art. 732H or an equivalent cable with the same specifications.

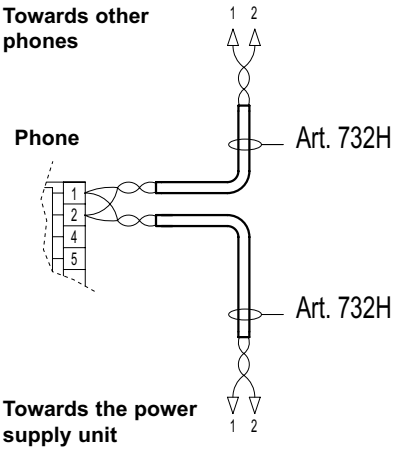
Connections for audio door entry systems

In solely audio door entry systems the pillar and entrance panels must be connected as follows:

Connection of the audio door entry units to the pillar



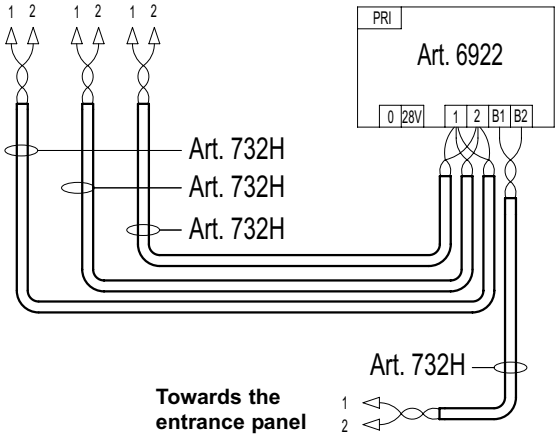
The audio door entry unit can be connected to the system by simply connecting the audio door entry unit in parallel with the column pillar by means of an output on the floor.



The audio door entry unit can also be connected by connecting the pillar directly to the audio door entry unit, with an in-out type of connection.

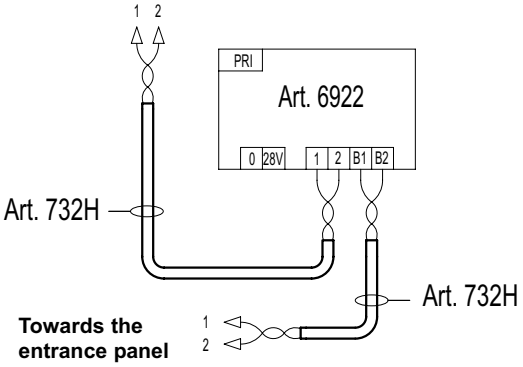
Connections to a number of (audio door entry) column pillars must run into the power supply unit (art. 6922).

To other phones



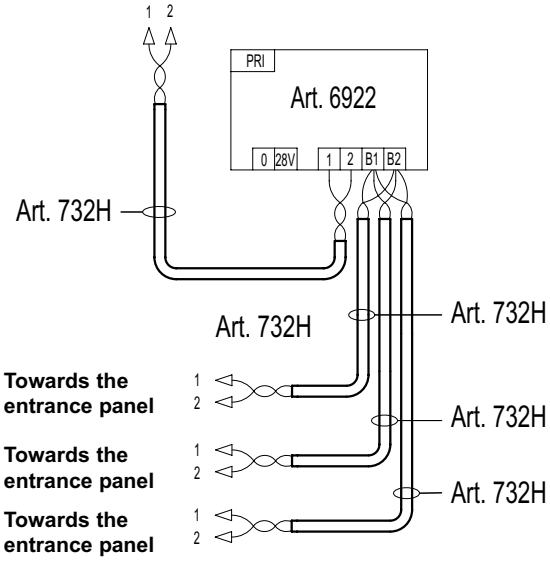
Connecting the entrance panels to the power supply unit

Towards other phones



The connections from the entrance panel must run into the power supply unit (art. 6922), to then continue from the power supply unit towards the audio door entry units.

To other phones



Also in the case of a number of audio door entry panels, the connections must run into the power supply unit (art. 6922), to then continue from the power supply unit towards the audio door entry units. If the number of entrance panels exceeds that permitted by the power supply unit art. 6922, it is necessary to add a supplementary power supply unit art. 6923 (see consumption table on page 2.8 and connection diagrams).

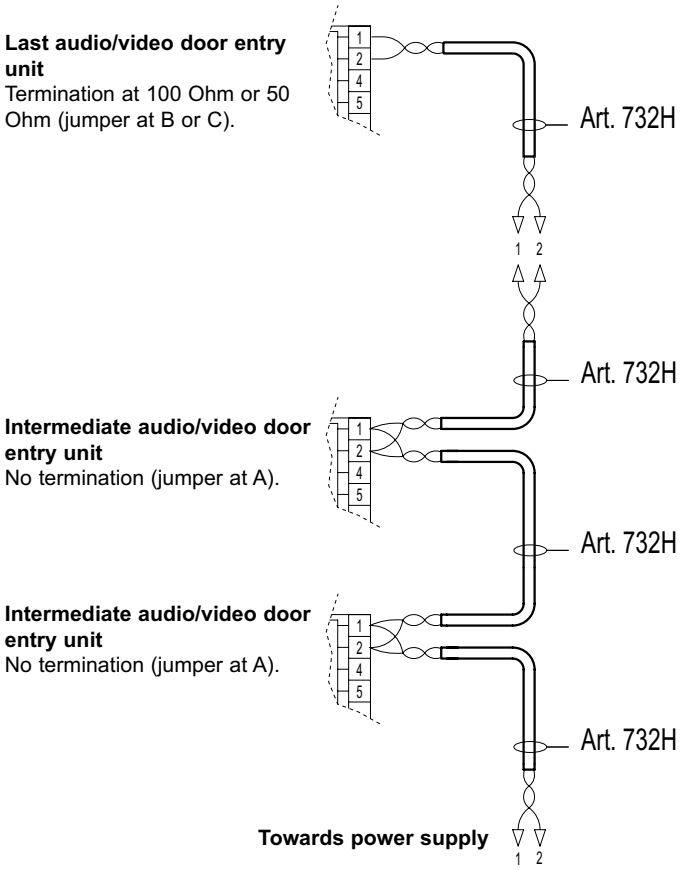
Connections for video door entry systems

For connecting appliances in the video systems (black/white and colour) it is necessary to branch and distribute the connections by means of appropriate devices and load the appliances, adequately, with resistive loads present in the appliance itself. The audio door entry units in a video system must also be considered as appliances equipped with a monitor and therefore be suitably connected and loaded.

Connection of the video door entry units to the pillar

The connection of video door entry units to the pillar without the aid of floor distributors requires the audio and video door entry units being connected solely with the in-out type of method, without making any other pillar outputs. With this type of connection all the audio and video door entry units that are connected along the same pillar must not be loaded except for the last one that must be terminated with a load of 50 or 100 Ohm (depending on the quality of the video signal).

Connection without floor distributor



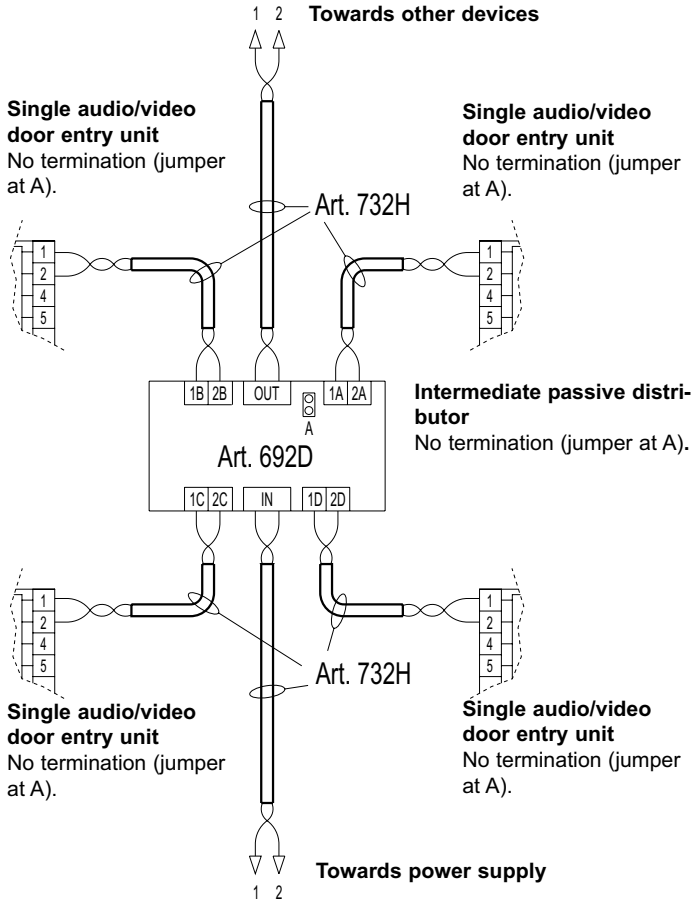
If the connection of the video and audio door entry units requires floor branching it is necessary to use video distributors. In the Two Wire system there are two models of video distributor, one is passive (art. 692D) and the other active (art. 692D/2).

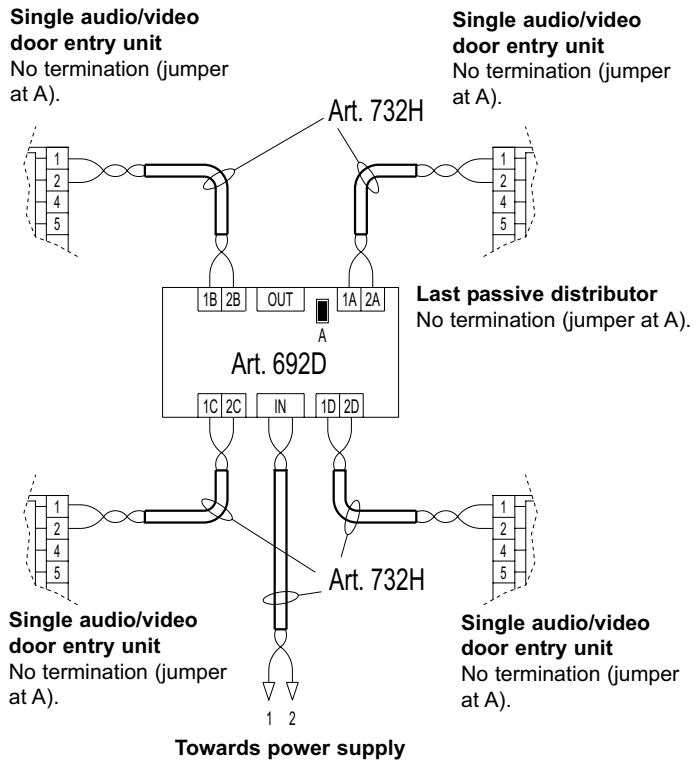
The passive distributor makes it possible to divide the pillar connection over 4 outputs without loading the pillar power supply. The maximum distance of the connection between the passive distributor output and the audio/video door entry unit is 10 m, but with a total of the 4 outputs of 30 m. By contrast, the active distributor makes it possible to divide the pillar connection over 4 outputs rebalancing the signal. The active distributor connection puts an additional load on the pillar power supply (see consumption table on page 2.8). The maximum distance of the connection between the active distributor output and the audio/video door entry unit is 20 m. It is possible to use both passive and active distributors on the same system. Installing the passive distributor is recommended in the first few sections of the pillar, when the video signal has a good level, while the active distributor is recommended in the more distance sections, when the video signal is more attenuated.

In the passive distributor it is possible, at the 4 outputs, to connect more than one audio/video door entry unit, connected in “in-out” series, but they must not be terminated.

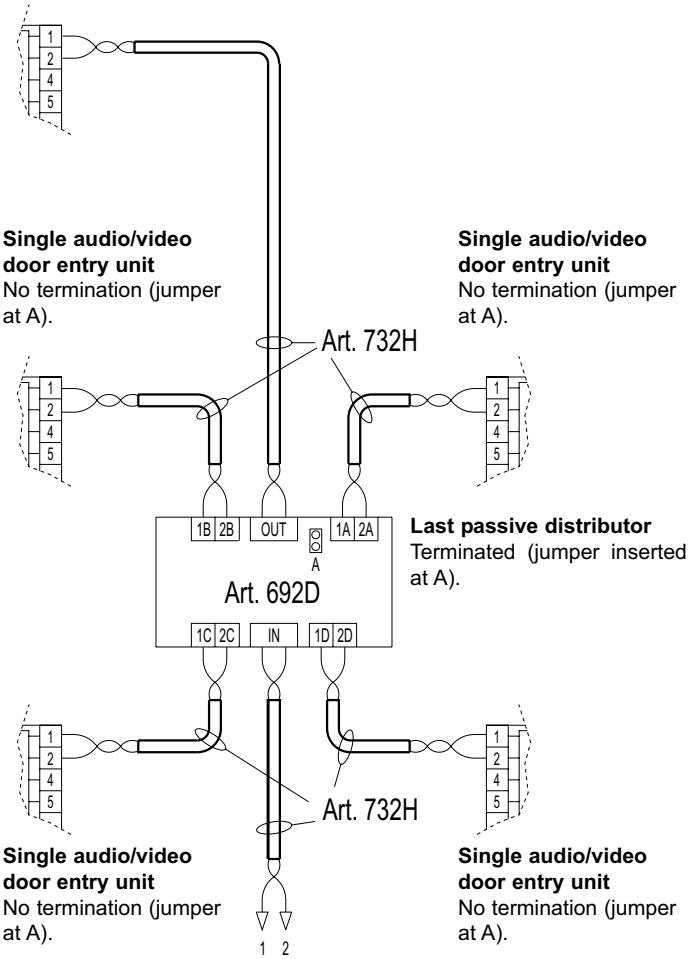
In the active distributor it is possible, at the 4 outputs, to connect more than one audio/video door entry unit, connected in (in-out) series, in which the last audio/video door entry unit must be terminated with 100 or 50 Ohm only if the video signal is not satisfactory. This is possible by respecting the maximum distance of 20 m. Both distributors, if used as the last devices of the pillar, must be terminated, see the following examples.

Connection with passive floor distributor





Last audio/video door entry unit
Termination at 100 Ohm or 50 Ohm (jumper at B or C).



Single audio/video door entry unit
No termination (jumper at A).

Single audio/video door entry unit
No termination (jumper at A).

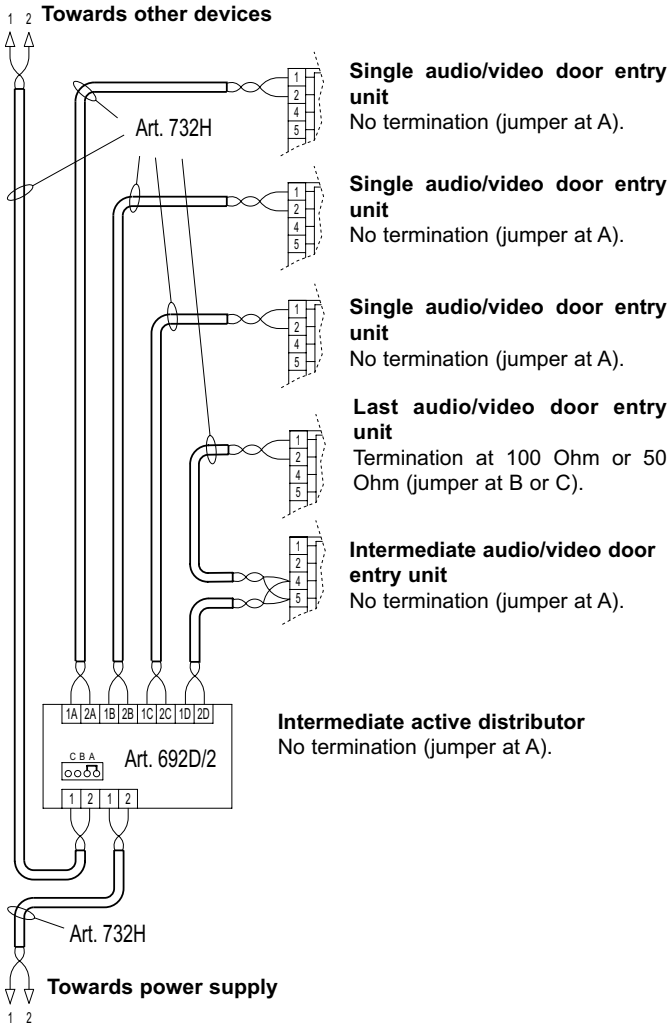
Last passive distributor
Terminated (jumper inserted at A).

Single audio/video door entry unit
No termination (jumper at A).

Single audio/video door entry unit
No termination (jumper at A).

Towards power supply

Connection with active floor distributor



Single audio/video door entry unit
No termination (jumper at A).

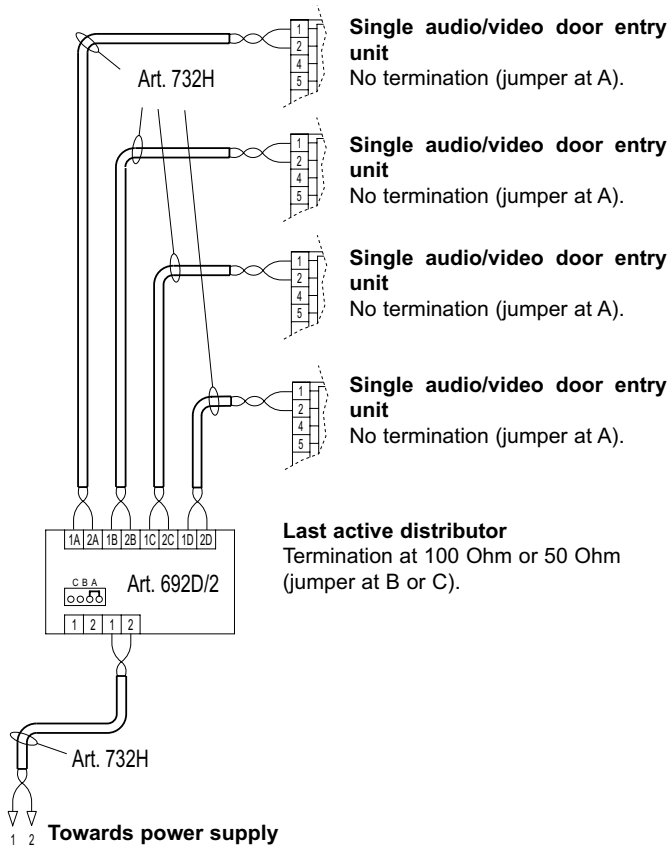
Single audio/video door entry unit
No termination (jumper at A).

Single audio/video door entry unit
No termination (jumper at A).

Last audio/video door entry unit
Termination at 100 Ohm or 50 Ohm (jumper at B or C).

Intermediate audio/video door entry unit
No termination (jumper at A).

Intermediate active distributor
No termination (jumper at A).



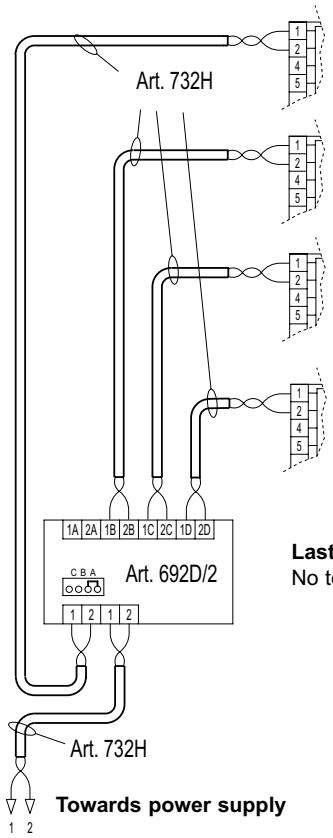
Single audio/video door entry unit
No termination (jumper at A).

Single audio/video door entry unit
No termination (jumper at A).

Single audio/video door entry unit
No termination (jumper at A).

Single audio/video door entry unit
No termination (jumper at A).

Last active distributor
Termination at 100 Ohm or 50 Ohm (jumper at B or C).



Last audio/video door entry unit
Termination at 100 Ohm or 50 Ohm (jumper at B or C).

Single audio/video door entry unit
No termination (jumper at A).

Single audio/video door entry unit
No termination (jumper at A).

Single audio/video door entry unit
No termination (jumper at A).

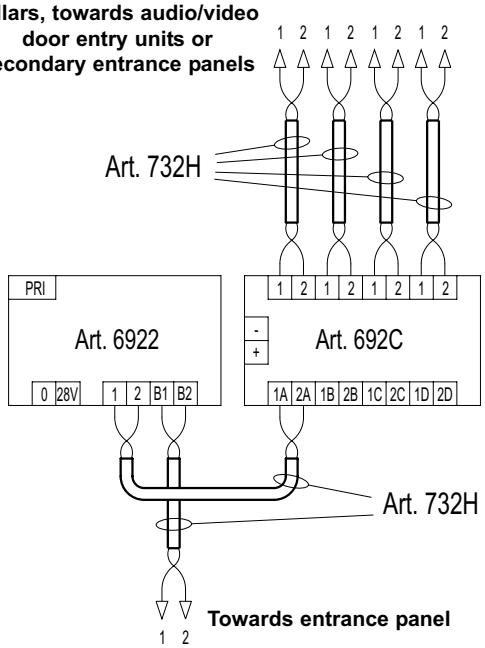
Last active distributor
No termination (jumper at A).

Connection of the video door entry units on a number of pillars

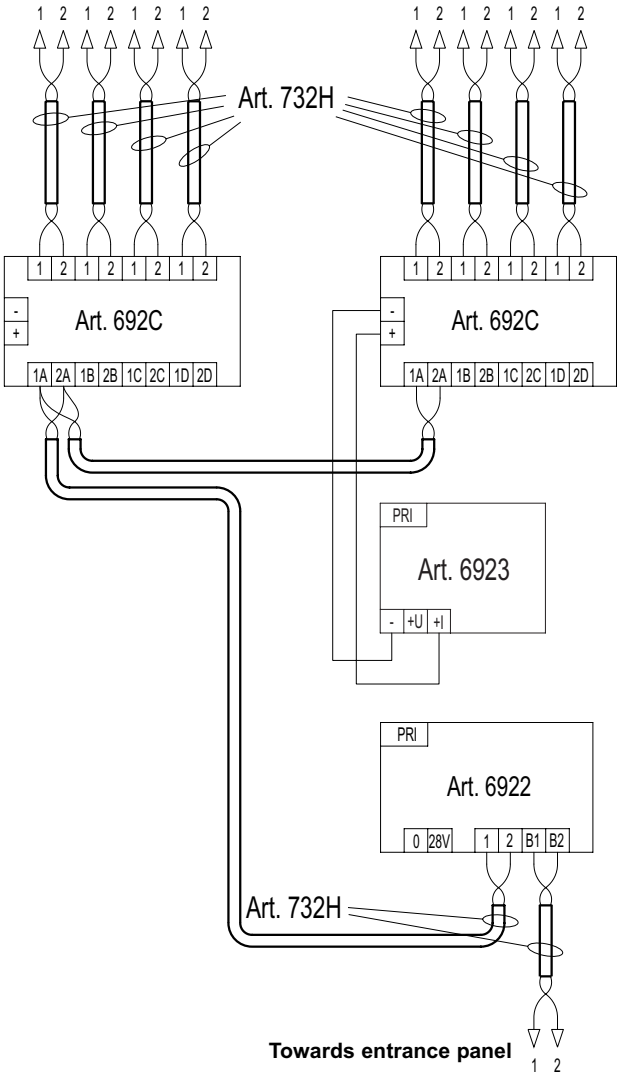
Making a number of column pillars is possible by using the concentrator art. 692C as a distributor. The concentrator connection puts an additional load on the pillar power supply (see consumption table on page 2.8) and may require a supplementary power supply unit.

Connection of concentrator as a distributor for column pillars.

Pillars, towards audio/video door entry units or secondary entrance panels



Pillars, towards audio/video door entry units or secondary entrance panels

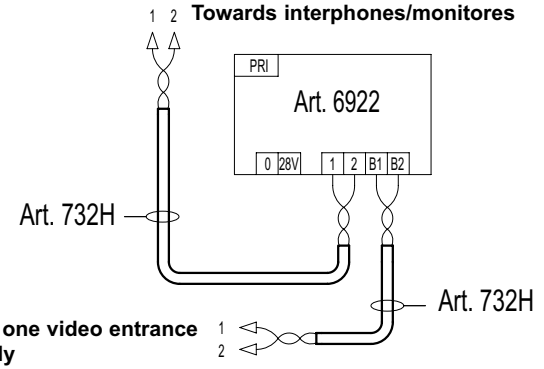


Connecting the entrance panels to the power supply unit

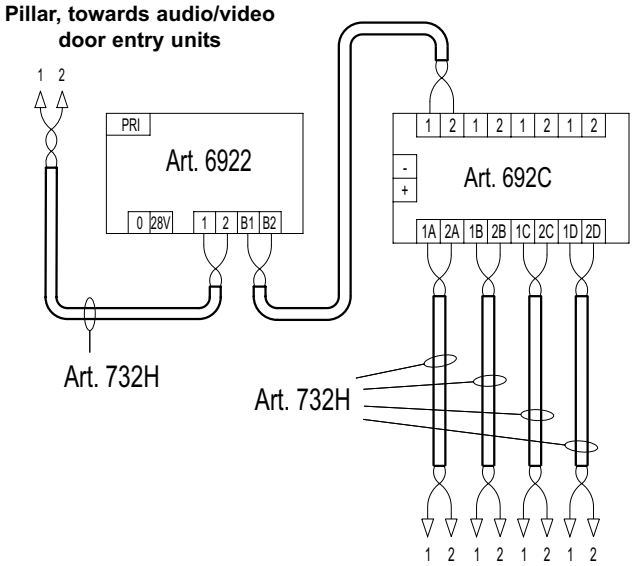
Connecting a single video entrance panel to a Two Wire system must be done by directly connecting the entrance panel to the power supply unit art. 6922. Whereas, when multiple entrance panels are to be connected in parallel in a video door entry system, it is necessary to use the concentrator art. 692C for switching the video signals from the entrance panels in parallel.

This rule must be observed also when there is only one video entrance panel connected in parallel with other audio entrance panels.

The power supply of the entrance plates connected in parallel is supplied by the supplementary power supply unit art. 6922. If the number of entrance panels exceeds that permitted by the power supply unit, it is necessary to add a supplementary power supply unit art. 6923 to the entrance panels (see consumption table on page 2.8 and connection diagrams).



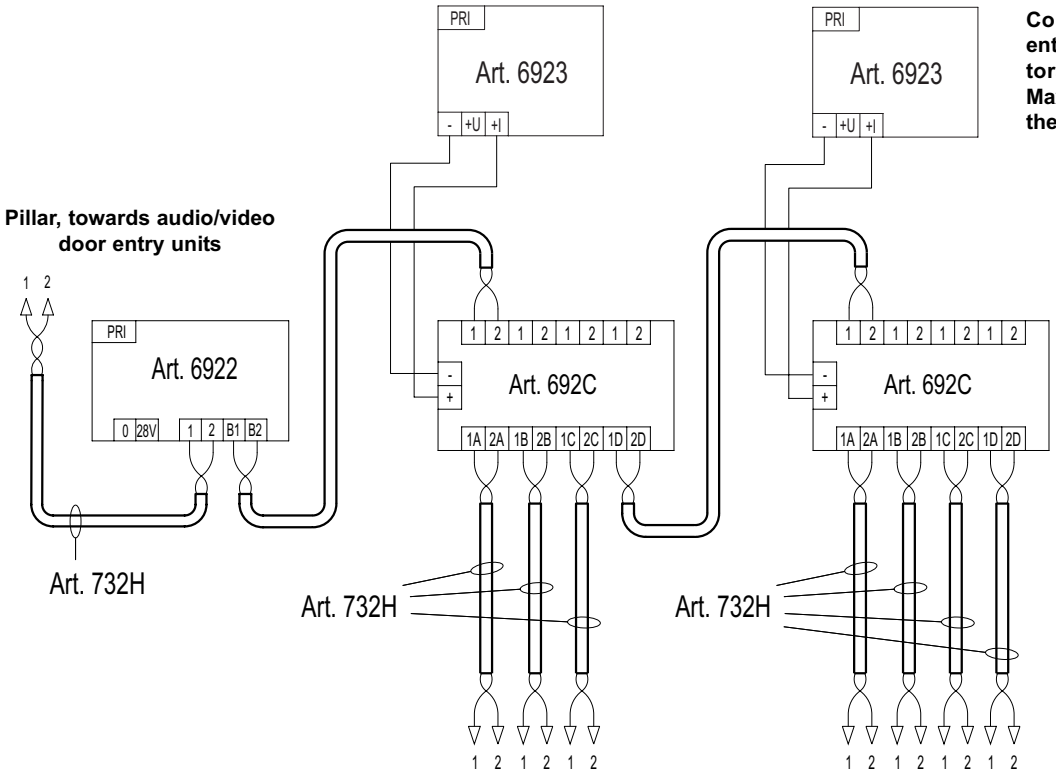
Connection of up to 4 entrance panels with 1 concentrator.



Towards 4 entrance panels, of which one must be the video type

N.B. Depending on the type of entrance panel and the number of entrance panels it is necessary to add supplementary power supply units art. 6923 for the entrance panels (see connection diagrams and consumption table on page 2.8).

Connection of multiple video entrance panels with concentrators connected in cascade. Maximum 15 entrance panels in the same system.



Towards 7 entrance panels, of which one must be the video type.

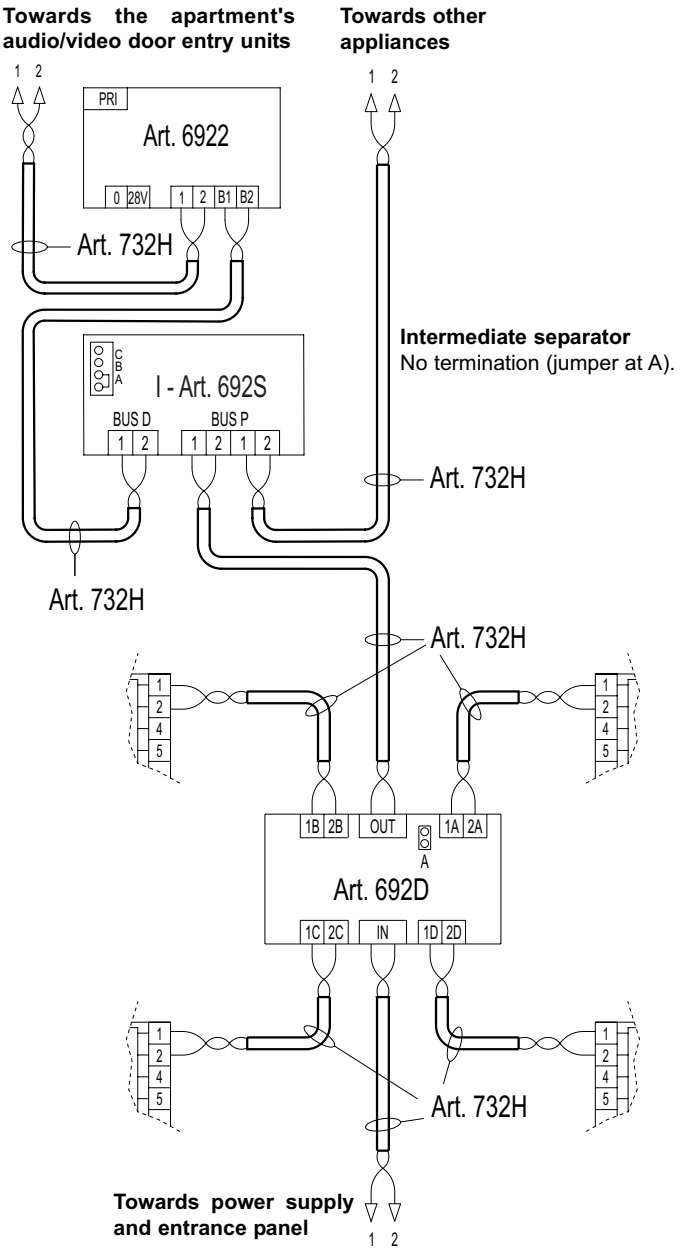
N.B. Depending on the type of entrance panel and the number of entrance panels it is necessary to add supplementary power supply units art. 6923 for the entrance panels (see connection diagrams and consumption table on page 2.8).

Conversation islands
By using the separator art. 692S it is possible to create a number of independent conversation islands within the same system, but which interact with each other only when a specific call involves the island's user.

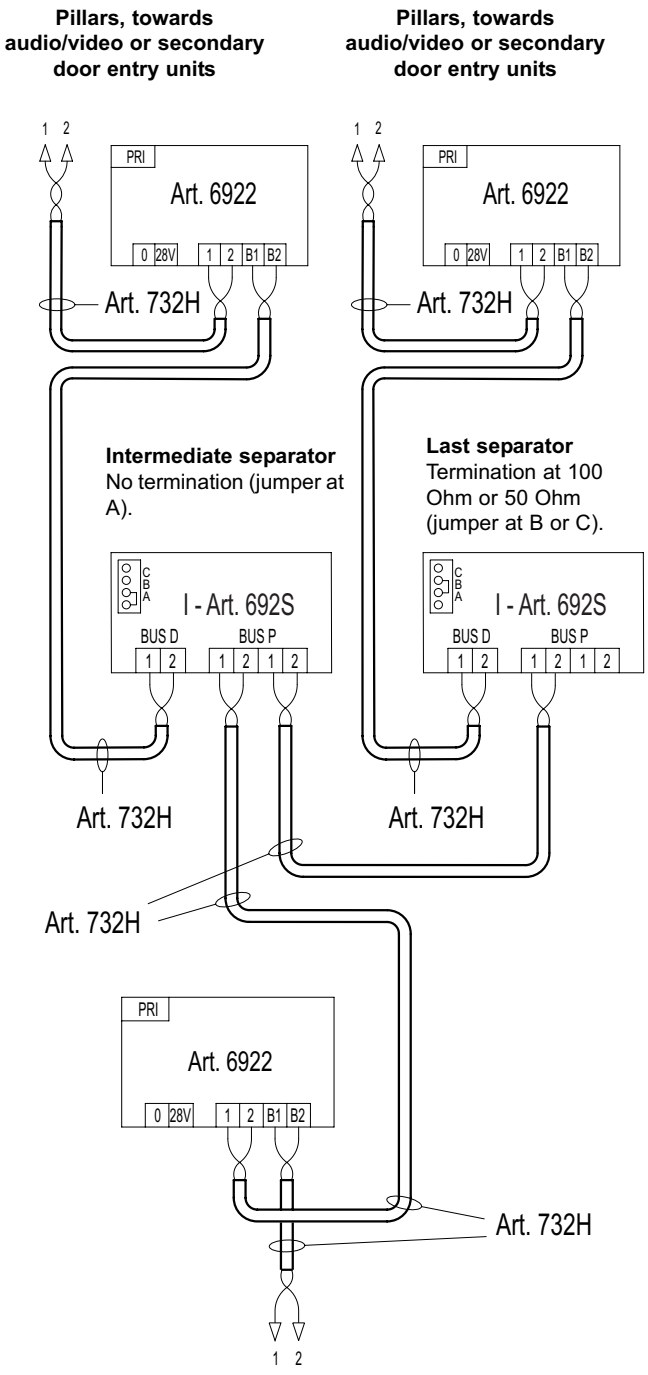
The separator is used for the following applications that can all co-exist in the same system.
- Construction of a network of audio/video door entry units intercom with each other.
- Connection of a dedicated audio or video entry panel to the single apartment.
- Connection of one or more buildings, with its own entrance panel at the foot of the stairs, with one or more main entrance panels (building complex type of configuration).

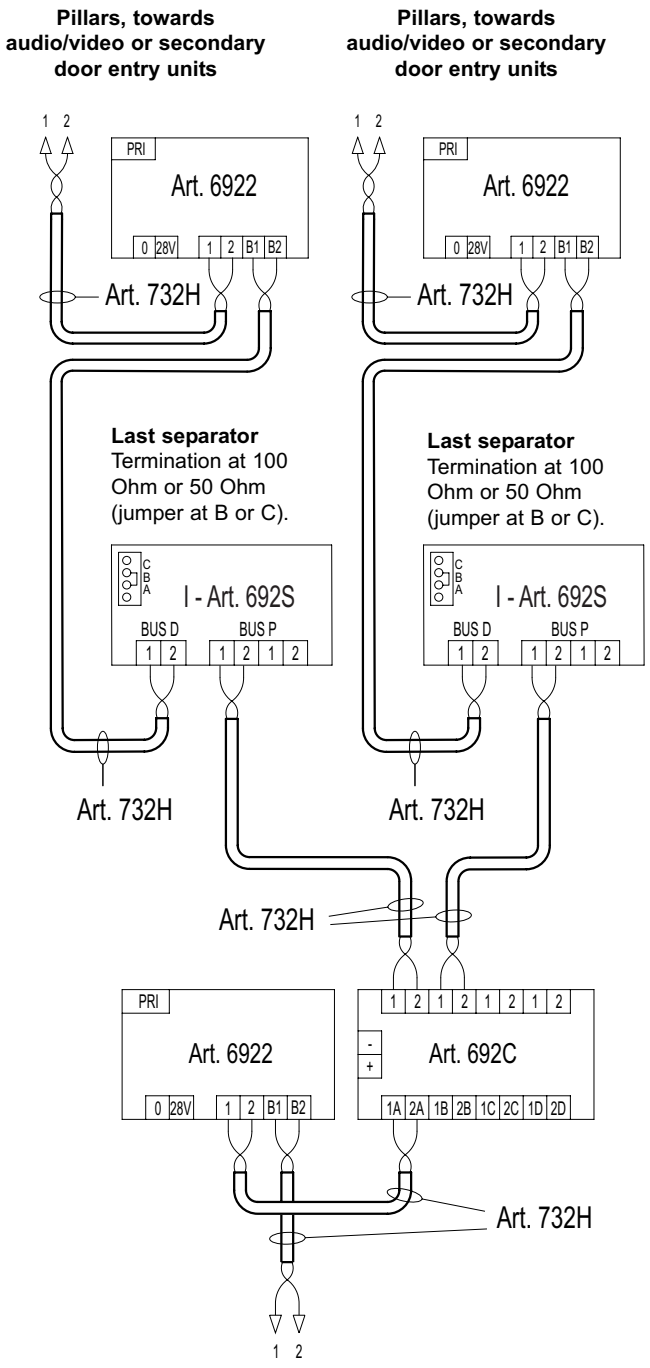
The connection of a separator art. 692S always requires a power supply unit art. 6922, and in the same system it is possible to connect up to at most 16 separators.

Connection along the audio or video door entry pillar
Installing the separator along the pillar requires a connection in series (in-out). Output connections to the video distributors are not possible. In the case of a video door entry pillar, the separator must also be terminated like a video door entry unit; no termination if it is in between other devices, terminated at 100 Ohm or 50 Ohm if it is the last device in the series.



Connection by star branching
In the case of building complex systems, in which there is one or more main entrance panels and one or more buildings with its own entrance panel at the foot of the stairs, the separator is used to cut off the building from the rest of the system.
If the system is the video door entry type, the separators can be connected in series or in a star by means of the concentrator. In any case, the separators must be terminated like a video door entry unit; no termination if it is in between other devices, terminated at 100 Ohm or 50 Ohm if it is the last device in the series.




Pillars, towards audio/video or secondary door entry units
Pillars, towards audio/video or secondary door entry units
1 2
PRI
Art. 6922
0 28V 1 2 B1 B2
Art. 732H
Last separator
Termination at 100 Ohm or 50 Ohm (jumper at B or C).
C B A
I - Art. 692S
BUS D
BUS P
1 2 1 2 1 2
Art. 732H
Art. 732H
Art. 732H
PRI
Art. 6922
0 28V 1 2 B1 B2
Art. 692C
- +
1 2 1 2 1 2 1 2
1A 2A 1B 2B 1C 2C 1D 2D
Art. 732H
1 2
Towards main entrance panels

Additional supply voltages

In “Elvox TWO WIRE ” installations, power supply type 6922 powers all the appliances: entrance panels, interphones, monitors, concentrators, distributors. When the maximum load of the appliances exceeds the maximum load of the power supply it is necessary to add supplementary power supplies. The insertion of a separator together with a power supply type 6922 in the installation, splits the appliance charge upstream of the separator from the appliances downstream of the separator.

Power supply type 6923

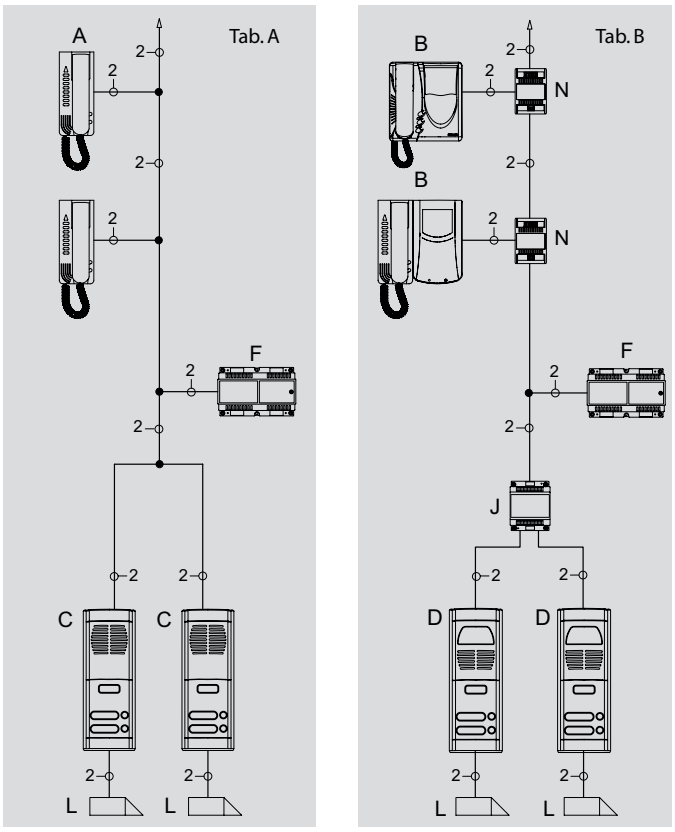
The additional power supply type 6923 is to be used to power electronic entrance panels, monitors and concentrators supporting the main power supply type 6922. When there is a lodge switchboard there must always be installed a power supply type 6923 dedicated to the switchboard.
The power supply is required when there are more video entrance panels installed and/or when there are more monitors turning on simultaneously at the same call. The power supply can power only one particular appliance: entrance panel or monitor. The tables show when it is necessary to use a power supply type 6923 according to the number of entrance panels mounted in the installation and according to the number of interphones or monitors activated/turned on simultaneously.
A power supply type 6922 powers up to 3 units simultaneously. If additional units are required, it is necessary a power supply type 6923 for each unit added. If the consumption exceeds the 3 units, use one power supply type 6923 to power the monitors and the entrance panels and leave the power supply type 6922 dedicated to other appliances.

Consumption for unit:

1 video entrance panel switched on	= 1 unit
1 audio entrance panel switched on	= 1/2 unit
1 entrance panel not switched on/engaged	= 1/4 unit
1 monitor switched on	= 1 unit
1 concentrator type 692C	= 1/3 unit
1 active distributor type 692D/2	= 1/20 unit

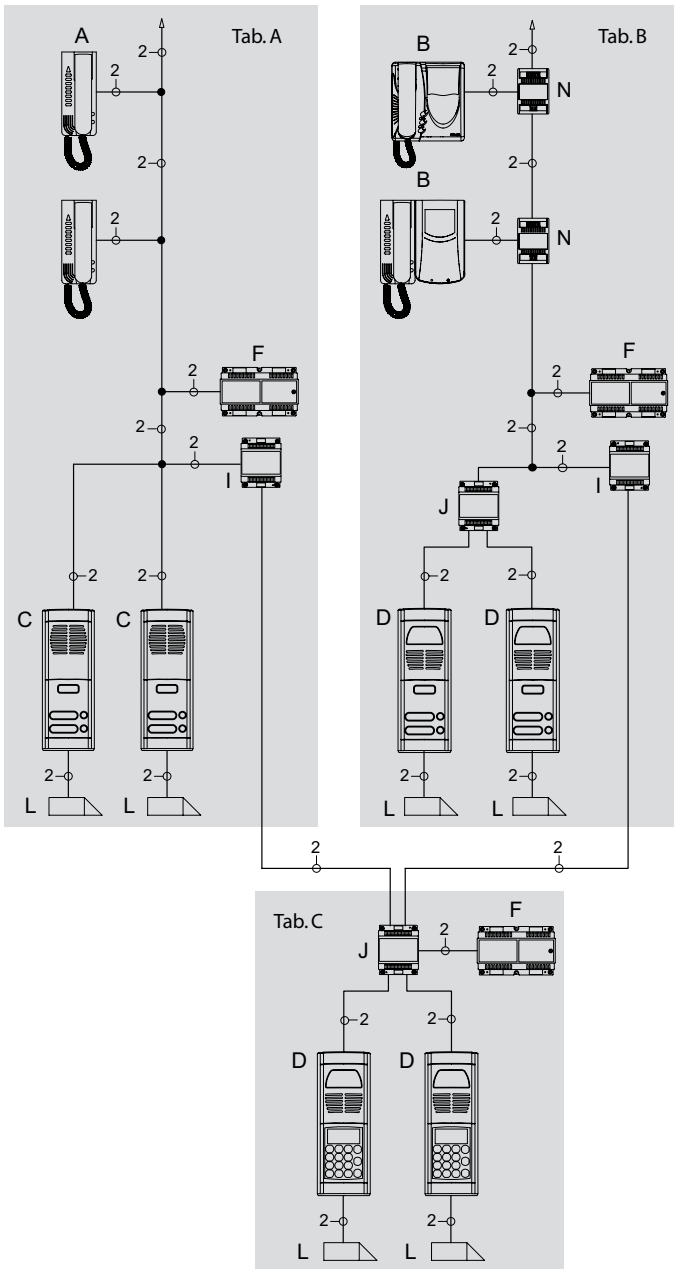
Attention: when using active distributors, it is not possible to power them separately with the additional power supply.

Example of audio and video installation in a building:



The hereby wiring diagrams are reference examples for the tables to follow (Tab. A, Tab. B and Tab. C) for the insertion of the additional power supply type 6923.

Example of video entrance panel system for building complex



A – Interphone
B – Video interphone
C – Electronic audio entrance panel
D – Electronic video entrance panel
F – Power supply type 6922
I – Separator type 692S
J - Concentrator type 692C
L – Door lock
N – Video distributor type 692D or 692D/2

Table for audio entrance panel systems with 1 or more entrance panels connected in parallel and one audio riser.

Table A.

Number of audio entrance panels connected in parallel. 1 active and the others engaged (89F3/…, 89F4)	Number of interphones inserted with the same call	Number of power supplies Art. 6923
From 1 to 10	From 1 to 8	0
From 11 to 15	From 1 to 8	From 1 to 5 (one type 6923 added for each entrance panel from 11th to 15th)

Table for video installations with 1 or more entrance panels connected in parallel and a video riser.

Table B.

Number of audio entrance panels connected in parallel, 1 active and the other engaged (89F3/…, 89F4)	Number of video entrance panels connected in parallel, 1 active and the others engaged (89F5/…, 89F7)	Number of concentrators (Art. 692C)	Number of interphones inserted with the same call	Number of monitors turned on simultaneously at the same call	Number of power supplies Art. 6923
0	1	0	From 1 to 8	From 1 to 2	0
0	1	0	From 1 to 8	From 3 to 8	From 1 to 6 (one type 6923 added for each monitor from the 3rd to the 8th)
0	From 2 to 3	1	From 1 to 8	1	0
0	From 2 to 3	1	From 1 to 8	From 2 to 3	From 3 to 4 (one type 6923 added for each entrance panel and for the concentrator)
0	From 2 to 3	1	From 1 to 8	From 2 to 8	From 1 to 7 (on e type 6923 added for each monitor from the 2nd. to the 8th)
0	4	1	From 1 to 8	1	1 (one type 6923 added for the concentrator)
0	4	1	From 1 to 8	From 2 to 8	From 2 to 8 (one type 6923 added for the concentrator and one 6923 for each monitor from the 2nd to the 8th)
0	5	2	From 1 to 8	1	2 (one type 6923 added for each concentrator)
0	From 6 to 15	From 2 to 5	From 1 to 8	1	From 6 to 15 (one type 6923 added for each entrance panel)
0	From 6 to 15	From 2 to 5	From 1 to 8	From 2 to 3	From 8 to 20 (one type 6923 added for each entrance panel and for each concentrator)
0	From 6 to 15	From 2 to 5	From 1 to 8	From 2 to 8	From 7 to 23 (one type 6923 for each entrance panel, for each monitor from the 2nd to the 8th)
2	1	1	From 1 to 8	1	0
2	1	1	From 1 to 8	From 2 to 8	From 1 to 7 (one type 6923 added for each monitor from the 2nd to the 8th).
1	2	1	From 1 to 8	1	0
1	2	1	From 1 to 8	From 2 to 8	From 1 to 7 (one type 6923 added for each monitor from the 2nd to the 8th).
3	1	1	From 1 to 8	1	1 (one type 6923 added for the concentrator)
1	3	1	From 1 to 8	1	1 (one type 6923 added for the concentrator)

In Table B we have anticipated that the monitors programmed with the same call code all light up simultaneously.
It is possible to program the monitors (connected in parallel) in such a way that only one lights up at the call, while the others remain switched off. The monitor turned off can be turned on by using the self-start function. This solution saves you from having to connect supplementary power supplies to the monitors.

Table for audio and video entrance panel systems in building complex with 1 or more entrance panels connected in parallel.

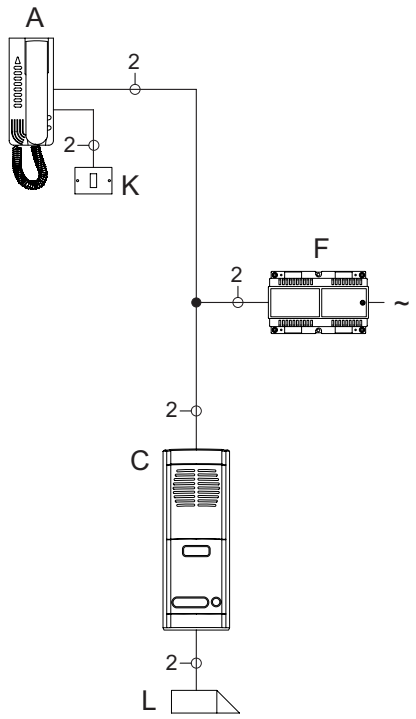
Tab C.

Number of audio entrance panels connected in parallel, 1 active and the other engaged (89F3/…, 89F4)	Number of video entrance panels connected in parallel, 1 active and the others engaged (89F5/…, 89F7)	Number of concentrators (Art. 692C)	Number of power supplies Art. 6923
From 1 a 11	0	0	0
From 12 a 14	0	0	From 1 to 3 (one type 6923 added for each entrance panel from the 12rd to the 14th)
0	From 1 to 6	From 1 to 2	0
0	From 7 to 14	From 2 to 5	From 2 to 13 (one type 6923 added for each monitor and one type 6923 for each entrance panel from the 7rd to the 14th)
From 1 a 3	1	1	0
1	From 1 to 3	1	0
3	4	2	2 (one type 6923 added for each concentrator)

Power supply unit type 6582

The supplementary power supply unit type 6582 is to be used to power the LEDs for lighting the name tags in the supplementary modules of the electronic entrance panels. With up to 4 supplementary modules the lighting system can be powered directly by the standard modules of the entrance panel. With 5 or more supplementary modules it is necessary to use a power supply unit type 6582, which powers all the supplementary modules of a single specific entrance panel.

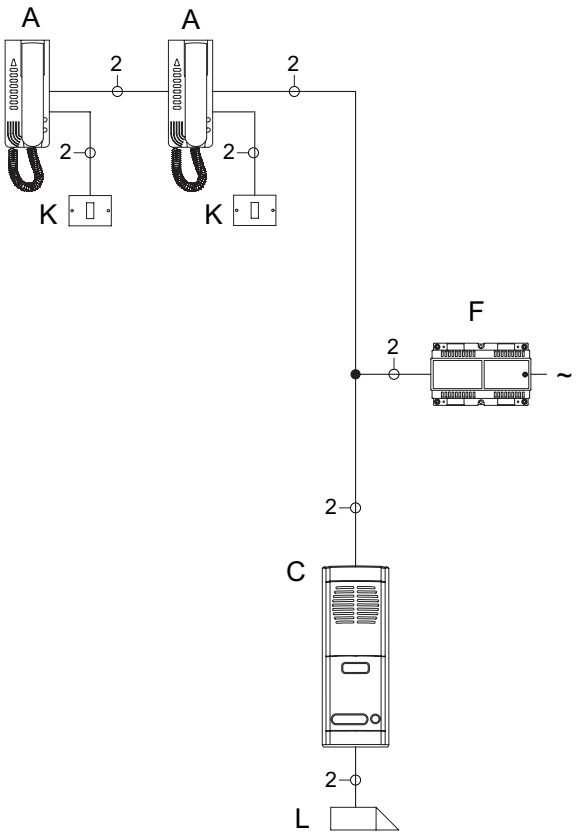
1- SIMPLE CONDOMINIUM SYSTEM WITH PETRARCA SERIES AUDIO DOOR ENTRY UNITS



A- Audio door entry unit Art. 6209, 8879, 6601/AU, 660C/AU, 6701/AU, 6611/AU, 661C/AU, 6711/AU
C- External entrance panel Art. 89F3/..., 89F4
F: Power supply unit Art. 6922
K- Door call button
L- 12V~ 1A electric lock

N° SB1295

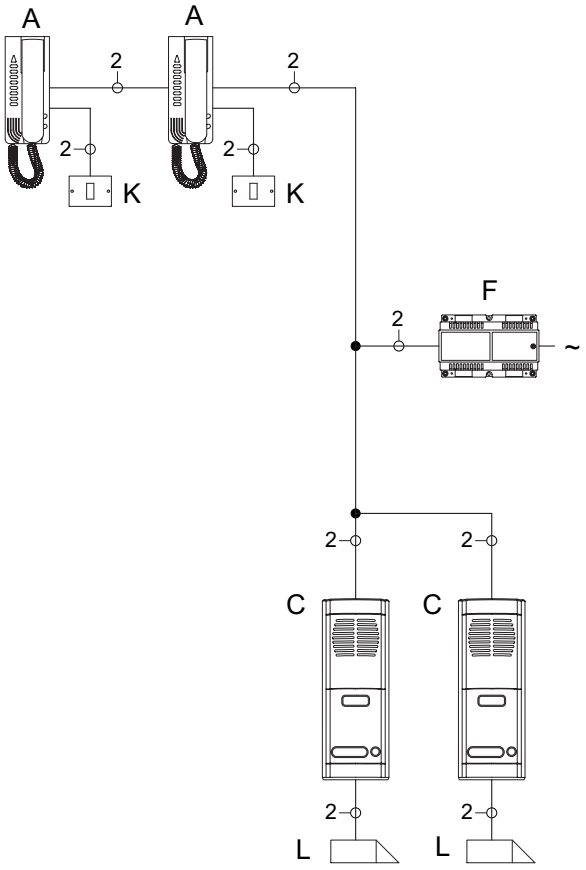
2- SIMPLE CONDOMINIUM SYSTEM WITH TWO AUDIO DOOR ENTRY UNITS IN PARALLEL OR INTERCOM



A- Audio door entry unit Art. 6209, 8879, 6601/AU, 660C/AU, 6701/AU, 6611/AU, 661C/AU, 6711/AU
C- External entrance panel Art. 89F3/..., 89F4
F: Power supply unit Art. 6922
K- Door call button
L- 12V~ 1A electric lock

N° SB1296

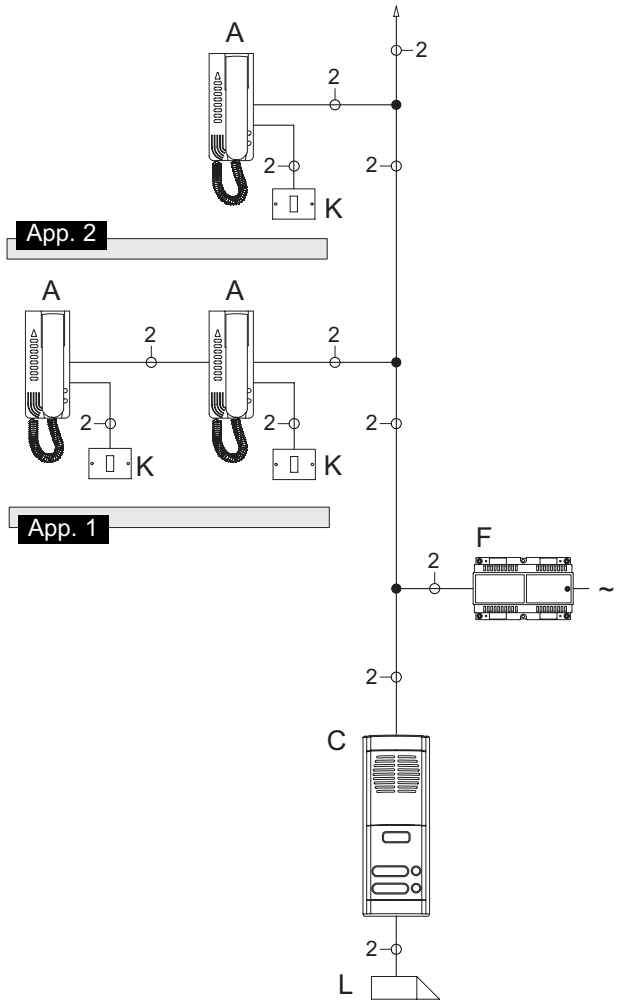
3- SIMPLE CONDOMINIUM SYSTEM WITH TWO ENTRANCE PANELS AND TWO AUDIO DOOR ENTRY UNITS IN PARALLEL OR INTERCOM



A- Audio door entry unit Art. 6209, 8879, 6601/AU, 660C/AU, 6701/AU, 6611/AU, 661C/AU, 6711/AU
C- External entrance panel Art. 89F3/..., 89F4
F: Power supply unit Art. 6922
K- Door call button
L- 12V~ 1A electric lock

N° SB1297

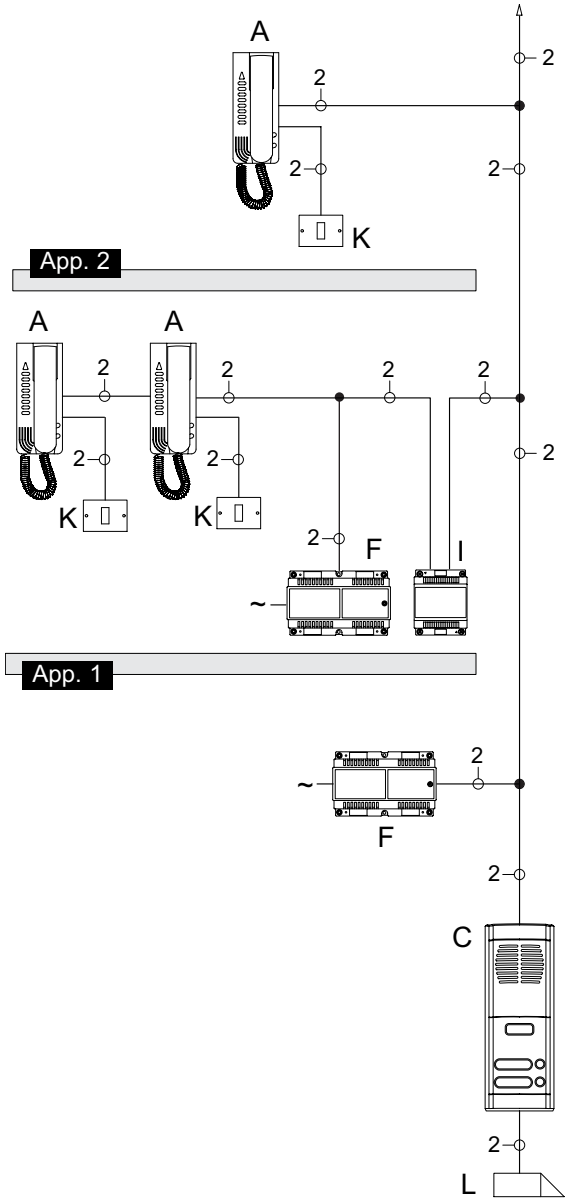
4- CONDOMINIUM SYSTEM WITH TWO AUDIO DOOR ENTRY UNITS IN PARALLEL



A- Audio door entry unit Art. 6209, 8879, 6601/AU, 660C/AU, 6701/AU, 6611/AU, 661C/AU, 6711/AU
C- External entrance panel Art. 89F3/..., 89F4
F: Power supply unit Art. 6922
K- Door call button
L- 12V~ 1A electric lock

N° SB1298

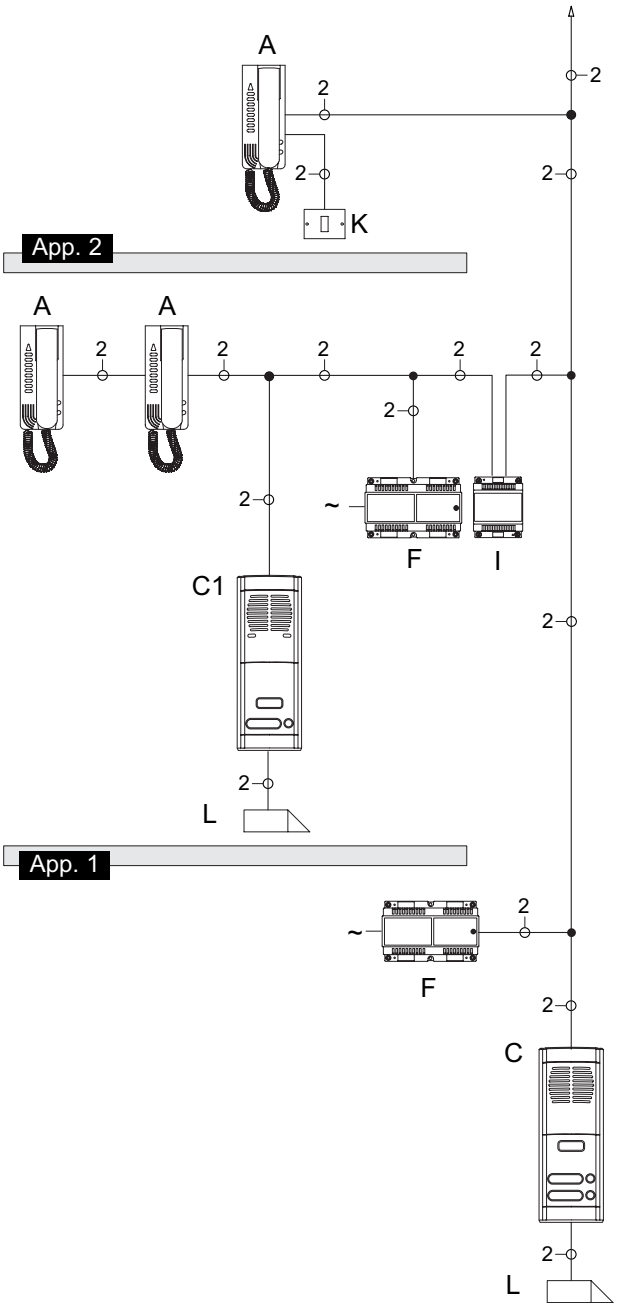
5- SIMPLE CONDOMINIUM SYSTEM WITH INTERCOM AUDIO DOOR ENTRY UNITS



A- Audio door entry unit Art. 6209, 8879, 6601/AU, 660C/AU, 6701/AU, 6611/AU, 661C/AU, 6711/AU
C- External entrance panel Art. 89F3/..., 89F4
F- Power supply unit Art. 6922
I- Separator Art. 692S (max 16 per system)
K- Door call button
L- 12V~ 1A electric lock

N° SB1299

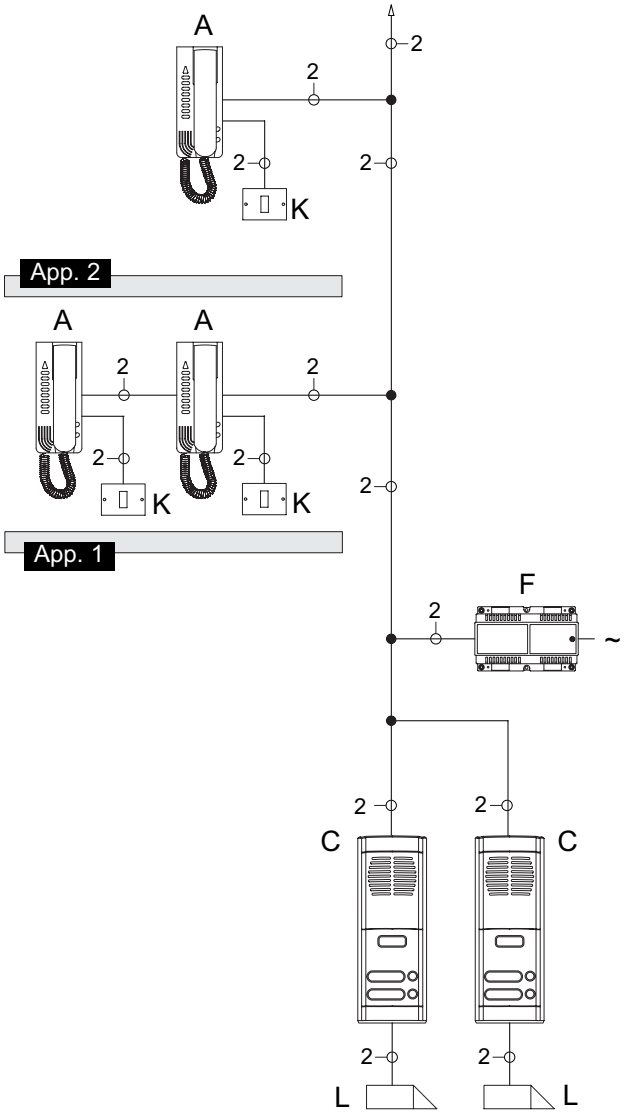
6- CONDOMINIUM SYSTEM WITH ENTRANCE PANEL OUTSIDE THE DOOR ON ONE APARTMENT



A- Audio door entry unit Art. 6209, 8879, 6601/AU, 660C/AU, 6701/AU, 6611/AU, 661C/AU, 6711/AU
C- External entrance panel Art. 89F3/..., 89F4
C1- GALILEO or 8100 external entrance panel with speech unit Art. 69AU and Engaged-Please Wait signal
F: Power supply unit Art. 6922
I- Separator Art. 692S (max 16 per system)
K- Door call button
L- 12V~ 1A electric lock

N° SB1300

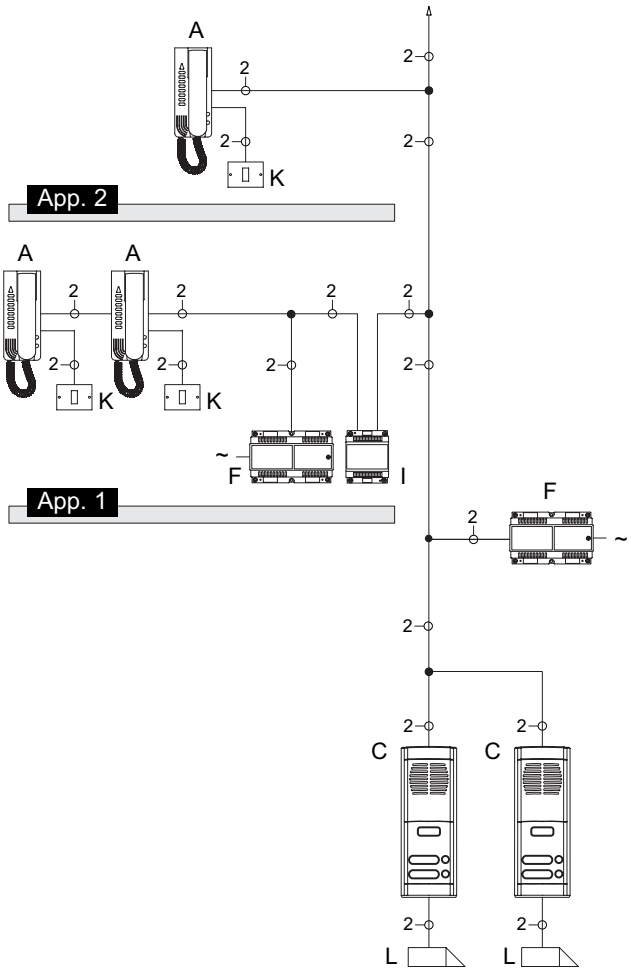
7- CONDOMINIUM SYSTEM WITH TWO MAIN ENTRANCE PANELS AND TWO AUDIO DOOR ENTRY UNITS IN PARALLEL



A- Audio door entry unit Art. 6209, 8879, 6601/AU, 660C/AU, 6701/AU, 6611/AU, 661C/AU, 6711/AU
C- External entrance panel Art. 89F3/..., 89F4
F: Power supply unit Art. 6922
K- Door call button
L- 12V~ 1A electric lock

N° SB1301

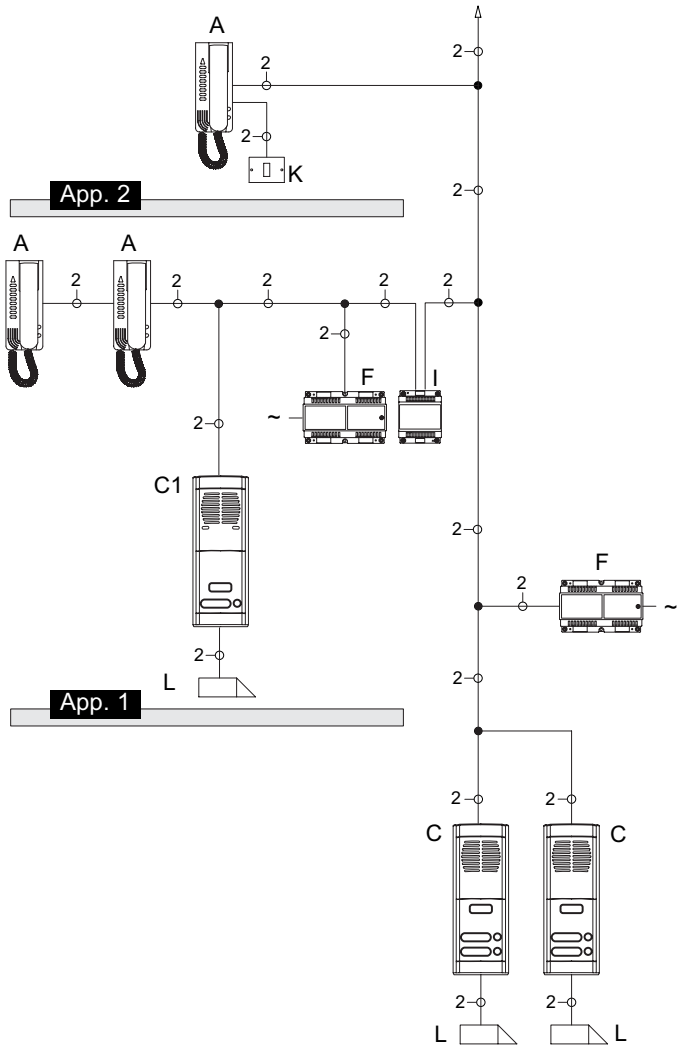
8- CONDOMINIUM SYSTEM WITH INTERCOM AUDIO DOOR ENTRY UNITS AND 2 EXTERNAL ENTRANCE PANELS



A- Audio door entry unit Art. 6209, 8879, 6601/AU, 660C/AU, 6701/AU, 6611/AU, 661C/AU, 6711/AU
C- External entrance panel Art. 89F3/..., 89F4
C1- GALILEO or 8100 external entrance panel with speech unit Art. 69AU and Engaged-Please Wait signal
F: Power supply unit Art. 6922
I- Separator Art. 692S (max 16 per system)
K- Door call button
L- 12V~ 1A electric lock

N° SB1302

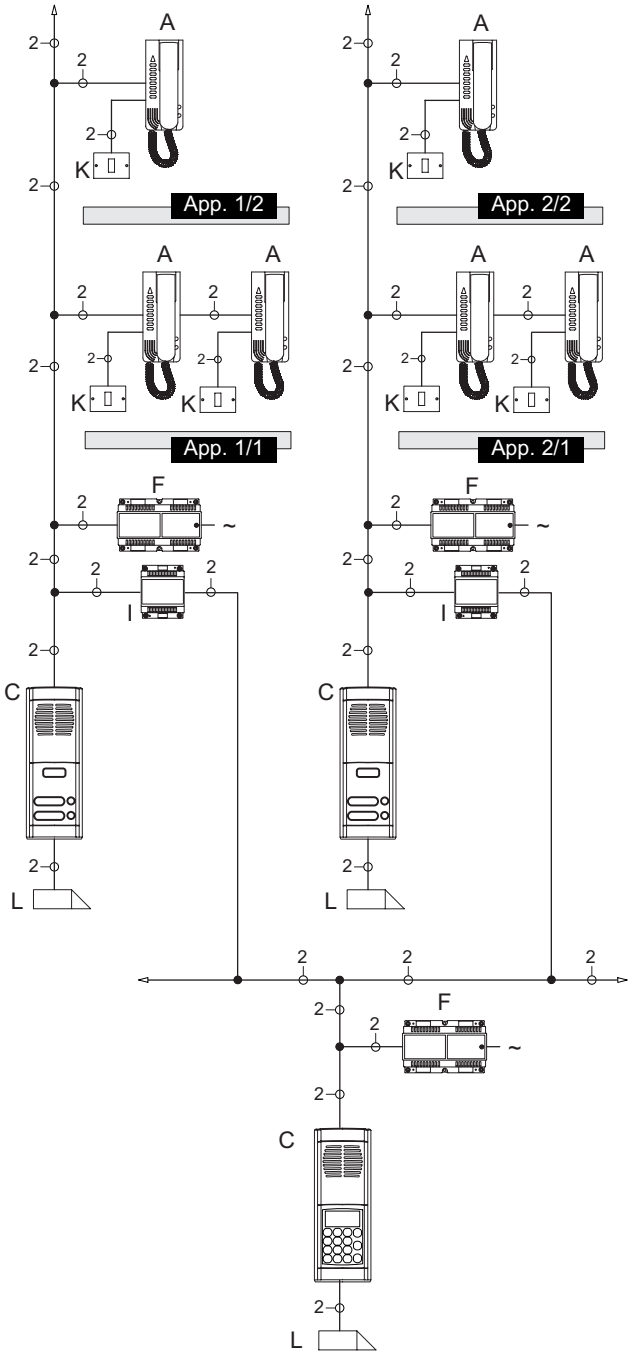
9- CONDOMINIUM SYSTEM WITH ENTRANCE PANEL OUTSIDE THE DOOR AND TWO MAIN ENTRANCE PANELS



A- Audio door entry unit Art. 6209, 8879, 6601/AU, 660C/AU, 6701/AU, 6611/AU, 661C/AU, 6711/AU
C- External entrance panel Art. 89F3/..., 89F4
C1- GALILEO or 8100 external entrance panel with speech unit Art. 69AU and Engaged-Please Wait signal
F: Power supply unit Art. 6922
I- Separator Art. 692S (max 16 per system)
K- Door call button
L- 12V~ 1A electric lock

N° SB1303

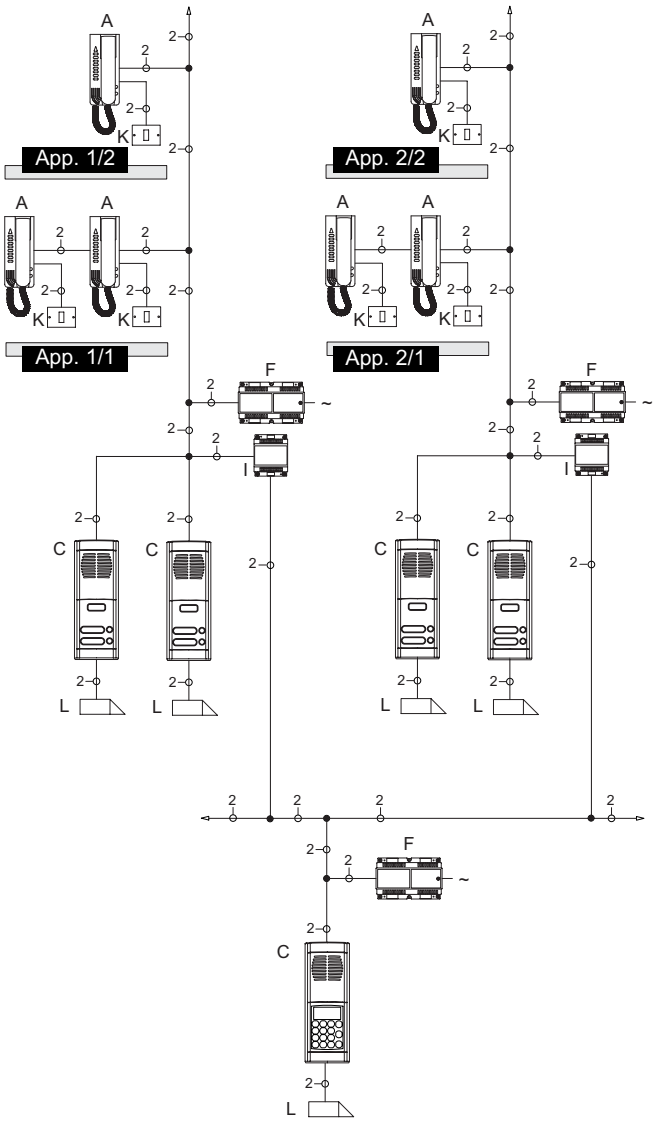
10- BUILDING COMPLEX SYSTEM



A- Audio door entry unit Art. 6209, 8879, 6601/AU, 660C/AU, 6701/AU, 6611/AU, 661C/AU, 6711/AU
C- External entrance panel Art. 89F3/..., 89F4
F- Power supply unit Art. 6922
I- Separator Art. 692S (max 16 per system)
K- Door call button
L- 12V~ 1A electric lock

N° SB1304

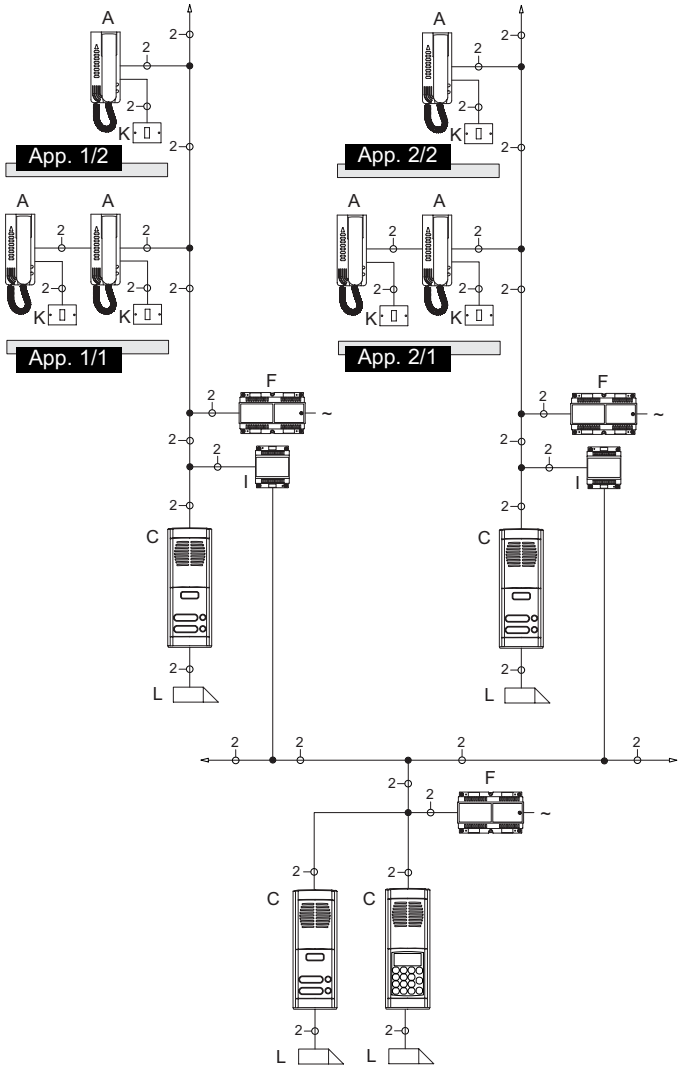
11- BUILDING COMPLEX SYSTEM WITH TWO SECONDARY ENTRANCE PANELS PER APARTMENT BLOCK



A- Audio door entry unit Art. 6209, 8879, 6601/AU, 660C/AU, 6701/AU, 6611/AU, 661C/AU, 6711/AU
C- External entrance panel Art. 89F3/..., 89F4
F- Power supply unit Art. 6922
I- Separator Art. 692S (max 16 per system)
K- Door call button
L- 12V~ 1A electric lock

N° SB1305

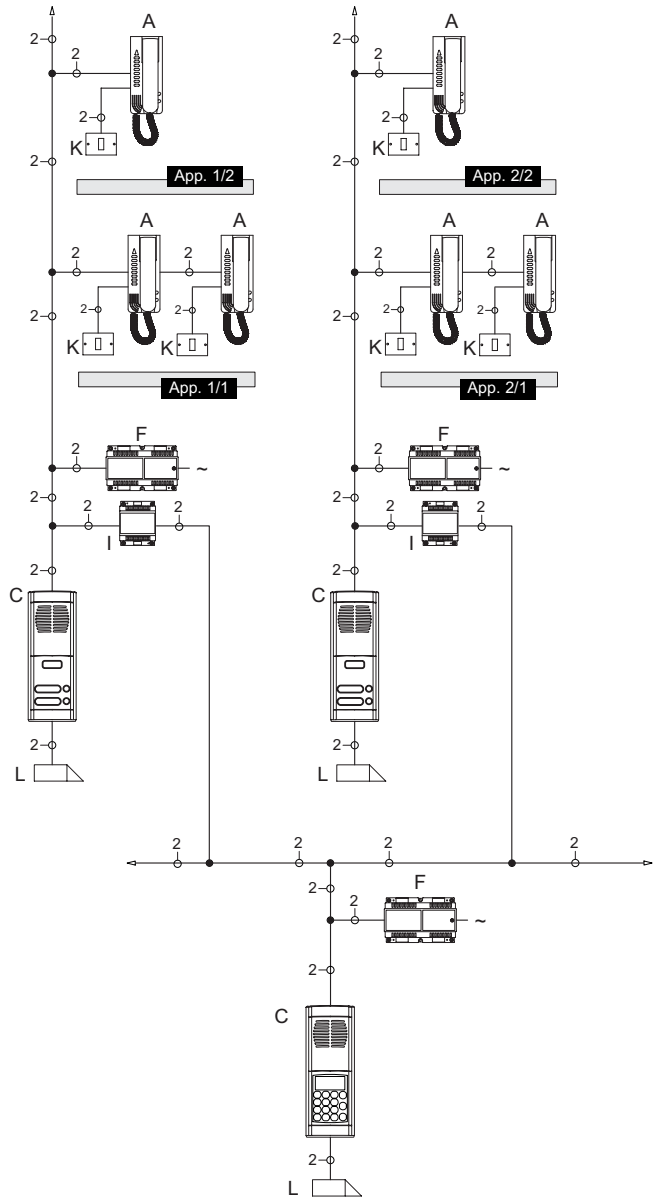
12- BUILDING COMPLEX SYSTEM WITH TWO MAIN ENTRANCE PANELS



A- Audio door entry unit Art. 6209, 8879, 6601/AU, 660C/AU, 6701/AU, 6611/AU, 661C/AU, 6711/AU
C- External entrance panel Art. 89F3/..., 89F4
F- Power supply unit Art. 6922
I- Separator Art. 692S (max 16 per system)
K- Door call button
L- 12V~ 1A electric lock

N° SB1306

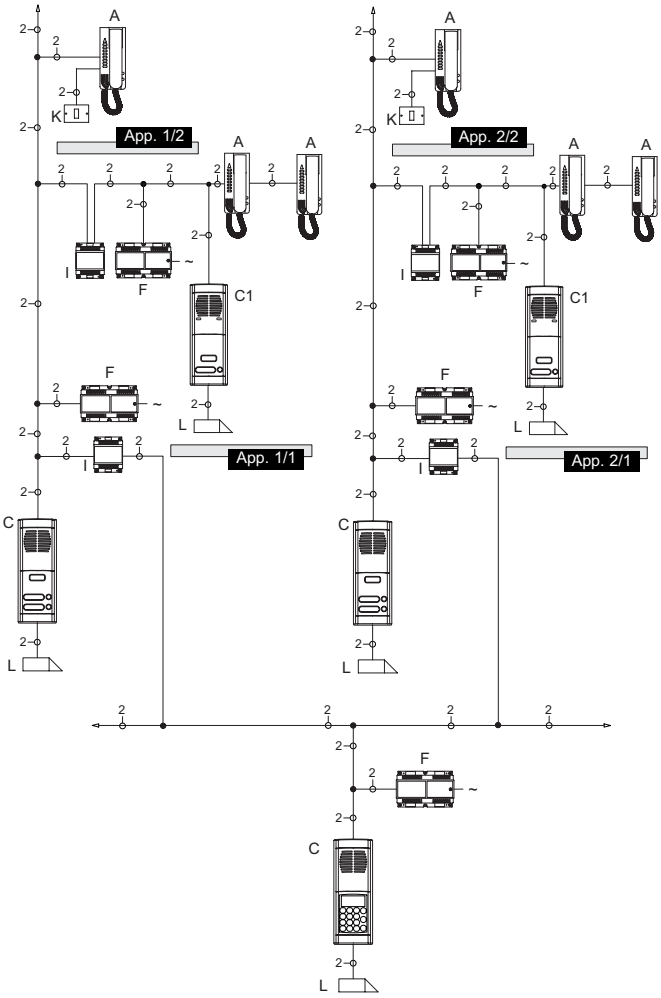
13- BUILDING COMPLEX SYSTEM WITH INTERCOM AUDIO DOOR ENTRY UNITS



A- Audio door entry unit Art. 6209, 8879, 6601/AU, 660C/AU, 6701/AU, 6611/AU, 661C/AU, 6711/AU
C- External entrance panel Art. 89F3/..., 89F4
F- Power supply unit Art. 6922
I- Separator Art. 692S (max 16 per system)
K- Door call button
L- 12V~ 1A electric lock

N° SB1307

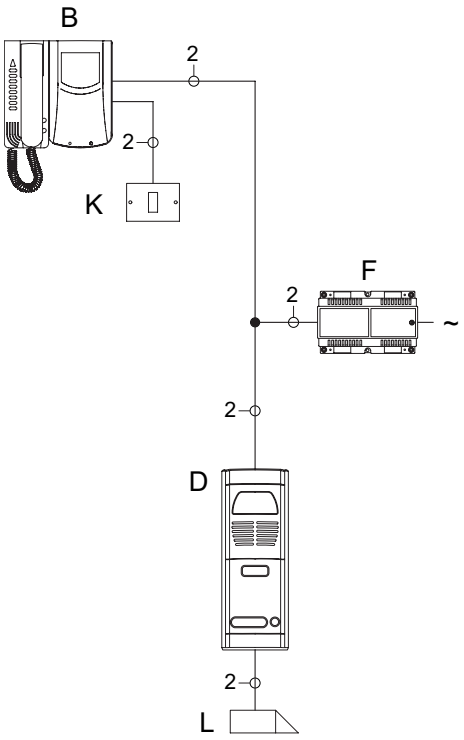
14- BUILDING COMPLEX SYSTEM WITH ENTRANCE PANELS OUTSIDE THE DOOR



A- Audio door entry unit Art. 6209, 8879, 6601/AU, 660C/AU, 6701/AU, 6611/AU, 661C/AU, 6711/AU
C- External entrance panel Art. 89F3/..., 89F4
C1- GALILEO or 8100 external entrance panel with speech unit Art. 69AU and Engaged-Please Wait signal
F: Power supply unit Art. 6922
I- Separator Art. 692S (max 16 per system)
K- Door call button
L- 12V~ 1A electric lock

N° SB1308

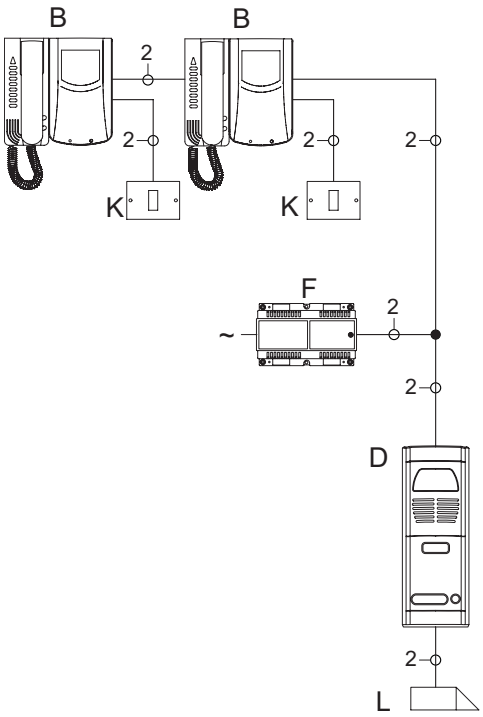
15- SIMPLE VIDEO DOOR ENTRY SYSTEM



B- Video door entry unit Art. 6309, 6309/C, 6009+6209+6145, 6009/C+6209+6145, 6601, 660C, 6701, 6611, 661C, 6711.
D- External entrance panel Art. 89F5/..., 89F5/C..., 89F7, 89F7/C
F: Power supply unit Art. 6922
K- Door call button
L- 12V~ 1A electric lock

N° SB1310

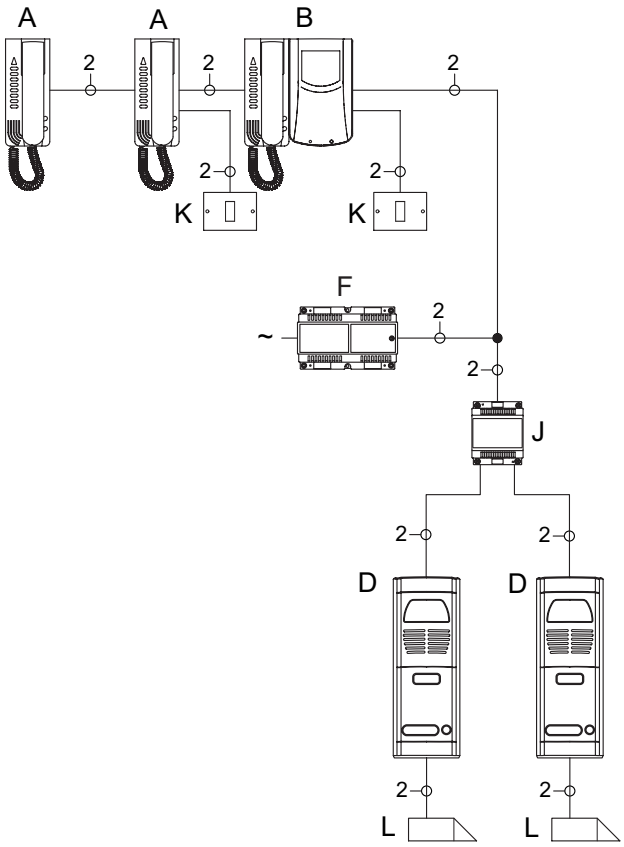
16- VIDEO DOOR ENTRY SYSTEM WITH 2 VIDEO DOOR ENTRY UNITS IN PARALLEL OR INTER-COM



B- Video door entry unit Art. 6309, 6309/C, 6009+6209+6145, 6009/C+6209+6145, 6601, 660C, 6701, 6611, 661C, 6711.
D- External entrance panel Art. 89F5/..., 89F5/C..., 89F7, 89F7/C
F: Power supply unit Art. 6922
K- Door call button
L- 12V~ 1A electric lock

N° SB1311

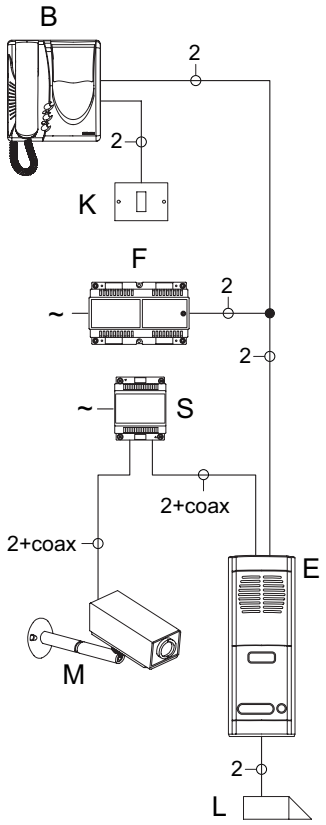
17- CONDOMINIUM VIDEO DOOR ENTRY SYSTEM WITH 2 ENTRANCE PANELS IN PARALLEL AND INTERCOM VIDEO/AUDIO DOOR ENTRY UNITS



A- Audio door entry unit Art. 6209, 8879, 6601/AU, 660C/AU, 6701/AU, 6611/AU, 661C/AU, 6711/AU
B- Video door entry unit Art. 6309, 6309/C, 6009+6209+6145, 6009/C+6209+6145, 6601, 660C, 6701, 6611, 661C, 6711.
D- External entrance panel Art. 89F5/..., 89F5/C..., 89F7, 89F7/C
F: Power supply unit Art. 6922
J- Concentrator Art. 692C
K- Door call button
L- 12V~ 1A electric lock

N° SB1313

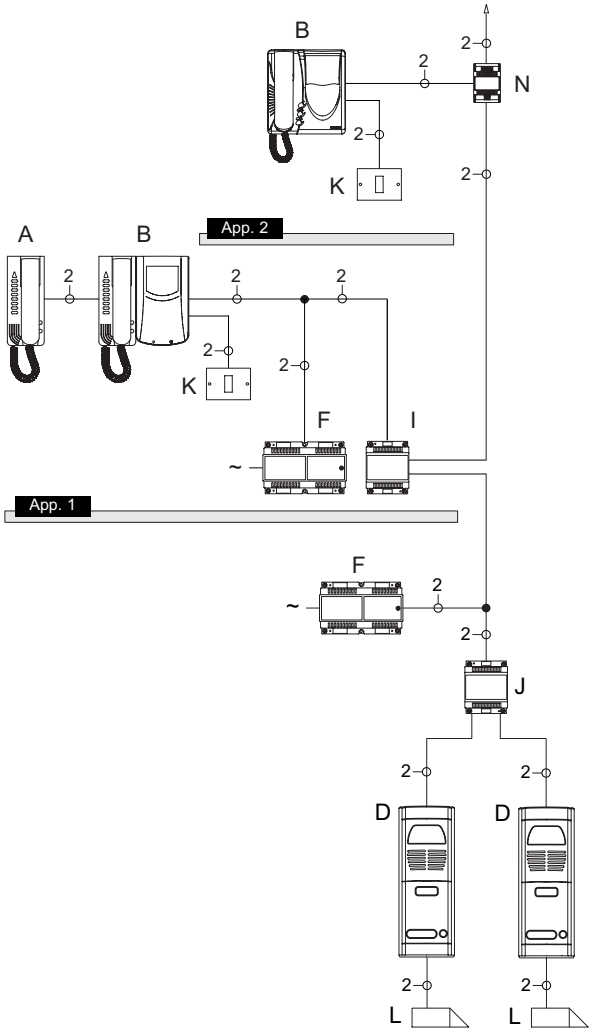
18- VIDEO DOOR ENTRY SYSTEM WITH SUPPLEMENTARY EXTERNAL VIDEO CAMERA



B- Video door entry unit Art. 6309, 6309/C, 6009+6209+6145, 6009/C+6209+6145, 6601, 660C, 6701, 6611, 661C, 6711.
E- External audio entrance panel Art. 89F9/..., 89F8.
F: Power supply unit Art. 6922
K- Door call button
L- 12V~ 1A electric lock
M- 12V d.c. CCTV-type supplementary video camera
S- Supplementary power supply unit Art. 6982.

N° SB1316

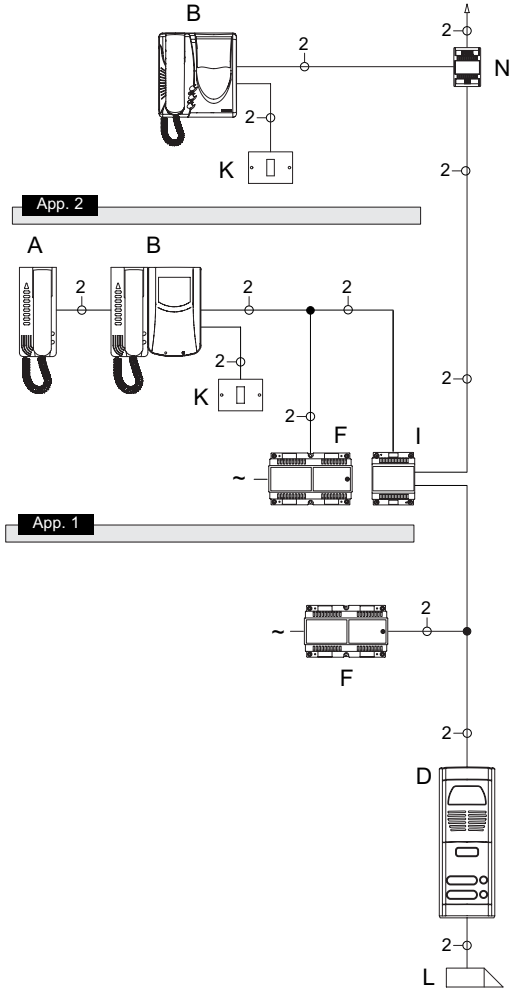
19- CONDOMINIUM VIDEO DOOR ENTRY SYSTEM WITH 2 VIDEO ENTRANCE PANELS IN PARALLEL AND VIDEO/AUDIO DOOR ENTRY UNITS IN PARALLEL



A- Audio door entry unit Art. 6209, 8879, 6601/AU, 660C/AU, 6701/AU, 6611/AU, 661C/AU, 6711/AU
B- Video door entry unit Art. 6309, 6309/C, 6009+6209+6145, 6009/C+6209+6145, 6601, 660C, 6701, 6611, 661C, 6711.
D- External entrance panel Art. 89F5/..., 89F5/C..., 89F7, 89F7/C
F: Power supply unit Art. 6922
I- Separator Art. 692S (max 16 per system)
J- Concentrator Art. 692C
L- 12V~ 1A electric lock
K- Door call button
N- Video distributor Art. 692D.

N° SB1322

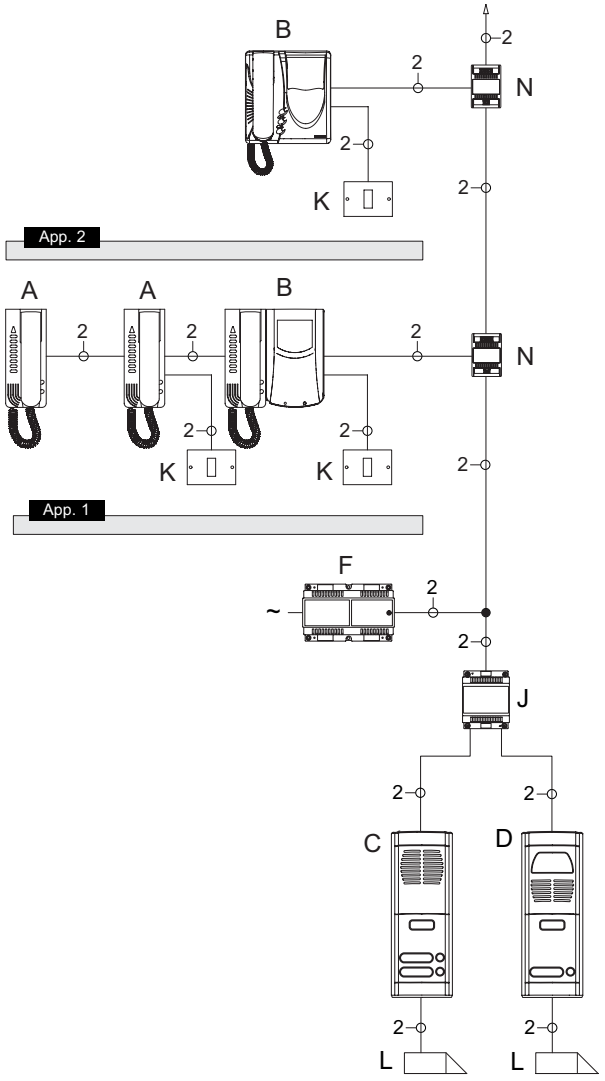
20- CONDOMINIUM VIDEO DOOR ENTRY SYSTEM WITH INTERCOM VIDEO/AUDIO DOOR ENTRY UNITS



A- Audio door entry unit Art. 6209, 8879, 6601/AU, 660C/AU, 6701/AU, 6611/AU, 661C/AU, 6711/AU
B- Video door entry unit Art. 6309, 6309/C, 6009+6209+6145, 6009/C+6209+6145, 6601, 660C, 6701, 6611, 661C, 6711.
D- External entrance panel Art. 89F5/..., 89F5/C..., 89F7, 89F7/C
F- Power supply unit Art. 6922
I- Separator Art. 692S (max 16 per system)
K- Door call button
L- 12V~ 1A electric lock
N- Video distributor Art. 692D.

N° SB1312

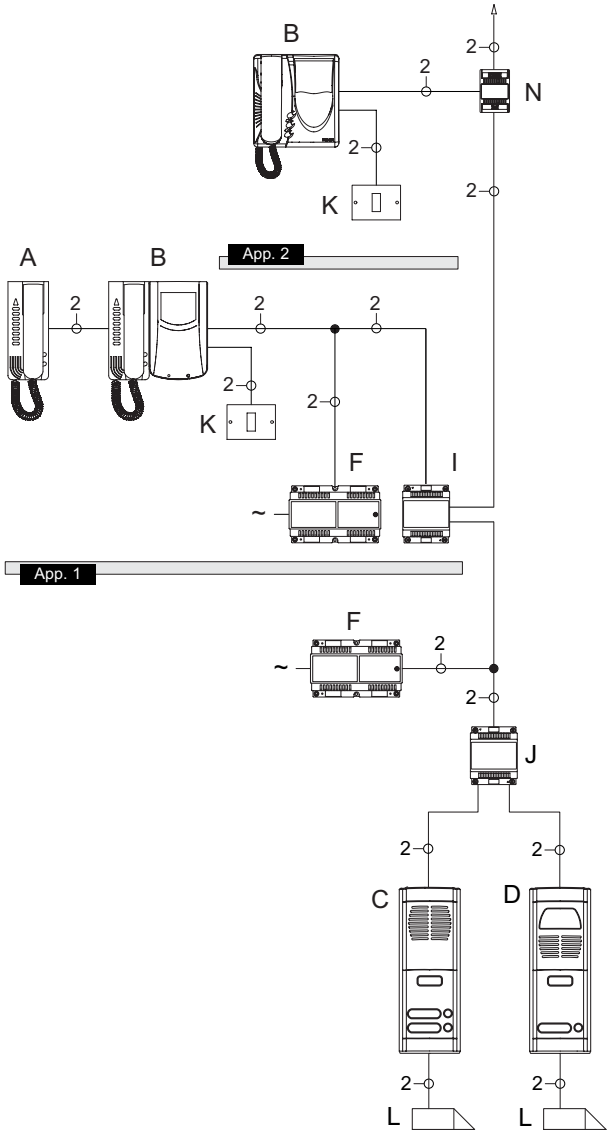
21- CONDOMINIUM VIDEO DOOR ENTRY SYSTEM WITH 2 ENTRANCE PANELS IN PARALLEL AND VIDEO/AUDIO DOOR ENTRY UNITS IN PARALLEL



A- Audio door entry unit Art. 6209, 8879, 6601/AU, 660C/AU, 6701/AU, 6611/AU, 661C/AU, 6711/AU
B- Video door entry unit Art. 6309, 6309/C, 6009+6209+6145, 6009/C+6209+6145, 6601, 660C, 6701, 6611, 661C, 6711.
C- External entrance panel Art. 89F3/..., 89F4
D- External entrance panel Art. 89F5/..., 89F5/C..., 89F7, 89F7/C
F: Power supply unit Art. 6922
J- Concentrator Art. 692C
K- Door call button
L- 12V~ 1A electric lock
N- Video distributor Art. 692D.

N° SB1314

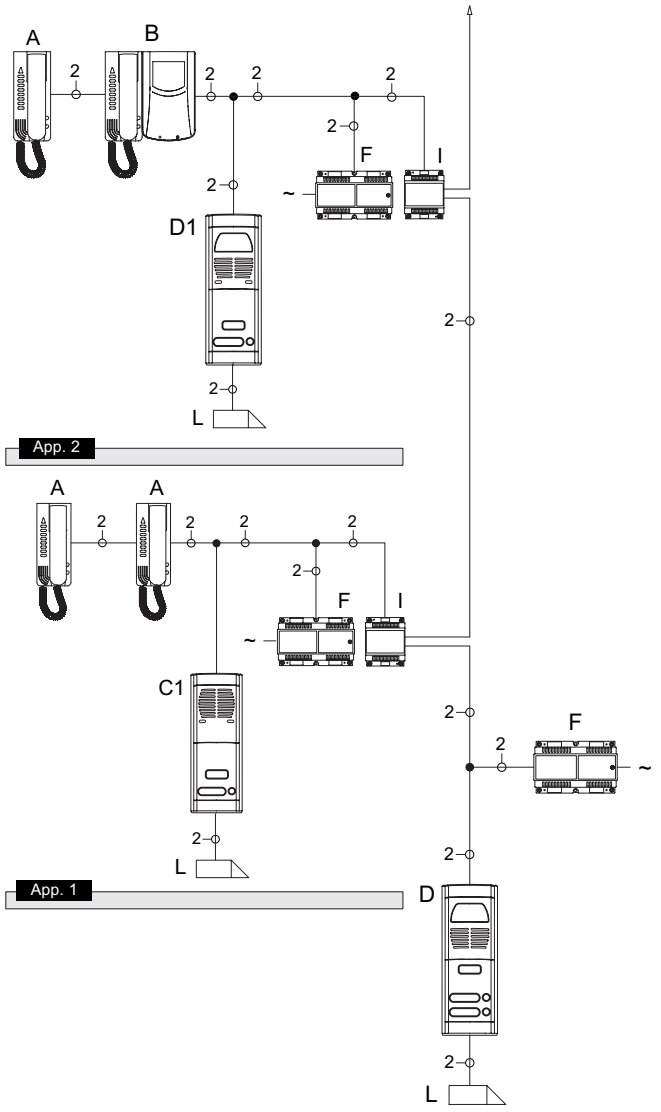
22- CONDOMINIUM VIDEO DOOR ENTRY SYSTEM WITH 2 ENTRANCE PANELS IN PARALLEL AND INTERCOM VIDEO/AUDIO DOOR ENTRY UNITS



A- Audio door entry unit Art. 6209, 8879, 6601/AU, 660C/AU, 6701/AU, 6611/AU, 661C/AU, 6711/AU
B- Video door entry unit Art. 6309, 6309/C, 6009+6209+6145, 6009/C+6209+6145, 6601, 660C, 6701, 6611, 661C, 6711.
C- External entrance panel Art. 89F3/..., 89F4
D- External entrance panel Art. 89F5/..., 89F5/C..., 89F7, 89F7/C
E- External audio entrance panel Art. 89F9/..., 89F8.
F: Power supply unit Art. 6922
I- Separator Art. 692S (max 16 per system)
J- Concentrator Art. 692C
K- Door call button
L- 12V~ 1A electric lock
N- Video distributor Art. 692D.

N° SB1315

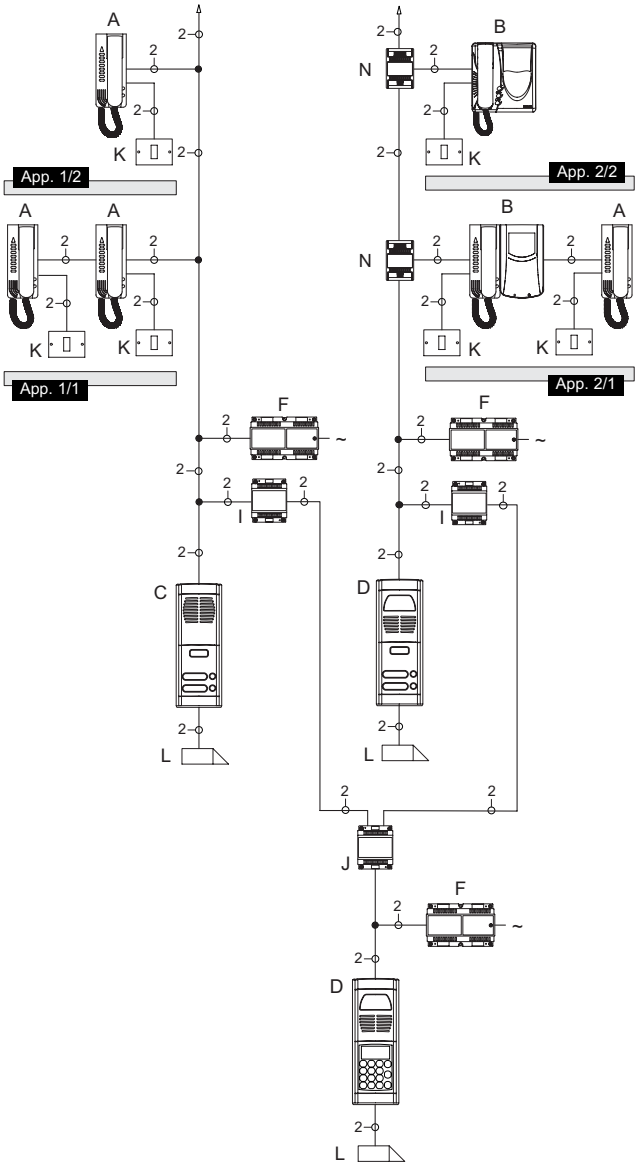
23- CONDOMINIUM VIDEO DOOR ENTRY SYSTEM WITH ENTRANCE PANEL OUTSIDE THE DOOR



- A- Audio door entry unit Art. 6209, 8879, 6601/AU, 660C/AU, 6701/AU, 6611/AU, 661C/AU, 6711/AU
- B- Video door entry unit Art. 6309, 6309/C, 6009+6209+6145, 6009/C+6209+6145, 6601, 660C, 6701, 6611, 661C, 6711.
- C1- GALILEO or 8100 external entrance panel with speech unit Art. 69AU and Engaged-Please Wait signal
- D- External entrance panel Art. 89F5/..., 89F5/C..., 89F7, 89F7/C
- D1- 8100 and GALILEO external video entrance panel with video camera Art. 692U and Engaged-Please Wait signal
- F: Power supply unit Art. 6922
- I- Separator Art. 692S (max 16 per system)
- L- 12V~ 1A electric lock

N° SB1320

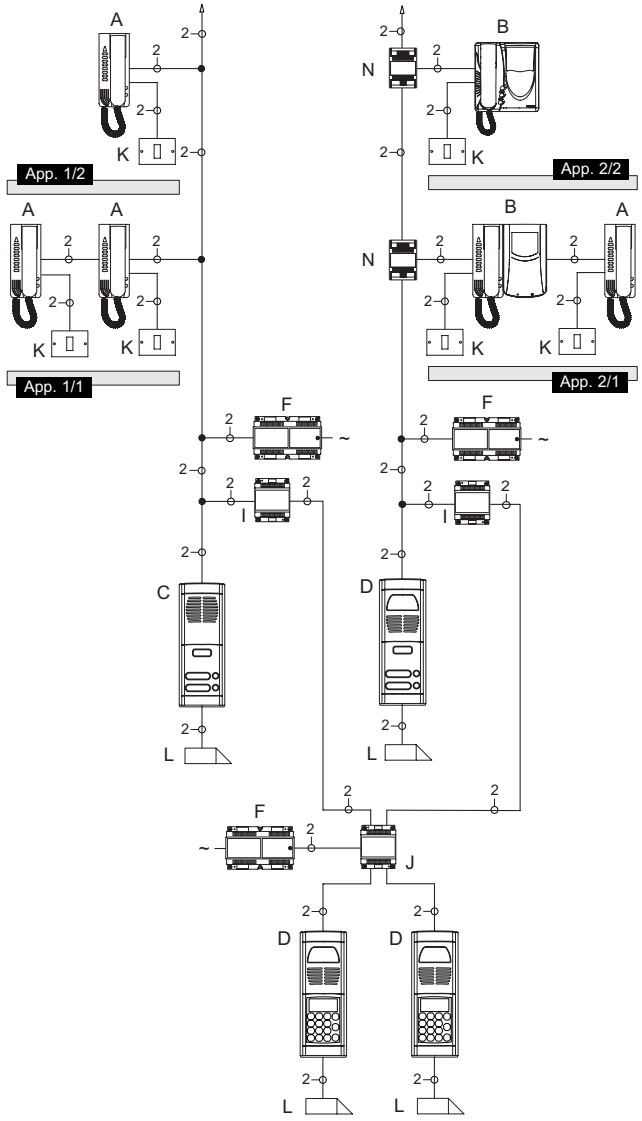
24- BUILDING COMPLEX VIDEO DOOR ENTRY SYSTEM



- A- Audio door entry unit Art. 6209, 8879, 6601/AU, 660C/AU, 6701/AU, 6611/AU, 661C/AU, 6711/AU
- B- Video door entry unit Art. 6309, 6309/C, 6009+6209+6145, 6009/C+6209+6145, 6601, 660C, 6701, 6611, 661C, 6711.
- C- External entrance panel Art. 89F3/..., 89F4
- D- External entrance panel Art. 89F5/..., 89F5/C..., 89F7, 89F7/C
- E- External audio entrance panel Art. 89F9/..., 89F8.
- F: Power supply unit Art. 6922
- I- Separator Art. 692S (max 16 per system)
- K- Door call button
- L- 12V~ 1A electric lock
- N- Video distributor Art. 692D.

N° SB1326

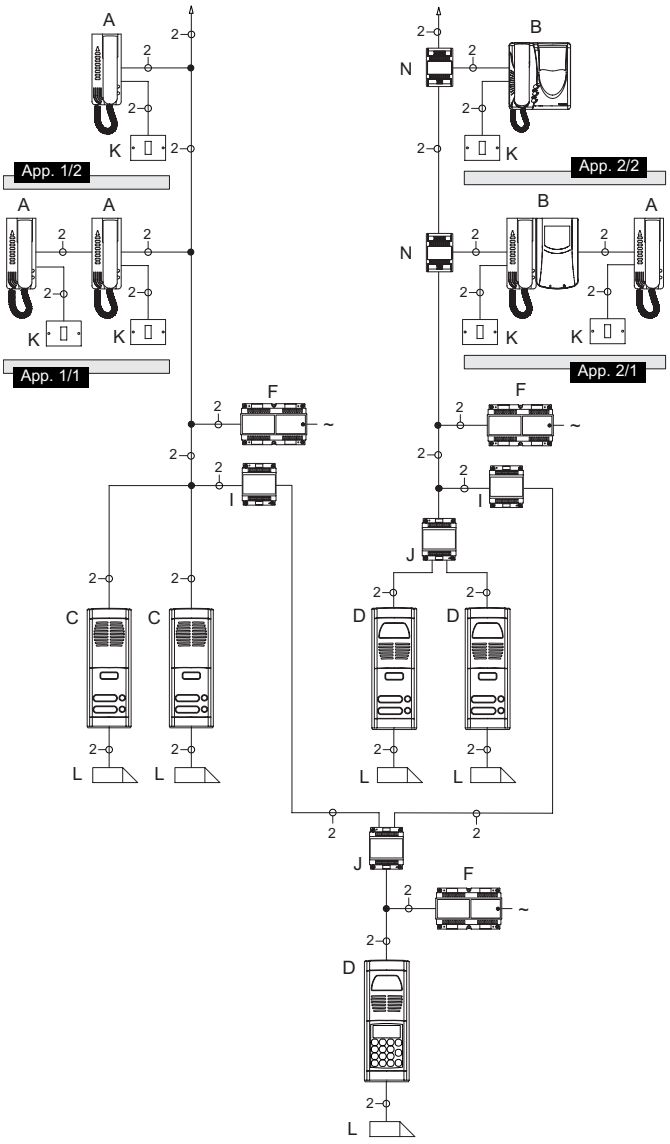
25- BUILDING COMPLEX VIDEO DOOR ENTRY SYSTEM WITH TWO MAIN ENTRANCE PANELS



A- Audio door entry unit Art. 6209, 8879, 6601/AU, 660C/AU, 6701/AU, 6611/AU, 661C/AU, 6711/AU
B- Video door entry unit Art. 6309, 6309/C, 6009+6209+6145, 6009/C+6209+6145, 6601, 660C, 6701, 6611, 661C, 6711.
C- External entrance panel Art. 89F3/..., 89F4
D- External entrance panel Art. 89F5/..., 89F5/C..., 89F7, 89F7/C
F: Power supply unit Art. 6922
I- Separator Art. 692S (max 16 per system)
J- Concentrator Art. 692C
K- Door call button
L- 12V~ 1A electric lock
N- Video distributor Art. 692D.

N° SB1328

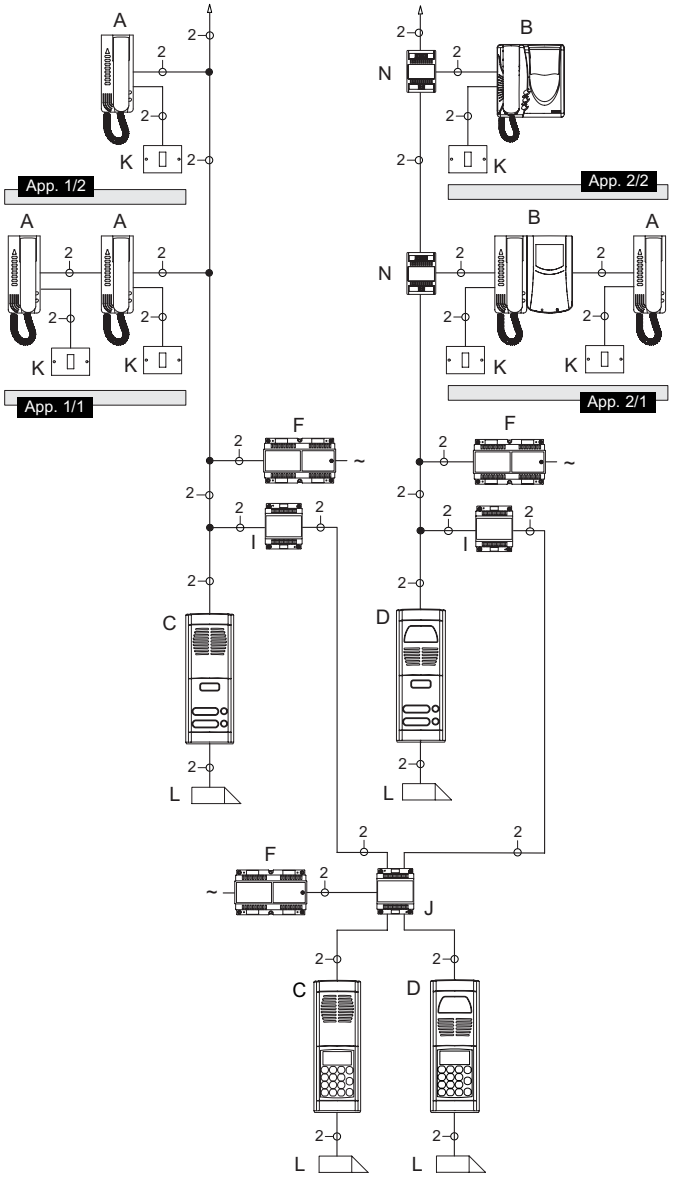
26- BUILDING COMPLEX VIDEO DOOR ENTRY SYSTEM WITH 2 ENTRANCE PANELS AT THE FOOT OF THE STAIRS



A- Audio door entry unit Art. 6209, 8879, 6601/AU, 660C/AU, 6701/AU, 6611/AU, 661C/AU, 6711/AU
B- Video door entry unit Art. 6309, 6309/C, 6009+6209+6145, 6009/C+6209+6145, 6601, 660C, 6701, 6611, 661C, 6711.
C- External entrance panel Art. 89F3/..., 89F4
D- External entrance panel Art. 89F5/..., 89F5/C..., 89F7, 89F7/C
F: Power supply unit Art. 6922
I- Separator Art. 692S (max 16 per system)
J- Concentrator Art. 692C
K- Door call button
L- 12V~ 1A electric lock
N- Video distributor Art. 692D.

N° SB1327

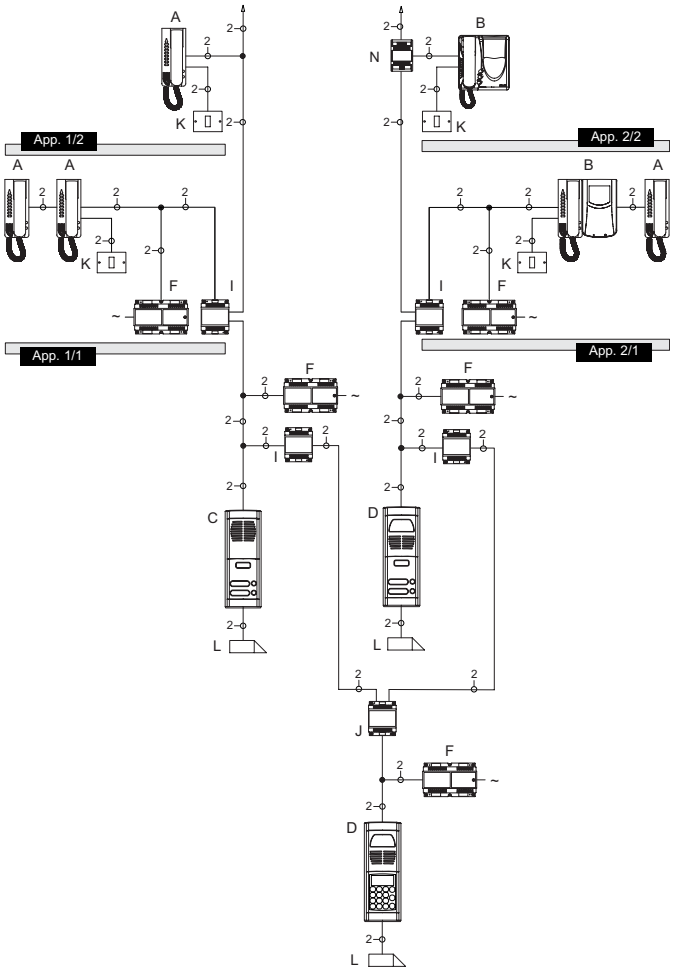
27- BUILDING COMPLEX VIDEO DOOR ENTRY SYSTEM WITH TWO MAIN ENTRANCE PANELS, ONE VIDEO AND ONE AUDIO



A- Audio door entry unit Art. 6209, 8879, 6601/AU, 660C/AU, 6701/AU, 6611/AU, 661C/AU, 6711/AU
B- Video door entry unit Art. 6309, 6309/C, 6009+6209+6145, 6009/C+6209+6145, 6601, 660C, 6701, 6611, 661C, 6711.
C- External entrance panel Art. 89F3/..., 89F4
D- External entrance panel Art. 89F5/..., 89F5/C..., 89F7, 89F7/C
F: Power supply unit Art. 6922
I- Separator Art. 692S (max 16 per system)
J- Concentrator Art. 692C
K- Door call button
L- 12V~ 1A electric lock
N- Video distributor Art. 692D.

N° SB1329

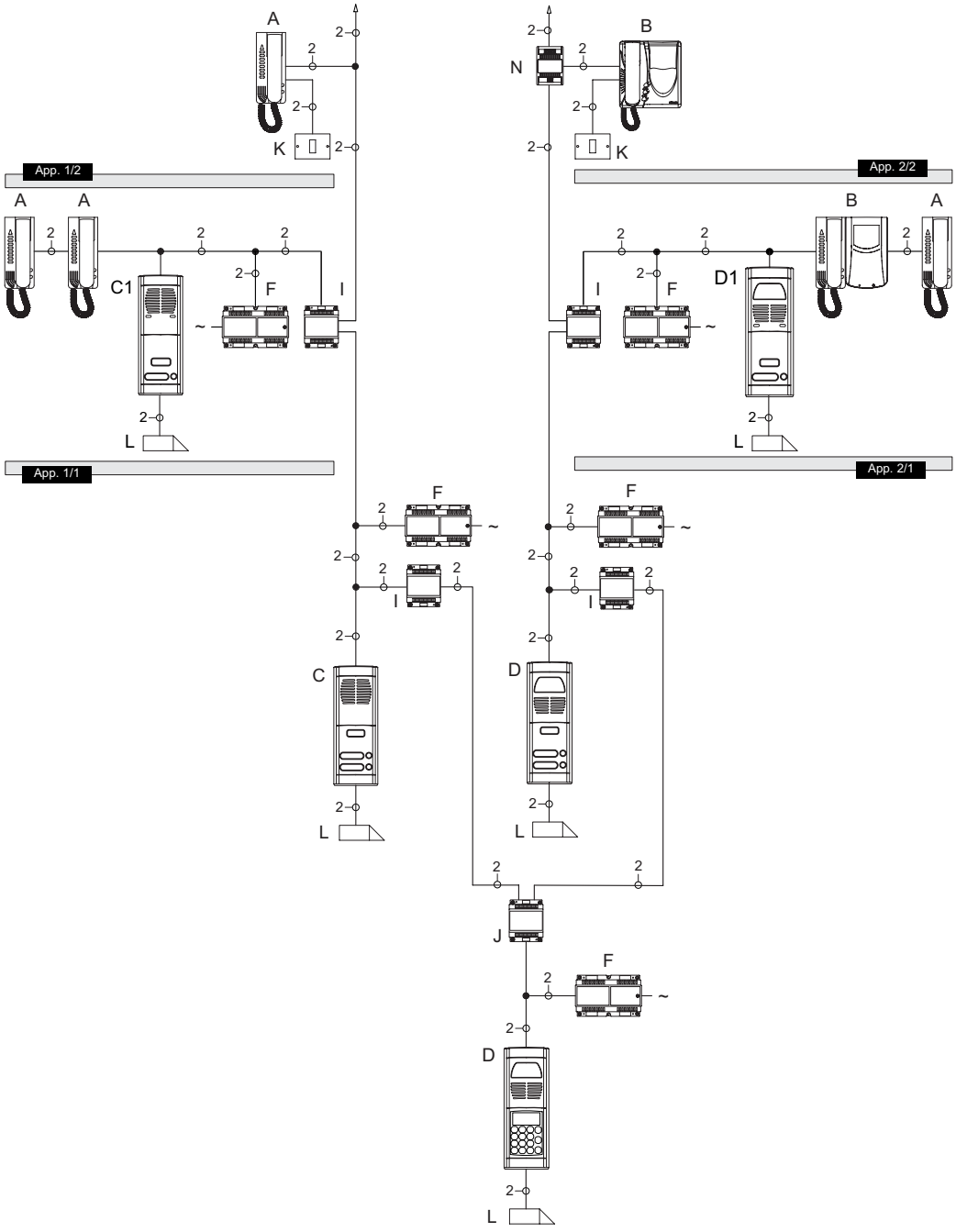
28- BUILDING COMPLEX VIDEO DOOR ENTRY SYSTEM WITH INTERCOM VIDEO/AUDIO DOOR ENTRY UNITS



A- Audio door entry unit Art. 6209, 8879, 6601/AU, 660C/AU, 6701/AU, 6611/AU, 661C/AU, 6711/AU
B- Video door entry unit Art. 6309, 6309/C, 6009+6209+6145, 6009/C+6209+6145, 6601, 660C, 6701, 6611, 661C, 6711.
C- External entrance panel Art. 89F3/..., 89F4
D- External entrance panel Art. 89F5/..., 89F5/C..., 89F7, 89F7/C
F: Power supply unit Art. 6922
I- Separator Art. 692S (max 16 per system)
K- Door call button
L- 12V~ 1A electric lock
N- Video distributor Art. 692D.

N° SB1330

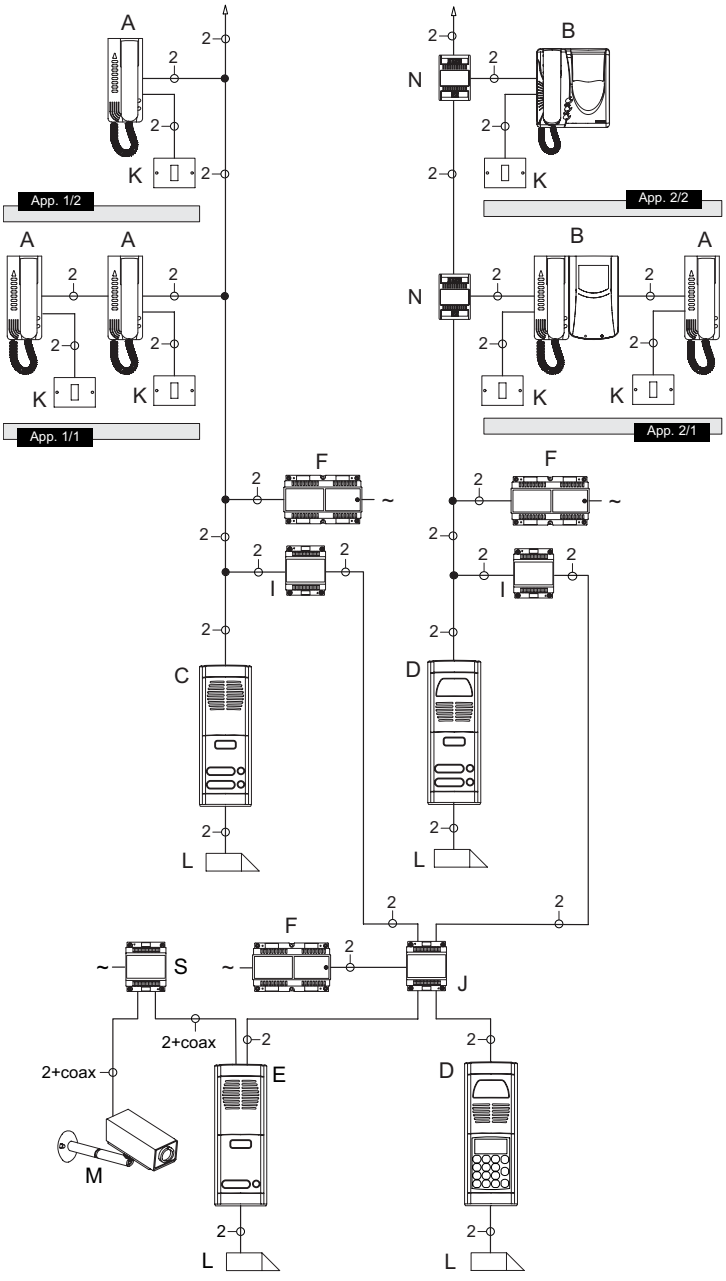
29- BUILDING COMPLEX VIDEO DOOR ENTRY SYSTEM WITH ENTRANCE PANELS OUTSIDE THE DOOR



A- Audio door entry unit Art. 6209, 8879, 6601/AU, 660C/AU, 6701/AU, 6611/AU, 661C/AU, 6711/AU
B- Video door entry unit Art. 6309, 6309/C, 6009+6209+6145, 6009/C+6209+6145, 6601, 660C, 6701, 6611, 661C, 6711.
C- External entrance panel Art. 89F3/..., 89F4
C1- GALILEO or 8100 external entrance panel with speech unit Art. 69AU and Engaged-Please Wait signal
D- External entrance panel Art. 89F5/..., 89F5/C..., 89F7, 89F7/C
D1- 8100 and GALILEO external video entrance panel with video camera Art. 692U and Engaged-Please Wait signal
F: Power supply unit Art. 6922
I- Separator Art. 692S (max 16 per system)
K- Door call button
L- 12V~ 1A electric lock
N- Video distributor Art. 692D.

N° SB1331

30- BUILDING COMPLEX VIDEO DOOR ENTRY SYSTEM WITH 2 MAIN ENTRANCE PANELS, ONE OF WHICH WITH AN EXTERNAL VIDEO CAMERA.



A- Audio door entry unit Art. 6209, 8879, 6601/AU, 660C/AU, 6701/AU, 6611/AU, 661C/AU, 6711/AU
B- Video door entry unit Art. 6309, 6309/C, 6009+6209+6145, 6009/C+6209+6145, 6601, 660C, 6701, 6611, 661C, 6711.
C- External entrance panel Art. 89F3/..., 89F4
D- External entrance panel Art. 89F5/..., 89F5/C..., 89F7, 89F7/C
E- External audio entrance panel Art. 89F9/..., 89F8.
F: Power supply unit Art. 6922
I- Separator Art. 692S (max 16 per system)
J- Concentrator Art. 692C
K- Door call button
L- 12V~ 1A electric lock
M- 12V d.c. CCTV-type supplementary video camera
N- Video distributor Art. 692D.
S- Supplementary power supply unit Art. 6982.

N° SB1333

WARNINGS FOR INSTALLERS

- Carefully read the instructions in 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 contact only the technical assistance centre authorized by the manufacturer. Safety may be compromised if these instructions are disregarded.
- Do not obstruct ventilation/heat extraction apertures or grilles.
- 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.

GENERAL CABLE INSTALLATION INSTRUCTIONS

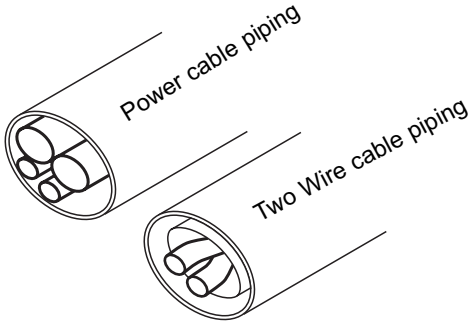
Correct DIGIBUS installation requires the following factors to be taken into account:

– the installation site
– the size of the installation

The equipment is fully compliant with the following directives: "CE" and following 89/336/EEC regarding Community safety standards and electromagnetic compatibility.

For correct installation, the following precautions must be taken:

– the system cables must be layed taking into account the overall length of the system cabling; the cross-section of the cables increases with the overall length of the installation as shown in the tables given below.
– the cables connecting the speech unit/internal units and the power supply must not be run together with power cables (230V or greater), but must be installed in their own ducts.



POWER SUPPLY INSTALLATION

The power supply must be installed in a dry place away from direct heat or dust. Ensure easy access for inspection and maintenance. Secure the unit to the wall with the anchor bolts provided or insert it into a rack with an omega DIN rail. Before connecting the unit use a tester to make sure that the cables are not broken or short-circuited. For user safety, the equipment operates at a low voltage and is separated from the mains by a high-insulation transformer. We recommend installation of an overload cutout of appropriate capacity between the mains and the unit. To complete the installation, proceed as follows:

1) Make the cabling connections to the terminal block in accordance with the diagrams enclosed with this manual.
2) Connect the power terminal block located beneath the rear cover.
3) With regard to the entrance panel with camera and the external cameras, make sure that the following conditions are met:

- Camera operates from - 5° to + 50° C; to avoid overheating protect it against the sunlight with some form of shelter.
- Lens must be protected agains direct light (sun, car headlights, etc.)
- Person to be framed by camera must be illuminated from the front. If lighting is insufficient use an additional external lamp powered directly by the network.
- Before closing unit, clean protective glass and lens, repeat this operation from time to time.

ART. 6209

DESCRIPTION

Type 6209 is an interphone in the Petrarca series for **ELVOX TWO-WIRE** audio and video door entry systems. It is supplied as standard with 3 push-buttons, one for lock release, one for self-start of the interphone in the system even when not called, and one for the auxiliary "stair light" service. The interphone can be fitted with an additional 3 pairs of push-button types 692P (692P/M or 692P/R), for auxiliary services or intercom calls, and the accessory type 6153/682 for: call volume adjustment, call signal mute, call denied luminous indicators, signal to indicate unanswered calls, signal to indicate services not available and luminous signal for gate/door open. The interphone can be installed as a wall-mounted version or desktop using the conversion kit type 6140 or 6A40, or in combination with monitors in the Petrarca series type 6009 (B/W monitor) or type 6009/C (colour monitor) by means of wall bracket type 6145 or desktop conversion kit type 6142 or 6A42.

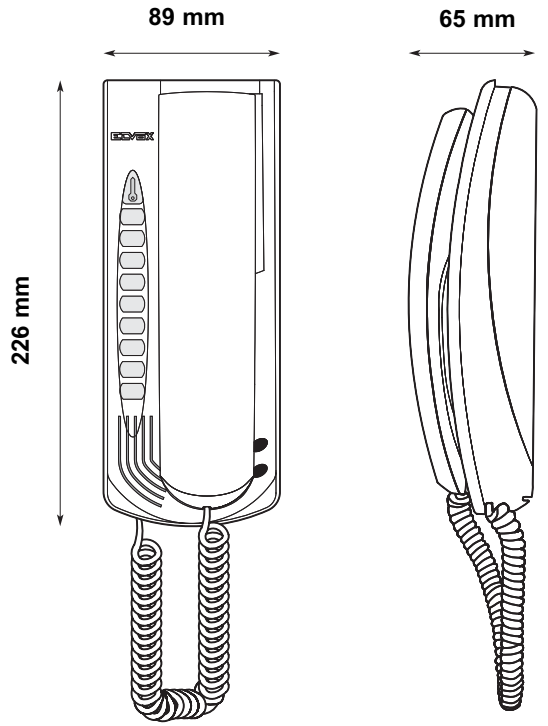


Fig. 4-1

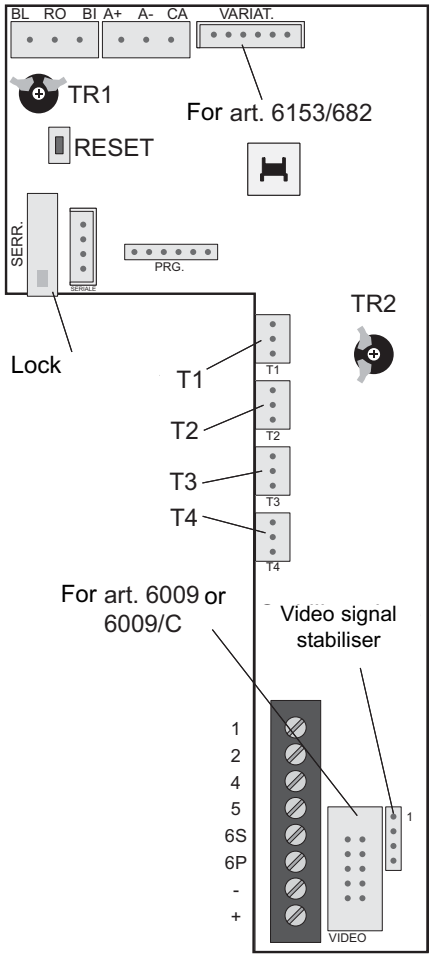
Connection and connector terminal board

1, 2)	BUS line.
4, 6P)	Connection for door call push-button.
5, 6S)	Connection of additional door ringtone
-, +)	Additional power supply for monitor with power supply type 6923.
VARIAT.)	Connection for module type 6153/682.
VIDEO)	Connection for monitor type 6009 or 6009/C.
T1)	1st pair of push-buttons type 692P.
T2)	2nd pair of push-buttons type 692P.
T3)	3rd pair of push-buttons type 692P.
T4)	4th pair of push-buttons type 692P.

Controls

The call volume can be adjusted by moving the loudspeaker wire from connector A+ (high) to A- (low); otherwise use accessory type 6153/682, leaving the loudspeaker wire connected to connector A-.

Fig. 4-2



TR1, TR2) **Do not adjust**, trimmers already set by the firm.

INSTALLATION

Wall-mounted interphone installations do not require additional accessories. However a vertical 3-module box may be used to facilitate fixture and cable routing. For desktop installations and combinations with monitors, refer to the respective instructions of the conversion kit or monitor.

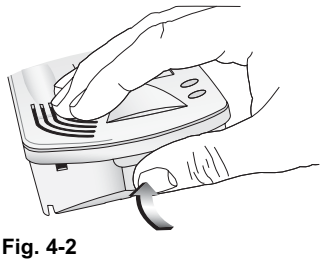


Fig. 4-2

Installation instructions

- Open the interphone, split the cover from the base, applying pressure on the lower side of the cover (Fig. 4-2).
- Fix the interphone to the rectangular, vertical flush-mounted backbox with the 2 screwssupplied, or fix the screws with the ø5 expansion plugs (Fig. 4-3).
- 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.

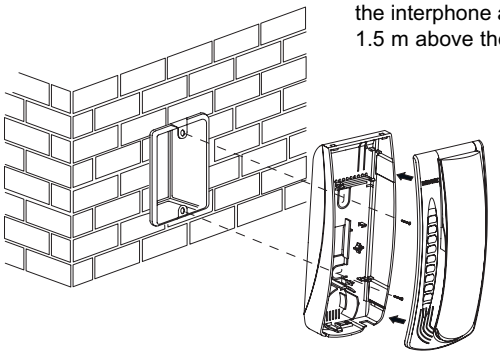


Fig. 4-3

VIDEO SIGNAL STABILISATION

Inside the interphone there are some connectors (A-B-C) and some jumpers for the video signal stabilization.
This jumper must be used in video installations with several appliances (interphones and monitors) connected in series (Fig. 4-4).

In series configuration, displace the jumper (only in the last set) into “position "B" and keep the jumpers of other interphones or monitors in the initial position "A" (Fig. 4-4).

For other connection configurations see the: TERMINATION TABLE FOR TWO WIRE ELVOX INSTALLATIONS and the wiring diagrams enclosed with the electronic two wire entrance panels.

NOTE: in case of installations with only interphones, keep the jumpers in position A.

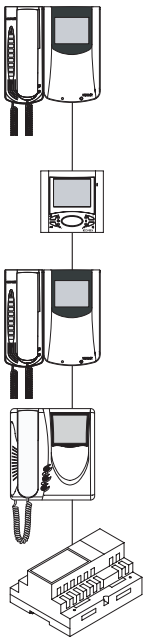
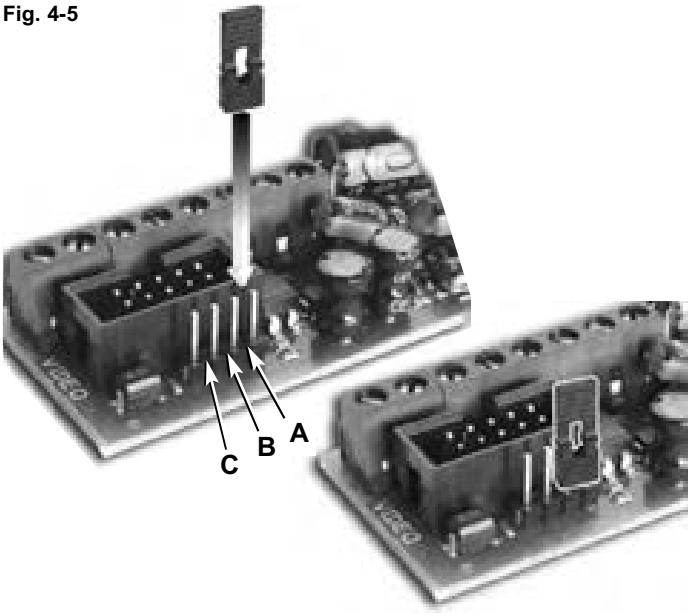


Fig. 4-4

If the image shown on the monitor is distorted, displace the jumper into one of the alternative positions to the initial one (B or C), so as to eliminate the distortion.

Fig. 4-5



ART. 6152

Installazione

Fig. 4-6 Insert the push-button/s inside the interphone in the left-hand side.

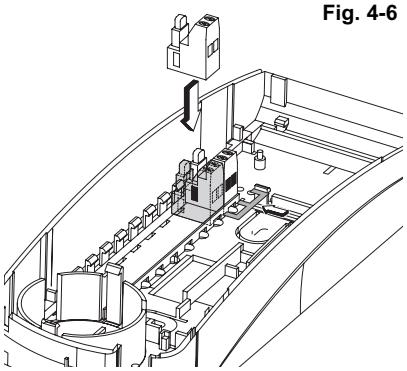
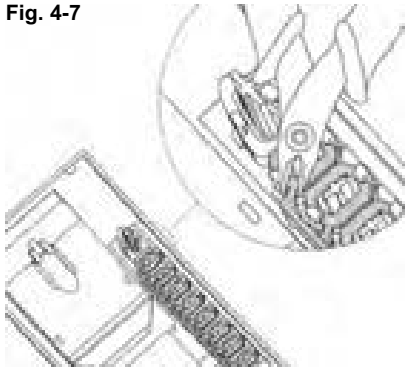


Fig. 4-7 Split the keys from the corresponding push-button/s.

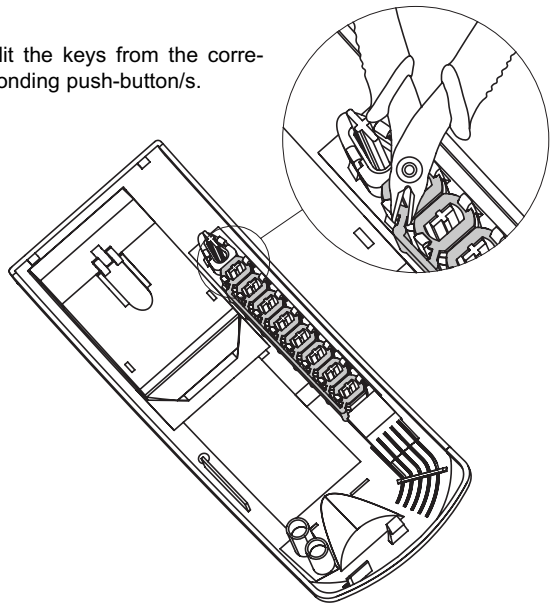


ART. 692P, 692P/M, 692P/R

All types of additional push-buttons described herein (Art. 692P, 692P/M, 692P/R) can exist together in a single interphone, provided that on the base of the interphone they occupy different positions.

Fig. 4-8

Fig. 4-9 Split the keys from the corresponding push-button/s.



Connection of additional push-buttons type 692P.
Insert the pair of push-buttons in the plastic bottom as indicated in figure 4-8. Cut the bloking plastic, as shown in Fig. 4.9, to free the keys from the respective push-buttons. Connect the T1 type cable (for push-buttons P1-P2) or T2 type (P3-P4) or T3 type (P5-P6) or T4 type (P7-P8).

Wiring diagram for pair of additional push-buttons type 692P.

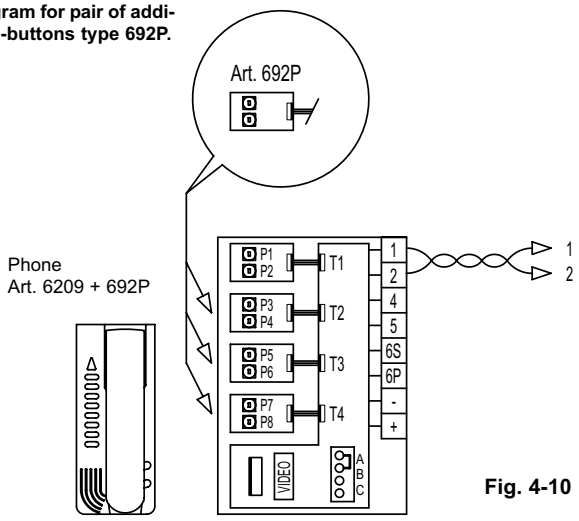


Fig. 4-10

Connection of additional push-buttons type 692P/M
Insert the pair of push-buttons in the plastic bottom as indicated in figure 4-8. Cut the blocking plastic, as shown in Fig. 4-9, to free the keys from the respective push-buttons.
Type 692P/M is used to manage the external charges my means of a push-button inserted in interphone 6209. Each pair has two contacts with a point in common. The maximum supply voltage is 24V A.C. / D.C., the maximum current is 500mA with resistive charge. Do not connect the cable to T1, T2, T3 and T4 (for type 692P/M).

Wiring diagram for pair of additional push-buttons type 692P/M.

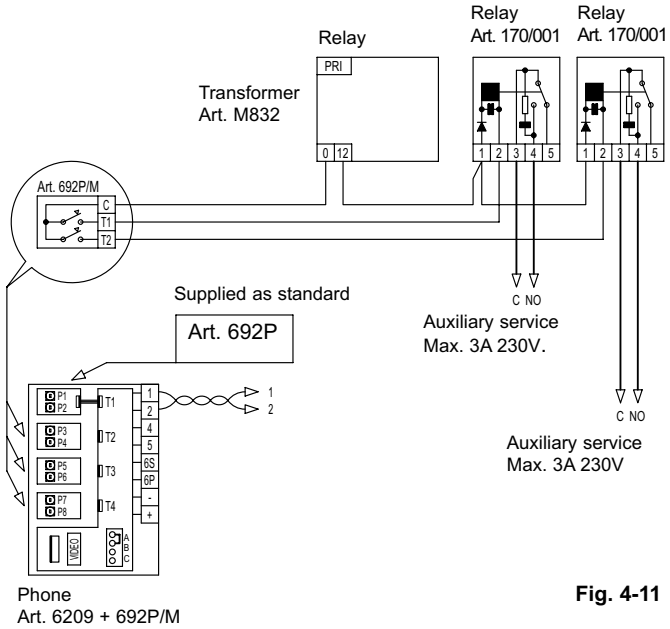


Fig. 4-11

Connection of additional push-buttons type 692P/R.
Insert the pair of push-buttons in the plastic bottom as indicated in figure 4-8. Connect the T1 type cable (for push-buttons P1-P2) or T2 type (P3-P4) or T2 type (P5-P6) or T4 type (P7-P8).
Type 692P/R is used to make the push-buttons connected to interphone type 6209 operate remotely.
Note: only P1 and P2 operate with interphone in rest mode. The others need the handset to be unhooked and within 10 s the required push-button to be activated within 10 seconds; with the exception of push-button P6 used for the automatic lock release, which is used in a static way.
If the interphone is correctly programmed (see instructions for programmer 950C), when the entrance panel calls, the interphone reacts by sending a lock release command back to the entrance panel, provided that the P6 push-button is pressed.

Wiring diagram for pair of additional push-buttons type 692P/R.

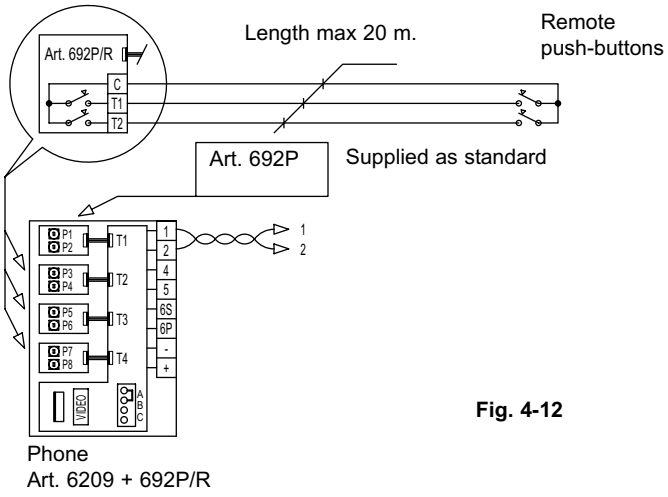


Fig. 4-12

By connecting a clock/timer, you can obtain an automatic opening at preset hours and on preset days.
If the interphone operation is not required, it is not necessary to cut the blocking plastic.

Wiring diagram for a pair of additional interphone type 692P/R for automatic lock release (function of push-button P6).

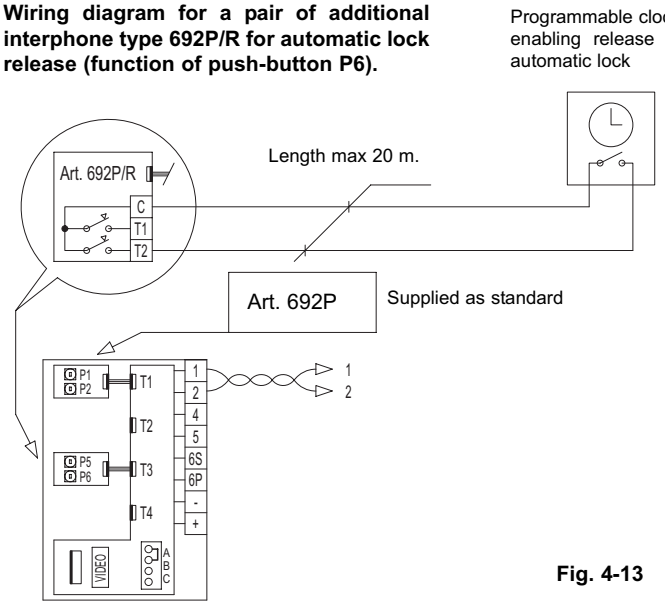


Fig. 4-13

ART. 6153/682

DESCRIPTION

Switching module type 6153/682 is used to adjust the call volume or to switch off the call function on PETRARCA series interphones type 6209. The device is equipped with two optical devices, one to display the call/chime exclusion (red indicator LED) and the other for the open door lock status (green indicator LED).

INSTALLATION

- Open the interphone, split the cover from the base by applying pressure to the lower side of the cover (see Fig. 4-14).
- Break the plastic lock by pressing on the lock (see Fig. 4-15).
- Insert the circuit board in proper seat and fix it with screws provided (see Fig. 4-16)
- Connect circuit board of type 6153/682 to the interphone by using the harness (Detail A) supplied as shown in Fig. 4-16.

Fig. 4-14

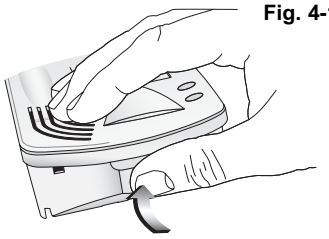


Fig. 4-15

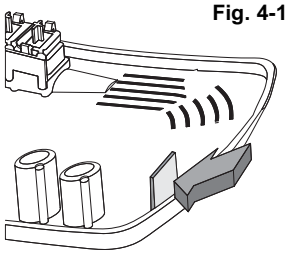
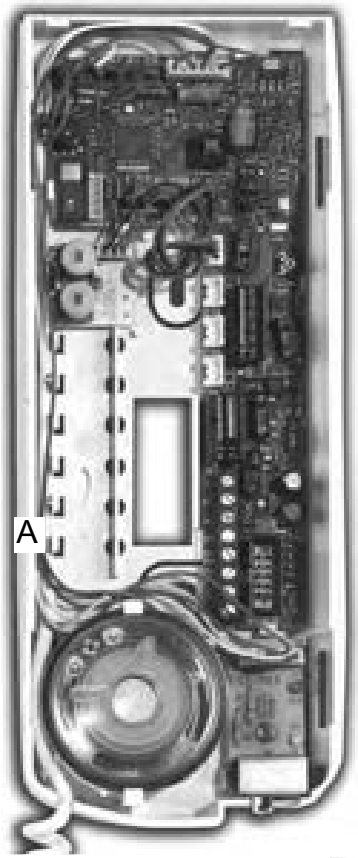
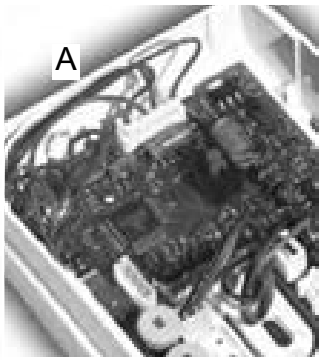
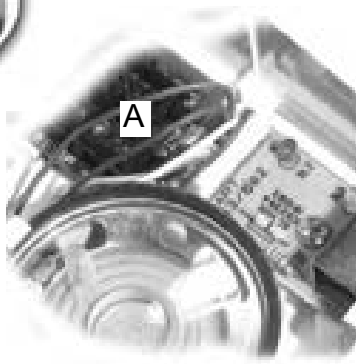


Fig. 4-16

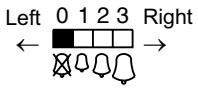






Attention: in the interphone move the loudspeaker connections to position CA and A-

Call level adjustment



Position "0": chime exclusion
Position "1": minimum chime volume
Position "2": medium chime volume
Position "3": maximum chime volume

Green signalling operation for modules 6153/682 in interphone 6209

For both single and multiple entrance panel installations, continuous illumination of the green LED indicates that the door lock or one door lock in the installation is open. For use of the operation, see the wiring diagrams.

ART. 6140

Description

White desktop conversion kit. Supplied with2-metre, 6-wire cable and fixed terminal block.

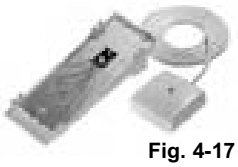


Fig. 4-17

ART. 6A40

Description

White desktop conversion kit. Supplied with2-metre, 16-wire cable, complete with plug and socket.

Fig. 4-18

Installation

- To separate the base of the interphone from the cover, insert a screwdriver in the slit in the middle and push inward until the unit clicks open (fig. 4-20).

Fig. 4-20

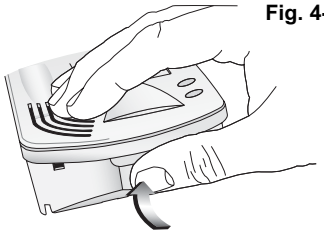
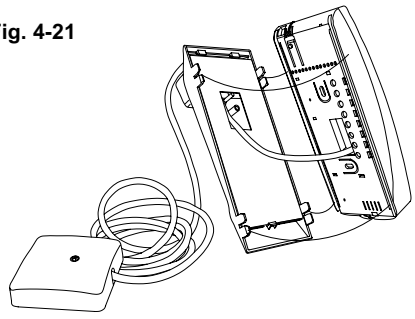


Fig. 4-21



Insert kit wires into the interphone

Attach the base of the interphone to the conversion kit.

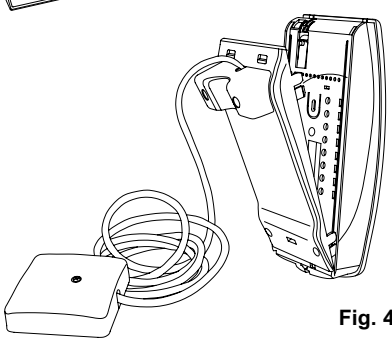


Fig. 4-22

Table showing conductors-terminal correspondence in kits type 6140 and 6A40

Terminal block kit	Conductor colour	Article
1	White	6140, 6A40
2	Red	6140, 6A40
3	Blue	6140, 6A40
4	Green	6140, 6A40
5	Brown	6140, 6A40
6	Purple	6140, 6A40
7	Sky blue	6A40
8	Pink	6A40
9	Black	6A40
10	Orange	6A40
11	Gris	6A40
12	Yellow	6A40
13	Red/Black	6A40
14	Red/Green	6A40
15	Red/Blue	6A40
M2	Orange/Blue	6A40

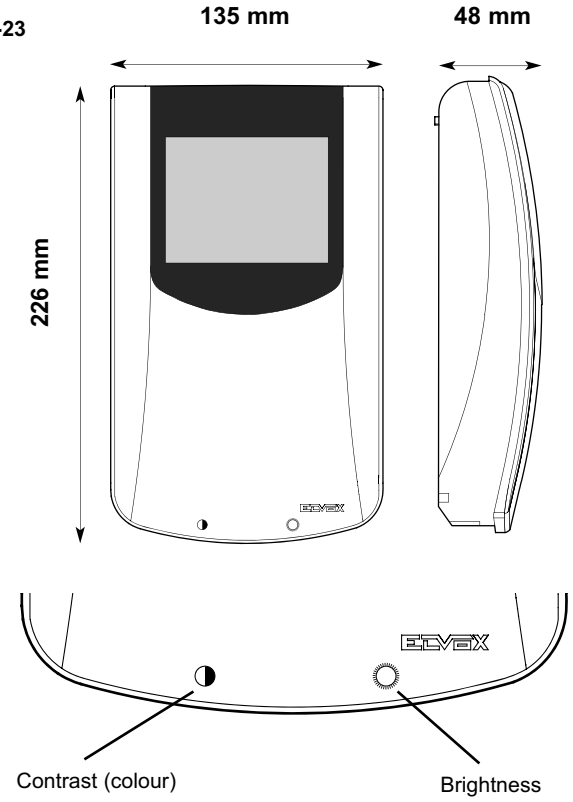
ART. 6009, 6009/C

Description
PETRARCA series monitor Art. 6009 or 6009/C can work in conjunction with interphone Art. 6209, 6208 or 62I8 for video door entry systems.

Technical characteristics of Art. 6009
- Slim-line surface wall-mounted monitor with 4” flat screen
- Video signal standard: CCIR with 625 lines and 50 frames (EIA standard available on request)
- Passband: 4 MHz

Technical characteristics of Art. 6009/C
- Slim-line surface wall-mounted monitor with 4” LCD colour screen
- Video signal standard: PAL

Fig. 4-23



WALL-MOUNTED INSTALLATION OF MONITOR AND INTERPHONE
Fix the bracket type 6145 to the wall at a height of approximately 1.4 m above the ground (Fig. 4-24).
Open the interphone, split the cover from the base by applying pressure on the lower side of the cover (Fig. 4-25 - 4-26).
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. 4-27)
Connect the wiring of the monitor to the connection card by means of the VIDEO connector 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. 4-28).
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. 4-29).

DESKTOP INSTALLATION OF MONITOR AND INTERPHONE
Open the interphone, split the cover from the base by applying pressure on the lower side of the cover (Fig. 4-25, 4-26).
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. 4-31).
Connect the wiring of the monitor to the connection card by means of the VIDEO connector 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. 4-31).
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. 4-29).

Fig. 4-24

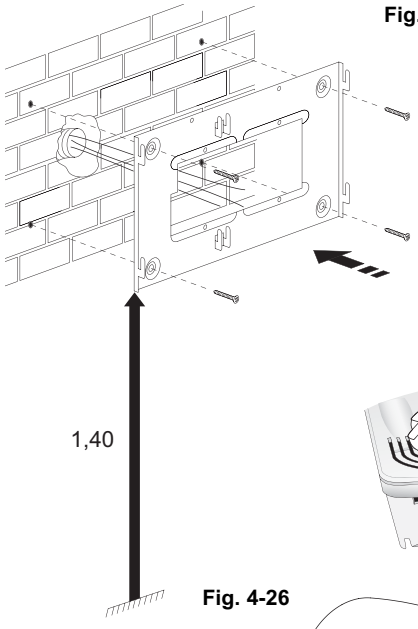


Fig. 4-25

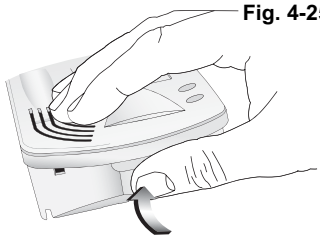


Fig. 4-26

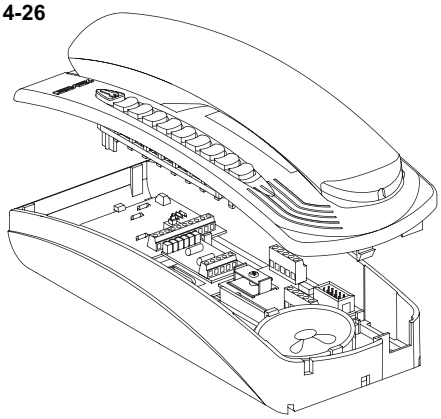


Fig. 4-27

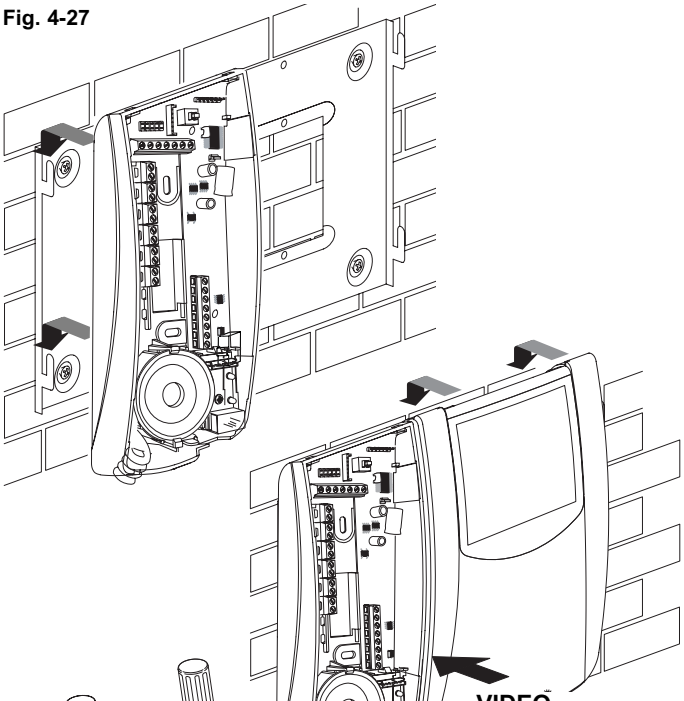


Fig. 4-28

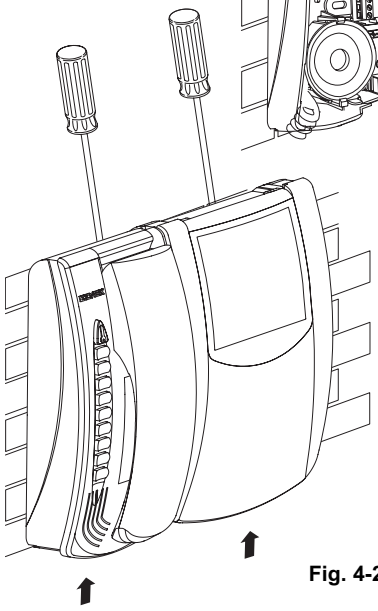


Fig. 4-29

Fig. 4-30

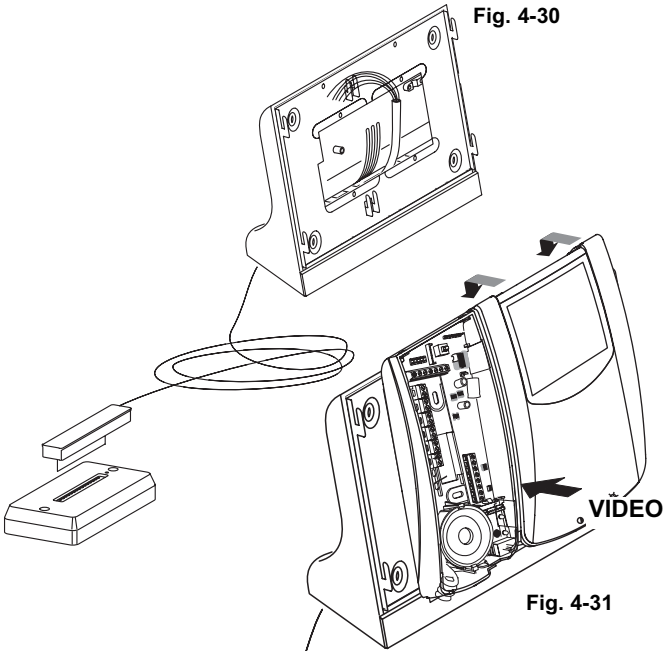


Fig. 4-31

ART. 692T

DESCRIPTION

Additional power supply to insert in the seat of desktop conversion kits type 6142 for ELVOX TWO-WIRE monitors type 6009+6209 or type 6009/C+6209.

Used when connecting more than two monitors in parallel with simultaneous self-start at the external call or in case of particularly long lines or lines with excessive voltage drop.

INSTALLATION

Insert the power supply in the relative seat in the desktop housing and secure by means of the 4 screws supplied (see figure 1). Route the mains power cable through the hole in the base and secure by means of the cable clamp (detail A) and connect to terminals PRI. Wire as shown in the diagram. 230V

TECHNICAL FEATURES

- 230V 50 Hz 15VA supply voltage (on request other supply voltages).
- (-/+U) 28V D.C. output voltage on idle mode, 24V D.C. with 0.5A load (intermittent operation) protected by PTC for auxiliary services.
- Primary internal protection against short-circuits and thermical variations by PTC.

Fig. 4-32

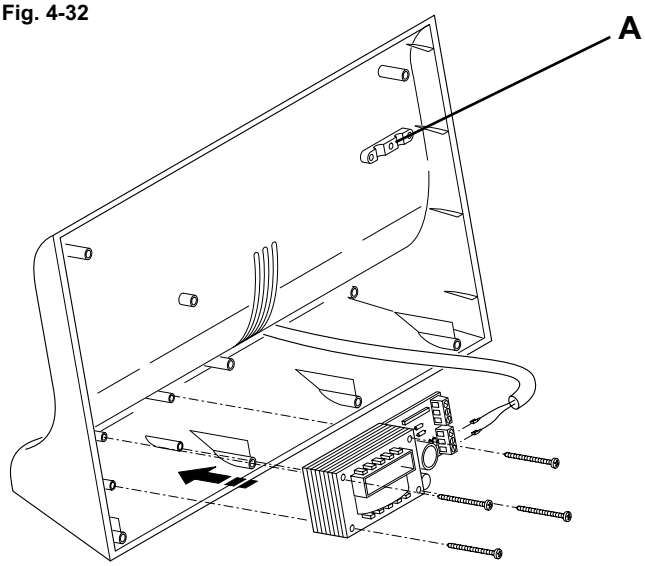


Table showing conductors-terminal correspondence in kits type 6142

Terminal block kit 6142	Conductor colour	Terminal block art. 6209
1	Sky blue	1
2	White	2
3	Pink	4
4	Orange	6P
5	Blue (thick section)	- (art. 692T o 6923)
6	Red (thick section)	+ (art. 692T o 6923)
7	Black	5
8	Yellow	6S
9	Brown	Per art. 692P/M o 692P/R
10	Green	Per art. 692P/M o 692P/R
11	Purple	Per art. 692P/M o 692P/R
12	White/Green	Per art. 692P/M o 692P/R
V1-V2	Cable core	Per art. 692P/M o 692P/R
M1-M2	Shield	Per art. 692P/M o 692P/R

ART. 8879

Description
Type 8879 is an interphone in the 8870 series for **ELVOX TWO-WIRE** audio and video door entry systems. It is supplied as standard with 2 push-buttons, one for lock release, the other for stair light light (default).

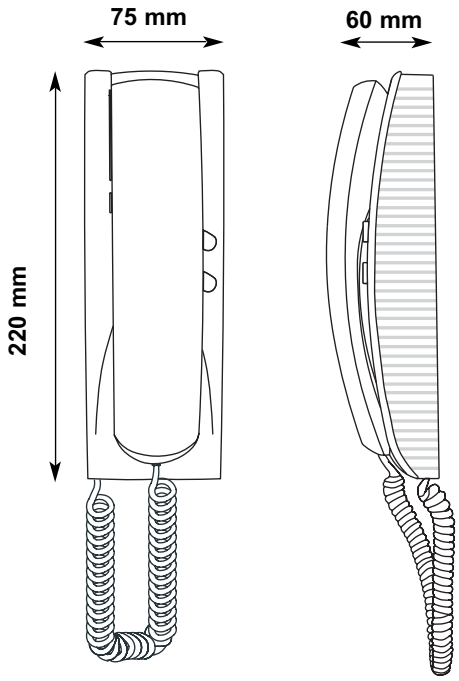


Fig. 4-33

Connection and connector terminal board
1, 2) BUS line.
4, 6P) Connection for door call push-button.
5, 6S) Connection of additional door ringtone.

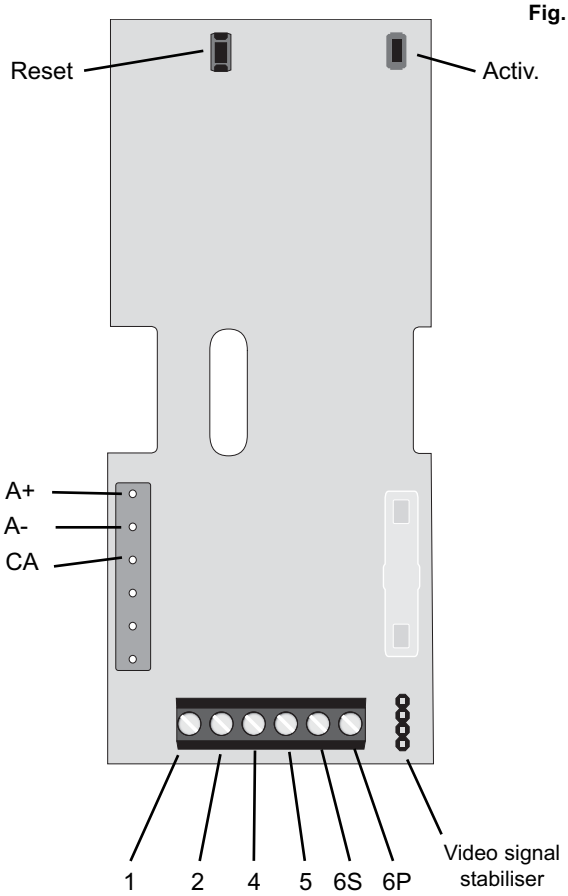
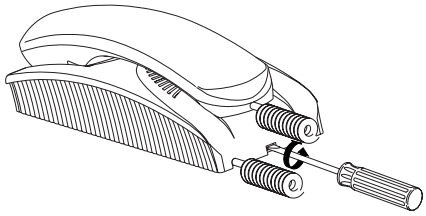


Fig. 4-34

Controls
The call volume can be adjusted by moving the loudspeaker wire from connector A+ (high) to A- (low).

Wall-mounted installation
Wall-mounted installations of the interphone do not require additional accessories. However a vertical 3-module box may be used to facilitate fixture and cable routing.

Fig. 4-35



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.

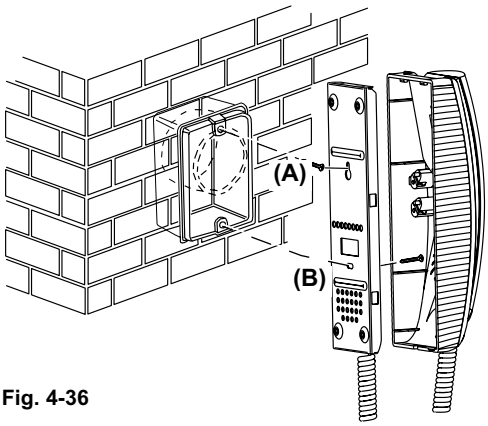


Fig. 4-36

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.

Video signal stabilisator
On the lower side of the interphone there is a connector (A-B-C) and a jumper for the video signal balance. This jumper must be used on the installations where there are more appliances (interphones or monitors) connected in series (Fig. 4-37).

On the standard configuration displace the jumper into "B" only on the last set and keep the jumpers on the other appliances in the initial position "A" (Fig. 4-37).

For other connection configurations see the: TERMINATION TABLE FOR THE ELVOX TWO-WIRE INSTALLATIONS and the wiring diagrams enclosed with the electronic two wire entrance panels.

If the image shown on the monitor is distorted, displace the jumper in one of the alternative positions to the initial one (B or C), so as to eliminate the distortion.

NOTE: in case of installations with only interphones, keep the jumpers in position “A”.

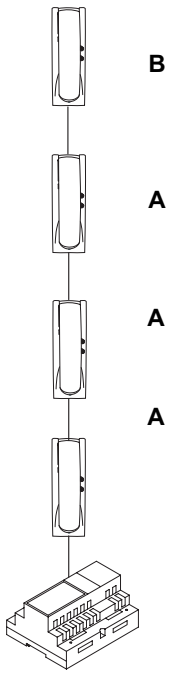


Fig. 4-37

ART. 6309, 6309/C

DESCRIPTION

Type 6309, 6329 and 6309/C are interphones in the Giotto series respectively with 4" B/W (6309, 6329) and colour screen (6309/C) for ELVOX TWO-WIRE video door entry systems. They are supplied as standard with 3 push-buttons, one for lock release, one for self-start of the monitor in the system even when not called, and one for the auxiliary "stair light" service. Supplied with call volume adjustment on 3 levels and call mute. The luminous indicators of: call signal mute, unanswered calls, services not available and gate/door open, are signalled by means of two LEDs (red and green) present on the monitor.
The monitor can be installed as a wall-mounted version, by means of the bracket (R682) supplied with the monitor, or desktop version by means of the conversion kit type 661A or 661F.

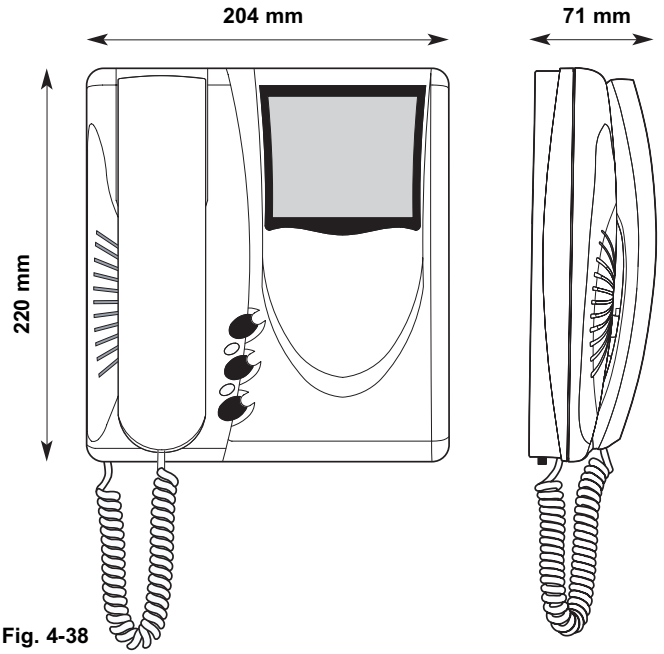


Fig. 4-38

Connection and connector terminal board

3, 4) Additional ringtone connection
1, 2) BUS line.
12 +, 13 -) Additional power supply for monitor with power supply type 6923.
V3, M) Connection for door call push-button.
CN1) Connection for monitor.

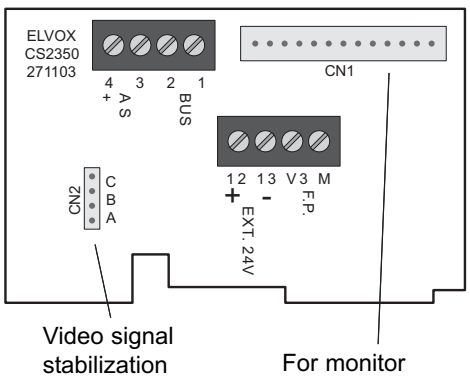


Fig. 4-39

Monitor technical specifications

- Wall-mounted monitor in ABS
- Backing plate and plugs for wall-mounted fixture or 3-module box.
- 4" flat screen
- Electronic circuit on interchangeable cards.
- Standard video signal CCIR 625 lines 50 squares.
- Video pass band 4 MHz
- Operating temperature from 0° to +40° C.
- Electronic ringtone.
- Input for door calls with different ringtone from panel calls.
- Output for additional ringtone type 860A.
- Supply of data from bus.
- Input for additional power supply (type 6923) if the system is configured to enable simultaneous activation of more than two monitors.

Controls and adjustments (Fig. 4-40, 4-41)

A - Ringtone volume and mute control.
B - Brightness control.
C - Contrast control
D - Lock release push-button .
E - System self-start push-button .
F - Push-button for auxiliary service, 1st relay of 1st actuator type 692R.

When the push-buttons and are pressed together, a second auxiliary service is activated, 2nd relay of 1st actuator type 692R (or Art. 69RH).

G - RESET push-button for monitor programming.
H - Ringtone mute LED. The fixed light illuminates when the ringtone mute is enabled by means of slider "A" and flashes when calls have been denied (red LED).
I - Door open LED. On systems in which this function is used, the LED remains lit permanently when the door/gate is open (green led).

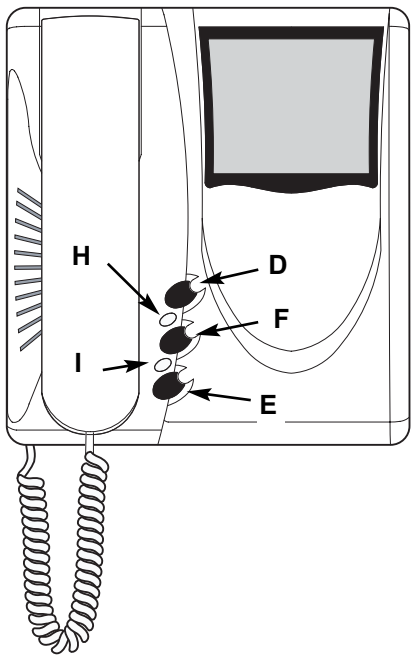
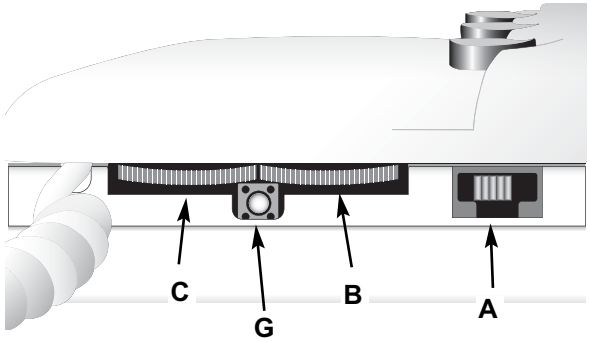


Fig. 4-40

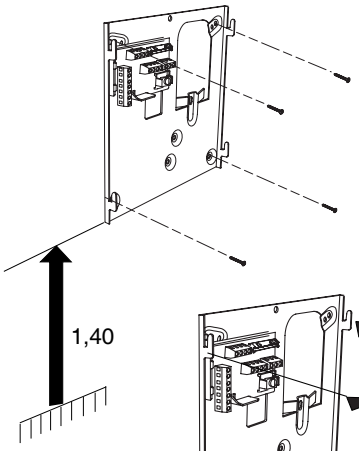
Fig. 4-41



Install the monitor away from sources of light and heat.

- Fix the monitor mounting plate to the wall with a distance of about 1.4 m between the bottom edge and the ground (Fig 4-42).
- Make the connections on the monitor terminal block.
- Fit the monitor following the direction of arrows 1 and 2 (Fig 4-43).

Fig. 4-42



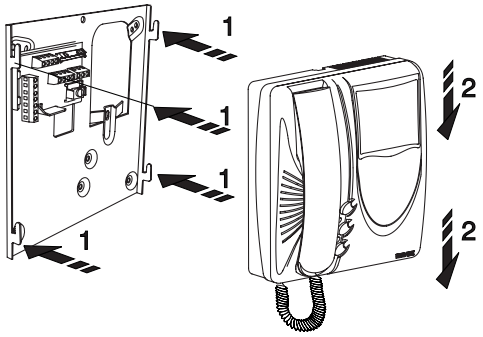
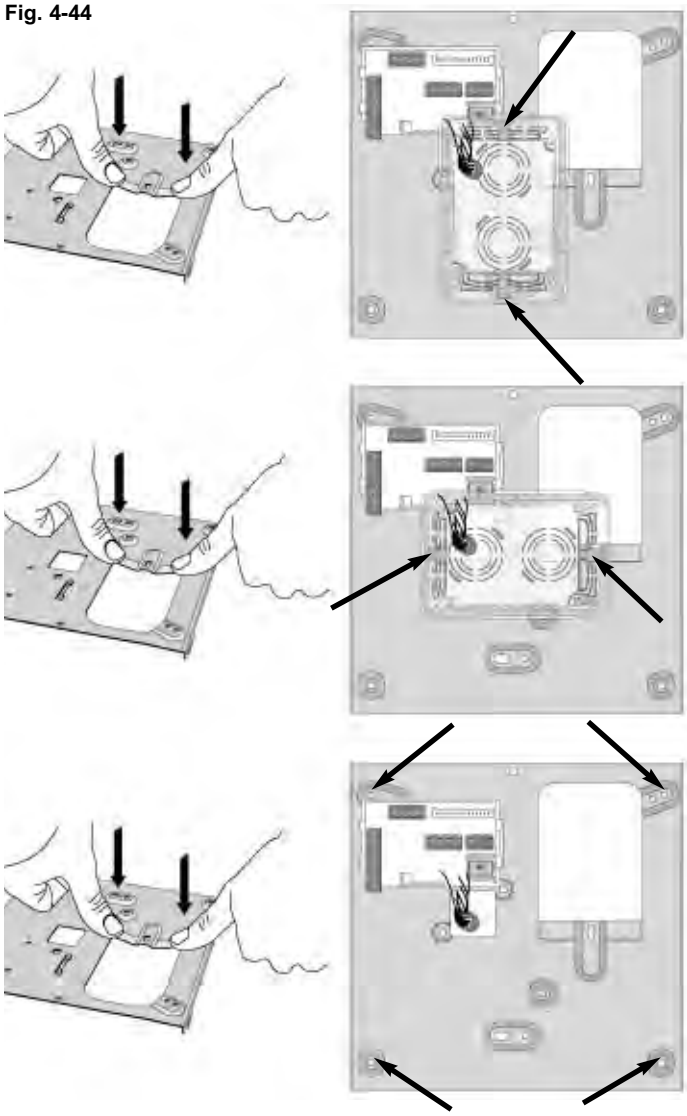


Fig. 4-43

Fig. 4-44



The plate can be mounted using a 3-module flush-mounted back box (horizontal or vertical) or with pressure plugs.

⟶ Mounting points

VIDEO SIGNAL STABILISATOR

On the monitor intercommunication card there is a connector (A-B-C) and a jumper for the video signal balance (Fig. 4-46). This jumper must be used on installations with multiple appliances (interphones or monitors) connected in series (Fig. 4-45).

Displace the jumper into position "B" only on the last set and keep the jumpers on the other appliances in the initial position "A" Fig. 4-45.

For other connection configurations see the: TERMINATION TABLE FOR ELVOX TWO-WIRE INSTALLATIONS and the wiring diagrams enclosed with the electronic two wire entrance panels.

If the image shown on the monitor is distorted, displace the jumper in one of the alternative positions to the initial one (B or C), so as to eliminate the distortion.

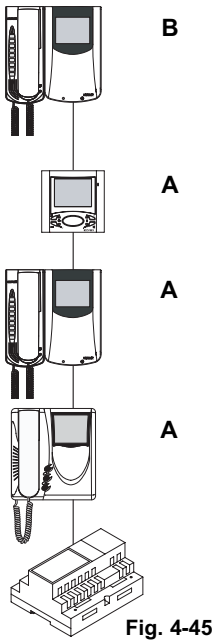
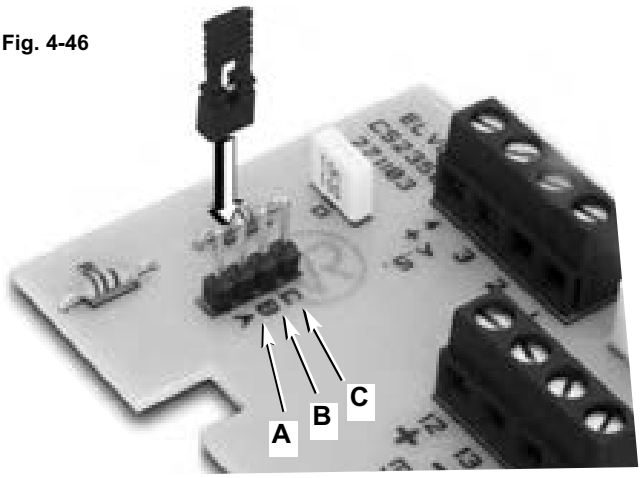


Fig. 4-45

Fig. 4-46

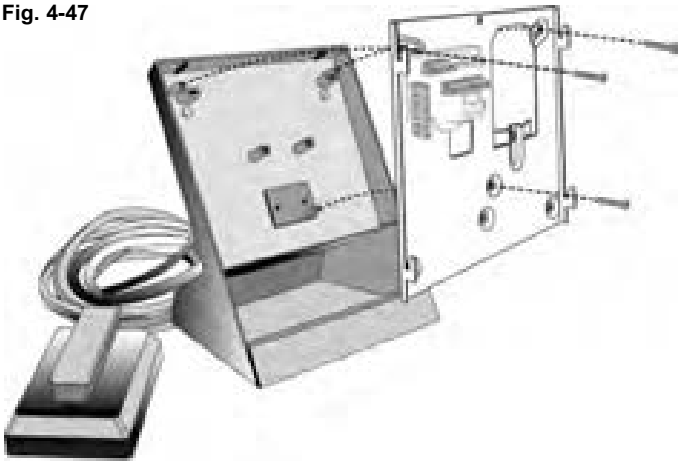


ART. 661A, 661F

DESCRIPTION

The desktop conversion kit type 661A is to be used with surface wall-mounted video interphones series GIOTTO with flat screen (6309, 639C). Type 661F is a desktop conversion kit with built-in power supply. Kits are supplied with removable terminal block.

Fig. 4-47



Installation

Mount back plate of monitor as indicated in Fig. 4-47 and carry out connection of coloured condustors to terminal block by following the correspondence tables shown below. Hook the monitor to back plate. Carry out installation wiring on socket terminals.

Interconnecting table for video interphones type 6309, 6309/C and desktop conversion kit type 661A or 661F.

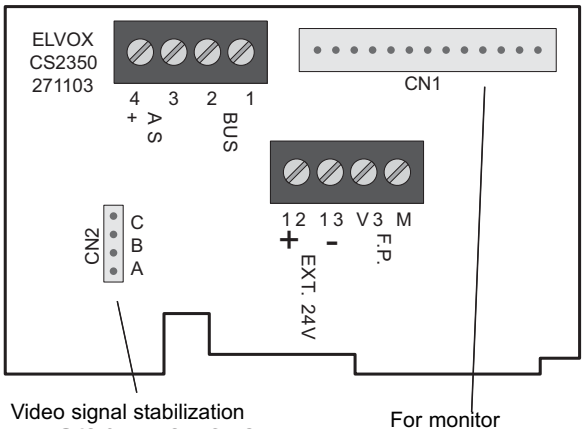


Fig. 4-48

Terminal block kit art. 661A	Conductor colour	Terminal block monitor art. 6309, 6309/C
1	Sky blue	1
2	White	2
3	Pink	3
4	Orange	4
5	Blue (thick section)	12
6	Red (thick section)	13
8	Yellow	V3
9	Brown	M

Terminal block kit art. 661F	Conductor colour	Terminal block monitor art. 6309, 6309/C
1	Sky blue	1
2	White	2
3	Pink	3
4	Orange	4
	Red wire in double cable (red/black)	12 (Positive wire in built-in power supply).
	Black wire in double cable (red/black)	13 (Negative wire in built-in power supply)
5	Blue wire (thick section)	V3
6	Red wire (thick section)	M

ART. 6601/AU, 660C/AU, 6701/AU, 6611/AU, 661C/AU, 6711/AU

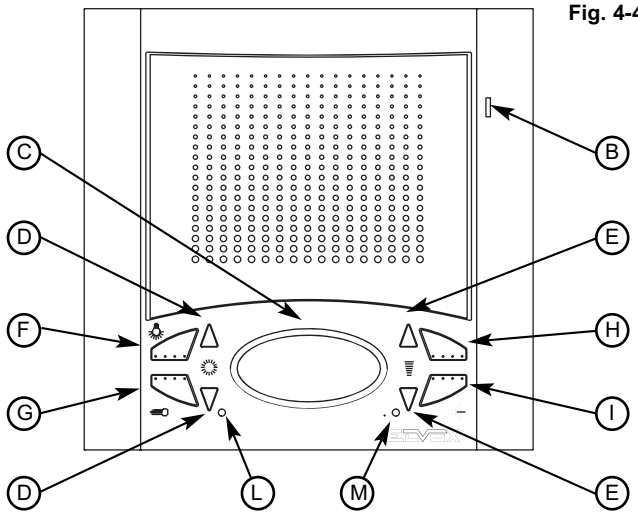
DESCRIPTION

Types 6601/AU, 660C/AU, 6701/AU, 6611/AU, 661C/AU, 6711/AU are open voice interphones series 6600 for ELVOX TWO-WIRE interphones/video interphones installations. They are supplied as standard with 8 push-buttons: 1 for the lock release, 1 for the interphone self-insertion in the installations (even if has not been called), 1 for the conversation, 1 for the stair light, 2 for the internal audio volume and for the chime volume adjustment and 1 for the chime type selection. The luminous signs for: call exclusion, unanswered calls, not available calls and door/gate open, are signalled by means of two LEDs (red and green) present on the interphones. Interphones 6611/AU, 661C/AU, 6711/AU feature a further 6 additional push-buttons programmable for intercom calls and/or auxiliary services.
Installation of the flush-mounted interphone requires the flush-mounted back box type 6149 or the brackets type R660 (for plaster board walls).

Type 6601/AU flush-mounted version
Type 6611/AU flush-mounted version with 6 additional push-buttons
Type 660C/AU desktop version
Type 661C/AU desktop version with 6 additional push-buttons
Type 6701/AU surface wall-mounted version.
Type 6711/AU surface wall-mounted version with 6 additional push-buttons.

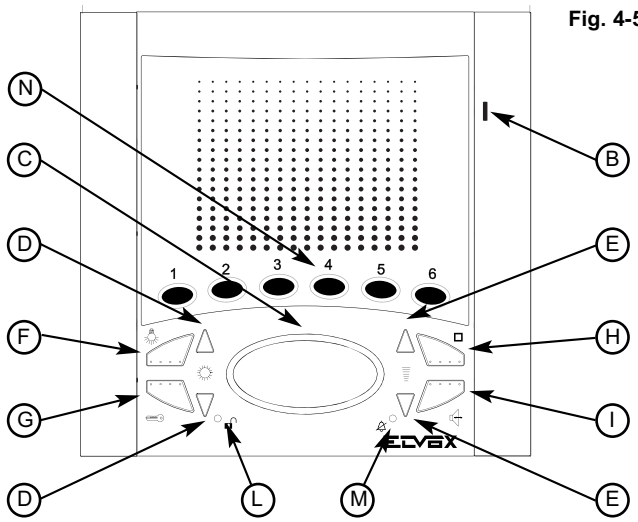
Front of art. 6601/AU, 660C/AU, 6701/AU

Fig. 4-49



Front of art. 6611/AU, 661C/AU, 6711/AU

Fig. 4-50



Interphone technical specifications

- Interphone in ABS.
- Removable terminal block.
- Electronic circuit on interchangeable cards.
- Operating temperature from 0° to +40° C.
- Electronic ringtone.
- Input for landing calls with different ringtone from entrance panel calls.
- Output for additional ringtone type 860A.
- Supply voltage provided by bus.

Controls and adjustments

B) Microphone.
C) Loudspeaker.

D) **Pair of push-buttons.**
1) When the interphone is OFF, the push-buttons can be used to select the tune for calls from a speech unit only. To program the tune: hold down 1 of the 2 push-buttons for at least 1 second, then press the push-buttons repeatedly to select the desired tune.

E) **Pair of push-buttons.**
1) During conversation, with push-button "**I**" pressed, press push-buttons "**E**" to increase or decrease the volume of the internal voice line.
2) To adjust ringtone volume: hold down 1 of the 2 push-buttons "**E**" for at least 1 second, then press the push-buttons repeatedly to increase or reduce ringtone volume, or mute the ringtone.

F) **Push-button** for auxiliary service, 1st relay of 1st actuator type 692R

G) Push-button : for door lock release.

H) Push-button : for self-start of the interphone without the latter being called.

I) **Two-channel talk/listen push-button:** after the interphone has been called and/or self-started, hold down the push-button for conversation with the entrance panel. 5 seconds after the push-button is released, the interphone is disconnected. If it is pressed again before the 5 seconds have elapsed, the conversation can continue.

L) **'Door open' LED:** in installations with this feature, the LED remains lit when the door/gate is open

M) **'Ringtone mute' LED:** the LED illuminates when the ringtone has been muted (see point "E") and flashes when calls have been denied.

N) **Row of 6 additional push-buttons (from 1 to 6):** for activation of auxiliary services or intercom calls with type 69RH.

Connection and connector terminal board

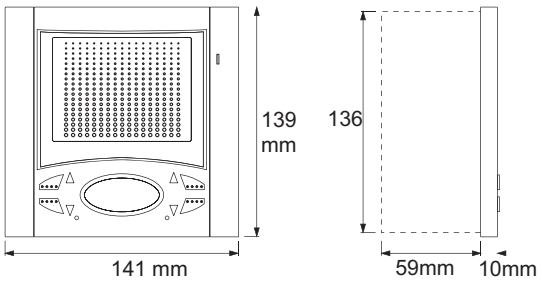
+12, CH) Additional ringtone connection.
1, 2) BUS line.
E+, E-) (Do not use)
FP, M) Connection for landing call push-button.

N.B. On the back of interphones type 6601/AU, 6701/AU, 6611/AU and 6711/AU is a RESET push-button for use during programming. In table version interphones type 660C/AU and 661C/AU, the "RESET" push-button is located under the interphone base.

INSTALLATION 6601/AU, 6611/AU with back box type 6149

- Flush-mount back box type 6149 in the wall at a height of approximately 1.4 m above the ground.
- Remove the plastic cross-piece from the back box
- Fix the video interphone to the back box with the 4 screws supplied (fig. 4-52).
- Fit the side panels, ensuring that the panel with the slot for the microphone is fitted on the right (fig. 4-52).

Fig. 4-51



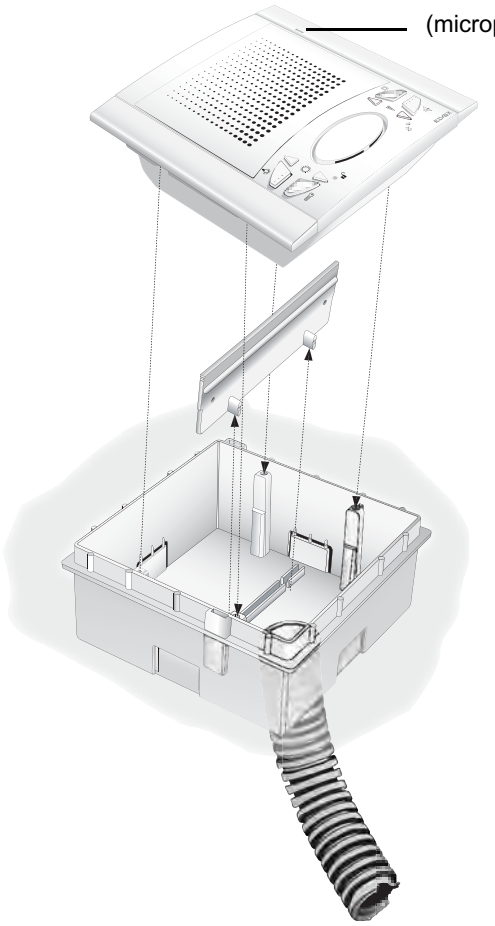


Fig. 4-52

INSTALLATION OF TYPE 6601/AU, 6611/AU WITH BRACKETS TYPE R660

- Drill a hole of size approx. 120x120mm in the plasterboard wall
- Fix the bracket to the interphone as indicated in figure 4-53, keeping the cursors well aligned to the interphone sides.
- Insert the interphone inside the wall in plasterboard.
- Insert the interphone into the plasterboard wall
- As the screws are fastened, the cursors should become aligned perpendicular to the interphone.
- Insert the side grids,ensuring that the one with the slot for the microphone is inserted on the right.

Fig. 4-53

INSTALLATION OF TYPE 6701/AU, 6711/AU

- Fix the interphone fixing plate at a height of 1.40m from ground level to the bottom edge.
- Connect the terminal block.
- Insert the interphone according to the 1 and 2 arrow direction (Fig. 4-55).
- To remove the monitor from the plate hook, operate with a screw driver on the security lock (placed on the upper side and behind the interphone), and remove it according to the 3 and 4 arrow direction (Fig. 4-55).

Surface wall-mounting version

Fig. 4-54

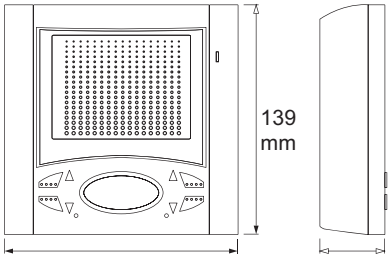
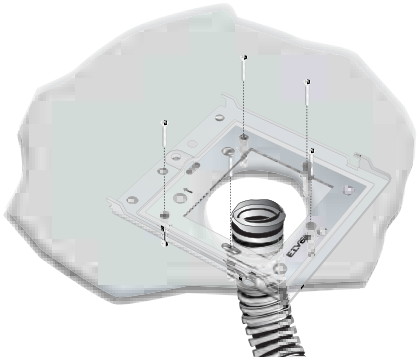


Fig. 4-55



INTALLATION OF TYPE 660C/AU, 661C/AU

- Fix the stud to the wall and insert the support into the stud.

Fig. 4-56

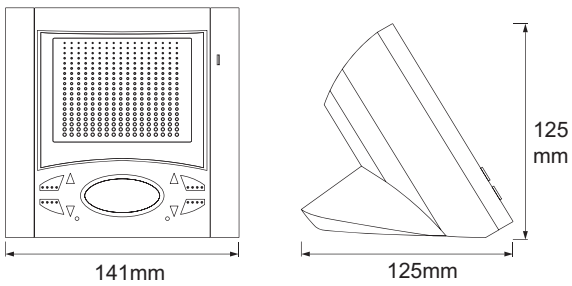


Fig. 4-57

VIDEO SIGNAL STABILISATOR

On the rear of interphones type 6601/AU, 6611/AU, 6701/AU and 6711/AU there are some connectors (A-B-C) for the video signal stabilization.
For table version interphones type 660C/AU and 661C/AU the video signal stabilization is carried out by means of a jumper on terminal block A-B-C present on the stud. This jumper must be used in installations with several appliances (interphones and monitors) connected in series (Fig. 4-58).

In series configuration displace the jumper (only in the last set) into “B” position and keep the jumpers of other interphones or monitors in the initial position “A” (Fig. 4-58).

For other connection configurations see the: TERMINATION TABLE FOR THE THE ELVOX TWO-WIRE INSTALLATIONS shown on page 32 and the wiring diagrams enclosed with the ELVOX TWO-WIRE electronic entrance panels.

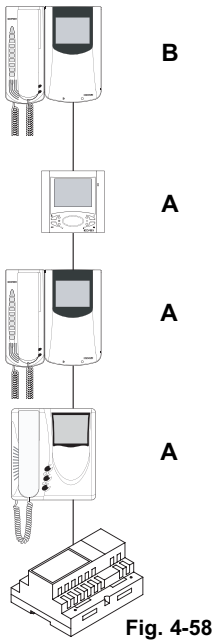


Fig. 4-58

Art. 6601/AU
Art. 6611/AU

Fig. 4-59

Art. 6701/AU
Art. 6711/AU

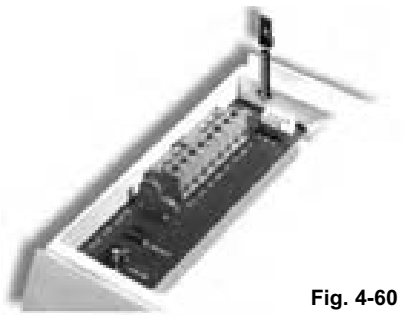


Fig. 4-60

Art. 660C/AU
Art. 661C/AU

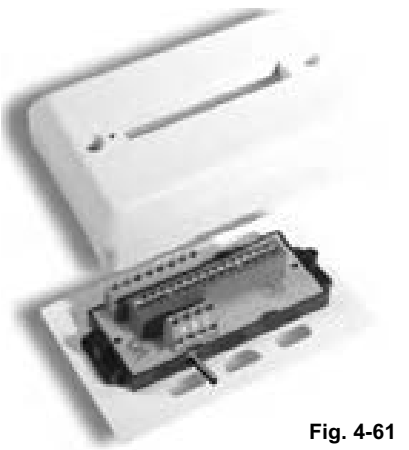


Fig. 4-61

ART. 6601, 660C, 6701, 6611, 661C, 6711

DESCRIPTION

Types 6601, 660C, 6701, 6611, 661C, 6711 are open voice interphones series 6600 with 4'' LCD screen (type 6601, 660C, 6701) or 3.5'' LCD screen (type 6611, 661C, 6711) in colour for ELVOX TWO-WIRE video interphones installations. The monitor screen can be vertically adjusted (only for 6601, 660C and 6701). They are supplied as standard with 8 push-buttons: 1 for the lock release, 1 for the self-start in the installations (even if it has not been called), 1 for the conversation, 1 for the video interphone stair light, 2 for the internal volume and for the chime volume adjustment and 2 for the brightness control and type of chime. The luminous signs for: call exclusion, unanswered calls, not available calls and door/gate open, are signalled by means of two LEDs (red and green) present on the video interphones. Video interphones type 6611, 661C, 6711 feature a further 6 additional push-buttons programmable for intercom calls and/or auxiliary services.
Installation of the flush-mounted video interphone requires the flush-mounted back box type 6149 or the brackets type R660 (for plaster board walls).

Type 6601 flush-mounted version.
Type 6611 flush-mounted version with 6 additional push-buttons.
Type 660C desktop version.
Type 661C surface wall-mounted version with 6 additional push-buttons.
Type 6701 surface wall-mounted version.
Type 6711 surface wall-mounted version with 6 additional push-buttons.

Fig. 4-62

Front of art. 6601, 660C, 6701

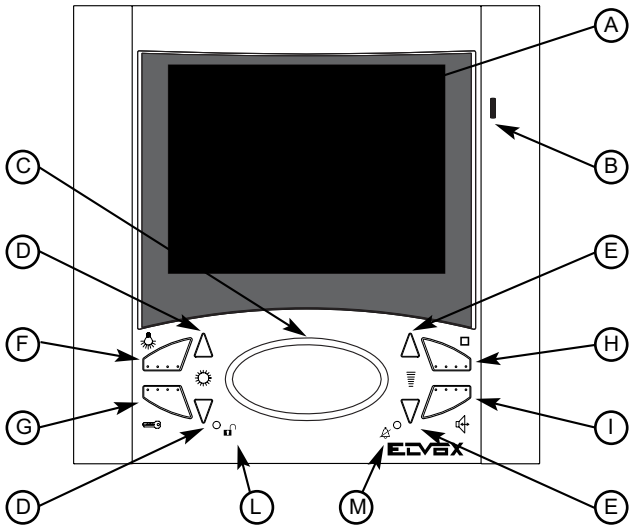
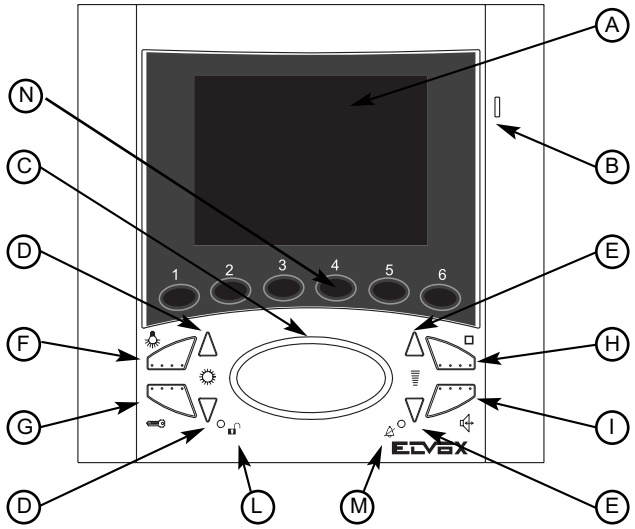


Fig. 4-63

Front of art. 6611, 661C, 6711



Video interphone technical specifications

- Flush-mounted video interphone in ABS.
- Removable terminal block.
- Flat 4" or 3.5" LCD screen.
- Electronic circuit on interchangeable cards.
- PAL standard video signal.
- Operating temperature from 0° to +40° C.
- Electronic ringtone.
- Input for landing calls with different ringtone from entrance panel calls.
- Output for additional ringtone type 860A.
- Supply voltage provided by bus.
- Input for additional power supply (type 6923) if the system is configured to enable simultaneous activation of more than two monitors.

Controls and adjustments

A) 4" LCD screen (type 6601, 660C and 6701) or 3.5" LCD screen (type 6611, 661C and 6711), manually tilting screen only available for type 6601, 660C and 6701.

B) Microphone.

C) Loudspeaker.

D) **Pair of push-buttons.**
1) When the monitor is ON, the push-buttons can be used to adjust the brightness.
2) When the monitor is OFF, the push-buttons can be used to select the tune for calls from a speech unit only. To programme the tune: hold down 1 of the 2 push-buttons for at least 1 second, then press the push-buttons repeatedly to select the desired tune.

E) **Pair of push-buttons.**
1) During conversation, with push-button "i" pressed, press push-buttons "E" to increase or decrease the volume of the internal voice line.
2) To adjust ringtone volume: hold down 1 of the 2 push-buttons "E" for at least 1 second, then press the push-buttons repeatedly to increase or reduce ringtone volume, or mute the ringtone.

F) **Push-button** for auxiliary service, 1st relay of 1st actuator type 69RH or 692R.

G) **Push-button** : for door lock release.

H) **Push-button** : for self-start of the monitor without the latter being called.

I) **Two-channel conversation push-button**: after the monitor has been called and/or switched on, hold down the push-button for conversation with the entrance panel. 5 seconds after the push-button is released, the interphone is disconnected. If it is pressed again before the 5 seconds has elapsed, conversation can continue.

L) **Door open LED**: in installations with this feature, the LED remains lit when the door/gate is open

M) **'Ringtone mute' LED**: the LED illuminates when the ringtone has been muted (see point "E") and flashes when calls have been denied.

N) **Row of 6 additional push-buttons (from 1 to 6):** for activation of auxiliary services or intercom calls with actuator type 69RH.

N.B. On the back of the video interphones type 6601, 6701, 6611 and 6711 is a RESET push-button for use during programming, while on desktop video interphones type 660C and 661C, the RESET push-button is located under the interphone base.

Connection and connector terminal board

+12, CH) Additional ringtone connection.
1, 2) BUS line.
E+, E-) Additional supply voltage for video interphone with power supply type 6923.
FP, M) Connection for landing call push-button.

Installation of types 6601, 6611 with back box art. 6149

- **Install the video interphone away from sources of light and heat.**
- Flush-mount back box type 6149 in the wall at a height of approximately 1.4 m above the ground.
- Remove the plastic cross-piece from the back box
- Fix the video interphone to the back box with the 4 screws supplied (fig. 4-65).
- Fit the side panels, ensuring that the panel with the slot for the microphone is fitted on the right (fig. 4-65).

Fig. 4-64

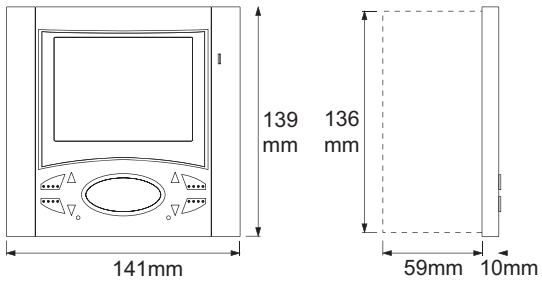
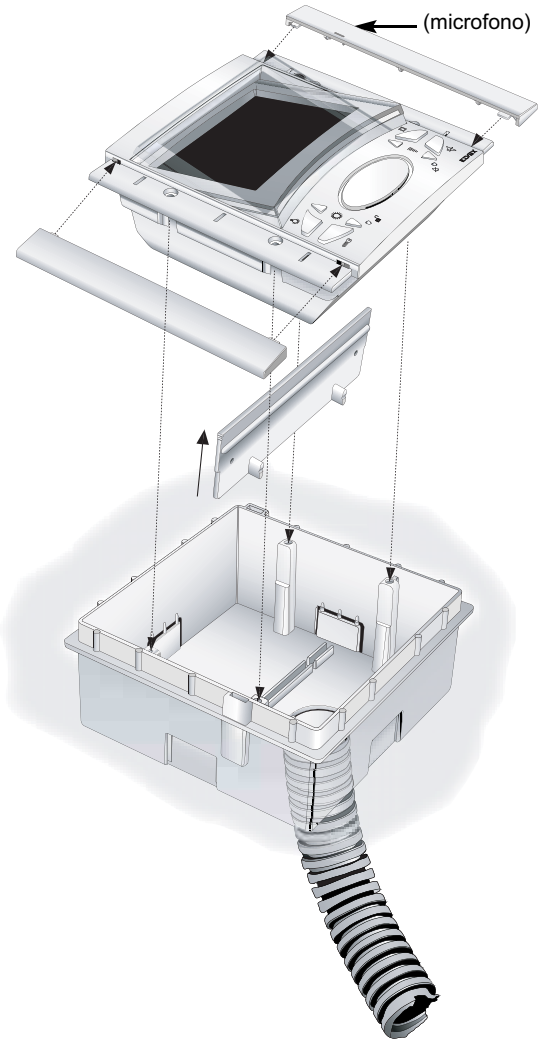


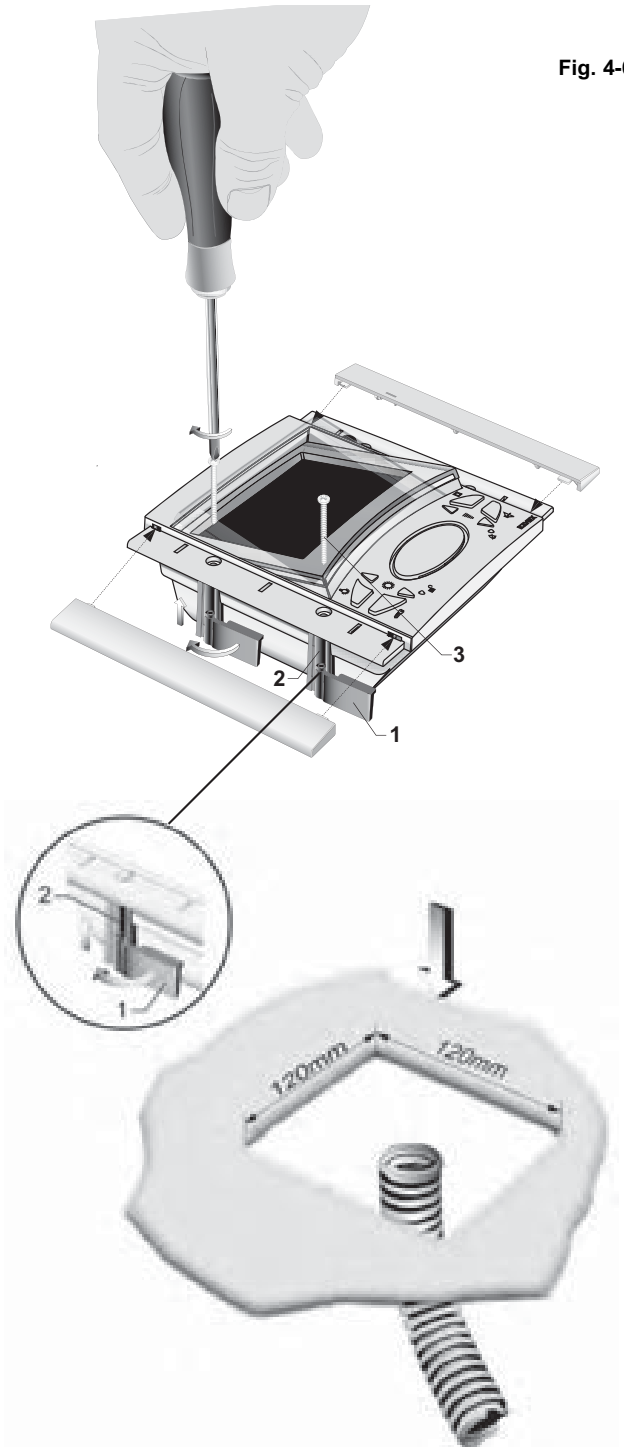
Fig. 4-65



INSTALLATION OF TYPE 6601, 6611 WITH BRACKETS TYPE R660

- Drill a hole of size approx. 120x120mm (nearly) hole in the plasterboard wall.
- Fix the bracket to the monitor as indicated in figure 4-66, keeping the cursors well aligned to the monitor sides.
- Insert the monitor inside the wall in plasterboard.
- Tighten the screws so as the cursors are brought closer to the plasterboard wall.
- Insert the monitor into the plasterboard wall
- As the screws are fastened, the cursors should become aligned perpendicular to the monitor.
- Insert the side grids, ensuring that the one with the slot for the microphone is inserted on the right.

Fig. 4-66



Installation of types 6701, 6711

- Fix the monitor fixing plate at a height of 1.40m from the ground level to the bottom edge.
- Connect the terminal block.
- Insert the monitor according to the 1 and 2 arrow direction (Fig. 4-67)
- To remove the monitor from the plate hook, operate with a screw driver on the security lock (placed on the upper side and behind the monitor), and remove it according to the 3 and 4 arrow direction (Fig. 4-67).

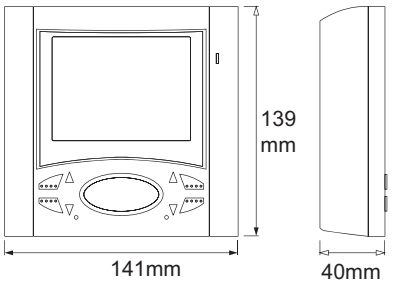


Fig. 4-67

Fig. 4-68

INSTALLATION OF TYPE 660C, 661C

- Fix the monitor support to the wall and hook the stud to the support.

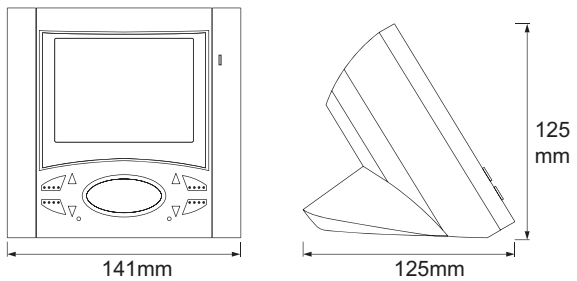


Fig. 4-69

Fig. 4-70

VIDEO SIGNAL STABILISATION

On the rear of monitors type 6601, 6611, 6701 and 6711 there are some connectors (A-B-C) for the video signal stabilization.
For the desktop monitors type 660C the video signal stabilization is carried out by means of a jumper on terminal block A-B-C present on the stud. This jumper must be used in installations with several appliances (interphones and monitors) connected in series (Fig. 4-71).

In series configuration, move the jumper (only in the last set) to position "B" and keep the jumpers of other interphones or monitors in the initial position “A” (Fig. 4-71).

For other connection configurations see the: TERMINATION TABLE FOR ELVOX TWO-WIRE INSTALLATIONS shown on page 26 and the wiring diagrams enclosed with the ELVOX TWO-WIRE electronic entrance panels.

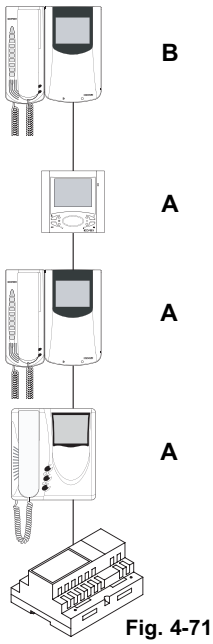
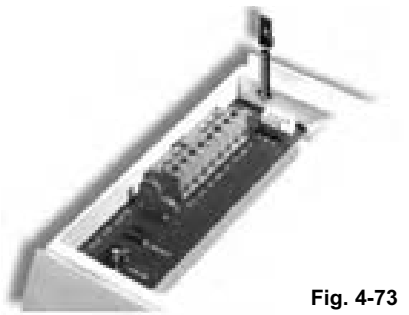


Fig. 4-71

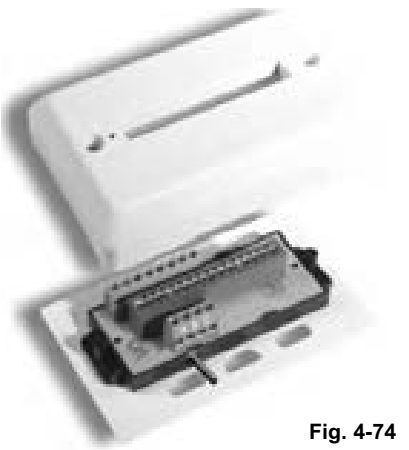
Art. 6601
Art. 6611

Fig. 4-72



Art. 6701
Art. 6711

Fig. 4-73



Art. 660C
Art. 661C

Fig. 4-74

INSTALLING 8000 ELECTRONIC ENTRANCE PANELS Art. 89F4, 89F7, 89F7/C, 89F9 AND ACCESSORIES

ELVOX Communicating in style

TWO WIRE ELVOX

INTRODUCTION

The ELVOX 2-WIRE electronic entrance panels in the 8000 series comprise modular elements, which, when combined determine the panel model, panel dimensions and the type of installation.

The main features of the entrance panel model are the standard modules, fitted with an electronic unit with microcontroller, which enables the following entrance panel models to be configured:

- Audio entrance panels with push-buttons (single or double row), with standard modules type 89F3/...
- Audio entrance panel with electronic phone book, alphanumeric keypad and display, with standard modules type 89F4.
- Video entrance panel with B/W camera and push-buttons (single or double row), with standard modules type 89F5/...
- Video entrance panel with colour camera and push-buttons (single or double row), with standard modules type 89F5/C.
- Video entrance panel with B/W camera, electronic phone book, alphanumeric keypad and display, with standard modules type 89F7.
- Video entrance panel with colour camera, electronic phone book, alphanumeric keypad and display, with standard modules type 89F7/C.
- Video entrance panel with push-buttons (single or double row), and external connection of CCTV camera, with standard modules type 89F8.
- Video entrance panel with electronic phone book, alphanumeric keypad and display, and external connection of CCTV camera, with standard modules type 89F9.

All entrance panels are supplied with the “Engaged-Please Wait” message, while entrance panels with display have an alphanumeric display with 2 lines x 16 characters and an electronic phone book for up to 200 users. Each user can be associated with two names comprising max. 16 characters.

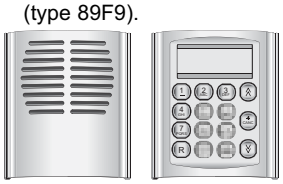
Selection of the elements starts with the: standard electronic modules, after which additional modules can be added to enable expansion of the standard modules, with selection of module holder frames to assemble the units. To complete the entrance panel, the box and frame versions are selected according to the type of entrance panel installation; surface wall-mounted or flush-mounted. As far the dimensions are concerned the basic modules correspond to 2 vertical modules series 8000.

ART. 89F4, 89F7, 89F7/C, 89F9

DESCRIPTION

Types **89F4, 89F7, 89F7/C and 89F9** correspond respectively to the standard modules for the composition of 4 models of electronic entrance panel:

- electronic audio entrance panel with keypad, alphanumeric display and electronic phone book (type 89F4),
- electronic video entrance panel with B/W camera, keypad, alphanumeric display and electronic phone book (type 89F7),
- electronic video entrance panel with colour camera, keypad, alphanumeric display and electronic phone book (type 89F7/C),
- electronic video entrance panel with keypad, alphanumeric display, electronic phone book and connection for an external CCTV camera (type 89F9).



TYPE 89F4
(modules for alphanumeric audio entrance panel)

TYPE 89F7
(modules for alphanumeric B/W video entrance panel)

TYPE 89F7/C
(modules for alphanumeric colour video entrance panel)

TYPE 89F9
(modules for alphanumeric video entrance panel with external camera)

Fig. 4-75

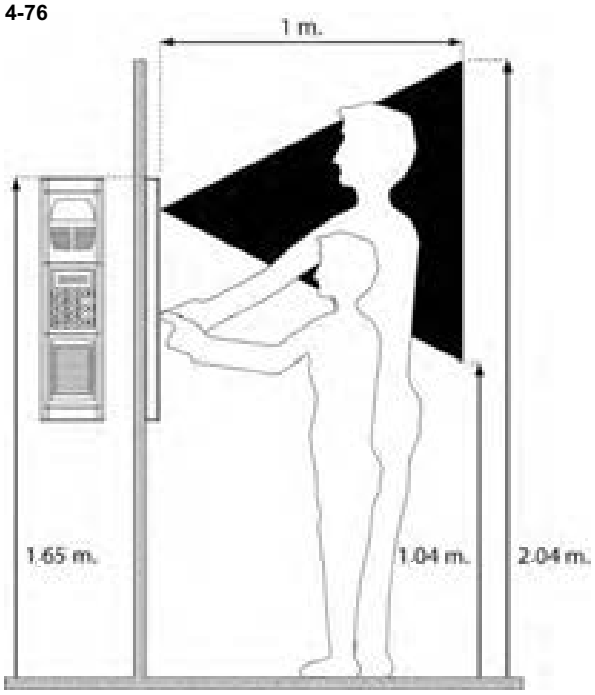
The electronic entrance panels can store up to 200 different call codes, which can be inputted using one of 4 different encoding systems: from 1 to 200, 1 to 9999 (4 digits), 1 to 99999999 (8 digits) and by means of the names stored in the electronic phone book. The entrance panels are designed to operate either alone or together with other entrance panels. In any event one must be set as a Master entrance panel and the others as Slave. The front of the electronic unit (see fig. 4-77) is fitted with the following: the "Voice line balancing control - 3", which is factory-set, the “Reset push-button - 2”, the alphanumeric display and the keypad. The entrance panel can be programmed with the entrance panel keypad or with programming module type 950C.

INSTALLATION

Installation and assembly of the 8000 series electronic entrance panels involves the following phases:

1 - Define the standard module and any additional modules (name-tag holders).
2 - Select the module holder frames (type 8092, 8082, 8093, 8083, 8094, 8084) according to the modules to be combined. Use frame types 8092, 8093 and 8094 to combine the standard module with the additional modules and frame types 8082, 8083 and 8084 for additional modules only.
3 - Select the back boxes and frames for flush-mounted or surface wall-mounted installations.
4 - Install the flush-mounted back box or surface wall-mounted back box with the bottom edge at a height of approx. 1.65 m from the ground. Use the hole at the bottom of the back box to route the wires.
5 - Fix the rainproof covers on the back boxes.
6 - Fix the terminal block of the standard module to the frame.
7 - Connect the terminal block to the system as shown in the wiring diagrams.
8 - Connect the supply voltage for the LEDs on the additional modules.
9 - Insert the electronic unit and additional modules in the frames.
10 - Fix the entrance panel microphone on the lower end section.
11 - Programme the entrance panel.
12 - Insert the module plates in the frame.
13 - Close the entrance panel.

Fig. 4-76



STANDARD MODULES

The standard modules comprise: an electronic unit, a connection terminal block and 2 plates in the series 8000. The electronic unit is equipped with a speech unit, a camera for video versions, a back-lit alphanumeric display, a keypad and wiring for connecting the terminal block.
The standard modules for B/W video entrance panels are equipped with a B/W camera with ¼" CCD sensor and fixed 3 mm lens and LED for infrared lighting. The standard modules for colour video entrance panels are equipped with a colour camera with ¼" CCD sensor, fixed 3 mm lens and white light LED. All entrance panels with cameras can be panned manually any time the cover is removed, either horizontally or vertically.

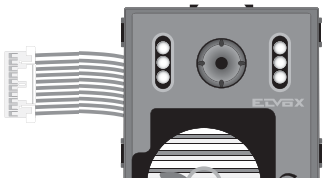
Example of standard module with camera.

Fig. 4-77

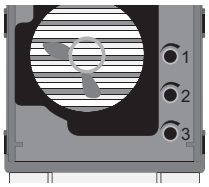
8000 series plates

Electronic unit

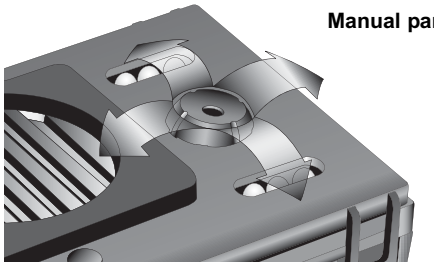
Wiring for terminal block connection

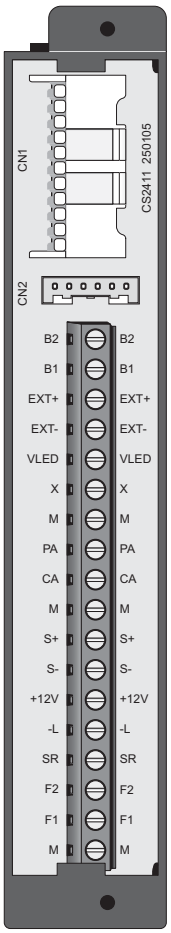


Controls:
2 - Reset
3 – Balance



Manual pan and tilt





Terminal block

CN1)	Connector for electronic unit.
CN2)	Connector for programmer Type 950C.
B2)	2-wire Bus (cable riser).
B1)	2-wire Bus (cable riser).
EXT+)	External power supply (+ type 6923).
EXT-)	External power supply (- type 6923).
VLED)	LED power supply for additional modules.
X)	Video input (coaxial core), for external camera (for type 89F9 only).
M)	Video input (coaxial sheath), for external camera (for type 89F9 only).
PA)	Input for door open sensor (with reference to terminal M).
CA)	Door open command (with reference to terminal M).
M)	Ground.
S+)	12VDC lock output (+).) *
S-)	12VDC lock output (-).) *
+12V)	+12V output (max 100 mA) with PTC protection.
-L)	External camera pilot, open collector output.
SR)	Lock pilot via relay, open collector output.
F2)	F2 function pilot via relay, open collector output.
F1)	F1 function pilot via relay, open collector output.
M)	Ground.

* The panel supplies a current peak I_T> 1A for 10 mS, followed by a hold current I_M= 200mA for the entire duration of the lock command (see lock time).

Fig. 4-78

ADDITIONAL MODULE

Types **805N** and **80PN** are two additional modules, one with LED-lit name-tag holder for 13 names and one with LED-lit house-number holder. The name-tag or house-number holder can be accessed from the back of the module as shown in figure 4-80. The bulb-holder supplied with the modules must be installed in the module-holder frames and connected to the +12V/M terminals of the terminal block on the electronic unit. After the 4th additional module, use a power supply type 6582 to power all the additional modules.

Art. 805N

Art. 80PN

Fig. 4-79

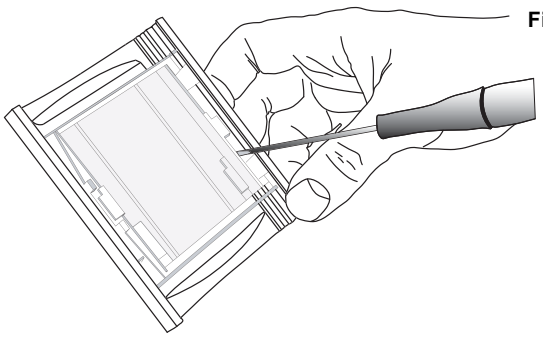


Fig. 4-80

FLUSH-MOUNTED ENTRANCE PANEL INSTALLATION WITH RAIN-PROOF COVERS

Assembly of flush-mounted entrance panels requires the use of back boxes type 9092, 9093 or 9094 respectively for 2, 3 or 4 electronic modules mounted vertically (fig. 4-109). If the entrance panel uses more than one back box, the rainproof covers must also be used (series 92xx, fig. 4-110), according to the number of modules fitted vertically and horizontally.

Installation:
- If the installation requires a combination of several back boxes, use the hooks supplied with the back boxes to secure them together (fig. 4-81).
- Install the back box with the bottom edge at a height of approx. 1.65 m from the ground.
- Fix the terminal block of the electronic unit below the module holder frame by means of the screws supplied (fig. 4-82).
- Fix the rainproof cover to the back boxes by means of the screws supplied (fig. 4-83).
- Fix the frames to the covers and back boxes (fig. 4-83).
- Connect the terminal block of the electronic unit to the system.
- Connect the electronic unit by means of the wiring on the upper section of the unit (fig. 4-85).
- Connect the bulb-holders of any additional modules with name-tag holders. The connection of more than one additional module may necessitate the use of an additional power supply type 6582 to power the LEDs.
- Insert the microphone in the lower right section of the frame (fig. 4-86).
- Insert the plates of the modules in the frames (fig. 4-87).
- Close the entrance panel, attaching the plate first from the upper section and then securing the lower section by means of a screwdriver on the head section (fig. 4-88).
- **Perform the programming phases.**

SURFACE WALL-MOUNTED ENTRANCE PANEL INSTALLATION

Assembly of the surface wall-mounted entrance panels requires the use of the back boxes series 93xx, available in versions with 2 to 16 modules (fig. 4-111). Use of the surface wall-mounted back boxes requires combination with the rainproof covers series 92xx (fig. 4-110), of the same dimensions as the back boxes used.

Installation:
- Install the back box with the bottom edge at a height of approx. 1.65 m from the ground.
- Fix the rainproof cover to the surface-mounted back boxes by means of the screws and nails supplied with the frames (fig. 4-84).
- Fix the terminal block of the electronic unit below the module holder frame by means of the screws supplied (fig. 4-82).
- Fix the frames to the covers and back boxes (fig. 4-84).
- Connect the terminal block of the electronic unit to the system.
- Connect the electronic unit by means of the wiring on the upper section of the unit (fig. 4-85).
- Connect the bulb-holders of any additional modules with name-tag holders. The connection of more than one additional module may necessitate the use of an additional power supply type 6582 to power the LEDs.
- Insert the microphone in the lower right section of the frame (fig. 4-86).
- Insert the plates of the modules in the frames (fig. 4-87).
- Close the entrance panel, attaching the plate first from the upper section and then securing the lower section by means of a screwdriver on the head section (fig. 4-88).
- **Perform the programming phases.**

Fig. 4-81

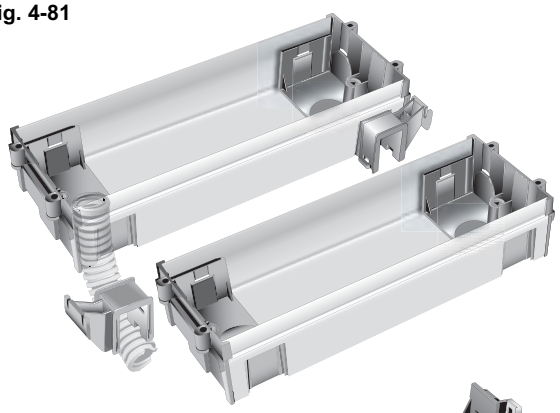


Fig. 4-82

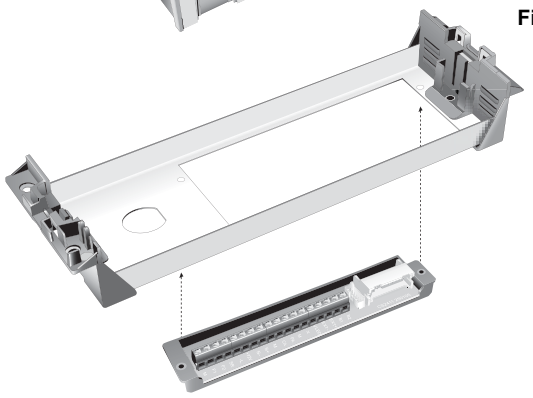


Fig. 4-83

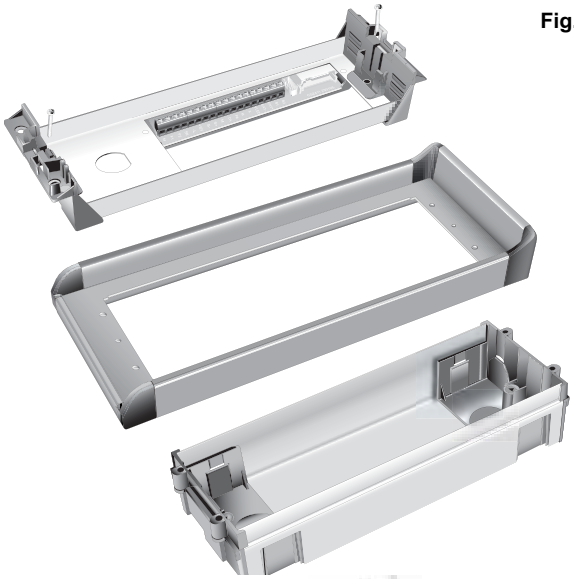


Fig. 4-84

Fig. 4-85

Fig. 4-86

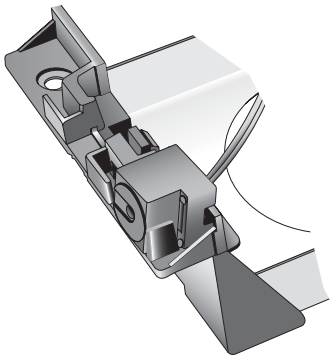


Fig. 4-87

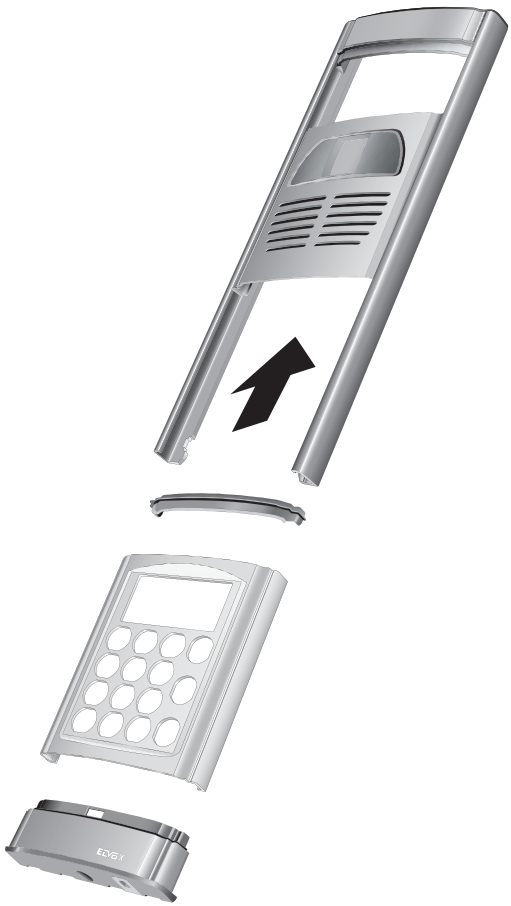


Fig. 4-88

Fig. 4-89

ART. 89F3/..., 89F3/D.., 89F5/..., 89F5/D.., 89F5/C..., 89F5/CD... and 89F8

Description

Types 89F3/..., 89F3/D.., 89F5/..., 89F5/D.., 89F5/C.., 89F5/CD and 89F8 correspond respectively to the standard modules for the composition of 7 models of electronic entrance panels:

- Audio entrance panel with conventional type push-buttons in single row (type 89F3, 89F3/2 .... 89F3/0),
- Audio entrance panel with conventional type push-buttons in double row (type 89F3/D, 89F3/D2 ....),
- Video entrance panel with B/W camera and conventional type push-buttons in single row (type 89F5, 89F5/2 .... 89F5/0),
- Video entrance panel with B/W camera and conventional type push-buttons in double row (type 89F5/D, 89F5/D2 ....),
- Video entrance panel with colour camera and conventional type push-buttons in single row (type 89F5/C, 89F5/C2 .... 89F5/C0),
- Video entrance panel with colour camera and conventional type push-buttons in double row (type 89F5/CD, 89F5/CD2 ....),
- video entrance panel with conventional type push-buttons in single row for the connection of an external CCTV type camera (type 89F8).

Type 89F3 (3 push-buttons in one row)
Type 89F3/2 (2 push-buttons in one row)
Type 89F3/1 (1 push-button in one row)
Type 89F3/0 (0 push-button)

Type 89F3/D (6 push-buttons in double row)
Type 89F3/D4 (4 push-buttons in double row)
Type 89F3/D2 (2 push-buttons in double row)

Type 89F5-89F5/C (3 push-buttons in one row)
Type 89F5/2-89F5/C2 (2 push-buttons in one row)
Type 89F5/1-89F5/C1 (1 push-buttons in one row)
Type 89F5/0-89F5/C0 (0 push-button)

Type 89F5/D- 89F5/CD (6 push-buttons in double row)
Type 89F5/D4- 89F5/CD4 (4 push-buttons in double row)
Type 89F5/D2- 89F5/CD2 (2 push-buttons in double row)

Type 89F8 (3 push-buttons in one row)
Type 89F8/2 (2 push-buttons in one row)
Type 89F8/1 (1 push-buttons in one row)
Type 89F8/0 (0 push-button)

Fig. 4-89

The electronic entrance panels can also generate different call codes with values ranging from 1 to 200, which are inputted using the push-buttons. Panels are designed to operate either alone or together with other panels. In any case one must be set as a Master panel and the others as Slave. The front of the electronic unit (see fig. 4-91) is fitted with: "1 - Balance, 2 - External volume, 3 - Internal volume", the "Master/Slave - TP" jumper (Fig. 4-91) and 6 push-buttons (call) for the standard programming phase. Standard programming of the panel is performed without having fitted the front plate, to access all 6 push-buttons on the electronic unit. For advanced programming of the panel, use programmer type 950C.

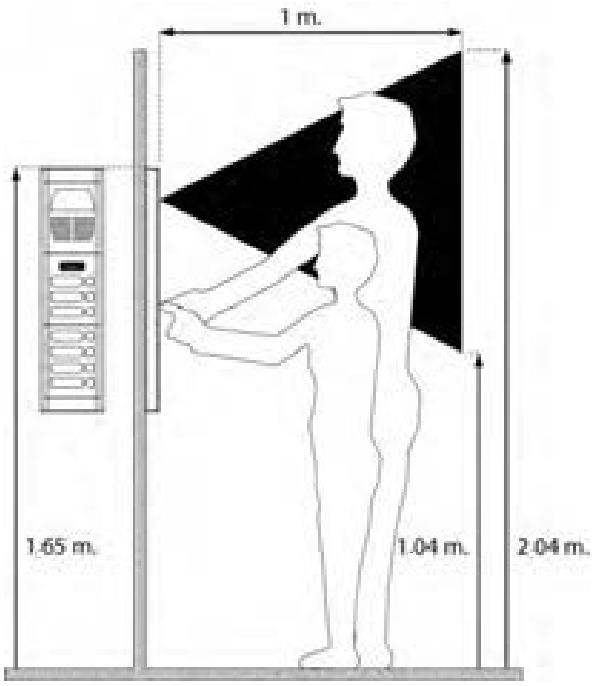
Modification to the volume may give rise to the LARSEN effect (whistling); use trimmer 1 - Balance (near the loudspeaker) to eliminate this effect or lower one or both of the volume levels.

INSTALLATION

Installation and assembly of the 8000 series electronic entrance panels requires the following phases:

1 - Select the standard and additional modules required.
2 - Select the module holder frames (type 8092, 8082, 8093, 8083, 8094, 8084) according to the modules to be combined. Use frame types 8092, 8093 and 8094 to combine the standard module with the additional modules and frame types 8082, 8083 and 8084 for additional modules only.
3 - Select the boxes and frames for wall-mounted or surface mounted installations.
4 - Install the flush-mounted box or surface wall-mounted box with the bottom edge at a height of approx. 1.65 m from the ground. Use the hole at the bottom of the box to route the wires.
5 - Fix the rainproof covers on the boxes.
6 - Fix the terminal block of the standard module to the frame.
7 - Connect the terminal block to the system as shown in the wiring diagrams.
8 - Wire the electronic unit of the standard modules to the additional modules.
9 - Insert the electronic unit and additional modules in the frames.
10 - Fix the panel microphone on the lower end section.
11 - Program the panel.
12 - Insert the module plates in the frame.
13 - Close the panel.

Fig. 4-90



STANDARD MODULES

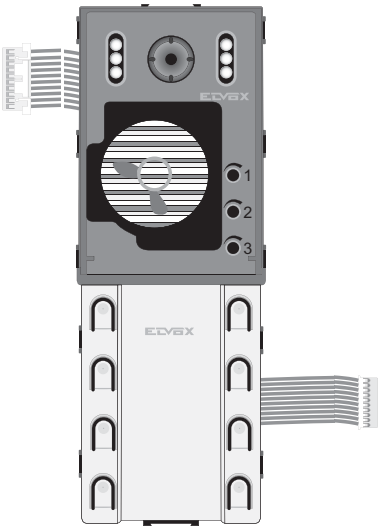
The standard modules consist of: an electronic unit, a connection terminal block and two 8000 series plates. The electronic unit is equipped with a speech unit, a camera (video versions), wiring for terminal block connections, wiring for connection of additional modules and 6 push-buttons for calls and standard programming.
The standard modules for B/W video panels are equipped with a B/W camera with ¼" CCD sensor and fixed 3 mm lens and LED for infrared lighting. The standard modules for colour video panels are equipped with a B/W camera with ¼" CCD sensor and fixed 3 mm lens and white indicator LED. All panels with cameras can be tilted manually, horizontally or vertically, on removal of the plate.

Example of standard module with camera.

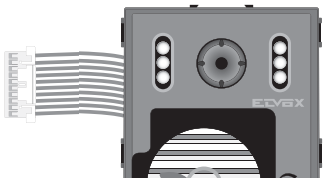
Fig. 4-91

Series plates 8000

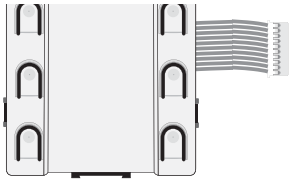
Electronic unit



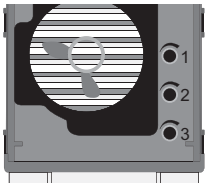
Wiring for terminal block connection



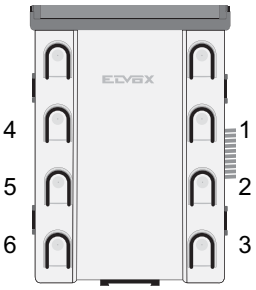
Wiring for connection of additional modules



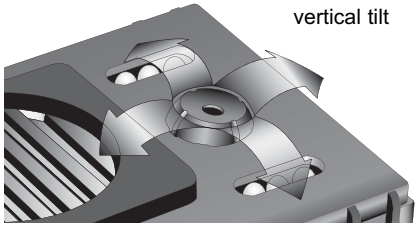
Controls:
1 - Balance
2 - External volume
3 - Internal volume



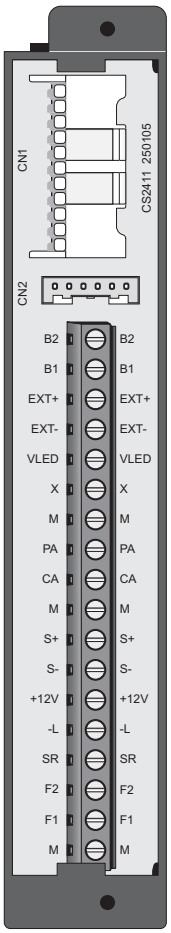
Push-buttons



Manual horizontal and vertical tilt



Reset



Terminal block

CN1)	Connector for electronic unit.
CN2)	Connector for programmer type 950C.
B2)	2-wire Bus (cable riser).
B1)	2-wire Bus (cable riser).
EXT+)	External power supply (+ type 6923).
EXT-)	External power supply (- type 6923).
VLED)	LED power supply for additional modules.
X)	Video input (coaxial core), for external camera (for type 89F8 only).
M)	Video input (coaxial sheath), for external camera (for type 89F8 only).
PA)	Input for door open sensor (with reference to terminal M).
CA)	Door open control (with reference to terminal M).
M)	Ground.
S+)	12VDC lock output (+).) *
S-)	12VDC lock output (-).) *
+12V)	+12V output (max 100 mA) with PTC protection.
-L)	External camera pilot, open collector output.
SR)	Lock pilot via relay, open collector output.
F2)	F2 function pilot via relay, open collector output.
F1)	F1 function pilot via relay, open collector output.
M)	Ground.

* The panel supplies a current peak IT> 1A for 10 mS, followed by a hold current I_M= 200mA for the entire duration of the lock control (see lock time).

Fig. 4-92

ADDITIONAL MODULES

Fig. 4-93

Types **8042, 8044, 8046, 8048, 8051, 8052, 8053, 8054** are additional modules with conventional type push-buttons in double row and single row for connection of standard modules type 89F3/..., 89F5/..., and 89F8 for expansion to the number of push-buttons. The modules are connected one after the other by means of the wiring supplied with the modules, for subsequent connection to the electronic unit by means of the wiring in the lower section.

Art. 8000
(neutral)

Art. 8051
(1 push-button)

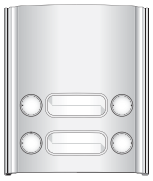
Art. 8052
(2 push-buttons)

Art. 8053
(3 push-buttons)

Art. 8054
(4 push-buttons)

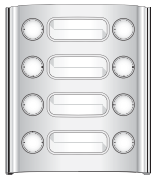
Art. 8042
(2 push-buttons)

Art. 8044
(4 push-buttons)



Art. 8046
(6 push-buttons)

Art. 8048
(8 push-buttons)



FLUSH-MOUNTED PANEL INSTALLATION WITH RAINPROOF COVERS

Assembly of the flush-mounted panels requires use of back boxes type 9092, 9093 or 9094 respectively for 2, 3 or 4 electronic modules vertically mounted (fig. 4-109). If the panel uses more than one back box, the rainproof covers must also be used (series 92xx, fig. 4-110), according to the number of modules vertically and horizontally fitted.

Installation:

- If the installation requires combination of several boxes, use the hooks supplied with the boxes to secure them together (fig. 4-94).
- Install the box with the bottom edge at a height of approx. 1.65 m from the ground.
- Fix the terminal block of the electronic unit below the module holder frame by means of the screws supplied (fig. 4-95).
- Fix the rainproof cover to the back boxes by means of the screws supplied (fig. 4-96).
- Fix the frames to the covers and boxes (fig. 4-96).
- Connect the terminal block of the electronic unit to the system.
- Connect the electronic unit by means of the wiring on the upper section of the unit (fig. 4-98) to the termianl block.
- Connect any additional modules if used (fig. 4-99). **The connection of several additional modules may require an additional power supply type 6582 for powering the LEDs.**
- Insert the electronic unit and additional modules in the frames. Use the separator supplied with the additional modules to keep them joined together (fig. 4-100).
- Insert the microphone in the lower right section of the frame (fig. 4-101) with the hole downwards.
- Remove the white push-button protections, in the electronic unit and additional modules, if necessary (fig. 4-102).
- **Perform the programming phases.**
- Refit the protections on the push-buttons (fig. 4-102).
- Insert the plates of the modules in the frames (fig. 4-103).
- To eccess the nametag remove the name-tag holder from the rear (Fig. 4-105)
- Close the panel, attaching the plate first on the upper section and then securing it, by means of a screwdriver, on the lower section of the head (fig. 4-104).

SURFACE WALL-MOUNTED PANEL INSTALLATION

Assembly of the surface wall-mounted panels requires use of the boxes series 93xx, available in the versions with 2 to 16 modules (fig. 4-111). Use of the surface wall-mounted boxes requires combination with the rainproof covers series 92xx (fig. 4-110), with the same dimensions as the boxes used.

Installation:

- Install the box with the bottom edge at a height of approx. 1.65 m from the ground.
- Fix the rainproof cover to the surface-mounted boxes by means of the screws and nails supplied with the frames (fig. 4-97).
- Fix the rainproof cover to the back boxes by means of the screws supplied (fig. 4-95).
- Fix the frames to the covers and boxes (fig. 4-97).
- Connect the terminal block of the electronic unit to the system.
- Connect the electronic unit by means of the wiring on the upper section of the unit (fig. 4-98).
- Connect any additional modules if used (fig. 4-99). **The connection of several additional modules may require an additional power supply type 6582 for powering the LEDs.**
- Insert the electronic unit and additional modules in the frames. Use the separator supplied with the additional modules to keep them joined together (fig. 4-100).
- Insert the microphone in the lower right section of the frame (fig. 4-101) with the hole downwards.
- Remove the white push-button protections, electronic unit and additional modules, if necessary (fig. 4-102).
- **Perform the programming phases.**
- Refit the protections on the push-buttons (fig. 4-102).
- Insert the plates of the modules in the frames (fig. 4-103).
- To eccess the nametag remove the name-tag holder from the rear (Fig. 4-105)
- Close the panel, attaching the plate first on the upper section and then securing it, by means of a screwdriver, on the lower section of the head (fig. 4-104).
- Figure 4-106 illustrates the final configuration of a base module and multi-modular panel .
  Note: the standard module must be positioned in the upper section of the multi-modular panel.

Fig. 4-94

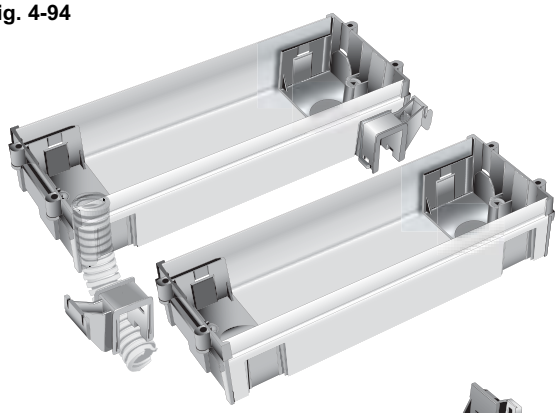


Fig. 4-95

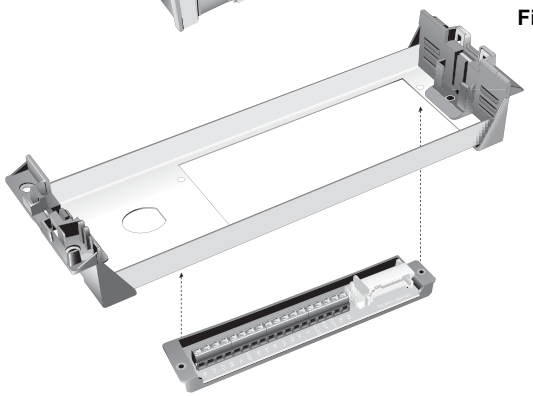


Fig. 4-96

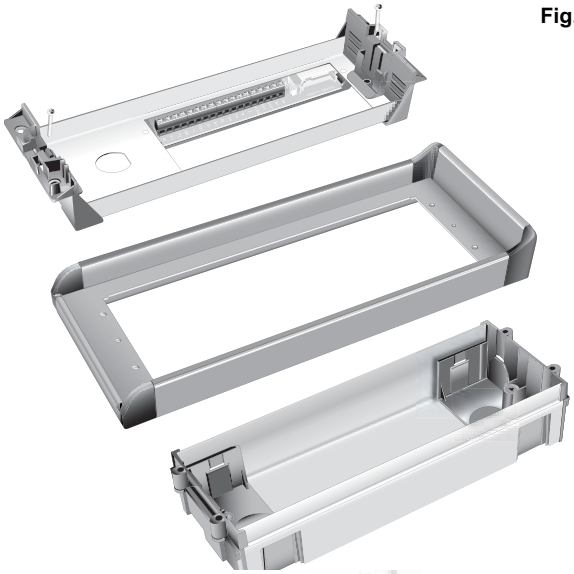


Fig. 4-97

Fig. 4-98

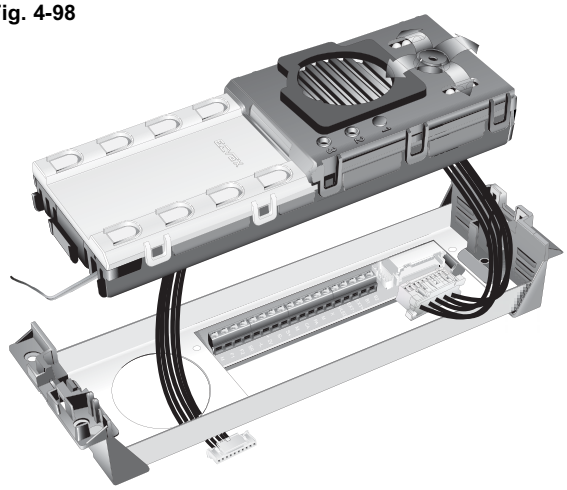


Fig. 4-99

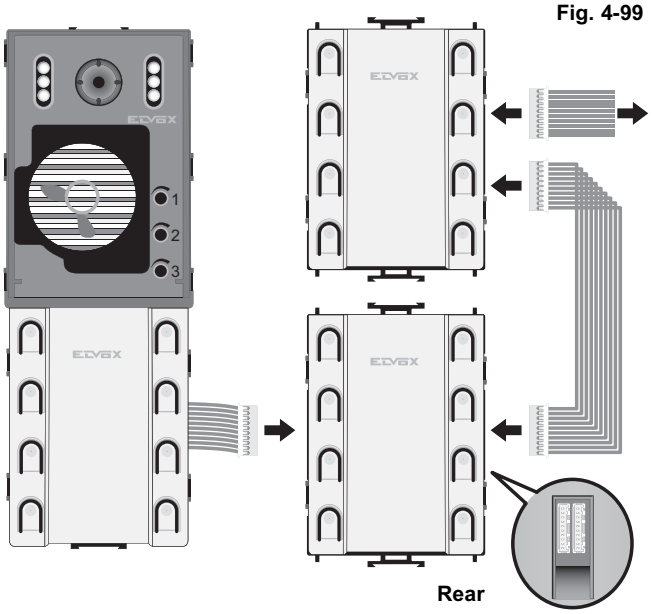


Fig. 4-100

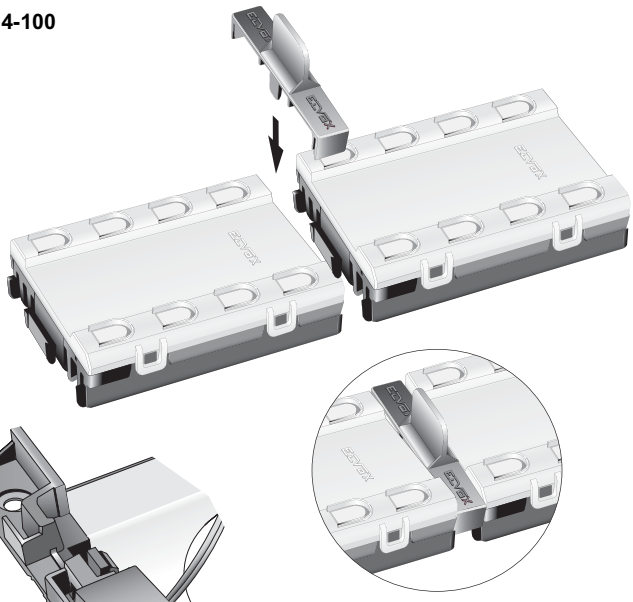


Fig. 4-101

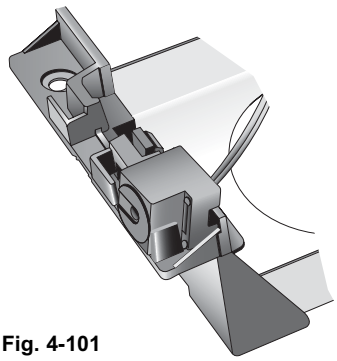


Fig. 4-102

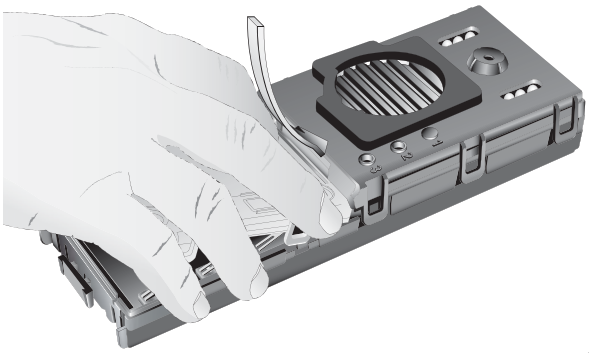


Fig. 4-103

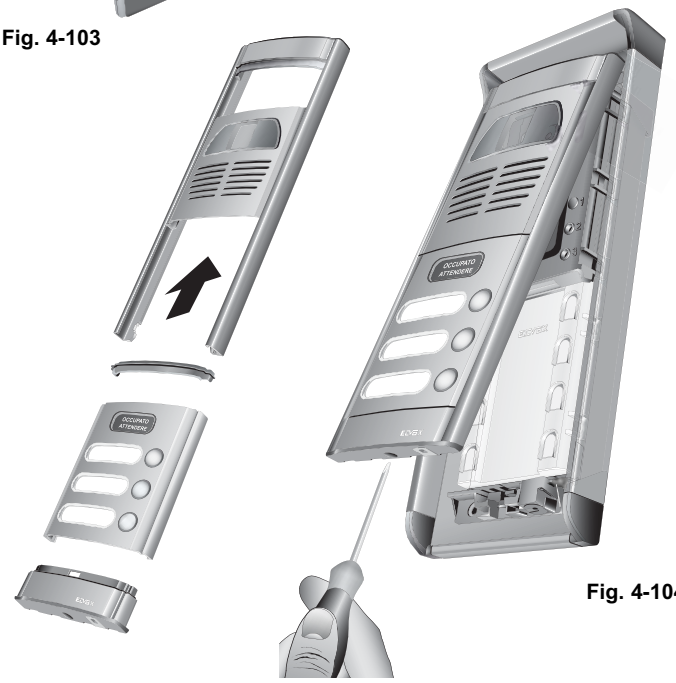


Fig. 4-104

Fig. 4-105

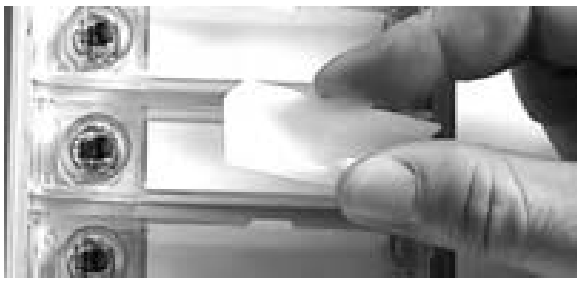


Fig. 4-106

ACCESSORIES: MODULE HOLDER FRAMES

Frame width 101 mm for 1 horizontal module and thickness 21 mm.

Type 8092
For standard module
Height: 2 vertical modules (271 mm)

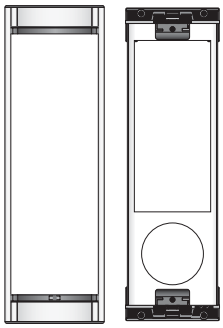


Fig. 4-107a

Type 8082
For 2 additional modules.
Height: 2 veritcal modules (271 mm).

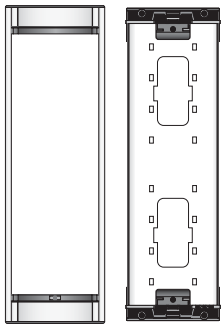


Fig. 4-108a

Type 8093
For basic module and 1 additional module.
Height: 3 vertical modules (383 mm)

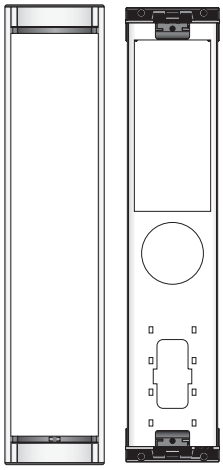


Fig. 4-107b

Type 8083
For 3 additional modules.
Height: 3 vertical modules (383 mm)

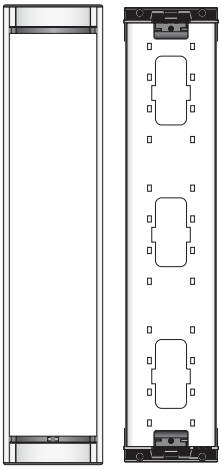


Fig. 4-108b

Type 8094
For standard module and 2 additional modules.
Height: 4 vertical modules (495 mm)

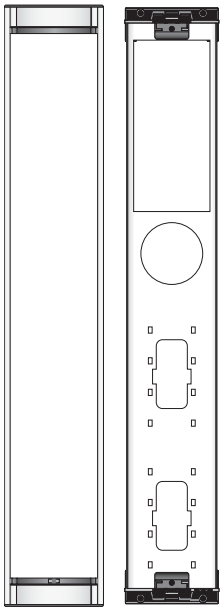


Fig. 4-107c

Type 8084
For 3 additional modules.
Height: 3 vertical modules (495 mm).

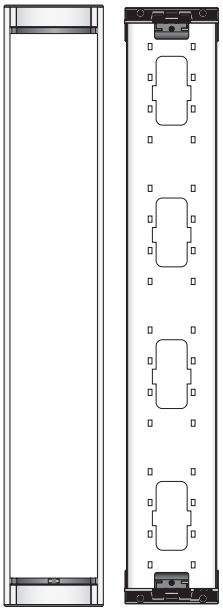


Fig. 4-107c

ACCESSORIES: FLUSH-MOUNTED BACK BOXES

Box width 88mm for 1 horizontal module and 50 mm depth.

Type 9092
For 2 additional modules.
Height: 2 vertical modules (248 mm)

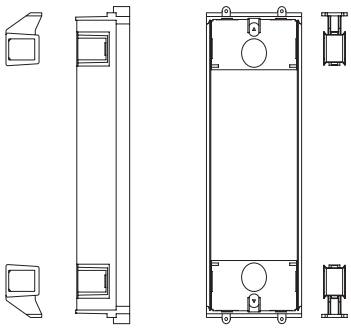


Fig. 4-109a

Type 9093
For 3 additional modules.
Height: 3 vertical modules (360 mm)

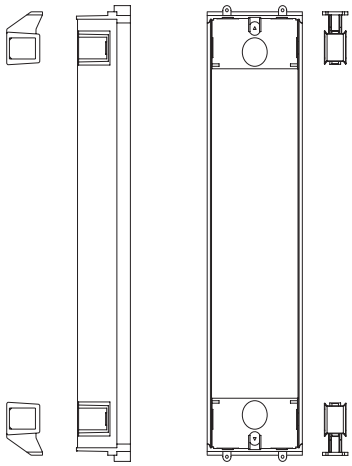


Fig. 4-109b

Type 9094
For 4 additional modules.
Height: 4 vertical modules (472 mm).

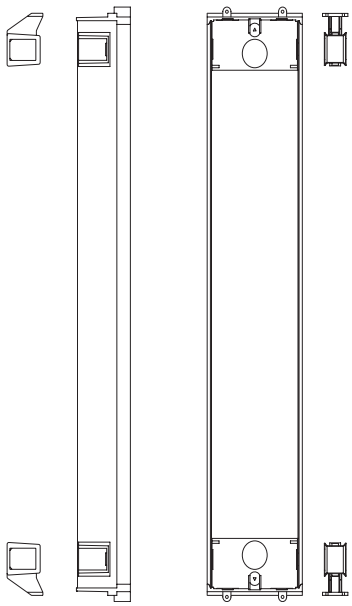


Fig. 4-109c

ACCESSORIES: FRAMES WITH RAINPROOF COVER

Thickness 38 mm

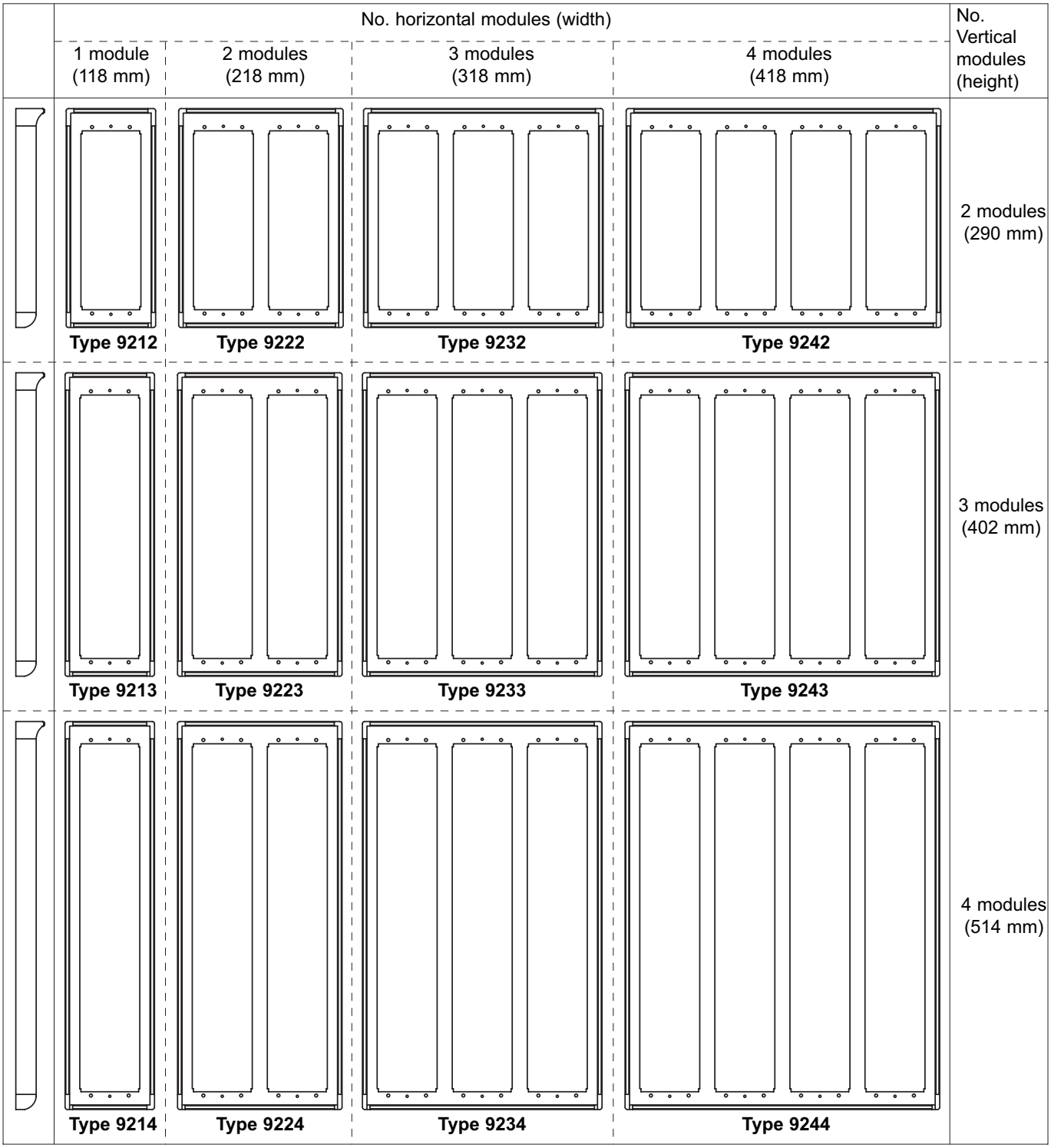


Fig. 4-110

ACCESSORIES: SURFACE-WALL MOUNTED BOXES

Thickness 30 mm

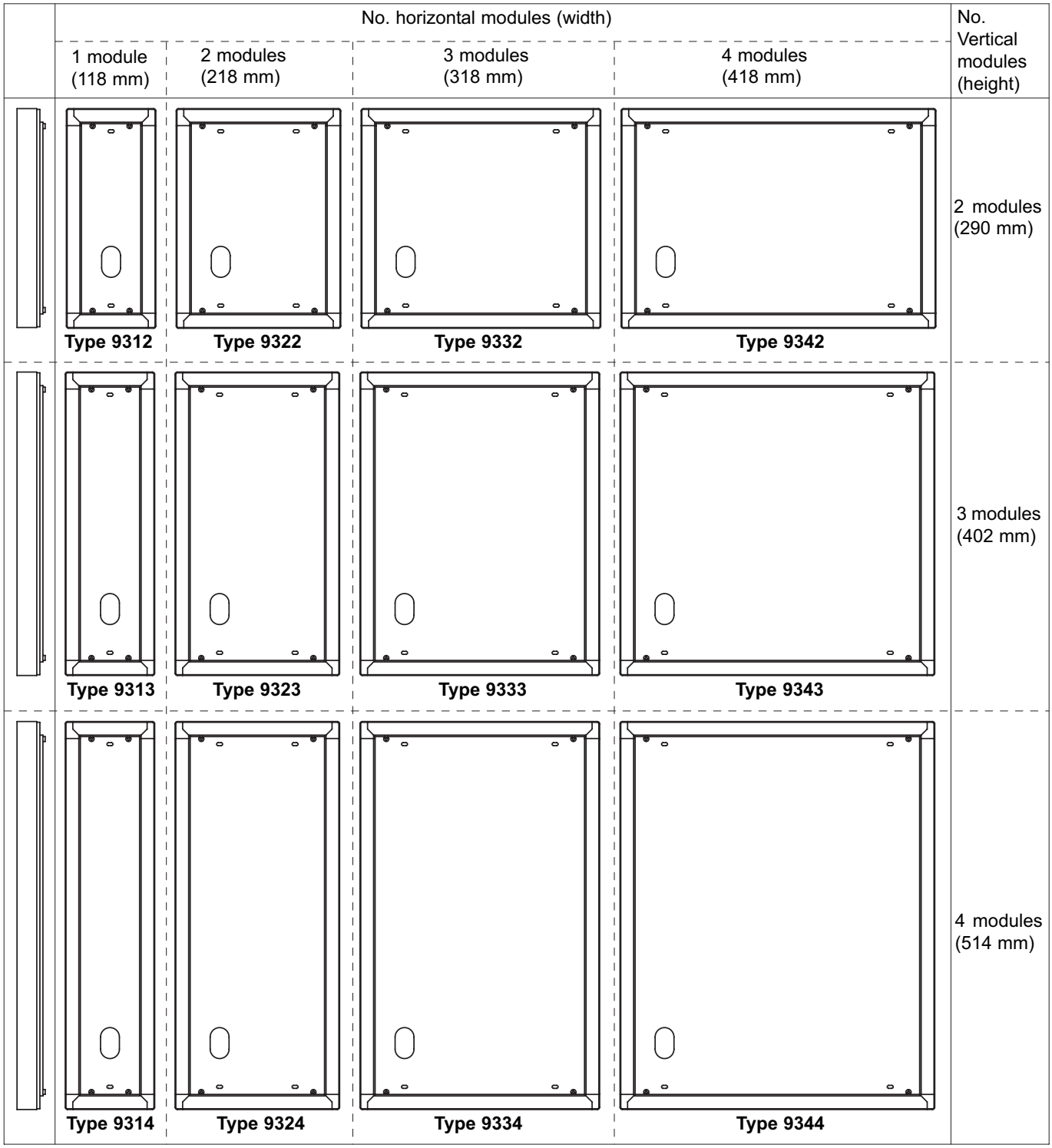


Fig. 4-111

INSTALLING PATAVIUM ELECTRONIC ENTRANCE PANELS Art. 89F4/T, 89F7/T, 89F7/CT, 89F9/T AND ACCESSORIES

TWO WIRE ELVOX

INTRODUCTION

The PATAVIUM series of TWO WIRE ELVOX electronic entrance panels features both standard panels and supplementary extension panels. All Patavium panels consist of a brass plate which is gold-plated and varnished using the titanium nitride PVD technique, and a flush-mounted, zinc sheet back box.

Each model comes with a standard entrance panel, which is fitted with an electronic unit and microcontroller. These elements can be used to configure the following entrance panel models:

- Audio entrance panels with conventional type push-buttons, with standard modules type 89F3/T...
- Audio entrance panel with electronic phone book, alphanumeric keypad and display, with standard modules type 89F4/T...
- Video entrance panel with B/W camera and conventional type push-buttons (single or double row), with standard modules type 89F5/T...
- Video entrance panel with colour camera and conventional type push-buttons (single or double row), with standard modules type 89F5/CT...
- Video entrance panel with B/W camera, electronic phone book, alphanumeric keypad and display, with standard modules type 89F7/T.
- Video entrance panel with colour camera, electronic phone book, alphanumeric keypad and display, with standard modules type 89F7/CT.

All panels are supplied with the “Engaged-Please Wait” signal, while panels with display have an alphanumeric display with 2 lines x 16 characters and an electronic phone book for up to 200 users. Each user can be associated with two names comprising max. 16 characters.

ART. 89F4/T, 89F7/T, 89F7/CT

DESCRIPTION

Types **89F4/T, 89F7/T, 89F7/CT** are standard modules which can be used to create 3 different models of electronic entrance panel:

- electronic audio entrance panel with keypad, alphanumeric display and electronic phone book (type 89F4/T),
- electronic video entrance panel with B/W camera, keypad, alphanumeric display and electronic phone book (type 89F7/T),
- electronic video entrance panel with colour camera, keypad, alphanumeric display and electronic phone book (type 89F7/CT).

ART. 89F4
(Alphanumeric audio entrance panel)

ART. 89F7/T
(Alphanumeric video entrance panel in B/W).

ART. 89F7/CT
(Alphanumeric video colour entrance panel)

Fig. 4-112

The electronic entrance panels can also generate up to 200 different call codes, which can be inputted using one of 4 different encoding systems: from 1 to 200, from 1 to 9999 (4 digits), from 1 to 99999999 (8 digits) or by typing names stored in the electronic phone book. Panels are designed to operate either alone or together with other panels. In any case one must be set as a Master panel and the others as Slaves. The front of the electronic unit is fitted with the following features: 3 - Balance adjustment (preconfigured by the manufacturer), 2 - Reset button, alphanumeric display and keypad. The panel can be programmed either using the keypad or using programmer type 950C.

STANDARD ENTRANCE PANELS

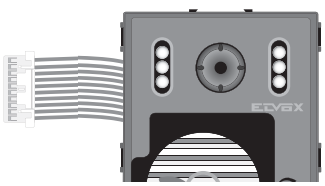
The standard entrance panels consist of: 1 electronic unit, 1 connecting terminal block and 1 PATAVIUM series brass entrance panel. The electronic unit is equipped with: 1 speech unit, 1 camera for the video versions, 1 back-lit alphanumeric display, 1 keypad and 1 cabling for the terminal block connection. The standard modules for video panels in B/W are equipped with a B/W camera with ¼" CCD sensor and fixed 3 mm lens and LED for infrared lighting. The standard modules for colour video panels are equipped with a B/W camera with ¼" CCD sensor and fixed 3 mm lens and white indicator LED. All panels with cameras can be tilted manually, horizontally or vertically, on removal of the plate.

Example of standard module with camera.

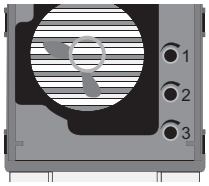
Plate series PATAVIUM

Electronic unit

Wiring for terminal block connection



Controls:
2 – Reset
3 - Balance



Manual horizontal and vertical tilt

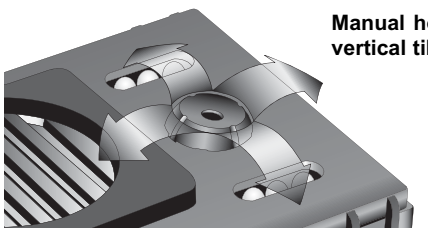
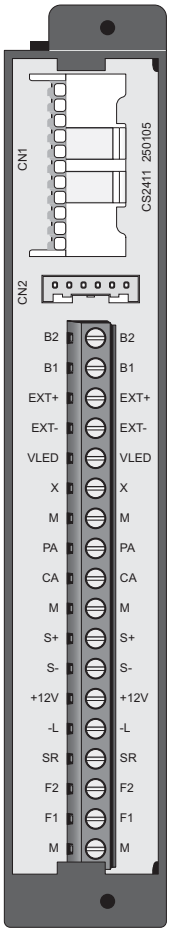


Fig. 4-113



Terminal block

CN1)	Connector for electronic unit.
CN2)	Connector for programmer Type 950C.
B2)	2-wire Bus (cable riser).
B1)	2-wire Bus (cable riser).
EXT+)	External power supply (+ type 6923).
EXT-)	External power supply (- type 6923).
VLED)	Not used.
X)	Video input (coaxial core), for external camera (for type 89F9 only).
M)	Video input (coaxial sheath), for external camera (for type 89F9 only).
PA)	Input for door open sensor (with reference to terminal M).
CA)	Door open command (with reference to terminal M).
M)	Ground.
S+)	12VDC lock output (+).) *
S-)	12VDC lock output (-).) *
+12V)	+12V output (max 100 mA) with PTC protection.
-L)	External camera pilot, open collector output.
SR)	Lock pilot via relay, open collector output.
F2)	F2 function pilot via relay, open collector output.
F1)	F1 function pilot via relay, open collector output.
M)	Ground.

Fig. 4-114

* The panel supplies a current peak I_T> 1A for 10 mS, followed by a hold current I_M= 200mA for the entire duration of the lock command (see lock time).

ADDITIONAL ENTRANCE PANELS

In the case of standard entrance panels type 89F4/T, 89F7/T and 89F7/CT, one or more additional entrance panels type 805N/T may be placed on either side of the standard module.

Fig. 4-115

ART. 805N/T

INSTALLATION OF THE FLUSH-MOUNTED ENTRANCE PANEL

The installation of the standard entrance panel requires the use of the flush-mounted back box supplied with each pack.

Installation

- Install the back boxes at a height of approx. 1.65 m from the top edge of the box to ground level (Fig. 4-116).
- Fit the back box inside the wall, threading the tubes for the cable through the holes, see sequence Fig. 4-117, Fig. 4-118, Fig. 4-119.
- If the installation requires the coupling of multiple back boxes, use the proper separator brackets to secure the boxes together (Fig. 4-120).
- Connect the terminal block of the electronic unit to the terminal block by means of the cabling present on the upper side (Fig. 4-121).
- Insert the microphone into the housing located on the rear side of the brass entrance panel (Fig. 4-122).
- Close the entrance panel, ensuring that the electronic component fits perfectly against the brass plate, thereby enabling the push-buttons to be pressed fully down. Should this not be possible, adjust the screw inside the flush-mounted back box, thus allowing the electronic unit to adhere securely to the brass plate (Fig. 4-123).
- Close the entrance panel by using the proper door lock blocks (Fig. 4-124)
- Carry out the programming phases.

NOTE: To access the name-tags operate on the additional entrance panel from the rear as shown in fig. 4-125.

Fig. 4-116

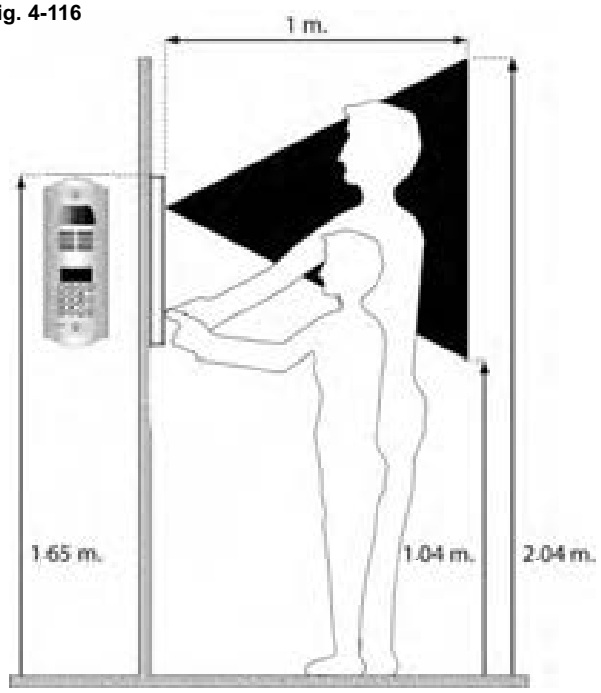
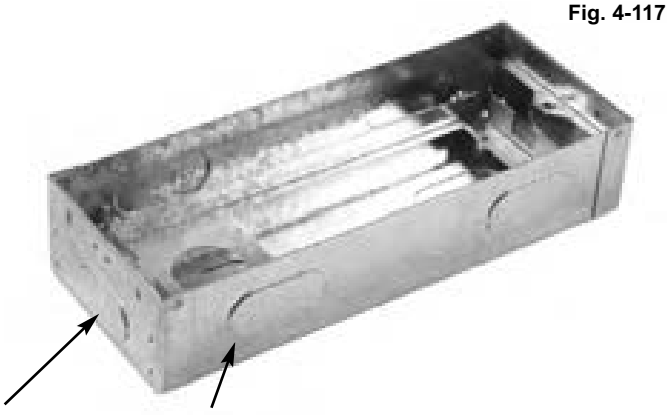


Fig. 4-117



Thread cable through here.
First remove panel with a screwdriver.

Fig. 4-118

Fig. 4-119

Fig. 4-120

Fig. 4-121

Fig. 4-122

Fig. 4-123

Fig. 4-124

Fig. 4-125

ART. 89F3/T, 89F3/..T, 89F5/T, 89F5/..T, 89F5/CT, 89F5/CT..

Description

Types **89F3/T, 89F5/T, 89F5/CT...** are standard modules which can be used to create 3 different models of electronic entrance panel:

- Audio entrance panels with conventional type push-buttons (single or double row), with standard modules type 89F3/T...
- Video entrance panel with B/W camera and conventional type push-buttons (single or double row), with standard modules type 89F5/T...
- Video entrance panel with colour camera and conventional type push-buttons (single or double row), with standard modules type 89F5/CT...

Fig. 4-126

ART. 89F3/T (audio entrance panels with 3 push-buttons)	ART. 89F5/T (B/W video entrance panel with 3 push-buttons)
ART. 89F3/2T (audio entrance panels with 2 push-buttons)	89F5/CT (colour video entrance panel with 3 push-buttons)
ART. 89F3/1T (audio entrance panels with 1 push-button)	ART. 89F5/2T (B/W video entrance panel with 2 push-buttons)
ART. 89F3/0T (audio entrance panels with 0 push-buttons)	89F5/CT2 (colour video entrance panel with 2 push-buttons)
ART. 89F3/T (audio entrance panels with 3 push-buttons)	ART. 89F5/1T (B/W video entrance panels with 1 push-button)
ART. 89F8/2T (audio entrance panels with 2 push-buttons)	89F5/CT1 (colour video entrance panels with 1 push-button)
ART. 89F8/1T (audio entrance panels with 1 push-button)	ART. 89F5/0T (B/W video entrance panels with 0 push-buttons)
ART. 89F8/0T (audio entrance panels with 0 push-buttons)	89F5/CT0 (colour video entrance panels with 0 push-buttons)

The electronic entrance panels can also generate different call codes with values ranging from 1 to 200, which are inputted using the push-buttons. Panels are designed to operate either alone or together with other panels. In any case, one must be set as a Master panel and the others as Slaves. The front of the electronic unit (see fig. 2) is fitted with: "1 - Balance, 2 - External volume, 3 - Internal volume", the "Master/Slave - TP" jumper (Fig. 4-127, 4-128) and 6 push-buttons (call) for the standard programming phase. Standard programming of the panel is performed without the front plate fitted, so as to access all 6 push-buttons on the electronic unit. For advanced programming of the panel, use programmer type 950C.

Modification to the volume may give rise to the LARSEN effect (whistling); use trimmer 1 - Balance (near the loudspeaker) to eliminate this effect or lower one or both of the volume levels.

STANDARD ENTRANCE PANELS

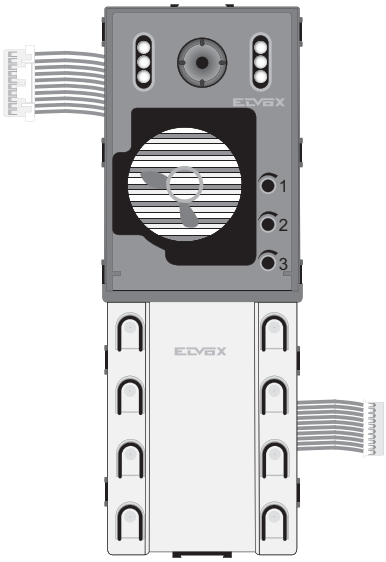
The basic entrance panels consist of: 1 electronic unit, 1 connecting terminal block and 1 PATAVIUM series brass entrance panel. The electronic unit is equipped with: 1 speech unit, 1 camera for the video versions, 1 back-lit alphanumeric display, 1 keypad and 1 cabling for the terminal block connection. The standard modules for video panels in B/W are equipped with a B/W camera with ¼" CCD sensor and fixed 3 mm lens and LED for infrared lighting. The standard modules for colour video panels are equipped with a B/W camera with ¼" CCD sensor and fixed 3 mm lens and white indicator LED. All panels with cameras can be tilted manually, horizontally or vertically, on removal of the plate.

Example of standard module with camera.

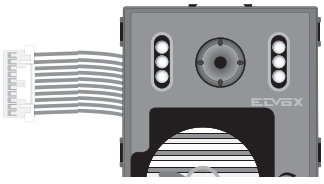
Fig. 4-127

Plate series PATAVIUM

Electronic unit



Wiring for terminal block connection



Wiring for connection of additional modules

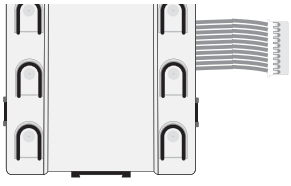
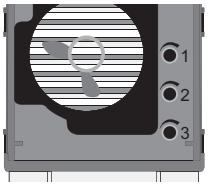
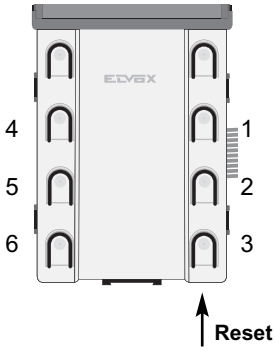


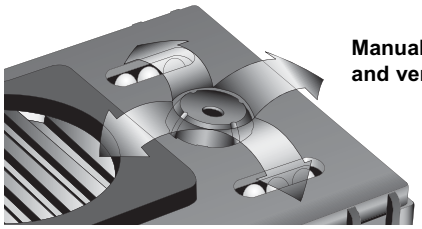
Fig. 4-128

Controls:
1 - Balance
2 – External volume
3 – Internal volume

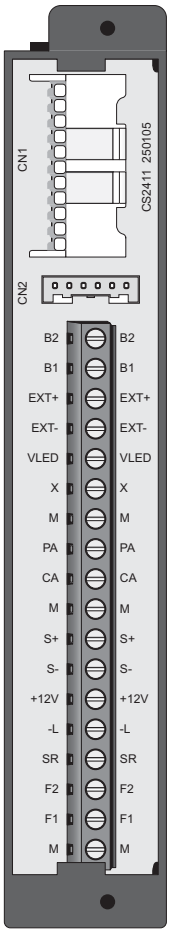


Push-buttons





Manual horizontal and vertical tilt



Terminal block

CN1)	Connector for electronic unit.
CN2)	Connector for programmer type 950C.
B2)	2-wire Bus (cable riser).
B1)	2-wire Bus (cable riser).
EXT+)	External power supply (+ type 6923).
EXT-)	External power supply (- type 6923).
VLED)	LED power supply for additional modules.
X)	Video input (coaxial core), for external camera (for type 89F8 only).
M)	Video input (coaxial sheath), for external camera (for type 89F8 only).
PA)	Input for door open sensor (with reference to terminal M).
CA)	Door open control (with reference to terminal M).
M)	Ground.
S+)	12VDC lock output (+).) *
S-)	12VDC lock output (-).) *
+12V)	+12V output (max 100 mA) with PTC protection.
-L)	External camera pilot, open collector output.
SR)	Lock pilot via relay, open collector output.
F2)	F2 function pilot via relay, open collector output.
F1)	F1 function pilot via relay, open collector output.
M)	Ground.

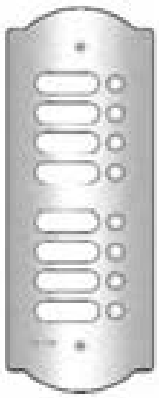
Fig. 4-129

* The panel supplies a current peak I_T> 1A for 10 mS, followed by a hold current I_M= 200mA for the entire duration of the lock control (see lock time).

ADDITIONAL ENTRANCE PANELS

In the case of standard entrance panels type 89F3/..T, 89F5/..T and 89F5/CT.., one or more additional entrance panels type 8054/T may be placed on either side of the standard module.

Fig. 4-130



ART. 8054/T
(additional entrance panel
8 push-button in single row)

INSTALLATION OF THE FLUSH-MOUNTED ENTRANCE PANEL

The installation of the basic entrance panel requires the use of the flush-mounted back box supplied in the pack.

Installation

- Install the back boxes at a height of approx. 1.65 m from the top edge of the box to ground level (Fig. 4-131).
- Fit the back box inside the wall, threading the tubes for the cable through the holes, see sequence Fig. 4-132, Fig. 4-133, Fig. 4-134.
- If the installation requires the coupling of multiple back boxes, use the proper separator brackets to secure the boxes together (Fig. 4-135).
- Connect the terminal block of the electronic unit to the terminal block by means of the cabling present on the upper side (Fig. 4-136).
- Connect the additional entrance panel (if any).
- Insert the microphone into the housing located on the rear side of the brass entrance panel (Fig. 4-137).
- Close the entrance panel, ensuring that the electronic component fits perfectly against the brass plate, thereby enabling the push-buttons to be pressed fully down. Should this not be possible, adjust the screw inside the flush-mounted back box, thus allowing the electronic unit to adhere securely to the brass plate (Fig. 4-138).
- Close the entrance panel by using the proper door lock blocks (Fig. 4-139)
- Carry out the programming phases.

NOTE: To access the name-tags operate on the additional entrance panel from the rear as shown in fig. 4-140.

Fig. 4-131

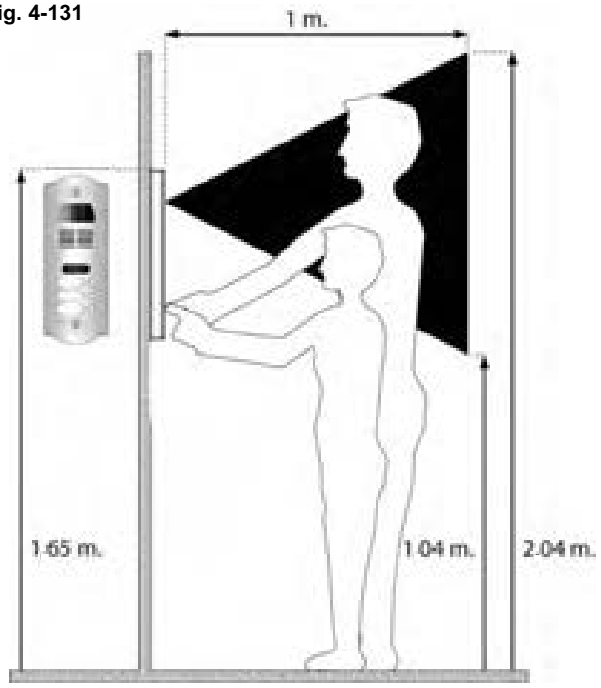


Fig. 4-132

Points to be chosen for the cable to get through.
To remove with a screwdriver.

Fig. 4-133

Fig. 4-134

Fig. 4-135

Fig. 4-136

Fig. 4-137

Fig. 4-138

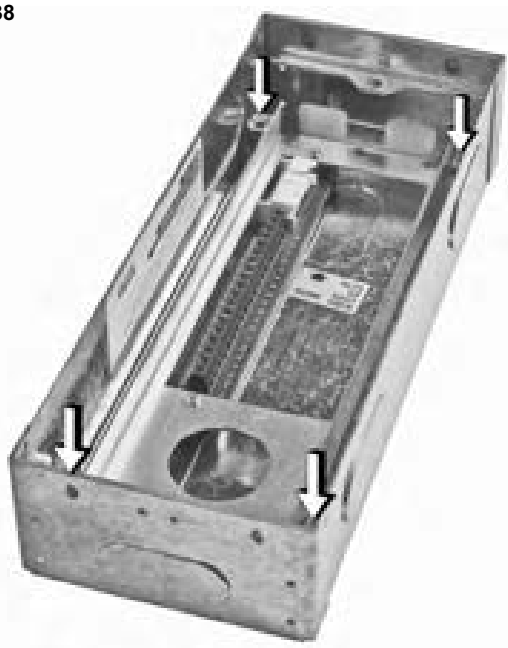


Fig. 4-139

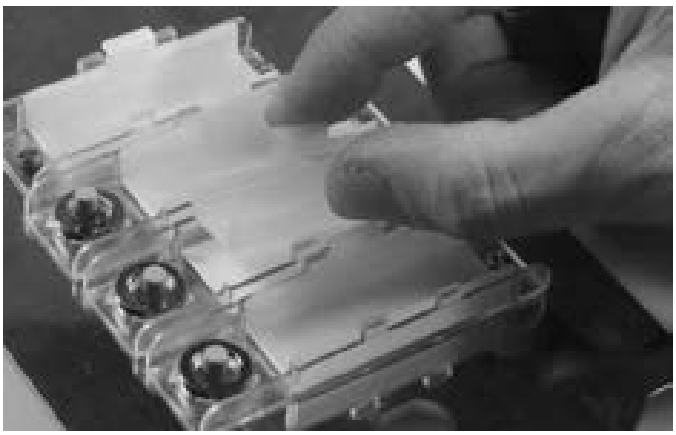


Fig. 4-140

ART. 69AU, 69AV, 692U, 692U/C

DESCRIPTION

Types **69AU, 69AV, 692U** and **692U/C** each comprise: 1 speech unit, 1 speech unit with possibility of connecting an external camera type TVCC, 1 B/W camera with speech unit, 1 colour camera with speech unit. The connection of the following articles is dedicated to a single apartment.

Their use requires that at least one electronic entrance panel series 89Fx/xx be installed, programmed as master.

Fig. 4-141

Art. 692U
Art. 692U/C

Technical features of cameras art. 692U and 692U/C

These types of camera can be mounted only on entrance panels series 8100.

- ¼'' CCD sensor
- 3.7 mm F 4.5 lens with fixed focus
- Automatic lighting control
- Video signal: Standard CCIR 625 lines, 50 images (on request EIA) for B/N and PAL for colour
- Operating temperature -5° to +50°C
- Infrared subject lighting for B/W camera and white for colour camera.
- Name-tag holder lit by LEDs
- Built-in speech unit
- Removable terminal block for connection
- Local door lock release with the same timing as the door lock release from the video interphone, which can be adjusted between 1 and 30 seconds by means of a trimmer
- Supply voltage provided by bus
- Maximum overall dimensions 80x120x25 mm.

Fig. 4-142

Art. 69AU
Art. 69AV

Technical features of cameras art. 69AU and 69AV.

Can be fitted only on 8100 series entrance panels

- Operating temperature -5° to +50°C
- Name-tag holder lit by LEDs
- Removable terminal block for connection
- Local door lock release with the same timing as the door lock release from the video interphone, which can be adjusted between 1 and 30 seconds by means of a trimmer
- Supply voltage provided by bus
- Maximum overall dimensions 80x120x25 mm

Controls

The following controls are available on the back of the camera.

External volume

Camera activation time (call conversation self-start)

Lock activation time

Terminals

S : Lock (open collector)
TEL: Video signal from the external camera (coaxial cable core). Only for type 69AV.
B1: 2-wire bus
B2: 2-wire bus
M: Video earth signal from external camera (wire shield)
PA Input for the open door signal (connect to M)
CA: Door lock release (connect to M)
M: Ground
12V: Output +12V max 100mA. The output is active when the camera or speech unit is inserted.

INSTALLATION

Assembly and installation of types **69AU, 69AV, 692U** and **692U/C** involves the following phases:
- Installation of camera or entrance panel speech unit
- Routing of cables
- Connection of speech unit to system
- Programming of camera or speech unit

N.B. Do not connect the terminal block of the speech unit to the system until the wires (green, black and white) have been connected to the entrance panel.

Installation with entrance panel series 8100
art. 81V1 for 692U
art. 81VT for 692U/C
art. 81A1 for 69AU e 69AV

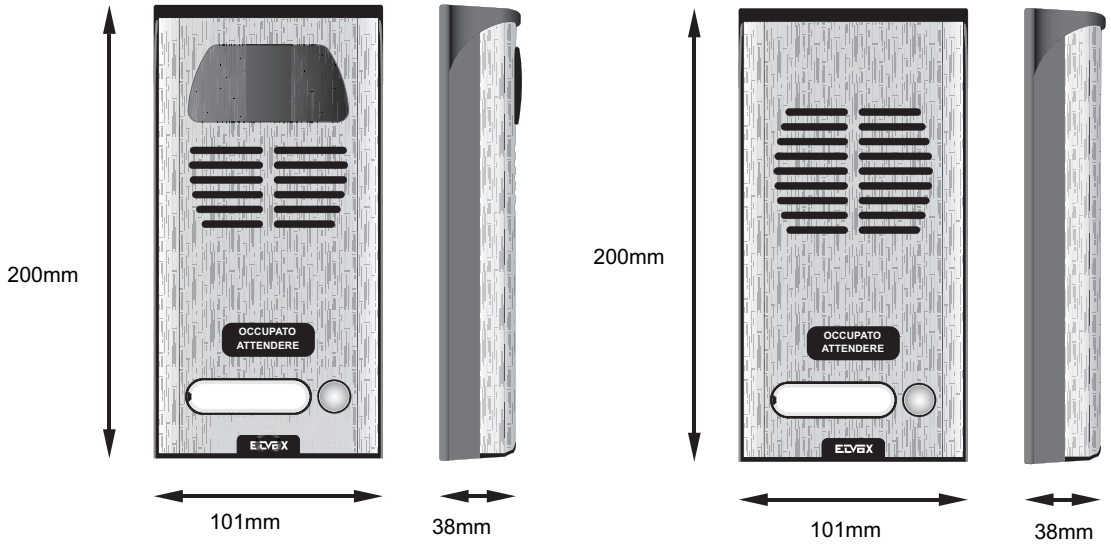
To separate the base of the entrance panel from the plate:
With a screwdriver, press the left-hand side of the sliding door marked with the ELVOX logo. Slide the door to the left and use the wrench supplied for opening and closing the entrance panel (Fig. 4-143).
Mount the entrance panels using the screws and expansion plugs supplied, or onto a 3-module vertical box. Entrance panels with cameras should be installed at a height of 1.65 m measured from the top edge of the entrance panel to the ground.
Fit camera in its seat in the entrance panel (as shown in Fig. 4-144, 4-146), and position the entrance panel microphone as shown in Fig. 4-145.

Fig. 4-146 shows the set of entrance panel components:
A - Front plate
B - Base of plate
C - Camera

Connect the black/red wire to the ENGAGED-PLEASE WAIT connector on the back of the front plate of the entrance panel A (Fig. 4-146).
Connect the green wires to the entrance panel push-button, and the black and white wires to the entrance panel LED (Fig. 4-146 and Fig. 4-145).

Lastly, connect camera to the system with the terminal block.

Fig. 4-142



Art. 81V1 for art. 692U
Art. 81VT for art. 692U/C

Art. 81A1 for art. 69AU and 69AV

Fig. 4-143

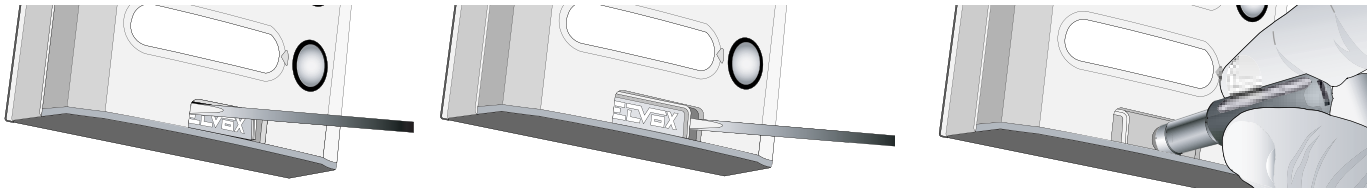


Fig. 4-144

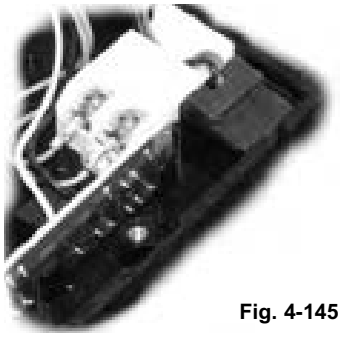
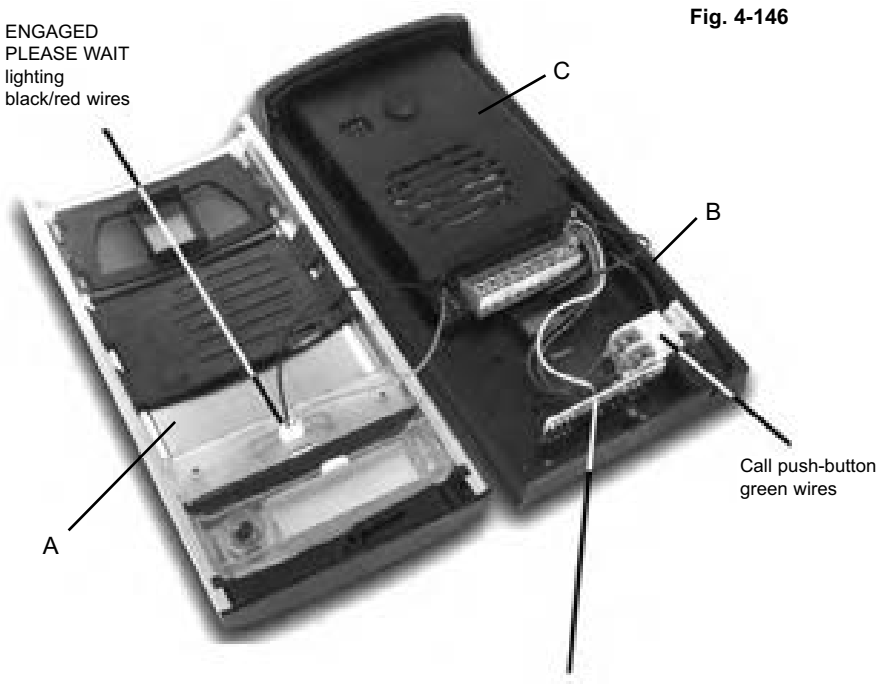


Fig. 4-145

Fig. 4-146



Installation with entrance panel series 8000
For installation of the external speech units or cameras **69AU, 69AV**, **692U** and **692U/C**, the following elements are required to fit the series 8000 entrance panel.

Flush-mounted installation for type 69AU and 69AV:
Module type 80P1, module type 80B1, module holder frame type 8082, flush-mounted back box type 9092, waterproof protection type 9212.

Surface wall-mounted installation for type 69AU and 69AV:
Module type 80P1, module type 80B1, module holder frame 8082, surface wall-mounted back box type 9312, waterproof protection type 9212.

Flush-mounted installation for type 692U:
Module type 80P1, module type 8019, module holder frame 8082, flush-mounted back box type 9092, waterproof protection type 9212.

Surface wall-mounted installation for type 692U:
Module type 80P1, module type 8019, module holder frame 8082, surface wall-mounted back box type 9312, waterproof protection type 9212.

Flush-mounted installation for type 692U/C:
Module type 80P1, module type 8T19, module holder frame 8082, flush-mounted back box type 9092, waterproof protection type 9212.

Surface wall-mounted installation for type 692U/C:
Module type 80P1, module 8T19, module holder frame 8082, surface wall-mounted back box type 9312, waterproof protection type 9212.

INSTALLATION
- Install the back boxes at a height of 1.65m from the top edge of the box to the ground.
- Fit the waterproof frame on the back boxes.
- Fix the module holder frame to the frame and the back box (Fig. 4.147 and 4-148).
- Insert the camera or speech unit in the module holder frame.
- Insert the module 80P1 in the module holder frame 8000 (8082) in conjunction with module 80B1 or 8019 or 8T19.
- Connect the camera or speech unit black/red cable to the rear of the module 80P1 “ENGAGED -PLEASE WAIT” (Fig. 4-150)
- Connect the green wires to the entrance panel push-button, and connect the black and white wires to the LED type lighting group of the entrance panel, supplied with module type 80P1.
- Fit the camera microphone on the lower head, as shown in Fig. 4-151.
- Finally connect the camera or speech unit to the installation by means of the terminal block.
- **Carry out the programming phases.**
- To reach the name-tag, remove the name-tag holder from the rear (Fig. 4-152).
- Close the entrance panel by hooking first the plate on the upper side and then by fixing it by means of a screw-driver on the head lower side.

Fig. 4-147

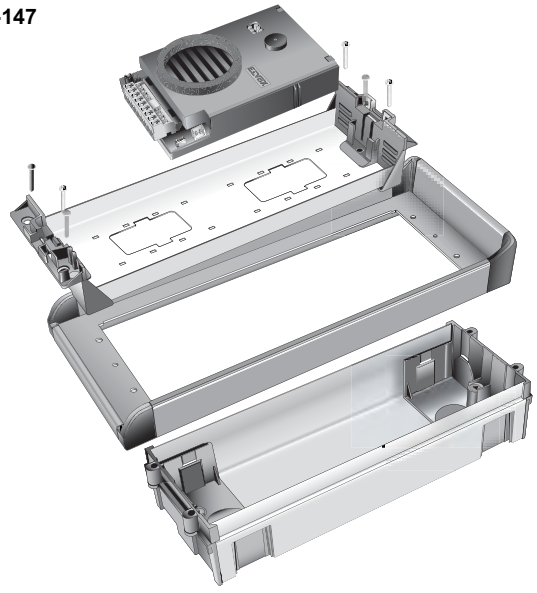


Fig. 4-148

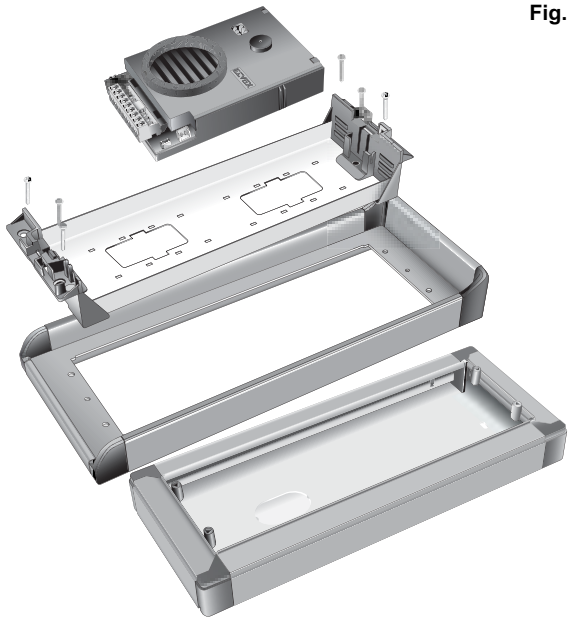


Fig. 4-149

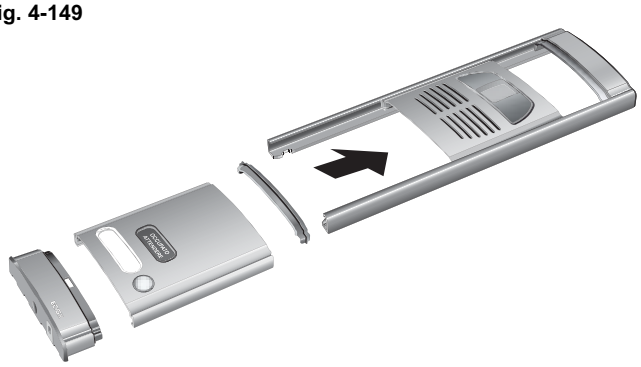


Fig. 4-150

Fig. 4-151

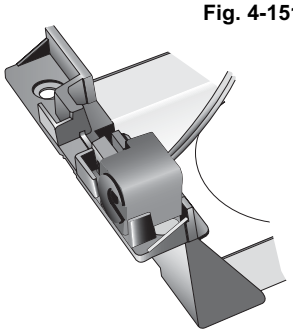


Fig. 4-152

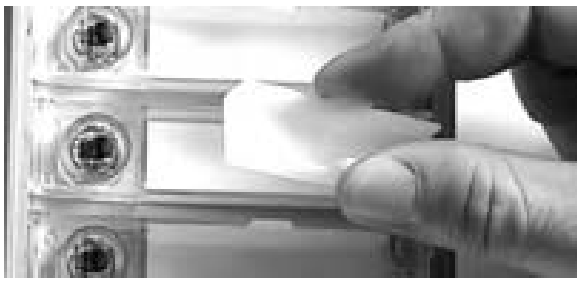


Fig. 4-153

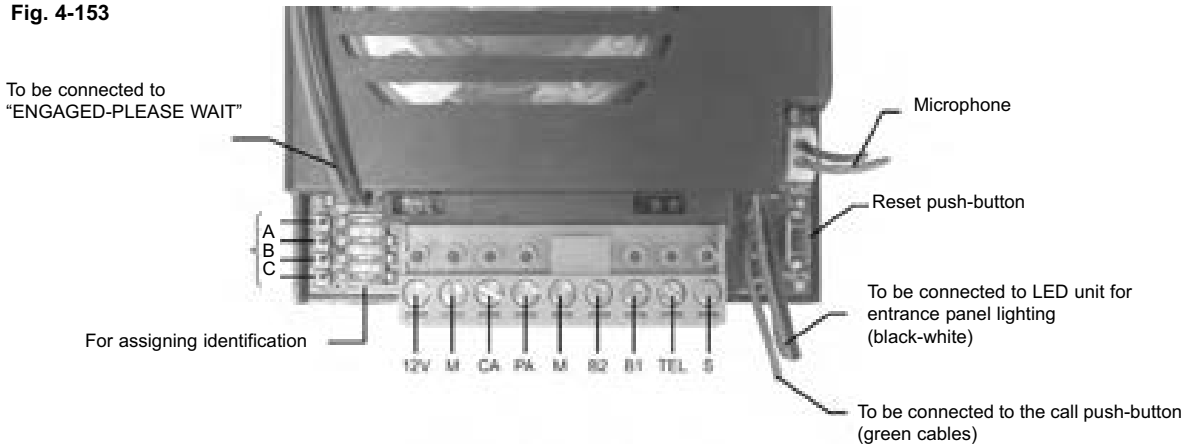
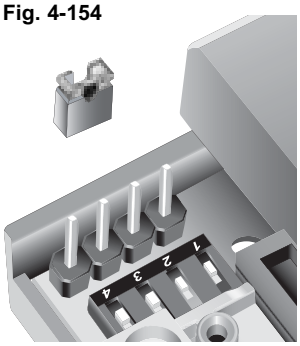


Fig. 4-154



BUS TERMINATION

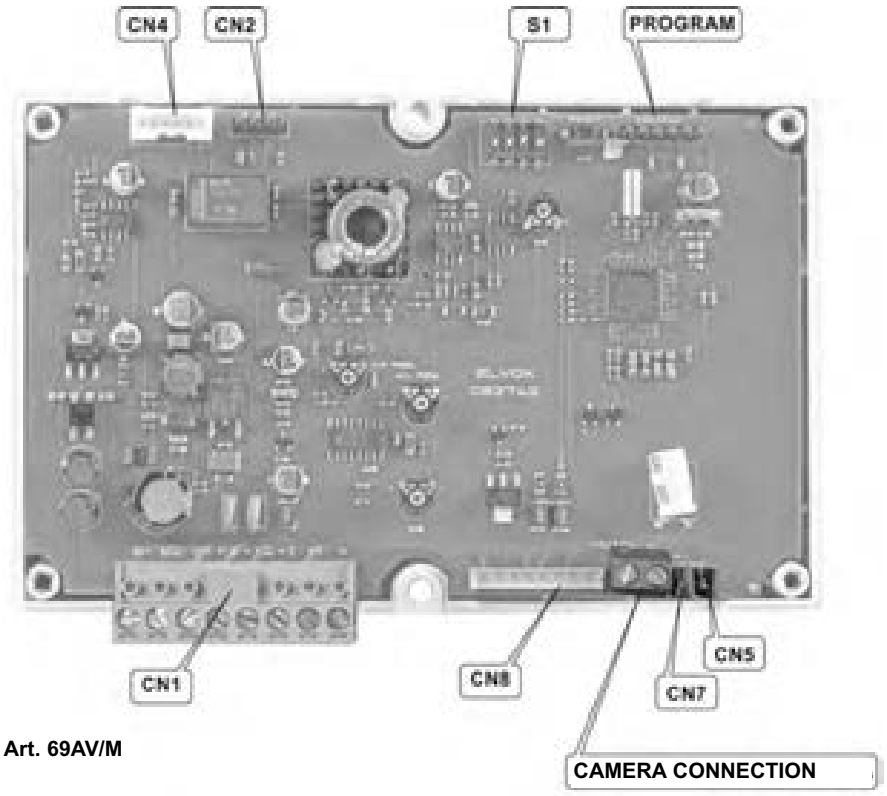
In the bottom left-hand corner of the camera is a connector with 4 positions (Fig. 4-153).
A jumper in one of the three possible positions (A-B, B-C, C-D), terminates the bus correctly for the video signal. Experiment to determine the optimum compromise which provides best overall vision from all the entrance panels in the system.

ART. 69AV/M, 69AV/4

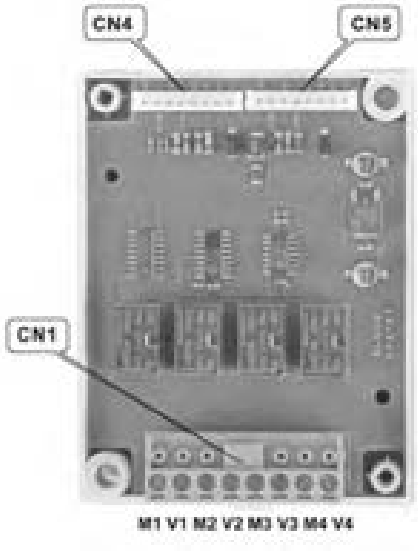
Description

The interface 69AV/M is for use in ELVOX 2-WIRE video door entry systems for the connection of a CCTV type camera to the system.
On existing systems there must be at least one electronic audio or video entrance panel (one of which is the master). The interface 69AV/M can therefore not be used in replacement of a MASTER panel.
Only one camera can be connected to type 69AV/M. This interface is not fitted with an audio section. Using expansion module types 69AV/4, up to a maximum of four cameras can be connected at a time, per additional module. Use of modules type 69AV/4 does not enable direct connection of the camera to type 69AV/M.

Fig. 4-155



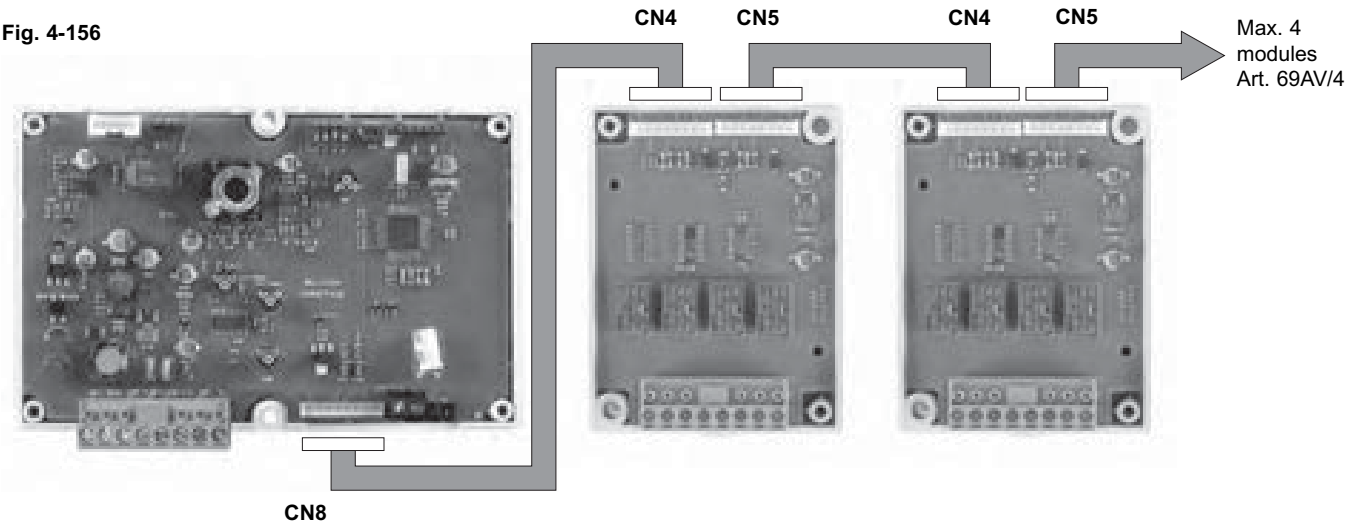
Art. 69AV/M



Art. 69AV/4

The connector CN8 of 69AV/M must be connected to CN4 of the first 69AV/4 module. The connector CN5 of the first module 69AV/4 must be connected to CN4 of the next module and so on.

Fig. 4-156



The cameras are connected by means of a coaxial cable to terminals M1-V1, M2-V2 and so on (see figure 4-156).

The maximum number of cameras according to the number of additional modules 69AV/4 is specified in the table below:

ADDITIONAL MODULES	MAX. NUMBER OF CAMERAS
0	1
1	4
2	8
3	12
4	16

TERMINAL ART. 69AV/M	DESCRIPTION
B1	Bus
B2	Bus
F1	Open collector output, max 100 mA
F2	Open collector output, max 100 mA
12V	Used to power loads on F1 and / or F2. max. 100 mA. If the total simultaneous absorption of F1 and F2 exceeds 100 mA, use an external power source.
+I	12V output active when the camera is engaged
M	Video earth - coaxial cable sheath
V	Video signal - coaxial cable core

HARDWARE CONFIGURATION

BUS TERMINATION
Connector CN2 is located at the top left-hand side of the circuit board (see Fig. 4-155). Position a jumper in one of the three positions available (A-B-C) to correctly terminate the bus. Test conditions to obtain the best vision.

VIDEO TERMINATION
When closed, jumper CN7 inserts a termination of 75 Ω for the video signal (see Fig. 4-155).

VIDEO COUPLING
When closed, jumper CN5 couples the video signal in continuous mode (see Fig. 4-155). This is normally used when there are colour cameras.

WARNINGS FOR PROGRAMMING

Two Wire appliances must be programmed only after installing, connecting and identifying all the system appliances. The identification phase for some devices is performed during the programming phase, for others it is obtained by means of jumpers or dip-switches in the appliance itself.

Device identification system:

692S	Jumpers on device.
69RH	Jumpers on device.
Push-button electronic entrance plates type 89F3/.., 89F5/.., 89F5/C.., 89F8/..	With the call buttons of the entrance plate itself or 950C or PC.
Alphanumerical electronic entrance panels 89F4, 89F7, 89F7/C, 89F9.	With keypad of the entrance panel itself or 950C or PC.
Video cameras and speech units outside the door 692U, 692U/C, 69AV, 69AU.	Jumpers on device.
Audio door entry units 8879, 6209, 6601/AU, 660C/AU, 6701/AU, 6611/AU, 661C/AU, 661C/AU.	Via electronic entrance panel, with push-buttons or alphanumerical (Master).
Video door entry units 6309, 6309/C, 6601, 660C, 6701, 6611, 661C, 661C.	Via electronic entrance panel, with push-buttons or alphanumerical (Master)

It is vital, during the programming phases, for the system to have an electronic entrance panel model 89Fx/xx, identified as the Master entrance panel. In a Two Wire system there must be only one Master entrance panel.
The programming phases can be carried out with electronic entrance panels model 89Fx/xx or programmer 950C or with a Personal Computer by means of the interface art. 692I and the software art. 69CD.
Using electronic entrance panels with conventional push-buttons (not the alphanumerical ones) permits only basic appliance programming, whereas with the other devices, including entrance panels with display and alphanumerical keypad, it is possible to perform advanced programming.
Basic programming is sufficient for configuring the appliances for the operation of most systems.

Device programming phases:

- Install and connect all the system devices.
- For video door entry systems, set the jumper to stabilize the video signal as shown on the connection diagrams.
- If present in the system, program the ID of the devices: 692S, 69RH, 692U, 692U/C, 69AV, 69AU.
- When there are electronic entrance panels with push-buttons, do the Hardware programming of any supplementary push-button modules.
- In systems with multiple electronic entrance panels, identify the SLAVE panels and program the ID of the SLAVE panels, without connecting or powering up the Master entrance panel.
- Connect and power up the Master entrance panel.
- Program any entrance panel parameters. The essential parameters to program are shown on the connection diagrams.
- Identify the audio and video door entry units from the Master entrance panel.
- Do any customized programming on the audio/video door entry units, e.g. push-buttons for intercommunicating calls, push-buttons for activating external relays, etc.

The following table lists the programming parameters of Two Wire appliances. The table also shows the device that permits programming the specific parameter.

A	Programming from the appliance itself
B	Programming from the appliance itself or by means of the programmer art. 950C or PC with software 69CD.
C	Programming by means of the programmer art. 950C or PC with software 69CD.
D	Programming from the Master entrance panel.
E	Programming from the Master entrance panel by means: of an alphanumerical entrance panel or the programmer art. 950C or a PC with software 69CD .

Programming phases (identification codes, parameters, settings)		89F3/.., 89F5/.., 89F8/..	89F4, 89F7, 89F9	692U, 692U/C, 69AV, 69AU	69AV/M	8879	6209	6601/AU, 660C/AU, 6701/AU	6611/AU, 661C/AU, 6711/AU	6209+6009	6309, 6309/C, 6309/P, 6309/CP	6601, 660C, 6701	6611, 661C, 6711	692S	69RH
Pgr01	Association of the device identification code (ID).					**D**	**D**	**D**	**D**	**D**	**D**	**D**	**D**	**A**	**A**
Pgr02	Association of the secondary device identification code (ID).					**D**	**D**	**D**	**D**	**D**	**D**	**D**	**D**		
Pgr03	Push-buttons for intercommunicating calls.					**B**	**B**	**B**	**B**	**B**	**B**	**B**	**B**		
Pgr04	Push-button for self-starting on a specific entrance panel.					**B**	**B**	**B**	**B**	**B**	**B**	**B**	**B**		
Pgr05	Association with the group of calls														**A**
Pgr06	Assigning a Master/Slave entrance panel.	**A**	**B**												
Pgr07	Association of ID for SLAVE entrance panels.	**B**	**B**	**A**	**A**										
Pgr08	Hardware coding (with dip-switches) of the call buttons.	**A**													
Pgr09	RESET EEPROM.	**A**	**A**			**A**	**A**	**A**	**A**	**A**	**A**	**A**	**A**		
Pgr10	Single/double push-buttons.	**B**													
Pgr11	Answer time.	**B**	**B**	**A**											
Pgr12	Conversation time.	**B**	**B**	**A**											
Pgr13	Self-start time.	**B**	**B**	**A**	**C**										
Pgr14	Lock time.	**B**	**B**	**A**											
Pgr15	F1 time.	**B**	**B**		**C**										
Pgr16	F2 time.	**B**	**B**		**C**										
Pgr17	Entrance panel ringtone repetition.	**B**	**B**	**C**											
Pgr18	Lock block.	**B**	**B**	**C**											
Pgr19	Video/audio door entry unit ringtone cycles.	**B**	**B**	**C**											
Pgr20	Push-button remapping.	**B**		**B**											
Pgr21	Message language.	**C**	**B**	**C**	**C**										
Pgr22	First call button ID association.	**C**		**B**											
Pgr23	Programming password.	**C**	**B**												
Pgr24	Indirect enabling of the lock and functions F1 and F2 by a specific audio/video door entry unit.	**C**	**B**	**C**[1]	**C**[2]										
Pgr25	Assignment of push-button for the call to the porter switchboard.	**C**													
Pgr26	Common enabling of the lock with that of another entrance panel.	**C**	**B**	**C**											
Pgr27	Common enabling of the function F1 with that of another entrance panel.	**C**	**B**		**C**										
Pgr28	Common enabling of the function F2 with that of another entrance panel.	**C**	**B**		**C**										
Pgr29	Disabling entrance panel self-start function.	**C**[3]	**B**[3]												
Pgr30	Entrance panel self-start sequence.	**C**[3]	**B**[3]												
Pgr31	Number of digits for coding the flats (3, 4 or 8 digits).		**B**												
Pgr32	Code for calling lock opening function from entrance panel.		**B**												
Pgr33	Association of call code with push-button. ⩛.		**B**												
Pgr34	Association of call code with push-button. ⩓.		**B**												
Pgr35	Codes for opening lock from entrance panel.		**B**												
Pgr36	Codes for activating function F1 from entrance panel.		**B**												
Pgr37	Codes for activating function F2 from entrance panel.		**B**												
Pgr38	Combining flats with call codes of 4 or 8 digits.		**B**												
Pgr39	Search for names in phone book even with null value.		**B**												
Pgr40	Recording names in electronic phone book.		**B**												

Programming phases (identification codes, parameters, settings)		89F3/.., 89F5/.., 89F8/..	89F4, 89F7, 89F9	692U, 692U/C, 69AV, 69AU	69AV/M	8879	6209	6601/AU, 660C/AU, 6701/AU	6611/AU, 661C/AU, 6711/AU	6209+6009	6309, 6309/C, 6309/P, 6309/CP	6601, 660C, 6701	6611, 661C, 6711	692S	69RH
Pgr41	External volume.	**A**	**B**	**A**											
Pgr42	Internal volume.	**A**	**B**												
Pgr43	Audio balance	**A**	**A**												
Pgr44	Clock.		**B**												
Pgr45	Enabling/disabling time services.		**B**												
Pgr46	Programming time bands of time services.		**B**												
Pgr47	Number of connected video cameras				**C**										
Pgr48	Switching on monitor when a panel call is made.									**E**	**E**	**E**	**E**		
Pgr49	Enabling green LED for open door.						**E**	**E**	**E**	**E**	**E**	**E**	**E**		
Pgr50	Enabling lock push-button on activating direct contacts on the video door entry unit.										**E**				
Pgr51	Enabling stair light push-button on activating direct contacts on the video door entry unit.										**E**				
Pgr52	Enabling self-start push-button on activating direct contacts on the video door entry unit.										**E**				
Pgr53	Programming entrance plates from 1 to 8 or from 9 to 15 for specific F1/F2 of an entrance panel.					**E**	**E**	**E**	**E**	**E**	**E**	**E**	**E**		
Pgr54	When there is a porter switchboard in the system					**E**	**E**	**E**	**E**	**E**	**E**	**E**	**E**		
Pgr55	Enabling the lock on a panel call with P6 closed.						**E**			**E**	**E**				
Pgr56	Group G3 for external calls only.					**E**	**E**	**E**	**E**	**E**	**E**	**E**	**E**		
Pgr57	Group G4 for internal calls only.					**E**	**E**	**E**	**E**	**E**	**E**	**E**	**E**		
Pgr58	Turning off the “click” sound on pressing a button					**E**	**E**	**E**	**E**	**E**	**E**	**E**	**E**		
Pgr59	Group G1 for external calls only.					**E**	**E**	**E**	**E**	**E**	**E**	**E**	**E**		
Pgr60	Group G2 for internal calls only.					**E**	**E**	**E**	**E**	**E**	**E**	**E**	**E**		
Pgr61	Turning off ringtone for intercommunicating calls.					**E**	**E**	**E**	**E**	**E**	**E**	**E**	**E**		
Pgr62	Turning off ringtone for panel calls.					**E**	**E**	**E**	**E**	**E**	**E**	**E**	**E**		
Pgr63	Programming push-button P1.						**E**	**E**	**E**	**E**	**E**	**E**	**E**		
Pgr64	Programming push-button P2.					**E**	**E**	**E**	**E**	**E**	**E**	**E**	**E**		
Pgr65	Programming push-button P3.						**E**	**E**		**E**	**E**		**E**		
Pgr66	Programming push-button P4.						**E**	**E**		**E**			**E**		
Pgr67	Programming push-button P5.						**E**	**E**		**E**			**E**		
Pgr68	Programming push-button P6.						**E**	**E**		**E**			**E**		
Pgr69	Programming push-button P7.						**E**	**E**		**E**			**E**		
Pgr70	Programming push-button P8.						**E**	**E**		**E**			**E**		
Pgr71	Assigning to call group 1.					**E**	**E**	**E**	**E**	**E**	**E**	**E**	**E**		
Pgr72	Assigning to call group 2.					**E**	**E**	**E**	**E**	**E**	**E**	**E**	**E**		
Pgr73	Assigning to call group 3.					**E**	**E**	**E**	**E**	**E**	**E**	**E**	**E**		
Pgr74	Assigning to call group 4.					**E**	**E**	**E**	**E**	**E**	**E**	**E**	**E**		
Pgr75	Call ringtone volume						**A**[4]	**E**	**E**	**A**[4]	**A**[5]	**E**	**E**		
Pgr76	Voice line volume							**E**	**E**			**E**	**E**		
Pgr77	Ringtone type selection							**E**	**E**			**E**	**E**		
Pgr78	Monitor brightness											**E**	**E**		

C[1] Lock only

C[2] F1 and F2 only

B[3],**C**[3] Master entrance panel only

A[4] With accessory 6153/682 on 3 levels or internally 2 levels

A[5] 3 levels

SEPARATOR ART. 692S

It is possible to connect up to a maximum of 16 separators in the same installation. It is necessary to associate a different ID code to each one by using the 0, 1, 2, 3 jumpers.

IDENTIFICATION

Jumper not inserted

Jumper inserted

Tab. 5-1

0	1	2	3	ID
				0
■				1
	■			2
■	■			3
		■		4
■		■		5
	■	■		6
■	■	■		7
			■	8
■			■	9
	■		■	10
■	■		■	11
		■	■	12
■		■	■	13
	■	■	■	14
■	■	■	■	15

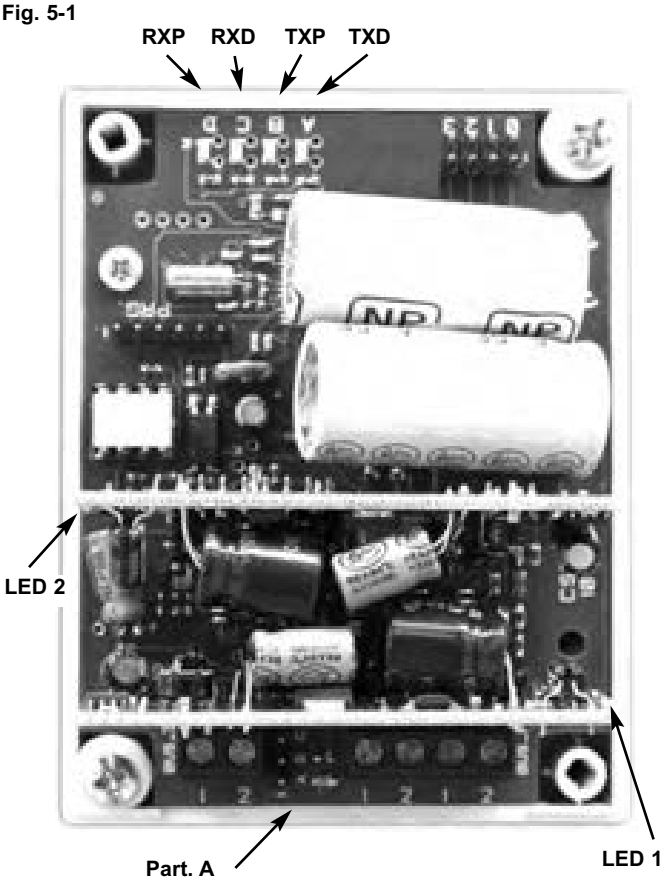
Terminals and jumpers

1, 2 (BUS_P)	Main bus line, to the main panel or branch of the installation.
1, 2 (BUS_D)	Secondary bus line, to the interphones/video entry systems or isolated branch of the installation.
A, B, C, D	Establishing video signal
0, 1, 2, 3	ID programming.

Indicators

In the separator there are two pairs of LED lights (red and green) in the horizontal card, and one LED for each card in the vertical cards.

Fig. 5-1



LED 1 on	means the main bus is powered.
LED 2 on	means the secondary bus is powered.
TXD (LED A) and RXD (LED C)	communication underway on main bus
TXP (LED B) and RXP (LED D)	communication underway on secondary bus

Note: if no calls have been made or no services enabled (open lock, enablers, etc.) in the installation, the TXD, RXD, TXP, RXP LEDs should remain off.

BUS Termination

In the separator there is a 4 position connector (Fig. 5-1) for the video signal stabilization, to be used only in the video interphone systems. A jumper in one of the three possible positions (A-B, B-C, C-D) allows you to terminate the bus correctly as far as the video signal is concerned. In a chain type separator connection (series) displace the jumper to “B” position only in the last set and keep the jumper of the others in the initial position “A”.

For other connection configurations see the wiring diagrams.

PROGRAMMABLE RELAY ART. 69RH

Type 69RH for ELVOX 2-WIRE systems, is equipped with 2 relays with normally open contacts, which can perform two different tasks depending on the setting by the user entered by means of a simple programming procedure. The two operating modes are:

1. RELAY MODE: relay for auxiliary services (no programming needed)
2. REPEATER MODE: programmable call repeater (programming required)

To identify whether the device has been set to repeater mode, or not programmed i.e. set to relay mode, simply check the indicator LED L1 on the printed circuit board on activation of the device (see L1 Fig. 5-2):

LED off → RELAY mode

LED flashing for one second → REPEATER mode

Terminals (fig. 1)

1, 2, B1, B2)	BUS line (two pairs of terminals connected in parallel).
1A, 1B)	1st normally open contact, maximum load 3A 230VAC.
2A, 2B)	2nd normally open contact, maximum load 3A 230VAC.
ACTIV. TIME 1)	Adjustment trimmer for activation time of 1st contact (RELAY mode).
ACTIV. TIME 2)	Adjustment trimmer for activation time of 2nd contact (RELAY mode).
IDO-ID1-ID2)	Jumpers for device identification (RELAY mode) or for group identification (REPEATER mode).
S1)	Push-button for group programming/deletion (REPEATER mode).
L1)	LED for checking operating status and for group programming/deletion (REPEATER mode).
ABC)	jumpers for termination of BUS.

RELAY MODE

In this mode the two relays can be set for the activation of two auxiliary functions from each interphone and monitor using ELVOX TWO-WIRE TECHNOLOGY. The normally open contacts are independent and can be timed from 1 to 30 seconds, by adjusting the two trimmers on the printed circuit board (fig. 5-2) marked with the texts “ACTIV. TIME 1” and “ACTIV. TIME 2”.

Up to 8 device types 69RH can be connected on the ELVOX TWO-WIRE system. This means that a total of 16 auxiliary functions can be used (two relays for each device type 69RH). Each device type 69RH must then be assigned with an identification code, by setting jumpers ID0-ID1-ID2 on the printed circuit board (fig. 5-2). To assign the identification codes, refer to Tab. 5-2.

Activation of the auxiliary services is from the interphones and monitors, therefore refer to the instructions of the appliances in the section on auxiliary services 1 and 2.

REPEATER mode

In this mode the device repeater, combined with a ringtone type 860A or chime, enables repetition of the call made from a panel or intercommunicating device and addressed to one or more interphone or monitor groups (up to a maximum of 4 groups). The device uses two separate relays for the repetition of calls from panels and intercom devices, and therefore the ringtones can be differentiated by making appropriate connections to the ringtone device. (see wiring diagrams).

Programming REPEATER mode

To activate this mode, the following settings must be entered to set the groups for which call repetition is required (up to a maximum of 4 groups).

The following programme steps must only be performed after the audio and video entrance panels have been programmed.

The programming procedure is as follows::

1. LED initially off and jumper on ID2 (see Tab.5-2 and Fig. 5-3).
2. Position the jumpers on ID0 and ID1 to select the group for call repetition (see Tab. 5-2 and Fig. 5-3).
3. Press and hold the programming key for 2 seconds, until the LED turns on, to enter programming mode.
4. At this point the master of the group selected in point 2 must be assigned. To do this, press any one of the following interphone/monitor push-buttons - lock, activate operator, F1 or F2 - to be assigned as group master. On reception of the signal by the remote device, the LED changes to flashing status.
5. To confirm memorisation of the address, press the programming key. The LED turns off and programming is complete.
6. To set another call group, proceed as described in points 2-5. A maximum of 4 groups can be selected as required.

NOTES

- Point 4 must be completed within an interval of 2 minutes; otherwise the system automatically exits programming mode (the LED turns off), without memorising the data.
- Point 5 must be completed within an interval of 1 minute; otherwise the system automatically exits programming mode (the LED turns off), without memorising the data.
- As programming is write-only, the group masters cannot be identified.

DELETING A GROUP

A previously programmed group can be deleted as follows:

1. LED L1 initially off.
2. Remove the jumper from ID2 (fig. 1)
3. Position the jumpers ID0 and ID1 to enable selection of the call group address to be deleted (tab1 and fig. 2)
4. Press and hold the programming key for 2 seconds, until the LED L1 turns on. This remains lit for one second, after which it turns off to confirm deletion.
5. Repeat points 3 and 4 to delete other previously memorised groups as required.

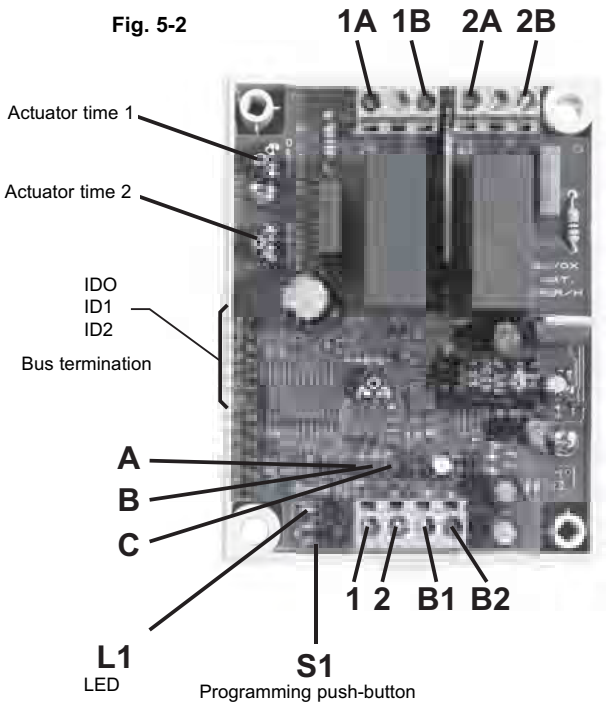
Return to RELAY mode

Once all groups have been deleted according to the procedure described in the previous chapter, the device returns to 692R mode. For confirmation, disconnect and reconnect the device 69RH to the BUS and check the status of the LED.

LED off → RELAY mode

LED flashing for one second → REPEATER mode

Fig. 5-2



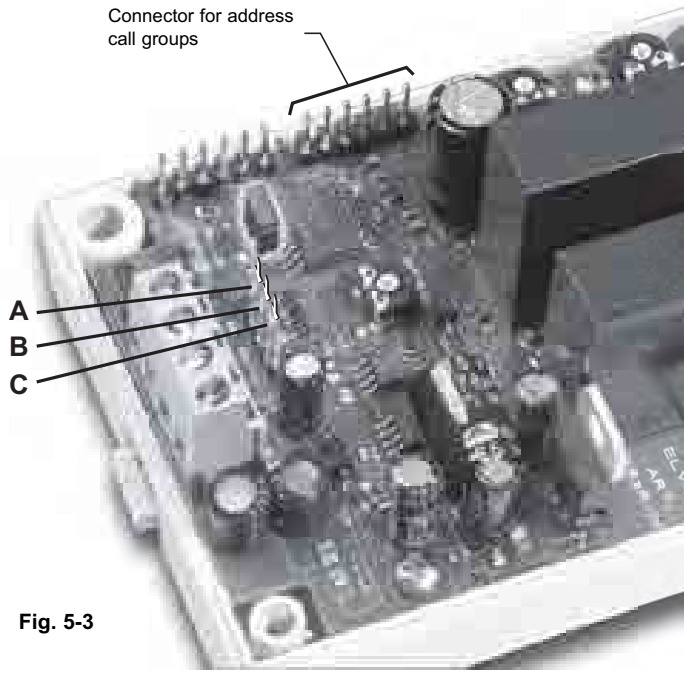


Fig. 5-3

Tab. 5-2

Jumper not inserted

Jumper inserted

RELAY mode
The two columns (1st relay 1A-1B and 2nd relay 2A-2B) indicate the number used to activate the above-mentioned relays when programming interphone or monitor push-buttons with programmer type 950C or PC software (69CD).

Identification

ID0 ID1 ID2	69RH	1st relay 1A-1B	2nd relay 1A-1B
	1	1	2
	2	3	4
	3	5	6
	4	7	8
	5	9	10
	6	11	12
	7	13	14
	8	15	16

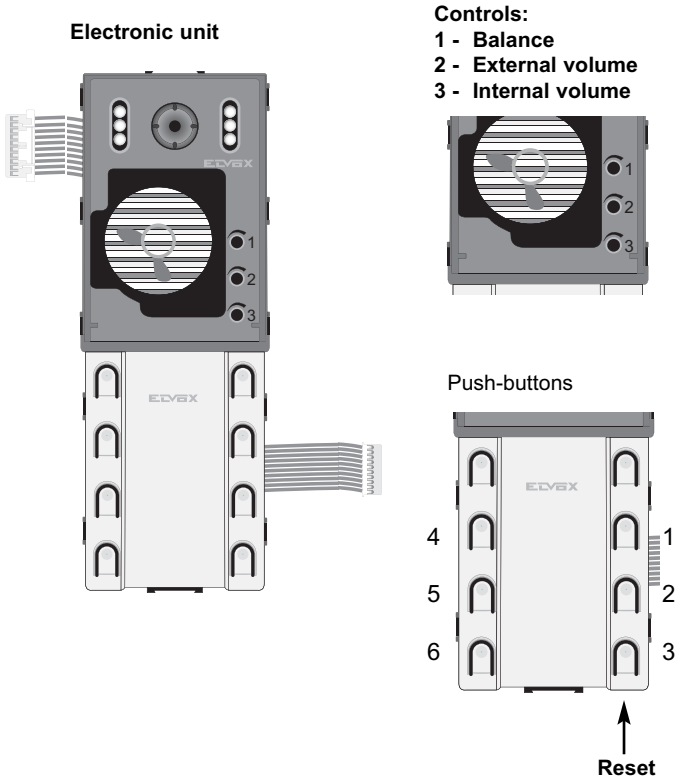
REPEATER mode
The relay (terminals 1A-1B) repeats the call coming from the entrance panel; the 2nd relay (terminals 2A-2B) repeats the call from an internal unit.

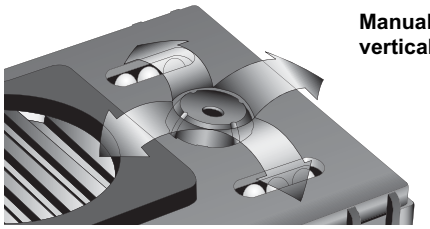
Procedure	ID0 ID1 ID2	
Programming		Assigning group 1
		Assigning group 2
		Assigning group 3
		Assigning group 4
Deletion		Assigning group 1
		Assigning group 2
		Assigning group 3
		Assigning group 4

ELECTRONIC PUSH-BUTTON PANELS MODEL 89F3/xx, 89F5/xx AND 89F8/xx

Controls:

Fig. 5-4





Manual horizontal and vertical tilt

The front of the electronic unit is fitted with: "1 - Balance, 2 - External volume, 3 - Internal volume", the "Master/Slave - TP" jumper and 6 push-buttons (call) for the standard programming phase. Standard programming of the panel is performed without without the front plate fitted, so as to access all 6 push-buttons on the electronic unit. For advanced programming of the panel, use programmer type 950C.

Modification to the volume may give rise to the LARSEN effect (whistling); use trimmer 1 - Balance (near the loudspeaker) to eliminate this effect or lower one or both of the volume levels.

PROGRAMMING

Preliminary operations

The panel is supplied with a standard configuration, which may be modified in the case of multiple panels in the same system and if the user wishes to changes the panel operating parameters. There are two parameter programming levels; one standard and one advanced. Standard programming can be performed directly from the panel keys, while advanced programming requires use of the programmer type 950C.

Standard basic programming parameters:

	Parameter	Default value
-	Panel ID	Not assigned
-	Reset EEPROM	
-	Single/double push-buttons	Single row
-	Answer time	30 seconds
-	Conversation time	120 seconds
-	Self-start time	10 seconds
-	Lock time	1 second
-	F1 time	1 second
-	F2 time	1 second
-	Panel ringtone repeat	Enabled
-	Lock block	Disabled
-	Monitor/interphone ringtone cycles	2
-	External volume	15
-	Internal volume	3
-	Push-button remapping	Hardware

Parameters for standard and advanced programming with type 950C:

-	Message language	Local
-	panel ID	Not assigned
-	First key ID	1
-	Push-button remapping	Hardware
-	Single/double push-buttons	Single row
-	Programming password	654321
-	Answer time	30 sec.
-	Conversation time	120 sec.
-	Self-start time	10 sec.
-	Lock time	1 sec.
-	F1 time	1 sec.
-	F2 time	1 sec.
-	External volume	15
-	Internal volume	3
-	Lock block	Disabled
-	Enablings/Disablings	No association
-	Panel ringtone repeat	Enabled
-	Monitor/interphone ringtone cycles	2
-	Common locks	No association
-	F1 common	No association
-	F2 common	No association
-	Auto-switching disabling	Disabled
-	Self-start sequence (Master panel only)	No association
-	Interphone/Monitor configuration	
-	Interphone/Monitor function key assignment	
-	Intercommunicating	
-	Self-start	
-	Auxiliary services	
-	F1 function assignment	
-	F2 function assignment	
-	F1 function specific	
-	F2 function specific	
-	Does not sound for internal calls	
-	Does not sound for external call	
-	Group call	
-	Audio activation/deactivation with door lock push-button.	

Before programming the panels, perform the following preliminary operations:

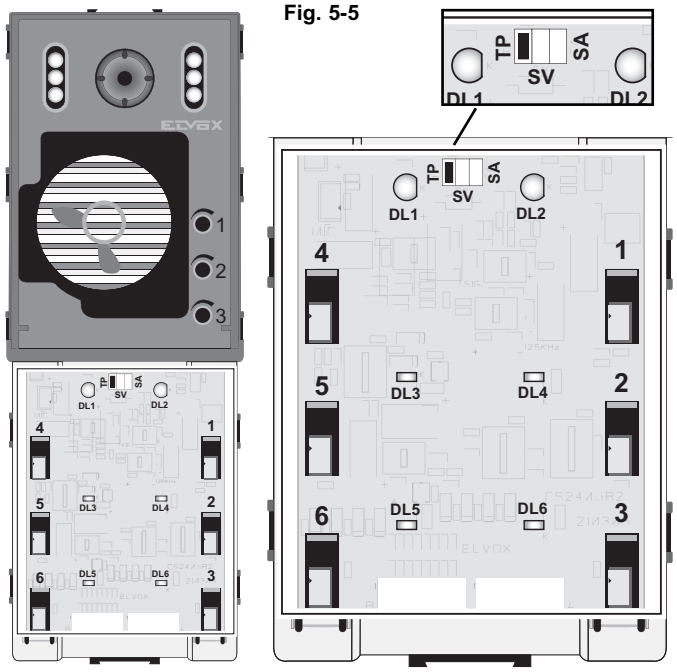
- Slave panel assignment. On systems with a single panel, this will be defined Master. On systems with multiple panels of any model (alphanumerical, push-buttons), one will be defined Master and the others SLAVE.
- Push-button hardware programming, for additional modules only.
- Panel ID, entrance panel identification code On systems with multiple panels, the SLAVE (alphanumerical, push-buttons, outdoor) panels **must be identified with a code**.

The panel programming phases use all push-buttons on the electronic unit (from 1 to 6); therefore these operations must be performed without the front plate fitted on the panel.

MASTER/SLAVE ASSIGNMENT
(Perform modifications with system switched off)

On systems with more than one panel, a Master panel must be defined (one only) while the others must be defined as Slave.
This operation is performed by inserting or removing the **TP** jumper in the electronic unit below the white cover of the push-buttons. The panel is supplied as standard with the jumper inserted (Master condition).
Leave the SV and SA jumpers free.

Fig. 5-5



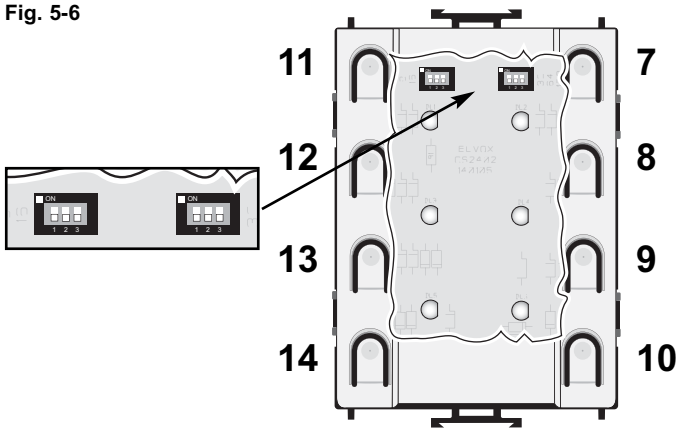
Jumper status

TP (inserted) - Master condition.
TP (removed) - Slave condition.
SV (removed) - always keep without jumper.
SA (inserted) - for audio entrance panels series 89F3/...
SA (removed) - for video entrance panels series 89F5/..., 89F8.

PUSH-BUTTON HARDWARE PROGRAMMING
(Perform modifications with system switched off)

The hardware programming of push-buttons enables the assignment of a unique hardware identification code to each push-button of the panel. This operation is indispensable to distinguish each button of the panel and should only be performed for additional module 805x and 804x. The keys on the standard modules are already assigned with the numbers from 1 to 6 and the relative hardware programming is not modifiable.
To associate the hardware code, use the dip-switches in each additional module below the white protection of the push-buttons. In 805x series modules, with push-buttons in single rows, there are 6 dip-switches, while in 804x series modules, with push-buttons in double rows, there are 5 dip-switches.

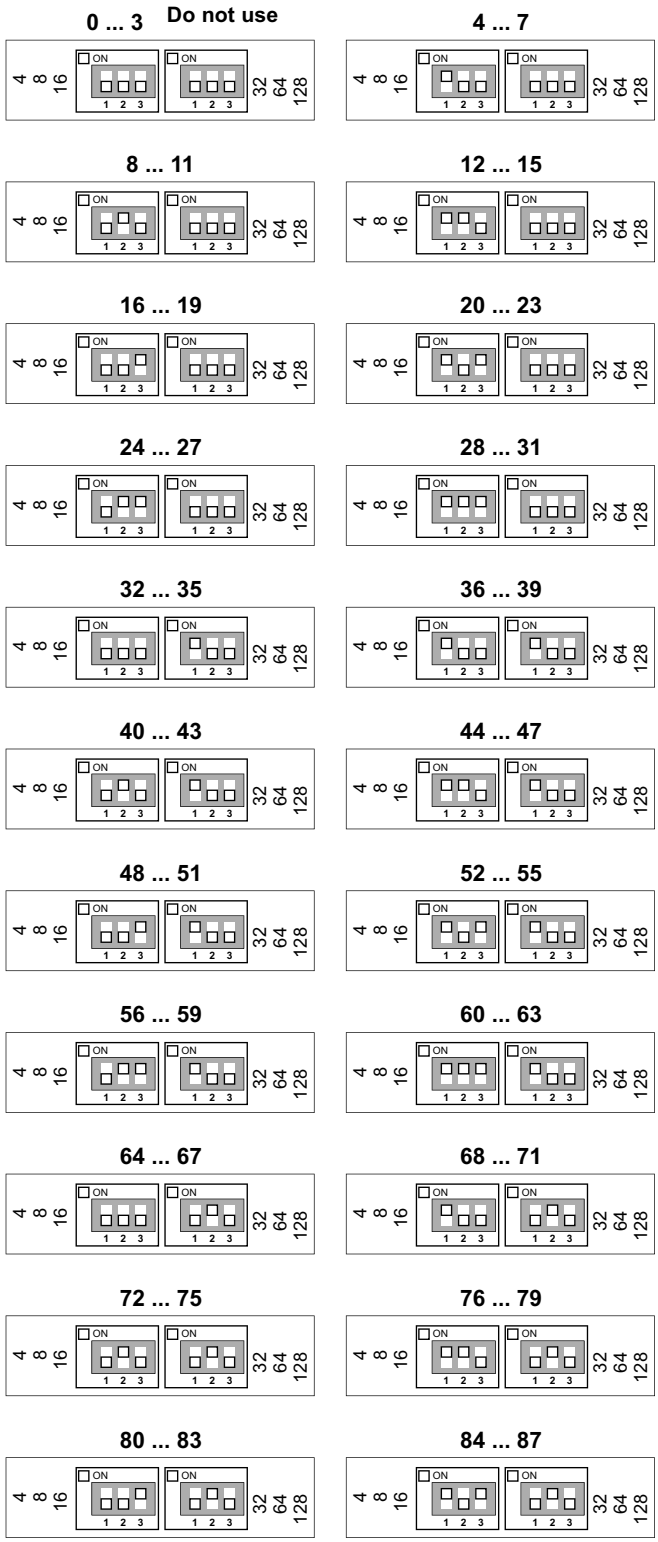
Fig. 5-6



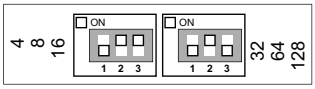
HARDWARE PROGRAMMING OF ADDITIONAL PUSH-BUTTON PANELS

The dip-switches modify the hardware code of the first push-button at the top right of the module, while the other push-buttons are associated consecutively from top to bottom, right to left (see Tables 5-3 and 5-4). Take care not to overlap the codes of push-buttons on the same panel. When using the modules with push-buttons in single or double rows the parameter "*Single/double push-buttons*" must be programmed according to the type of module (see standard or advanced programming, pages 5.11 and 5.15).).

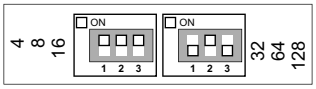
TABLE 5-3 - PUSH-BUTTONS IN SINGLE ROW



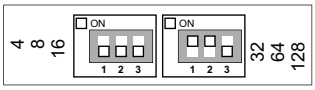
88 ... 91



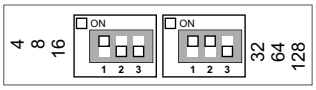
92 ... 95



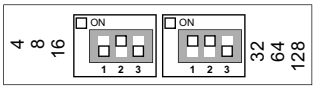
96 ... 99



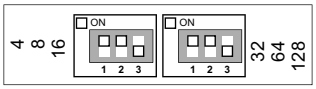
100 ... 103



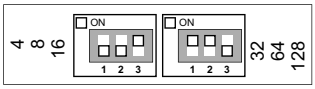
104 ... 107



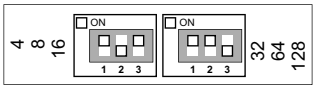
108 ... 111



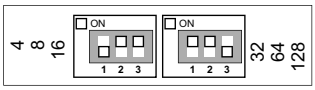
112 ... 115



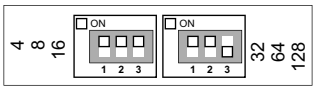
116 ... 119



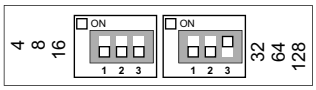
120 ... 123



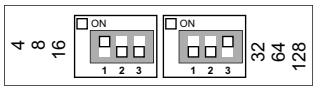
124 ... 127



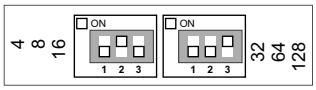
128 ... 131



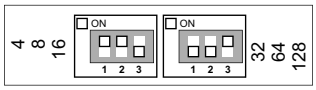
132 ... 135



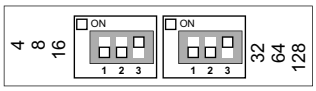
136 ... 139



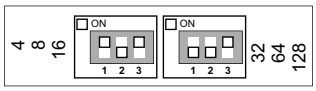
140 ... 143



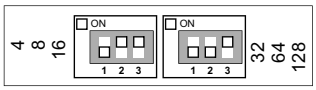
144 ... 147



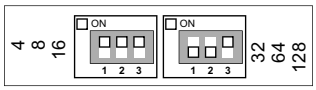
148 ... 151



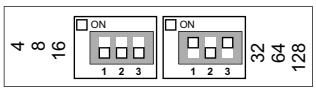
152 ... 155



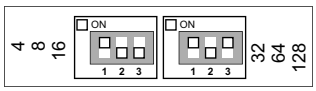
156 ... 159



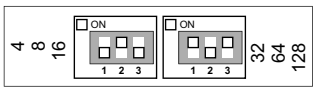
160 ... 163



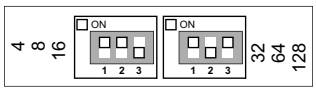
164 ... 167



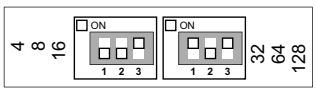
168 ... 171



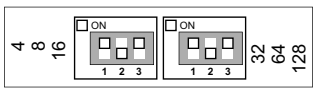
172 ... 175



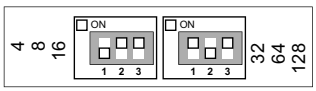
176 ... 179



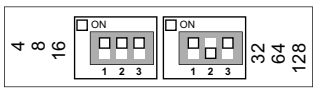
180 ... 183



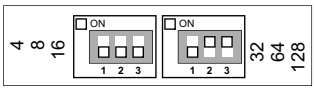
184 ... 187



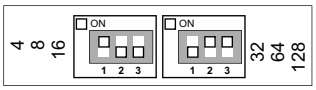
188 ... 191



192 ... 195



196 ... 199



200 ... 200

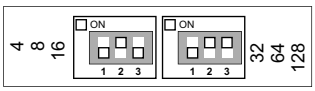
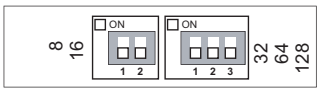


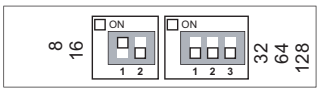
TABLE 2 - PUSH-BUTTONS IN DOUBLE ROW

Do not use

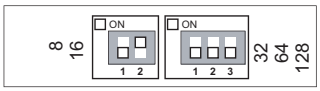
0 ... 6



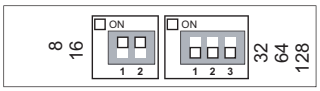
7 ... 14



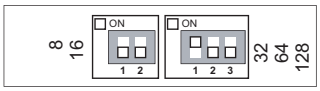
15 ... 22



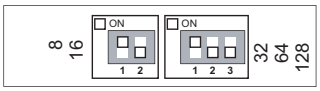
23 ... 30



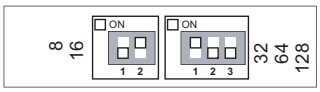
31 ... 38



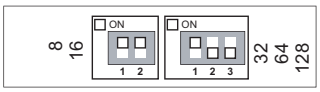
39 ... 46



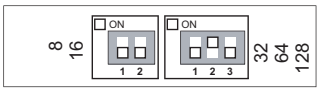
47 ... 54



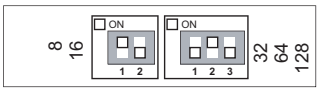
55 ... 62



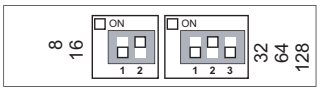
63 ... 70



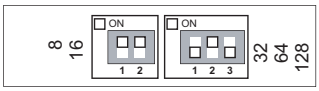
71 ... 78



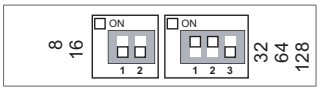
79 ... 86



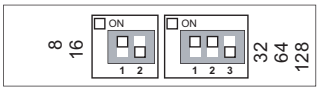
87 ... 94



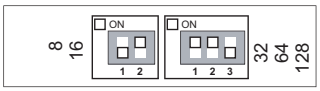
95 ... 102



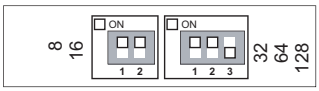
103 ... 110



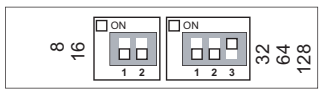
111 ... 118



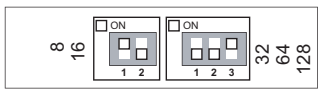
119 ... 126



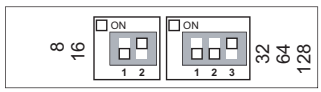
127 ... 134



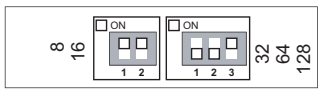
135 ... 142



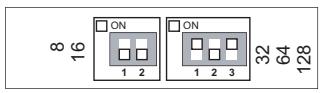
143 ... 150



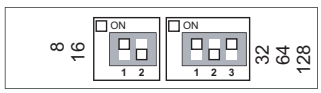
151 ... 158



159 ... 166



167 ... 174



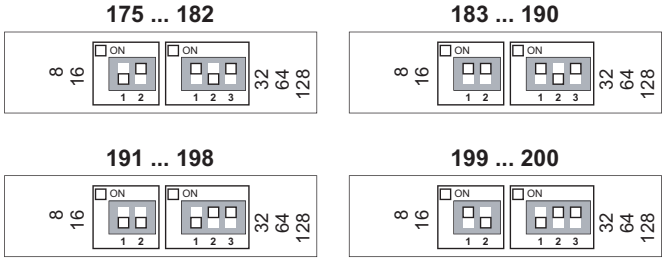
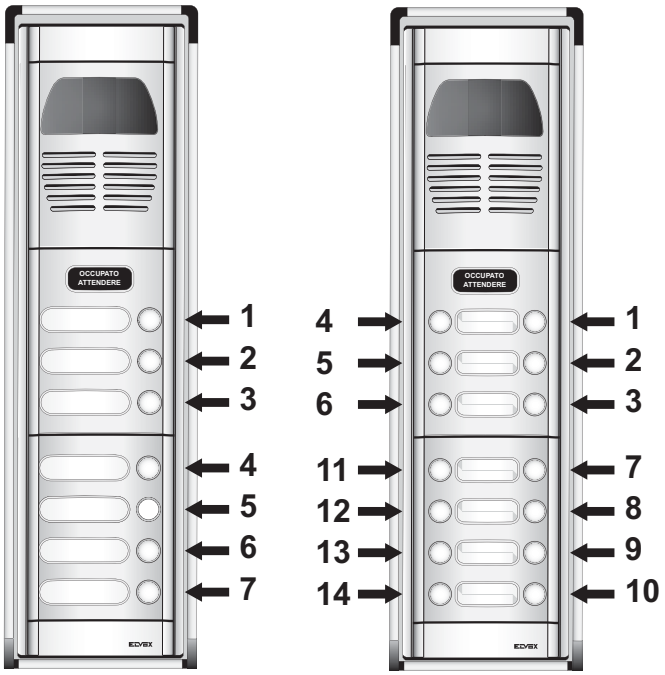
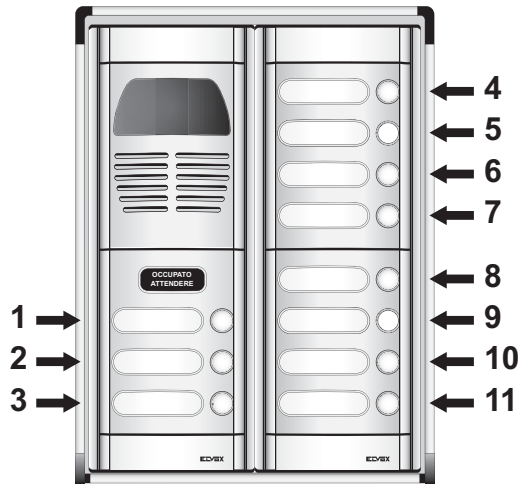


Fig. 5-7





ID ENTRANCE PANEL, IDENTIFICATION PANEL CODE

The identification panel code is required when there is more than one entrance panel on the installation and only for the panels previously identified as SLAVE. The operation must be carried out after connecting all the entrance panels, carrying out the previous operations and powering the installation.

Attention: if the installation power supplies are connected to the electrical network with more switchers, when switching the installation on, first power the SLAVE entrance panels and then the MASTER entrance panel.

Programming may be carried out by means of the programmer type 950C or by using the entrance panel push-buttons; if the entrance panel push-buttons are used, the panel must have a number of push-buttons (different for the physical code) equal to the number of SLAVE entrance panels.

For example:

1) in an installation with 7 entrance panels (1 Master and 6 Slaves), the electronic unit has 6 different push-buttons (from 1 to 6), one for each of the 6 entrance panels.
2) in an installation with 9 entrance panels (1 Master and 8 Slaves), at least 2 entrance panels out of 8 must be equipped with additional modules in order to have, besides the 6 standard push-buttons, another 2 push-buttons with different physical codes.

Panel ID programming procedure

Perform the following procedure for each of the SLAVE panels.

- **Power up the system. First power the SLAVE panels, followed by the MASTER panel.**
- **Wait until the red LEDs indicating ENGAGED/WAIT stop flashing.**
- **Press and hold the RESET push-button, of the electronic unit.**
- **Press and hold the call button no. 1 together with the RESET push-button (1st push-button at the top right of the electronic unit).**
- **Release the RESET push-button while keeping push-button no. 1 pressed for 2 seconds.**
- **Wait for the panel loudspeaker to emit a high-pitched tone.**
- **Enter the password by pressing the call push-buttons 6 - 5 - 4 - 3 - 2 - 1 in sequence. Each time a push-button is pressed, a short "BEEP" is sounded and the output time is renewed (25 seconds), until the next push-button is pressed. The password can only be changed by means of the programmer type 950C.**
- **If the password is correct, the panel emits a high-pitched confirmation tone, otherwise it emits a low tone and exits the programming phase. The unit also exits the programming phase when the output time interval elapses.**
- **Within 25 seconds, press one of the call push-buttons to assign the identification code to the SLAVE panel. Push-button 1 corresponds to panel 1 SLAVE (ID=2), push-button 2 to panel 2 SLAVE (ID=3) and so on.**

If the identification code has already been assigned, the panel emits a long high tone until another push-button is pressed. If the code is available, the panel emits a low tone and exits the programming phase.

STANDARD PARAMETER PROGRAMMING

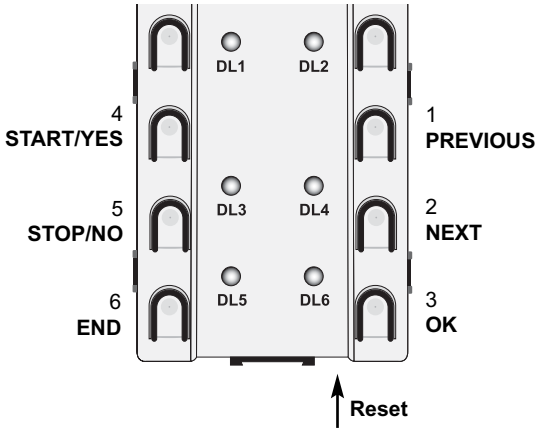
Perform the following procedure with the panels powered and after associating the panel ID code. This procedure applies to all panels, Master or Slave. During programming, the panel is in the engaged status and cannot be used for normal operation of the system. Programming requires use of the RESET push-button, the 6 push-buttons on the electronic unit and the 4 LEDs (DL3, DL4, DL5 and DL6), present between the 6 push-buttons. During programming, the 6 push-buttons take on the meaning indicated in Fig. 5-8.

To move between the parameters use the **Next button (2)** and if necessary the **Previous button (1)**.

To exit programming mode, after changing the relevant parameter, press the **End button (6)** or the **RESET** button. The unit also exits the programming phase when the output time interval of 30 seconds elapses, followed by the emission of a low tone for 1 second. The time is extended for a further 30 seconds when a valid push-button is pressed.

Changing a specific parameter does not require the others to be reprogrammed; it is sufficient to modify the relevant parameter after selecting it with the **Next (2)** or **Previous (1)** button.

Fig. 5-8



ENTER PROGRAMMING MODE

Press the **RESET** push-button

Wait for the 2 red LEDs to stop blinking (for the Master entrance panel only)

Press and hold down buttons **1 and 3 simultaneously**

After 2 seconds, the panel emits a high tone for 1 second

Release the push-buttons **1 and 3**

Enter the password. The default password is the sequence of buttons **6, 5, 4, 3, 2, 1**

If the password is correct, the 4 LEDs switch off; otherwise the panel emits a low tone and exits the programming phase

DL3 DL4 DL5 DL6 — **LED off**

DL3 DL4 DL5 DL6 — **LED on**

OK — **Change: press the OK button (3)**

* — **Cancel:** to cancel parameter editing, press the **End button (6)**

Passing flow between parameters

Parameters modify flow

RESET EEPROM

DL3 DL4 DL5 DL6 **LED**

Edit carefully

Restores all default parameter settings.

OK

The two red **LEDs (DL1 and DL2)** blink 8 times and the entrance panel emits a high continuous tone..

*

Cancellation start.

While the LEDs are blinking, press the **Previous (1), OK (3) and Stop/No (5)** buttons in sequence.

In the cancellation phase, the LEDs blink for a time of 100ms ON/100ms OFF. On completion of the cancellation process, the panel exits programming mode.

Press the **Next button (2)**

SINGLE/DOUBLE PUSH-BUTTONS

DL3 DL4 DL5 DL6 **LED**

Edit with push-buttons in two rows

This specifies if the whether the panel push-buttons are in single or double rows.
Default value = push-buttons in single row.

OK

The LED starts to blink

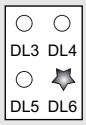
*

Press the **Start/Yes** button (4) for push-buttons in a **single row.**

Press the **Stop/No** button (5) for push-buttons in a **double row**

Press the **Next button (2)**

ANSWER TIME



LED

To be changed as required

This is the time interval, expressed in seconds, that the panel waits after a call has been terminated until the handset of the audio/video door entry unit is raised. If the handset is not raised within this time interval, the panel turns off the audio/video door entry unit. If the handset is raised before this interval elapses, the panel starts to count the conversation time.
Default value = 30 sec.,
minimum value 1 sec., maximum value 255 sec.

OK

The LED starts to blink

*

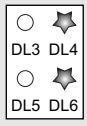
Press the **Start/Yes** button **(4)** to start the count and recording of the answer time.

During the recording, the LEDs blink with a cycle of one second (e.g., 10 blinks = 10 sec.)

Press the **Stop/No** button (5) to stop the count and recording of the answer time.

Press the **Next button (2)**

CONVERSATION TIME



LED

To be changed as required

To be programmed at the user's discretion. This is the time interval, expressed in seconds, monitored by the panel from the moment the handset is raised after the call. The panel disables the internal unit after this time interval.
Default value = 12 (120 sec.), minimum value 10 sec., maximum value 2550 sec.

OK

The LEDs start to blink

*

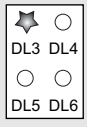
Press the **Start/Yes** button **(4)** to start the count and recording of the conversation time.

During the recording the LEDs blink with a cycle of one second.
1 blink = 10sec, (e.g., 10 blinks = 100 sec.)

Press the **Stop/No** button **(5)** to stop the count and recording of the conversation time.

Press the **Next button (2)**

SELF-START TIME



LED

To be changed as required

To be programmed at the user's discretion. This is the time interval, expressed in seconds, that the panel remains engaged with an audio/video door entry unit, following activation by means of the self-start function. The panel disables the internal unit after this time interval. Default value = 10 sec., minimum value 1, maximum value 255 sec.

OK

The LED starts to blink

*

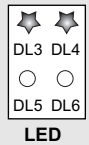
Press the **Start/Yes** button **(4)** to start the count and recording of the self-start time.

During the recording the LEDs blink with a cycle of one second (e.g., 10 blinks = 10 sec.).

Press the **Stop/No** button **(5)** to stop the count and recording of the self-start time.

Press the **Next button (2)**

LOCK TIME



LED

To be changed as required

To be programmed at the user's discretion. This is the activation time of the lock connected between terminals S+ / S- and +12V / SR.
Default value = 1 second, minimum value 0 sec., maximum value 255 sec.

OK

The LEDs start to blink

*

Press the **Start/Yes** button **(4)** to start the count and recording of the lock time.

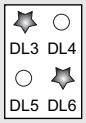
During the recording the LEDs blink with a cycle of one second (e.g., 10 blinks = 10 sec.)

Press the **Stop/No button (5)** to stop the count and recording of the lock time.

Press the **Stop/No button (5)** to stop the count and recording of the lock time.

Press the **Next button (2)**

F1 TIME



LED

To be changed as required

To be programmed at the user's discretion. This is the activation time of the device connected between terminals +12V / F1. Default value = 1 second, minimum value 0,5 sec., maximum value 255 sec..

OK

The LEDs start to blink

*

Press the **Start/Yes button (4)** to start the count and recording of the F1 time.

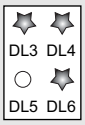
During the recording the LEDs blink with a cycle of one second (e.g., 10 blinks = 10 sec.).

Press the **Stop/No button (5)** to stop the count and recording of the F1 time.

Press the **Stop/No button (5)** to set the time on 0.5 sec..

Press the **Next button (2)**

F2 TIME



LED

To be changed as required

To be programmed at the user's discretion. This is the activation time of the device connected between terminals +12V / F1. Default value = 1 second, minimum value 0,5 sec., maximum value 255 sec..

OK

The LEDs start to blink

*

Press the **Start/Yes button (4)** to start the count and recording of the F2 time.

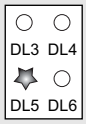
During the recording the LEDs blink with a cycle of one second (e.g., 10 blinks = 10 sec.).

Press the **Stop/No button (5)** to stop the count and recording of the F2 time.

Press the **Stop/No button (5)** to set the time on 0.5 sec..

Press the **Next button (2)**

ENTRANCE PANEL RINGTONE REPETITION



LED

To be changed as required

To be programmed as required. Enables repetition of the call ringtone in the loudspeaker of the panel, from the panel where the call is being made. Default value = enabled.

OK

The LED starts to blink

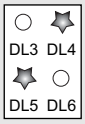
*

Press the **Start/Yes** button **(4)** to **enable** entrance panel call repetition.

Press the **Stop/No** button **(5)** to **disable** entrance panel call repetition.

Press the **Next button (2)**

LOCK BLOCK



LED

To be changed as required

To be programmed as required. Activation of the lock block enables control of the lock only when the panel is in call, conversation or self-start status. Default value = block disabled

OK

The LEDs start to blink

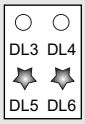
*

Press the **Start/Yes** button **(4)** to enable entrance panel lock block

Press the **Stop/No** button **(5)** to disable entrance panel lock block.

Press the **Next button (2)**

VIDEO/AUDIO DOOR ENTRY UNIT RINGTONE CYCLES



LED

To be changed as required

To be programmed at the user's discretion. This is the number of times that the call is repeated in the video/audio door entry unit when a call push-button is pressed.
Default value = 2 times, minimum value 1, maximum value 255.

OK

The LEDs start to blink

*

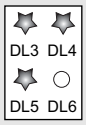
Press the **Start/Yes** button **(4)** to start the count of the ringtone cycles.

During the recording the LEDs blink with a cycle of one blink for 1 repetition (e.g., 5 blinks = 5 repetitions)

Press the Stop/No button (5) to stop the count of the ringtone cycles.

Press the **Next button (2)**

PUSH-BUTTON REMAPPING



LED

To be changed as required

Enables modification to the code sent by a push-button, regardless of its physical position assigned with the hardware programming. This enables use of a push-button to call an audio/video door entry unit that has already been assigned a different code. The push-button to be remapped takes on the code of a video/audio door entry unit that has already been programmed.
Default value = all push-buttons associated with a specific physical code.

OK

The LEDs start to blink

*

Press the **Start/Yes** button **(4)** to start remapping a call button

Press the call button you want to remap on the entrance panel

If you raise the handset of the audio/video door entry unit (or press the speak/listen button of the 6600 series) you should hear a three-tone scale.

(During this procedure, if the lock push-button on the audio/video door entry unit concerned is pressed, the panel lock is activated.
To cancel this event, enable the LOCK BLOCK parameter

Within 30 seconds of pressing the panel button, press one of the audio/video door entry unit buttons: lock, auxiliary functions F1, F2.

The panel will emit a low tone after the audio/video door entry unit button is pressed or after the time of 30 seconds has elapsed.

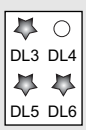
Press the **Start/Yes** button **(4)** again to start remapping another call button and repeat the previous phases

Press the **Stop/No button (5)** to restore a call button to its default value

Press the call button you want to restore to default on the entrance panel

Press the **Next button (2)**

RESERVED



LED

No operation enabled on the following parameter

END OF SEQUENCE - PARAMETER REPETITION

Press the **Next button (2)**

STANDARD AND ADVANCED PARAMETER PROGRAMMING WITH PROGRAMMER ART. 950C

The programmer Art. 950C is used to configure all the parameters of the Elvox Two Wire electronic entrance panels.

The programmer is powered by the bus. It has no integrated power supply. It is connected by means of the 6-wire connector exiting the upper section to the connector CN2 of terminal block R692 of the electronic entrance panel, as shown in Fig. 5-9.

To move between the parameters and edit their value, use the programmer keypad only.

To exit programming mode, press the **EXIT** button. The unit also exits the programming phase when the output time interval of 30 seconds elapses, followed by the emission of a low tone for 1 second. The time is extended for a further 30 seconds when a valid push-button is pressed.

Changing a specific parameter does not require the others to be reprogrammed; it is sufficient to modify the relevant parameter after reaching it with the programmer buttons.

Fig. 5-9

ENTER PROGRAMMING MODE

Connect the programmer to the entrance panel, powered by means of the wiring.

Wait for the message: **Program Config**

Repeatedly press the **"Up"** button until the message: **Select Function: Terminal Mode** appears

Press the **OK** button on the programmer

Wait for parameter 1 to be displayed

Editing phase

Passing flow between parameters

Parameter editing flow

Message language
Italian

To be changed as required

Used to select the message viewing language

Press button **1 for Italian**

Press button **2 for English**

Press **OK** to confirm or **EXIT** to **cancel**

Press the **"Down"** button

ID Panel
1

For SLAVE programmed entrance panels only

It is an identification code to be associated with the SLAVE entrance panel. For the Master entrance panel the value is set on 1

Enter a value from **2 to 15**

Press **OK** to confirm or **EXIT** to **cancel**

ID first push-button
1

In building complex systems with multiple entrance panels

Used to translate the numbering of all the entrance panel call buttons. The programmed value is the value associated with the 1st button on the entrance panel.

Enter a value from **1 to 200**

Press **OK** to confirm or **EXIT** to **cancel**

Press the **"Down"** button

Push-button remapping
(from Hardware to Software)
Push-button position 1=>0

In building complex systems with multiple entrance panels

It is used to associate each button with a different call code to the physical value of the button
(e.g., button 1 calls number 25).
0 indicates that the call code corresponds to the physical value of the button.

Single button remapping

Enter a value from **1 to 200** to select the button to program and press **OK**
or
press the **"Up"** button to select the button to program.

Press **OK** to **confirm** or **EXIT** to **cancel**

Enter a value from **1** to **200** for the new call code

Press **OK** to **confirm** or **EXIT** to **cancel**

Remapping all the buttons to **default**

Press the button **0** to take all the button values to default

Press button **1**

Press **OK** to **confirm** or **EXIT** to **cancel**

Press the **"Down"** button

Single push-buttons
NO

Edit with push-buttons in two rows

This specifies if the panel push-buttons are in single or double rows

Press button **1** for **single buttons**

Press button **0** for **double buttons**

Press **OK** to **confirm** or **EXIT** to **cancel**

Press the **"Down"** button

Password Program
654321

To be changed as required

Used to change the panel password for editing the parameters on the entrance panel.
The password must comprise 6 digits with values from 1 to 6.

Enter a value of 6 digits with numbers from 1 to 6

Press **OK** to **confirm** or **EXIT** to **cancel**

Press the **"Down"** button

Answer time
30 s

To be changed as required

This is the time interval, expressed in seconds, that the panel waits from the termination of a call on the panel until the raising of the handset on the audio/video door entry unit. If the handset is not raised within this time interval, the panel turns off the audio/video door entry unit. If the handset is raised before this interval elapses, the panel starts to count the conversation time.
Default value = 30 sec.,
minimum value 1 sec., maximum value 255 sec.

Enter a value from 1 to 255 seconds

Press **OK** to **confirm** or **EXIT** to **cancel**

Press the **"Down"** button

CONVERSATION TIME
120 s
To be changed as required

This is the time interval, expressed in seconds, monitored by the panel from the moment the handset is raised after the call. The panel disables the internal unit after this time interval.
Default value = 12 (120 sec.),
minimum value 10 sec.,
maximum value 2550 sec.

Enter a value from 10 to 255 without keying in the last digit (0)

Press **OK** to confirm or **EXIT** to **cancel**

Press the **"Down"** button

SELF-START TIME
10 s
To be changed as required

This is the time interval, expressed in seconds, that the panel remains engaged with an audio/video door entry unit, from activation by means of the self-start function.
The panel disables the internal unit after this time interval.
Default value = 10 sec., minimum value 1 sec., maximum value 255 sec.

Enter a value from 1 to 255 seconds

Press **OK** to confirm or **EXIT** to **cancel**

Press the **"Down"** button

LOCK TIME
1 s
To be changed as required

This is the activation time of the lock connected between terminals S+ / S- and +12V / SR.
Default value = 1 second,
minimum value 0 sec., maximum value 255 sec.

Enter a value from 0 to 255

Press **OK** to confirm or **EXIT** to **cancel**

Press the **"Down"** button

F1 Time 1
1 s
To be changed as required

This is the activation time of the device connected between terminals +12V / F1.
Default value = 1 second,
minimum value 0.5 sec., maximum value 255 sec.

Enter a value from 0 to 255 (from 0.5 to 255 seconds)

Press **OK** to confirm or **EXIT** to **cancel**

Press the **"Down"** button

F2 Time 1
1 s
To be changed as required

This is the activation time of the device connected between terminals +12V / F2.
Default value = 1 second,
minimum value 0.5 sec., maximum value 255 sec.

Enter a value from 0 to 255 (from 0.5 to 255 seconds)

Press **OK** to confirm or **EXIT** to **cancel**

Press the **"Down"** button

LOCK BLOCK
NO

To be changed as required

Activation of the lock block enables control of the lock only when the panel is in call, conversation or self-start status.
Default value = block disabled

Press button **1** to **activate the block**

Press button **0** to **deactivate the block**

Press **OK** to **confirm** or **EXIT** to **cancel**

Press the **"Down"** button

Dis/ Enable 1

In building complex systems with multiple entrance panels

Used to activate the lock, of entrance panel functions F1 and F2, by a specific internal appliance (audio/video door entry unit), when the latter is engaged (conversation) with another entrance panel.
Default value = disabled for all 200 flats (------).

Enter a value from **1** to **200** to select the flat and press **OK**
or
press the "**Up**" button to select the flat.

Press **OK** to **confirm** or **EXIT** to **cancel**

Press 1 to enable/disable the lock (Se----)
Press 2 to enable/disable the function F1 (--F1--)
Press 3 to enable/disable the function F2 (----F2)
It is also possible to activate two or three functions simultaneously (SeF1--, Se--F2, --F1F2, SeF1F2).

Press **OK** to **confirm** or **EXIT** to **cancel**

Press the **"Down"** button

Tone in entrance panel
Yes

To be changed as required

Enables repetition of the call ringtone in the loudspeaker of the panel, from the panel where the call is being made.
Default value = enabled

Press button 1 to **activate the sound**

Press button 0 to **deactivate the sound**

Press **OK** to **confirm** or **EXIT** to **cancel**

Press the **"Down"** button

N. ringer cycles
2

To be changed as required

To be programmed at the user's discretion. This is the number of times that the call is repeated in the video/audio door entry unit when a call push-button is pressed.
Default value = 2 times,
minimum value 1, maximum value 20.

Enter a value from 1 to 20 cycles

Press **OK** to **confirm** or **EXIT** to **cancel**

Press the **"Down"** button

Switchboard pushb. 1
Not Assigned

To be changed as required

To be programmed at the user's discretion with the switchboard in the system. It is the push-button of the entrance panel enabled to call the porter switchboard
Default value = 0 (not assigned)
minimum value 0, maximum value 200.

Press the "**Up**" button to select the switchboard button (1, 2, 3, 4).

Press **OK** to **confirm** or **EXIT** to **cancel**

Enter a value from 0 to 200

Press **OK** to **confirm** or **EXIT** to **cancel**

Press the **"Down"** button

Door Lock Com. 1
Not Assigned

To be changed as required

Enables activation of the entrance panel lock as the lock of another entrance panel is opened. Each time an internal appliance sends the open lock command to the entrance panel specified in the parameter, the following entrance panel also activates its own lock. It is possible to associate common lock opening to 4 different entrance panels (Com. 1, Com. 2, Com 3, Com. 4). Default value = 0 (not assigned)
minimum value 0, maximum value 15.

Press the "**Up**" button to select the common lock (Com. 1, Com. 2, Com 3, Com. 4).

Press **OK** to **confirm** or **EXIT** to **cancel**

Enter a value from 0 to 15 to indicate the ID of the associated entrance panel

Press **OK** to **confirm** or **EXIT** to **cancel**

Press the **"Down"** button

Common F1 1
Not Assigned

To be changed as required

Enables activation of function F1 of the entrance panel simultaneously with activation of function F1 of another entrance panel. Each time an internal appliance sends the F1 activation command to the entrance panel specified in the parameter, the following entrance panel also activates its own function. It is possible to associate activation of the common function to 4 different entrance panels (Common 1, Common 2, Common 3, Common 4). Default value = 0 (not assigned)
minimum value 0, maximum value 15.

Press the "**Up**" button to select the common F1 function (Common 1, Common 2, Common 3, Common 4).

Press **OK** to **confirm** or **EXIT** to **cancel**

Enter a value from 0 to 15 to indicate the ID of the associated entrance panel

Press **OK** to **confirm** or **EXIT** to **cancel**

Press the **"Down"** button

Common F2 1
Not Assigned

To be changed as required

Enables activation of function F2 of the entrance panel simultaneously with activation of function F2 of another entrance panel. Each time an internal appliance sends the F2 activation command to the entrance panel specified in the parameter, the following entrance panel also activates its own function. It is possible to associate activation of the common function to 4 different entrance panels (Common 1, Common 2, Common 3, Common 4). Default value = 0 (not assigned)
minimum value 0, maximum value 15.

Press the "**Up**" button to select the common F1 function (Common 1, Common 2, Common 3, Common 4).

Press **OK** to **confirm** or **EXIT** to **cancel**

Enter a value from 0 to 15 to indicate the ID of the associated entrance panel

Press **OK** to **confirm** or **EXIT** to **cancel**

Press the **"Down"** button

PROGRAMMING, CONFIGURATIONS AND SETTINGS PUSH-BUTTON ENTRANCE PANELS MODEL 89F3/xx, 89F5/xx, 89F8/xx WITH PROGRAMMER ART. 950C

Disab. Self-Start
NO

To be changed as required

Disables the entrance panel for self-starting from all the flats.
Default value = self-start enabled

Press button 1 to **disable self-starting**

Press button 0 to **enable self-starting**

Press OK to confirm or EXIT for cancel

Press the **"Down"** button

Seq. Self-Start 1
Not Assigned

Only for the Master entrance panel and on systems with multiple video panels

To be performed on the Master panel only. Enables each flat to be associated with the sequence of entrance panels for the self-start phase. Each time the self-start button of a specific flat is pressed, the flat connects cyclically to the entrance panels programmed in the sequence.
Default value = not assigned

Sequence programming

Enter a value from **1** to **200** to select the flat and press **OK** or

press the "**Up**" button to select the flat.

Press **OK** to **change**

Press the buttons from 1 to 9 to indicate the ID of the panels from 1 to 9, press the combination of buttons 00, 01, 02, 03, 04 or 05 to indicate respectively the ID of panels 10, 11, 12, 13, 14 or 15.

Each time the combination of buttons is used, the symbol ? appears on the display when the first digit 0 is pressed. When the second digit is pressed, a letter from A to F appears, corresponding to the codes from 10 to 15.

Press button **R** to delete the last digit

The maximum number of entrance panels comprising the sequence is 15, and the same panels can be repeated several times in the sequence.

Press **OK** to **confirm** or **EXIT** for **cancel**

Sequence duplication

Enter a value from **1** to **200** to select the flat from which to obtain the copy of the sequence and press **OK** or

press the "**Up**" button to select the flat.

Press **OK** to **change**

Press the **"Down"** button

Press the **EXIT** button

Enter a value from **1** to **200** to select the flat to programme and press OK or

press the "Up" button to select the flat.

Press **OK** to **change**

Press the **"Down"** button

Press **OK** to **confirm** or **EXIT** for **cancel**

Total sequence deletion

Press button **0**

Press button **1**

Press **OK** to **confirm** or **EXIT** for **cancel**

Press the **"Down"** button

Device 1
NOT PRESENT

To be changed as required

Used to perform advanced programming of the internal audio/video door entry units connected to the system.
The type of programming depends on the type of flat and is divided into: **Flag programming, Programmable Buttons, Groups, Levels.**

Enter a value from **1** to **200** to select the flat and press **OK**
or

press the "**Up**" button to select the flat.

Press **OK** to **confirm** or **EXIT** for **cancel**

Procedure for programming Flags, Programmable Buttons, Groups and Levels

END OF SEQUENCE - PARAMETER REPETITION

Press the **"Down"** button

PROGRAMMING, CONFIGURATIONS AND SETTINGS PUSH-BUTTON ENTRANCE PANELS MODEL 89F3/xx, 89F5/xx, 89F8/xx WITH PROGRAMMER ART. 950C

Procedure for programming Flags, Programmable Buttons, Groups and Levels

Parameters displayed according to the type of article							
8879	6209	6601/AU	6611/AU	6209+6009	6309 o 6309/P	6601	6611
				YES	YES	YES	YES
	YES	YES	YES	YES	YES	YES	YES
					YES		
					YES		
					YES		
					YES		
YES	YES	YES	YES	YES	YES	YES	YES

Device 1
Monitor ON : Yes
FLAGS
YES = The monitor switches on when called by the entrance panel

Press button **0** for **NO** — Press button **1** for **YES**
Press **OK** to confirm or **EXIT** to **cancel**

Press the "**Up**" button

Device 1
Green LED: Yes
FLAG
YES = the green LED is managed as door open indicator.

Press button **0** for **NO** — Press button **1** for **YES**
Press **OK** to confirm or **EXIT** to **cancel**

Press the "**Up**" button

Device 1
Door Lock: Yes
FLAG
YES = The lock button sends the open lock command.
NO = The lock button also closes the N.O. contacts on the terminal block of the device (only for art. 6309/P and 6309/CP).

Press button **0** for **NO** — Press button **1** for **YES**
Press **OK** to confirm or **EXIT** to **cancel**

Press the "**Up**" button

Device 1
Stair light: Yes
FLAG
YES = The stairs light button sends the command to the 1st relay of the 1st auxiliary service.
NO = The stairs light button also closes the N.O. contacts on the terminal block of the device (only for art. 6309/P and 6309/CP).

Press button **0** for **NO** — Press button **1** for **YES**
Press **OK** to confirm or **EXIT** to **cancel**

Press the "**Up**" button

Device 1
Self-Start: Yes
FLAG
YES = The self-start button self-starts the monitor.
NO = The self-start button also closes the N.O. contacts on the terminal block of the device (only for art. 6309/P and 6309/CP).

Press button **0** for **NO** — Press button **1** for **YES**
Press **OK** to confirm or **EXIT** to **cancel**

Press the "**Up**" button

Device 1
F1/F2 1-8: Yes
FLAG
YES = if the F1 / F2 push-button is programmed directly on a specific panel, only panels with ID from 1 to 8 can be programmed
NO = only panels with ID from 9 to 15.

Press button **0** for **NO** — Press button **1** for **YES**
Press **OK** to confirm or **EXIT** to **cancel**

Press the "**Up**" button

8879	6209	6601/AU	6611/AU	6209+6009	6309 or 6309/P	6601	6611
YES	YES	YES	YES	YES	YES	YES	YES
	YES			YES	YES		
YES	YES	YES	YES	YES	YES	YES	YES
YES	YES	YES	YES	YES	YES	YES	YES
YES	YES	YES	YES	YES	YES	YES	YES
YES	YES	YES	YES	YES	YES	YES	YES
YES	YES	YES	YES	YES	YES	YES	YES

Procedure for programming Flags, Programmable Buttons, Groups and Levels

Device 1
SwitchBoard: Yes
FLAG
YES = the device is working in porter switchboard mode.

Press button **0** for **NO** — Press button **1** for **YES**
Press **OK** to confirm or **EXIT** to **cancel**

Press the "**Up**" button

Device 1
Autom. Lock: NO
FLAG
YES = the device sends the lock opening command to the call from entrance panel if P6 is closed.

Press button **0** for **NO** — Press button **1** for **YES**
Press **OK** to confirm or **EXIT** to **cancel**

Press the "**Up**" button

Device 1
G3 ext. only: NO
FLAG
YES = group G3 (see groups) works only for external calls.

Press button **0** for **NO** — Press button **1** for **YES**
Press **OK** to confirm or **EXIT** to **cancel**

Press the "**Up**" button

Device 1
G4 int. only: NO
FLAG
YES = group G4 (see groups) works only for internal calls.

Press button **0** for **NO** — Press button **1** for **YES**
Press **OK** to confirm or **EXIT** to **cancel**

Press the "**Up**" button

Device 1
Do not bip: NO
FLAG
YES = eliminates the click sound when a valid key is pressed.

Press button **0** for **NO** — Press button **1** for **YES**
Press **OK** to confirm or **EXIT** to **cancel**

Press the "**Up**" button

Device 1
No RIPCH IC: NO
FLAG
YES = does not activate the call repeated output for intercommunicating calls.

Press button **0** for **NO** — Press button **1** for **YES**
Press **OK** to confirm or **EXIT** to **cancel**

Press the "**Up**" button

Device 1
G1 ext only.: NO
FLAG
YES = group G1 (see groups) works only for the external calls..

Press button **0** for **NO** — Press button **1** for **YES**
Press **OK** to confirm or **EXIT** to **cancel**

Press the "**Up**" button

8879	6209	6601/AU	6611/AU	6209+6009	6309 or 6309/P	6601	6611
YES	YES	YES	YES	YES	YES	YES	YES
YES	YES	YES	YES	YES	YES	YES	YES
YES	YES	YES	YES	YES	YES	YES	YES
	YES	YES	YES	YES	YES	YES	YES
YES	YES	YES	YES	YES	YES	YES	YES
	YES	YES		YES	YES		YES
	YES	YES		YES			YES

Procedure for programming Flags, Programmable Buttons, Groups and Levels

Device 1
G2 int. only: NO
FLAG
YES = group G2 (see groups) works only for internal calls.

Press button **0** for **NO** — Press button **1** for **YES**
Press **OK** to confirm or **EXIT** to **cancel**

Press the "**Up**" button

Device 1
No int. ring: NO
FLAG
YES = the monitor/audio door entry unit does not ring for intercommunicating calls.

Press button **0** for **NO** — Press button **1** for **YES**
Press **OK** to confirm or **EXIT** to **cancel**

Press the "**Up**" button

Device 1
No ext. ring: NO
FLAG
YES = the monitor/audio door entry unit does not ring for calls from an entrance panel.

Press button **0** for **NO** — Press button **1** for **YES**
Press **OK** to confirm or **EXIT** to **cancel**

Press the "**Up**" button

Device 1
P1 = Self-Start
PROGRAMMABLE KEYS
Assigns push-button P1 the function. Default = self-start

Press **OK** to **change**

Press the "**Up**" button

Device 1
P2 = Stair Light
PROGRAMMABLE KEYS
Assigns push-button P2 the function. Default = 1st relay of the 1st art. 692R

Press **OK** to **change**

Press the "**Up**" button

Device 1
P3 = Auxiliary 2
PROGRAMMABLE KEYS
Assigns push-button P3 the function. Default = 2nd relay of the 1st art. 692R

Press **OK** to **change**

Press the "**Up**" button

Device 1
P4 = Not Assigned
PROGRAMMABLE KEYS
Assigns push-button P4 the function. Default = no function

Press **OK** to **change**

Press the "**Up**" button

BUTTON ASSOCIATION PHASE PAGES 5-26

8879	6209	6601/AU	6611/AU	6209+6009	6309 or 6309/P	6601	6611
	YES	YES		YES			YES
	YES	YES		YES			YES
	YES	YES		YES			YES
	YES	YES		YES			YES
YES	YES	YES	YES	YES	YES	YES	YES
YES	YES	YES	YES	YES	YES	YES	YES

Procedure for programming Flags, Programmable Buttons, Groups and Levels

Device 1
P5 = Not Assigned
PROGRAMMABLE KEYS
Assigns push-button P5 the function. Default = no function

Press **OK** to **change**

Press the "**Up**" button

Device 1
P6 = Not Assigned
PROGRAMMABLE KEYS
Assigns push-button P6 the function. Default = no function

Press **OK** to **change**

Press the "**Up**" button

Device 1
P7 = Function F1
PROGRAMMABLE KEYS
Assigns push-button P7 the function. Default = F1 function command

Press **OK** to **change**

Press the "**Up**" button

Device 1
P8 = Function F2
PROGRAMMABLE KEYS
Assigns push-button P8 the function. Default = F2 function command

Press **OK** to **change**

Press the "**Up**" button

BUTTON ASSOCIATION PHASE PAG. 5-26

Device 1
G1 = Not Assigned
GROUPS
1st group. The following device is associated with another one, called "group master". The following device turns on with a group master device call.

Press **OK** to **change**
↓
Enter a value from **1** to **200** for the group master flat. If the value is **0** the association is removed.
↓
Press **OK** to confirm or **EXIT** to **cancel**

Press the "**Up**" button

Device 1
G2 = Not Assigned
GROUPS
2nd group. The following device is associated with another one, called "group master". The following device turns on with a group master device call.

Press **OK** to **change**
↓
Enter a value from **1** to **200** for the group master flat. If the value is **0** the association is removed.
↓
Press **OK** to confirm or **EXIT** to **cancel**

Press the "**Up**" button

8879	6209	6601/AU	6611/AU	6209+6009	6309 or 6309/P	6601	6611
YES	YES	YES	YES	YES	YES	YES	YES
YES	YES	YES	YES	YES	YES	YES	YES
		YES	YES			YES	YES
		YES	YES			YES	YES
		YES	YES			YES	YES
						YES	YES

Procedure for programming Flags, Programmable Buttons, Groups and Levels

Device 1
G3 = No assigned
GROUPS
3rd group. The following device is associated with another one, called "group master". The following device turns on with a group master device call.

Press **OK** to **change**
Enter a value from **1** to **200** for the group master flat. If the value is **0** the association is removed.
Press **OK** to confirm or **EXIT** to **cancel**

Press the "**Up**" button

Device 1
G4 = No assigned
GROUPS
4th group. The following device is associated with another one, called "group master". The following device turns on with a group master device call.

Press **OK** to **change**
Enter a value from **1** to **200** for the group master flat. If the value is **0** the association is removed.
Press **OK** to confirm or **EXIT** to **cancel**

Press the "**Up**" button

Device 1
Ringer volume : 7
Levels
Adjusts the volume of the call ringtone (from entrance panel, intercommunicating, outside the door).

Enter a value from **0** (ringtone off) to **8** (maximum volume).
Press **OK** to confirm or **EXIT** to **cancel**

Press the "**Up**" button

Device 1
HandsFree volume : 2
Levels
Adjusts the speakerphone voice line volume during the conversation.

Enter a value from **0** (minimum volume) to **7** (maximum volume).
Press **OK** to confirm or **EXIT** to **cancel**

Press the "**Up**" button

Device 1
Ringer type : 1
Levels
Select the type of ringtone for calls from the entrance panel.

Enter a value from **0** to **6**
Press **OK** to confirm or **EXIT** to **cancel**

Press the "**Up**" button

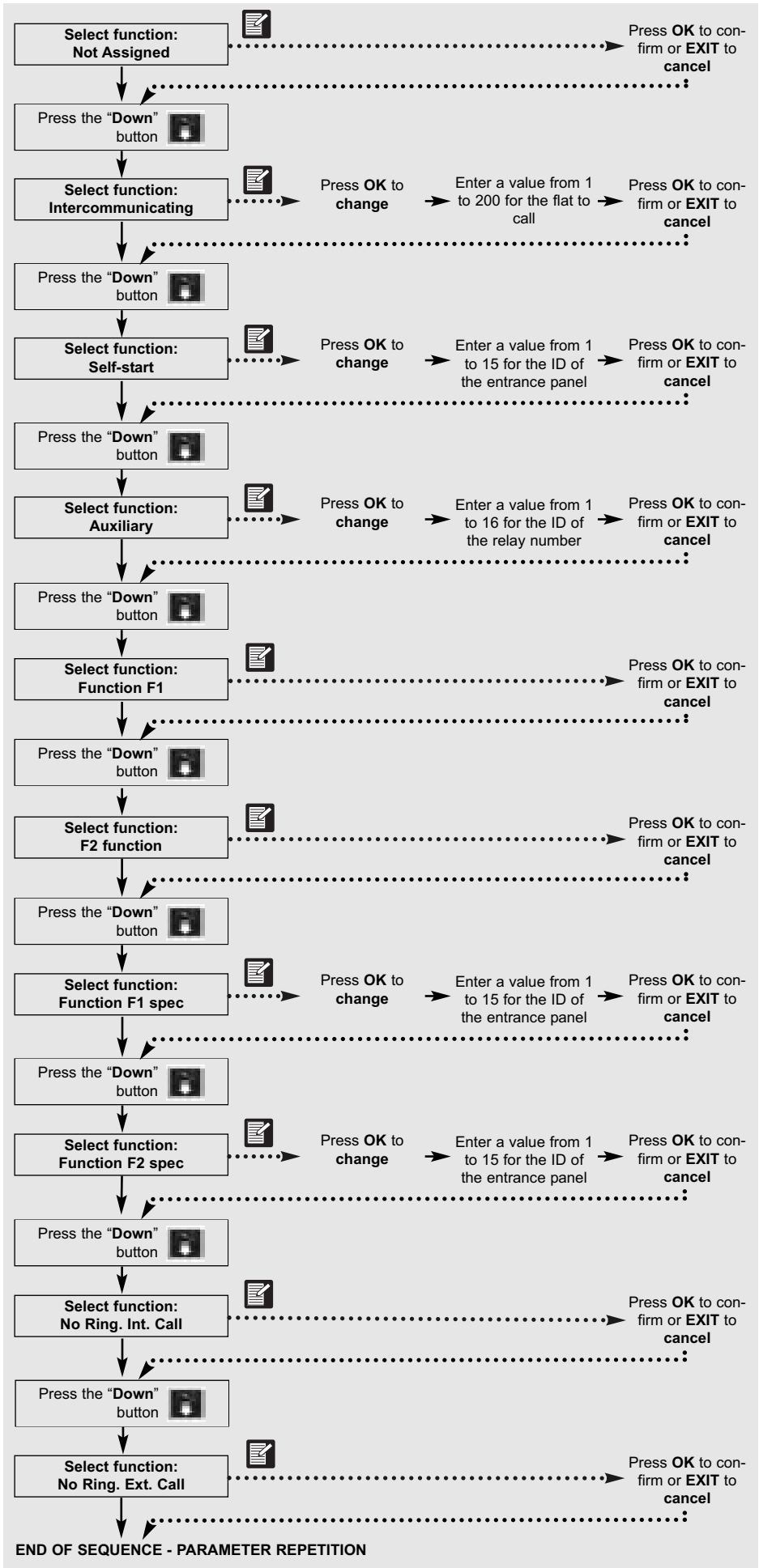
Device 1
Brightness : 5
Levels
Sets the level of monitor brightness.

Enter a value from **0** (minimum brightness) to **7** (maximum brightness).
Press **OK** to confirm or **EXIT** to **cancel**

END OF SEQUENCE - PARAMETER REPETITION

Press the "**Up**" button

KEY ASSOCIATION PHASE

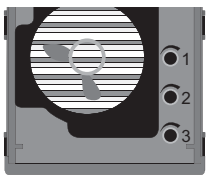


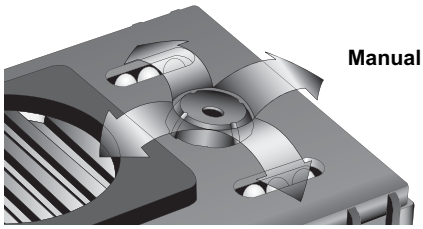
ALPHANUMERICAL ENTRANCE PANELS 89F4, 89F7, 89F7/C AND 89F9

Controls:

Fig. 5-10 **Electronic unit**

Controls:
2 - Reset
3 - Balance





Manual pan and tilt

The front of the electronic unit has the following features for adjusting settings: 3 - Balance adjustment (preconfigured by the manufacturer), 2 - Reset button, alphanumeric display and keypad.

The volume adjustment could cause the LARSEN effect (whistle). If so operate on trimmer 3 – Balance (close to the loudspeaker) to inhibit the sound, or lower one or both volumes.

PROGRAMMING

PRELIMINARY OPERATIONS

The entrance panel is supplied with a standard configuration, which can be modified in the case of multiple entrance panels in the same system and if the user wishes to change the entrance panel operating parameters. There are three possible types of programming:

- Programming of the parameters listed below, so as to configure the entrance panel according to system requirements.
- Hardware programming, which changes the standard specifications of the entrance panel and should only be done for special situations.
- Sequential encoding, for programming the identification code of the interphones/monitor interphones via the entrance panel.
  Programming can be carried out directly with the entrance panel keypad or using programming module type 950C.

Parameters for programming:

- **Parameter**	**Default value**
- Message language	English
- Entrance panel ID	1
- Number of encoding digits	Sequential
- Lock code	R+1
- Push-button preferential code ⇈	No association
- Push-button preferential code ⇊	No association
- Lock keys	No association
- F1 keys	No association
- F2 keys	No association
- Device numbering	No association
- Search the entire phone book	No
- Device names	No association
- Programming password	654321
- Reply time	30 sec.
- Conversation time	120 sec.
- Self-start time	10 sec.
- Lock time	1 sec.
- F1 time	1 sec.
- F2 time	1 sec.
- External volume	15
- Internal volume	3
- Lock block	Disabled
- Enable/disable commands	No association
- Entrance panel ringtone repetition	Enabled
- Monitor/interphone ringtone cycles	2
- Common locks	No association
- Common F1	No association
- Common F2	No association
- Self-start disable	No
- Clock	01/01/05 00:00
- Timed code enable	No
- First timed code	No association
- Last timed code	No association
- Code validity time bands	No association
- Self-start sequence (Master entrance panel only)	No association
- Monitor/interphone configuration	
- Assignment of monitor/interphone function keys	
- Intercommunicating	
- Self-start	
- Auxiliary services	
- F1 function assignment	
- F2 function assignment	
- F1 function specific	
- F2 function specific	
- No intercom call ringtone	
- No panel call ringtone	
- Audio activation/deactivation with door lock push-button.	

The essential programming operations, which must be carried out before any others, are:

- SLAVE entrance panel assignment. On systems with a single entrance panel, the entrance panel will be defined as MASTER. In systems with several entrance panels, regardless of type (alphanumeric, push-buttons), one will be defined as MASTER and the others as SLAVE.
- Entrance panel ID, entrance panel identification code. In systems with several entrance panels, the SLAVE entrance panels (alphanumeric, push-buttons, landing) will be identified with a different code for each.

PARAMETER PROGRAMMING
(Modify parameters by connecting one entrance panel at a time)

In systems with several entrance panels, it is necessary to distinguish one MASTER entrance panel (one only) and the others as SLAVE entrance panels, regardless of type (alphanumeric, push-buttons, landing). All entrance panels are supplied already set up as MASTER entrance panels.
In the case of alphanumeric type entrance panels, the MASTER or SLAVE settings are determined by the panel ID code programming software. Until all the ID codes of every panel have been assigned, it is advisable to programme the panels by connecting them to the system one at a time. Connect the MASTER entrance panel last.

ENTER PROGRAMMING MODE

Wait for the entrance panel to return to the rest state and display the message:
Key in a number to call

Simultaneously press push-buttons **R** and **4** or alternatively press R and hold it down while pressing button 4.

With the display of the message:
Enter Password
---
release push-buttons **R** and **4**

Enter the password: **6 5 4 3 2 1**
and press

During programming, no more than about 30 seconds (timeout) must elapse between one press of a push-button and the next. If this time limit is exceeded, the entrance panel exits programming mode automatically.

Editing phase

Passing flow between parameters

Parameter editing flow

Message language
Italian

To be changed as required

Used to select the message viewing language

Press button **1** for **Italian**

Press button **2** for **another language (English)**

Press to **confirm** or * to **cancel**

Press the "**Down**" button

Entrance panel ID
1

Mandatory

It is an identification code to be associated with the SLAVE entrance panel. For the Master entrance panel the value is set on 1.

Enter a value from **1** to **15**

Press to **confirm** or * to **cancel**

Press the "**Down**" button

N. of Coding digits
Seq. coding

Recommended in building complexes

Used to specify the style of call codes of the flats:

Sequential encoding: codes from 1 to 200, corresponding to the physical codes of the flats.
4-digit coding: codes from 1 to 9999, it is necessary to enter call codes of up to 4 digits. The following style requires the use of the Device Numbering Parameter.
8-digit coding: codes from 1 to 99999999, it is necessary to enter call codes of up to 8 digits. The following style requires the use of the Device Numbering Parameter.
Default value: sequential encoding

Press the push-button:
1 = Sequential coding
2 = 4-digit coding
3 = 8-digit coding

Press to **confirm** or * to **cancel**

Press the "**Down**" button

Lock code
R + 1

To be changed as required

Used to specify the style for calling the lock opening function from an entrance panel (see LOCK KEYS parameter):
Push-button **0** (inconvenient if the call codes start with 0).
Push-buttons **R + 1** (must be pressed simultaneously).

Press 🔔 (with panel in rest mode).
Default value= R + 1.

Press the push-button:
1 = 0
2 = R + 1
3 = 🔔

Press 🔔 to **confirm** or * to **cancel**

Press the "**Down**" button

Prefer. code ⩝

To be changed as required

Assigns push-button ⩝ a call code to a flat. The call code must be 3 or 4 or 8 digits long depending on the "No. Coding Digits" parameter.

Enter a value from **001** to **200** or from **1** to **9999** or from **1** to **99999999**
(see No. Coding Digits)
Press R to delete the last digit

Press 🔔 to **confirm** or * to **cancel**

Press the "**Down**" button

Prefer. code ⩛

To be changed as required

Assigns push-button ⩝ a call code to a flat. The call code must be 3 or 4 or 8 digits long depending on the "No. Coding Digits" parameter.

Enter a value from **001** to **200** or from **1** to **9999** or from **1** to **99999999**
(see No. Coding Digits)
Press R to delete the last digit

Press 🔔 to **confirm** or * to **cancel**

Press the "**Down**" button

Key lock 1
1

To be changed as required

It is possible to store up to 200 different codes of max. 8 digits in the entrance panel, so that the lock may be opened using the entrance panel keypad (see parameter LOCK CODE).
Default value = (off)

Enter a value from **1** to **200** to select the key and press 🔔

Press 🔔 to **change**

Enter a code of max. 8 digits
Press R to delete the last digit

Press 🔔 to **confirm** or * to **cancel**

Press the "**Down**" button

To move on to the next parameter it is necessary to be on lock key 1

Key F1
1

To be changed as required

It is possible to store up to 200 different codes made up of max. 8 digits in the entrance panel, so that the lock may be opened using the entrance panel keypad.
The function is called up with push-buttons R + 2 (pressed simultaneously).
Default value = (off)

Enter a value from **1** to **200** to select the key and press 🔔

Press 🔔 to **change**

Enter a code of max. 8 digits
Press R to delete the last digit

Press 🔔 to **confirm** or * to **cancel**

Press the "**Down**" button

To move on to the next parameter it is necessary to be on lock key 1

Key F2
1

To be changed as required

It is possible to record up to 200 different codes made up of at most 8 digits in the entrance panel to activate the F2 function from the keypad of the entrance panel.
The function is called up with push-buttons R + 3 (pressed simultaneously).
Default value = (off)

Enter a value from **1** to **200** to select the key and press 🔔

Press 🔔 to **change**

Enter a code of at most 8 digits
Press R to delete the last digit

Press 🔔 to **confirm** or * to **cancel**

Press the "**Down**" button ⩛

To move on to the next parameter it is necessary to be on F2 key 1

Device numb. 1
0000

Depending on the parameter "No Coding Digits"

The devices must be coded if the "Number Coding Digits" parameter is set to 4 or 8 digits.
The following parameter maps the physical codes of the flats (from 1 to 200) to a call code composed of max. 4 or 8 digits.
Default value = (not assigned).

Association of call code

Enter a value from **1** to **200** to select the flat and press 🔔

Press 🔔 to **change**

Enter a code of 4 or 8 digits depending on the "Number Coding Digits" parameter.

Press R to delete the last digit

Press 🔔 to **confirm** or * to **cancel**

Deleting a single code

Enter a value from **1** to **200** to select the code of the flat to cancel and press 🔔

Press 🔔 to **change**

Press **0**

Press 🔔 to **confirm** or * to **cancel**

Total sequence deletion

Press **0**

Press **1**

Press 🔔 to **confirm** or * to **cancel**

Press the "**Down**" button ⩛

To move on to the next parameter it is necessary to be on device numbering 1.

Search all pbk.
NO

To be changed as required

YES = searching for a name in the phone book does not require part of the name to be entered, it is sufficient to press:
* and ⩓ or * and ⩛.
NO = in order to search for a name in the phone book, enter part of the name or the first letter as follows:
* part of name ⩓ or * part of name ⩓.
Default value = NO

Press button **0** for **NO** — Press button **1** for **YES**

Press 🔔 to **confirm** or * to **cancel**

Press the "**Down**" button ⩛

Device name 1

To be changed as required

It is possible to record up to 400 names (2 for each flat, a and b) in the electronic phone book of the entrance panel. Each name may contain a maximum of 16 characters.
Default value = no association.

Enter a value from **1** to **200** to select the flat and press 🔔

Press one of the two buttons ⩓ or ⩔ to select one of the two names (a and b) of the same flat.

Press 🔔 to change

Enter the name using the buttons from 0 to 9. Each button represents multiple characters, to add the desired character press the same button a number of times (see following table).

KEY	SYMBOL
1	<spazio> 1@.,:;?!()<>
2	ABC2abcÁÀÃÅ Çáàãåäç
3	DEF3defÉÈÊéèê
4	GHI4ghiÍÌîì
5	JKL5jkl

KEY	SYMBOL
6	MNO6mnoÓÒÕ Öóòõö
7	PQRS7pqrs
8	TUV8tuvÚÙúù
9	WXYZ9wxyz
0	0_$&*#+-=/%"

When entering the name a blinking cursor indicates the position of the character to enter.

Use the buttons ⩓ and ⩔ to move along the name, button R to delete the last character entered.

Press 🔔 to **confirm** or * to **cancel**

Press the "**Down**" button ⩔

To move on to the next parameter it is necessary to be on "Device Name on 1"

Password Program
654321

Recommended to change password

Used to set the password for programming the parameters.
If the password gets lost, it is necessary to use the programmer art. 950C to enter parameter programming.
Default value = 654321

Enter a code of 6 digits with numbers from 0 to 9

Press 🔔 to **confirm** or * to **cancel**

Press the "**Down**" button ⩔

Answer time
30 s

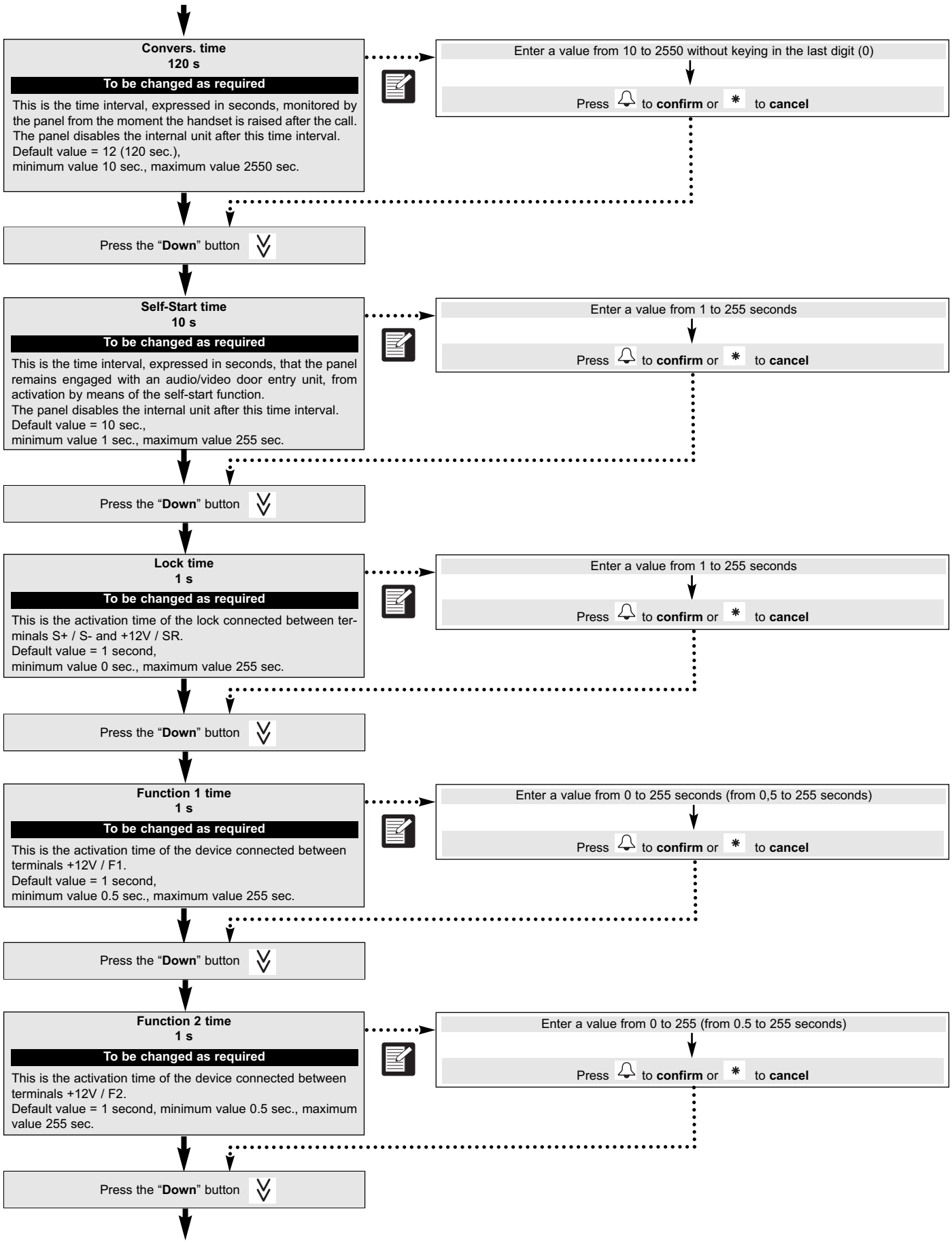
To be changed as required

This is the time interval, expressed in seconds, that the panel waits after a call has been terminated until the handset of the audio/video door entry unit is raised. If the handset is not raised within this time interval, the panel turns off the audio/video door entry unit. If the handset is raised before this interval elapses, the panel starts to count the conversation time.
Default value = 30 sec.,
minimum value 1 sec., maximum value 255 sec.

Enter a value from 1 to 255 seconds

Press 🔔 to **confirm** or * to **cancel**

Press the "**Down**" button ⩔


Convers. time
120 s
To be changed as required
This is the time interval, expressed in seconds, monitored by the panel from the moment the handset is raised after the call. The panel disables the internal unit after this time interval.
Default value = 12 (120 sec.),
minimum value 10 sec., maximum value 2550 sec.
Enter a value from 10 to 2550 without keying in the last digit (0)
Press to confirm or * to cancel
Press the "Down" button
Self-Start time
10 s
To be changed as required
This is the time interval, expressed in seconds, that the panel remains engaged with an audio/video door entry unit, from activation by means of the self-start function.
The panel disables the internal unit after this time interval.
Default value = 10 sec.,
minimum value 1 sec., maximum value 255 sec.
Enter a value from 1 to 255 seconds
Press to confirm or * to cancel
Press the "Down" button
Lock time
1 s
To be changed as required
This is the activation time of the lock connected between terminals S+ / S- and +12V / SR.
Default value = 1 second,
minimum value 0 sec., maximum value 255 sec.
Enter a value from 1 to 255 seconds
Press to confirm or * to cancel
Press the "Down" button
Function 1 time
1 s
To be changed as required
This is the activation time of the device connected between terminals +12V / F1.
Default value = 1 second,
minimum value 0.5 sec., maximum value 255 sec.
Enter a value from 0 to 255 seconds (from 0,5 to 255 seconds)
Press to confirm or * to cancel
Press the "Down" button
Function 2 time
1 s
To be changed as required
This is the activation time of the device connected between terminals +12V / F2.
Default value = 1 second, minimum value 0.5 sec., maximum value 255 sec.
Enter a value from 0 to 255 (from 0.5 to 255 seconds)
Press to confirm or * to cancel
Press the "Down" button

External volume
????????????

To be changed as required

This is the volume of the panel speaker, settable on 16 levels. Default value = 15, minimum value 0, maximum value 15.

Press to **change**

Press or . to increase or decrease the volume

Press to **confirm** or * to **cancel**

Press the "**Down**" button

Internal volume
????????????

To be changed as required

This is the volume of the microphone of the panel, settable on 4 levels. Default value = 3,
minimum value 0, maximum value 3.Lock Block

Press to **change**

Press or . to increase or decrease the volume

Press to **confirm** or * to **cancel**

Press the "**Down**" button

Lock block
NO

To be changed as required

Activation of the lock block enables control of the lock only when the panel is in call, conversation or self-start status. Default value = block disabled

Press button **1** to **activate the block**

Press button **0** to **disable the block**

Press to **confirm** or * to **cancel**

Press the "**Down**" button

Dis/Enable 1

In building complex systems with multiple entrance panels

Used to activate the lock, of functions F1 and F2 of the entrance panel, by a specific internal appliance (audio/video door entry unit), when the latter is engaged (conversation) with another entrance panel.
Default value = disabled for all 200 flats (------).

Enter a value from **1** to **200** to select the flat and press

Press to **change**

Press 1 to enable/disable the lock (Se----)
Press 2 to enable/disable the function F1 (--F1--)
Press 3 to enable/disable the function F2 (----F2)
It is also possible to activate two or three functions simultaneously
(SeF1--, Se--F2, --F1F2, SeF1F2).

Press to **confirm** or * to **cancel**

Press the "**Down**" button

To move on to the next parameter it is necessary to be on "(Dis) Enable 1"

Tone in panel
Yes

To be changed as required

Enables repetition of the call ringtone in the loudspeaker of the panel, from the panel where the call is being made.
Default value = enabled

Press button **1** to **activate** the ringtone

Press button **0** to **disable** the ringtone

Press to **confirm** or * to **cancel**

Press the "**Down**" button

Ring Cycle Num.
2

To be changed as required

To be programmed at the user's discretion. This is the number of times that the call is repeated in the video/audio door entry unit when a call push-button is pressed.
Default value = 2 times,
minimum value 1, maximum value 20.

Enter a value from 1 to 20 cycles

Press 🔔 to **confirm** or * to **cancel**

Press the "**Down**" button ⩛

Common Lock 1
Not Assigned

To be changed as required

Enables activation of the entrance panel lock as the lock of another entrance panel is opened. Each time an internal appliance sends the open lock command to the entrance panel specified in the parameter, the following entrance panel also activates its own lock. It is possible to associate common lock opening to 4 different entrance panels (Com. 1, Com. 2, Com 3, Com. 4). Default value = 0 (not assigned)
minimum value 0, maximum value 15.

Press ⩚ or ⩛ to select the common lock (Com. 1, Com. 2, Com 3, Com. 4).

Enter a value from 0 to 15 to indicate the ID of the associated entrance panel

Press 🔔 to **confirm** or * to **cancel**

Press the "**Down**" button ⩛

Common F1 1
Not Assigned

To be changed as required

Enables activation of function F1 of the entrance panel simultaneously with activation of function F1 of another entrance panel. Each time an internal appliance sends the F1 activation command to the entrance panel specified in the parameter, the following entrance panel also activates its own function. It is possible to associate activation of the common function to 4 different entrance panels (Common 1, Common 2, Common 3, Common 4). Default value = 0 (not assigned)
minimum value 0, maximum value 15.

Press ⩚ or ⩛ to select the common function F1 (Common 1, Common 2, Common 3, Common 4).

Enter a value from 0 to 15 to indicate the ID of the associated entrance panel

Press 🔔 to **confirm** or * to **cancel**

Press the "**Down**" button ⩛

Common F2 1
Not Assigned

To be changed as required

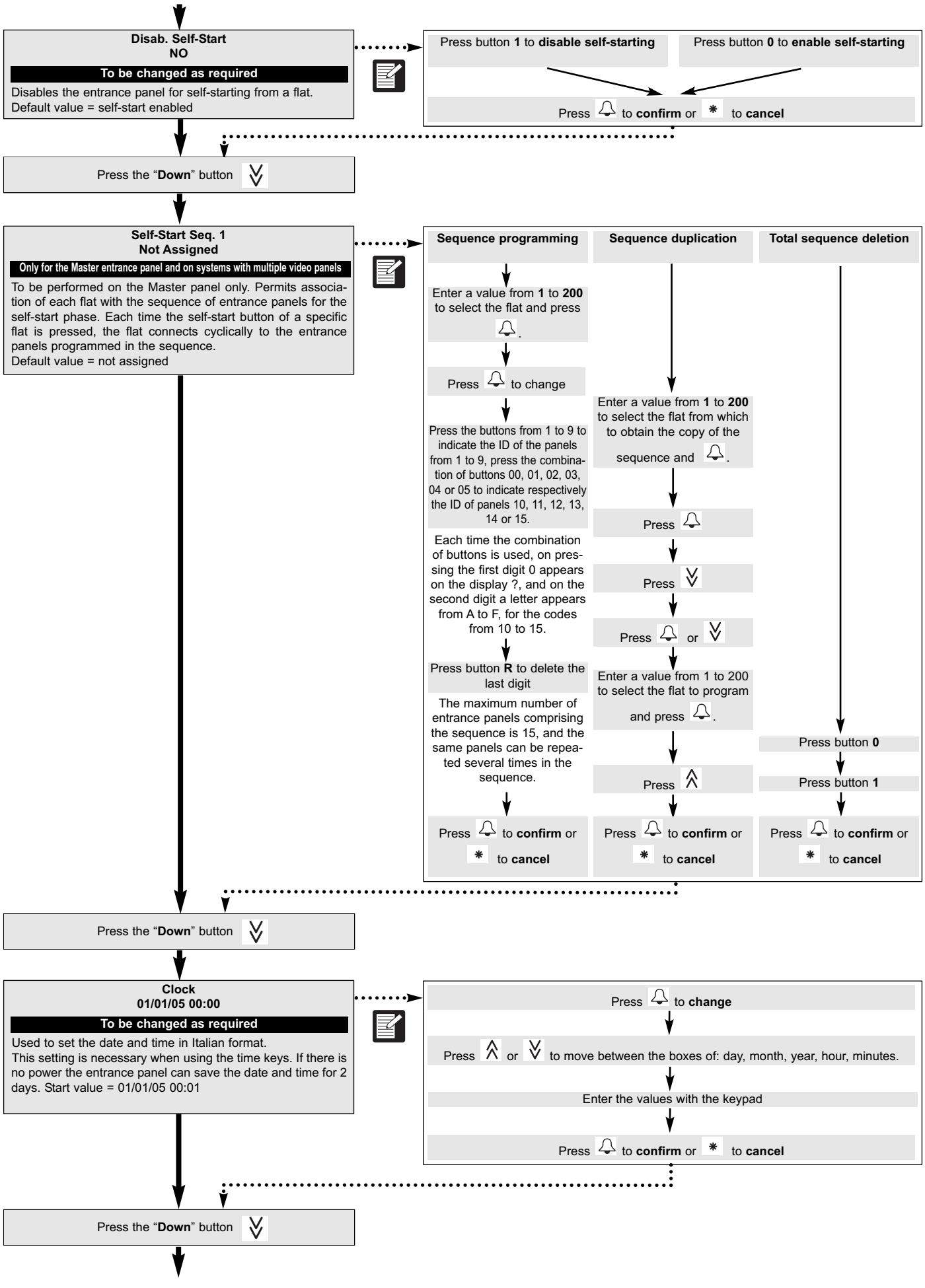
Enables activation of function F2 of the entrance panel simultaneously with activation of function F2 of another entrance panel. Each time an internal appliance sends the F2 activation command to the entrance panel specified in the parameter, the following entrance panel also activates its own function. It is possible to associate activation of the common function to 4 different entrance panels (Common 1, Common 2, Common 3, Common 4). Default value = 0 (not assigned)
minimum value 0, maximum value 15.

Press ⩚ or ⩛ to select the common function F1 (Common 1, Common 2, Common 3, Common 4).

Enter a value from 0 to 15 to indicate the ID of the associated entrance panel

Press 🔔 to **confirm** or * to **cancel**

Press the "**Down**" button ⩛


Disab. Self-Start
NO
To be changed as required
Disables the entrance panel for self-starting from a flat.
Default value = self-start enabled
Press button 1 to disable self-starting
Press button 0 to enable self-starting
Press to confirm or * to cancel
Press the "Down" button
Self-Start Seq. 1
Not Assigned
Only for the Master entrance panel and on systems with multiple video panels
To be performed on the Master panel only. Permits association of each flat with the sequence of entrance panels for the self-start phase. Each time the self-start button of a specific flat is pressed, the flat connects cyclically to the entrance panels programmed in the sequence.
Default value = not assigned
Sequence programming
Enter a value from 1 to 200 to select the flat and press .
Press to change
Press the buttons from 1 to 9 to indicate the ID of the panels from 1 to 9, press the combination of buttons 00, 01, 02, 03, 04 or 05 to indicate respectively the ID of panels 10, 11, 12, 13, 14 or 15.
Each time the combination of buttons is used, on pressing the first digit 0 appears on the display ?, and on the second digit a letter appears from A to F, for the codes from 10 to 15.
Press button R to delete the last digit
The maximum number of entrance panels comprising the sequence is 15, and the same panels can be repeated several times in the sequence.
Press to confirm or * to cancel
Sequence duplication
Enter a value from 1 to 200 to select the flat from which to obtain the copy of the sequence and .
Press
Press
Press or
Enter a value from 1 to 200 to select the flat to program and press .
Press
Press to confirm or * to cancel
Total sequence deletion
Press button 0
Press button 1
Press to confirm or * to cancel
Press the "Down" button
Clock
01/01/05 00:00
To be changed as required
Used to set the date and time in Italian format.
This setting is necessary when using the time keys. If there is no power the entrance panel can save the date and time for 2 days. Start value = 01/01/05 00:01
Press to change
Press or to move between the boxes of: day, month, year, hour, minutes.
Enter the values with the keypad
Press to confirm or * to cancel
Press the "Down" button

Timed code enable
NO

To be changed as required

Enables or disables the time services. Suspending the services does not delete the related programming.
Default value = disabled

Press button **1** to **enable the services (YES)**

Press button **0** to disable the services **(NO)**

Press 🔔 to **confirm** or * to **cancel**

Press the "**Down**" button ⩛

First time key
0

To be changed as required

Indicates the start of the window for selecting the keys to combine with the time activation service. The values between "First Time Call" and "Last Time Call" correspond to the keys of the "Lock Key", "F1 Key" and "F2 Key" parameters. These parameters can only be used in the programmed time bands. The values of the keys outside the window are always active.

Enter a value from 1 to 200. The value must be equal to or less than the "Last Time Call" parameter

Press 🔔 to **confirm** or * to **cancel**

Press the "**Down**" button ⩛

Last time key
0

To be changed as required

Indicates the end of the window for selecting the keys to combine with the time activation service. The values between "First Time Call" and "Last Time Call" correspond to the keys of the "Lock Key", "F1 Key" and "F2Key" parameters. These parameters can only be used in the programmed time bands. The values of the keys outside the window are always active.

Enter a value from 1 to 200. The value must be equal to or less than the "First Time Call" parameter

Press 🔔 to **confirm** or * to **cancel**

Press the "**Down**" button ⩛

Band 1 Mon/Fri
Begin = 00:00

To be changed as required

Sets the 4 time bands for using the keys indicated in the "First Time Call" and "Last Time Call" window. There are 2 bands for the days from Monday to Friday and 2 for the days from Saturday to Sunday.
The bands are programmable in steps of 30 minutes.

Press ⩓ (or ⩛) to select the start and end of the 4 time bands:

Band 1 Mon/Fri Start = 00:00	Band 1 Mon/Fri End = 00:00
Fascia 1 Sat/Sun Start = 00:00	Band 1 Sat/Sun End = 00:00
Fascia 2 Mon/Fri Start = 00:00	Band 2 Mon/Fri End = 00:00
Fascia 2 Sat/Sun Start = 00:00	Band 2 Sat/Sun End = 00:00

Press 🔔 to **modify**

Use the numbers on the keypad to indicate the hour and the ⩓ and ⩛ buttons to change the time in steps of 30 minutes.

Press 🔔 to **confirm** or * to **cancel**

Press the "**Down**" button ⩛

Device 1
NOT PRESENT

To be changed as required

Used to perform advanced programming of the internal audio/video door entry units connected to the system.
The type of programming depends on the type of flat and is divided into: **Flag programming, Programmable Buttons, Groups, Levels**.

Enter a value from 1 to 200 to select the flat and press 🔔

Press 🔔 to **change**

Procedure for programming Flags, Programmable Buttons, Groups and Levels

END OF SEQUENCE - PARAMETER REPETITION

Press the "**Down**" button ⩔

To move on to the next parameter it is necessary to be on Device 1

Parameters displayed according to the type of article							
8879	6209	6601/AU	6611/AU	6209+6009	6309 or 6309/P	6601	6611
				YES	YES	YES	YES
	YES	YES	YES	YES	YES	YES	YES
					YES		
					YES		
					YES		
					YES		

Procedure for programming Flags, Programmable Buttons, Groups and Levels

Device 1
Monitor Switch. ON: YES

FLAG

YES = The monitor switches on when called by the entrance panel

Press button **0** for **NO** — Press button **1** for **YES**

Press 🔔 to **confirm** or ✱ to **cancel**

Press the "**Up**" button ⩓

Device 1
Green LED: YES

FLAG

YES = the green LED is managed as a door open indicator.

Press button **0** for **NO** — Press button **1** for **YES**

Press 🔔 to **confirm** or ✱ to **cancel**

Press the "**Up**" button ⩓

Device 1
Lock: Yes

FLAG

YES = The lock button sends the open lock command.
NO = The lock button also closes the N.O. contacts on the terminal block of the device (only for art. 6309/P and 6309/CP).

Press button **0** for **NO** — Press button **1** for **YES**

Press 🔔 to **confirm** or ✱ to **cancel**

Press the "**Up**" button ⩓

Device 1
Stair Light: YES

FLAG

YES = The stairs light button sends the command to the 1st relay of the 1st auxiliary service.
NO = The stairs light button also closes the N.O. contacts on the terminal block of the device (only for art. 6309/P and 6309/CP).

Press button **0** for **NO** — Press button **1** for **YES**

Press 🔔 to **confirm** or ✱ to **cancel**

Press the "**Up**" button ⩓

Parameters displayed according to the type of article							
8879	6209	6601/AU	6611/AU	6209+6009	6309 o 6309/P	6601	6611
					YES		
YES	YES	YES	YES	YES	YES	YES	YES
YES	YES	YES	YES	YES	YES	YES	YES
	YES			YES	YES		
YES	YES	YES	YES	YES	YES	YES	YES
YES	YES	YES	YES	YES	YES	YES	YES

Procedure for programming Flags, Programmable Buttons, Groups and Levels

Device 1
Self-start: Yes
FLAG
YES = The self-start button self-starts the monitor.
NO = The self-start button also closes the N.O. contacts on the terminal block of the device (only for art. 6309/P and 6309/CP).

Press button **0** for **NO** — Press button **1** for **YES**
Press 🔔 to **confirm** or * to **cancel**

Press the "**Up**" button

Device 1
F1/F2 1-8: Yes
FLAG
YES = if the F1 / F2 push-button is programmed directly on a specific panel, only panels with ID from 1 to 8 can be programmed
NO = only panels with ID from 9 to 15.

Press button **0** for **NO** — Press button **1** for **YES**
Press 🔔 to **confirm** or * to **cancel**

Press the "**Up**" button

Device 1
SwitchBoard: Yes
FLAG
YES = the device is working in porter switchboard mode.

Press button **0** for **NO** — Press button **1** for **YES**
Press 🔔 to **confirm** or * to **cancel**

Press the "**Up**" button

Device 1
Autom. lock: NO
FLAG
YES = the device sends the lock opening command to the call from entrance panel if P6 is closed.

Press button **0** for **NO** — Press button **1** for **YES**
Press 🔔 to **confirm** or * to **cancel**

Press the "**Up**" button

Device 1
G3 ext. only: NO
FLAG
YES = group G3 (see groups) works only for the external calls..

Press button **0** for **NO** — Press button **1** for **YES**
Press 🔔 to **confirm** or * to **cancel**

Press the "**Up**" button

Device 1
G4 int. only: NO
FLAG
YES = group G4 (see groups) works only for the internal calls.

Press button **0** for **NO** — Press button **1** for **YES**
Press 🔔 to **confirm** or * to **cancel**

Press the "**Up**" button

Parameters displayed according to the type of article							
8879	6209	6601/AU	6611/AU	6209+6009	6309 o 6309/P	6601	6611
YES	YES	YES	YES	YES	YES	YES	YES
YES	YES	YES	YES	YES	YES	YES	YES
YES	YES	YES	YES	YES	YES	YES	YES
YES	YES	YES	YES	YES	YES	YES	YES
YES	YES	YES	YES	YES	YES	YES	YES
YES	YES	YES	YES	YES	YES	YES	YES

Procedure for programming Flags, Programmable Buttons, Groups and Levels

Device 1
No beep: NO
FLAG
YES = eliminates the click sound when a valid key is pressed.

Press button **0** for **NO**
Press button **1** for **YES**
Press to **confirm** or * to **cancel**

Press the "**Up**" button

Device 1
No RIPC IC: NO
FLAG
YES = does not activate the call repeated output for intercommunicating calls.

Press button **0** for **NO**
Press button **1** for **YES**
Press to **confirm** or * to **cancel**

Press the "**Up**" button

Device 1
G1 ext. only: NO
FLAG
YES = group G1 (see groups) works only for the external calls...

Press button **0** for **NO**
Press button **1** for **YES**
Press to **confirm** or * to **cancel**

Press the "**Up**" button

Device 1
G2 int. only: NO
FLAG
YES = group G2 (see groups) works only for the internal calls.

Press button **0** for **NO**
Press button **1** for **YES**
Press to **confirm** or * to **cancel**

Press the "**Up**" button

Device 1
No inter. ringer: NO
FLAG
YES = the monitor/audio door entry unit does not ring for intercommunicating calls

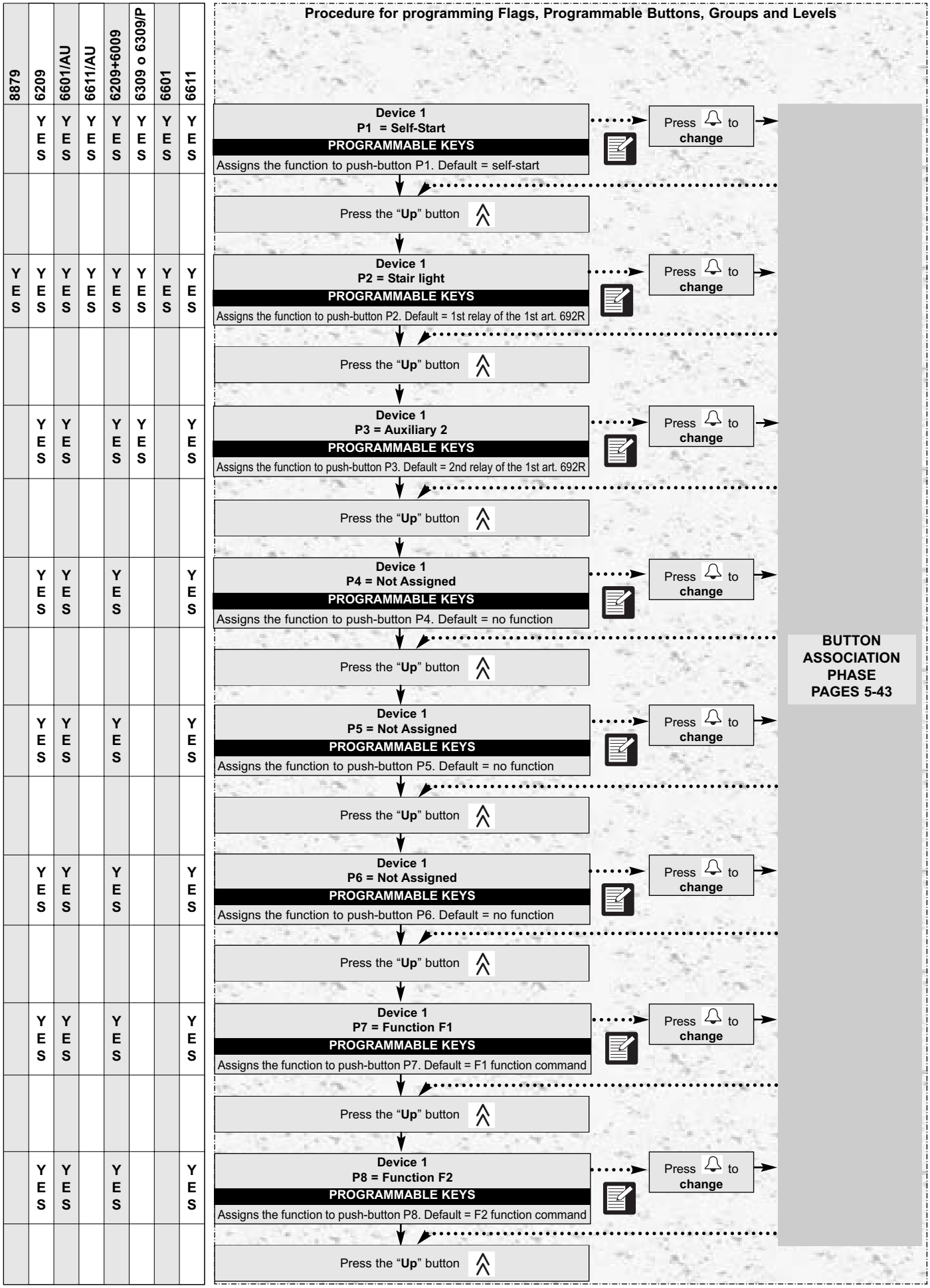
Press button **0** for **NO**
Press button **1** for **YES**
Press to **confirm** or * to **cancel**

Press the "**Up**" button

Device 1
No ext. ringer: NO
FLAG
YES = the monitor/audio door entry unit does not ring for calls from an entrance panel.

Press button **0** for **NO**
Press button **1** for **YES**
Press to **confirm** or * to **cancel**

Press the "**Up**" button


8879
6209
6601/AU
6611/AU
6209+6009
6309 o 6309/P
6601
6611
Procedure for programming Flags, Programmable Buttons, Groups and Levels
Device 1
P1 = Self-Start
PROGRAMMABLE KEYS
Assigns the function to push-button P1. Default = self-start
Press to change
Press the "Up" button
Device 1
P2 = Stair light
PROGRAMMABLE KEYS
Assigns the function to push-button P2. Default = 1st relay of the 1st art. 692R
Press to change
Press the "Up" button
Device 1
P3 = Auxiliary 2
PROGRAMMABLE KEYS
Assigns the function to push-button P3. Default = 2nd relay of the 1st art. 692R
Press to change
Press the "Up" button
Device 1
P4 = Not Assigned
PROGRAMMABLE KEYS
Assigns the function to push-button P4. Default = no function
Press to change
Press the "Up" button
Device 1
P5 = Not Assigned
PROGRAMMABLE KEYS
Assigns the function to push-button P5. Default = no function
Press to change
Press the "Up" button
Device 1
P6 = Not Assigned
PROGRAMMABLE KEYS
Assigns the function to push-button P6. Default = no function
Press to change
Press the "Up" button
Device 1
P7 = Function F1
PROGRAMMABLE KEYS
Assigns the function to push-button P7. Default = F1 function command
Press to change
Press the "Up" button
Device 1
P8 = Function F2
PROGRAMMABLE KEYS
Assigns the function to push-button P8. Default = F2 function command
Press to change
Press the "Up" button
BUTTON ASSOCIATION PHASE PAGES 5-43

8879	6209	6601/AU	6611/AU	6209+6009	6309 or 6309/P	6601	6611
YES	YES	YES	YES	YES	YES	YES	YES
YES	YES	YES	YES	YES	YES	YES	YES
YES	YES	YES	YES	YES	YES	YES	YES
YES	YES	YES	YES	YES	YES	YES	YES
		YES	YES			YES	YES

Procedure for programming Flags, Programmable Buttons, Groups and Levels

Device 1
G1 = Not Assigned
GROUPS
1st group. The following device is associated with another device, which is called “group master”. The following device is turned on with a call from the group master device.

Press to **change**
Enter a value from **1** to **200** for the group master flat.
If the value is **0** the association is removed.
Press to confirm or * to **cancel**

Press the “**Up**” button

Device 1
G2 = Not Assigned
GROUPS
2nd group. The following device is associated with another device, which is called “group master”. The following device is turned on with a call from the group master device.

Press to **change**
Enter a value from **1** to **200** for the group master flat.
If the value is **0** the association is removed.
Press to confirm or * to **cancel**

Press the “**Up**” button

Device 1
G3 = Not Assigned
GROUPS
3rd group. The following device is associated with another device, which is called “group master”. The following device is turned on with a call from the group master device.

Press to **change**
Enter a value from **1** to **200** for the group master flat.
If the value is **0** the association is removed.
Press to confirm or * to **cancel**

Press the “**Up**” button

Device 1
G4 = Not Assigned
GROUPS
4th group. The following device is associated with another device, which is called “group master”. The following device is turned on with a call from the group master device.

Press to **change**
Enter a value from **1** to **200** for the group master flat.
If the value is **0** the association is removed.
Press to confirm or * to **cancel**

Press the “**Up**” button

Device 1
Ringer Volume 7
Levels
Adjusts the volume of the call ringtone (from entrance panel, inter-communicating, outside the door).

Enter a value from **0** (minimum volume) to **7** (maximum volume).
Press to confirm or * to **cancel**

Press the “**Up**” button

8879	6209	6601/AU	6611/AU	6209+6009	6309 or 6309/P	6601	6611
		YES	YES			YES	YES
		YES	YES			YES	YES
		YES	YES			YES	YES

Procedure for programming Flags, Programmable Buttons, Groups and Levels

Device 1
Hands-free volume 2
Levels
Adjusts the speakerphone voice line volume during the conversation.

Enter a value from **0** (minimum volume) to **7** (maximum volume)..
Press 🔔 to confirm or ✱ to **cancel**

Press the "**Up**" button ⩓

Device 1
Ringtone type 1
Levels
Select the type of ringtone for calls from the entrance panel.

Enter a value from **0** to **6**
Press 🔔 to confirm or ✱ to **cancel**

Press the "**Up**" button ⩓

Device 1
Brightness 5
Levels
Sets the level of monitor brightness.

Enter a value from **0** (minimum brightness) to **7** (maximum brightness).
Press 🔔 to confirm or ✱ to **cancel**

END OF SEQUENCE - PARAMETER REPETITION

Press the "**Up**" button ⩓

HARDWARE PROGRAMMING

Press the **RESET** push-button on the electronic unit.

Within 2 seconds after pressing the RESET push-button press push-button " ⩓ " and " ⩔ " at the same time.

The following messages are shown after 2 seconds:
For EEPROM reset ***= Entrance panel type**
03781862 **03781862**
The number shown on the 2nd line will be different every time you enter the hardware programming mode.

EEPROM cancellation
Modify with care

Enter the 2nd line number and then press 🔔

Press the **"asterisk"** button ✱

Video entrance panel
For entrance panels with camera

Press 1 for "YES" and 0 for "NO"

Press "**R**" to exit the programming mode

Press the "**Up**" button ⩓

Audio entrance panel
To deactivate the audio section

Press 1 for "YES" and 0 for "NO"

Press "**R**" to exit the programming mode

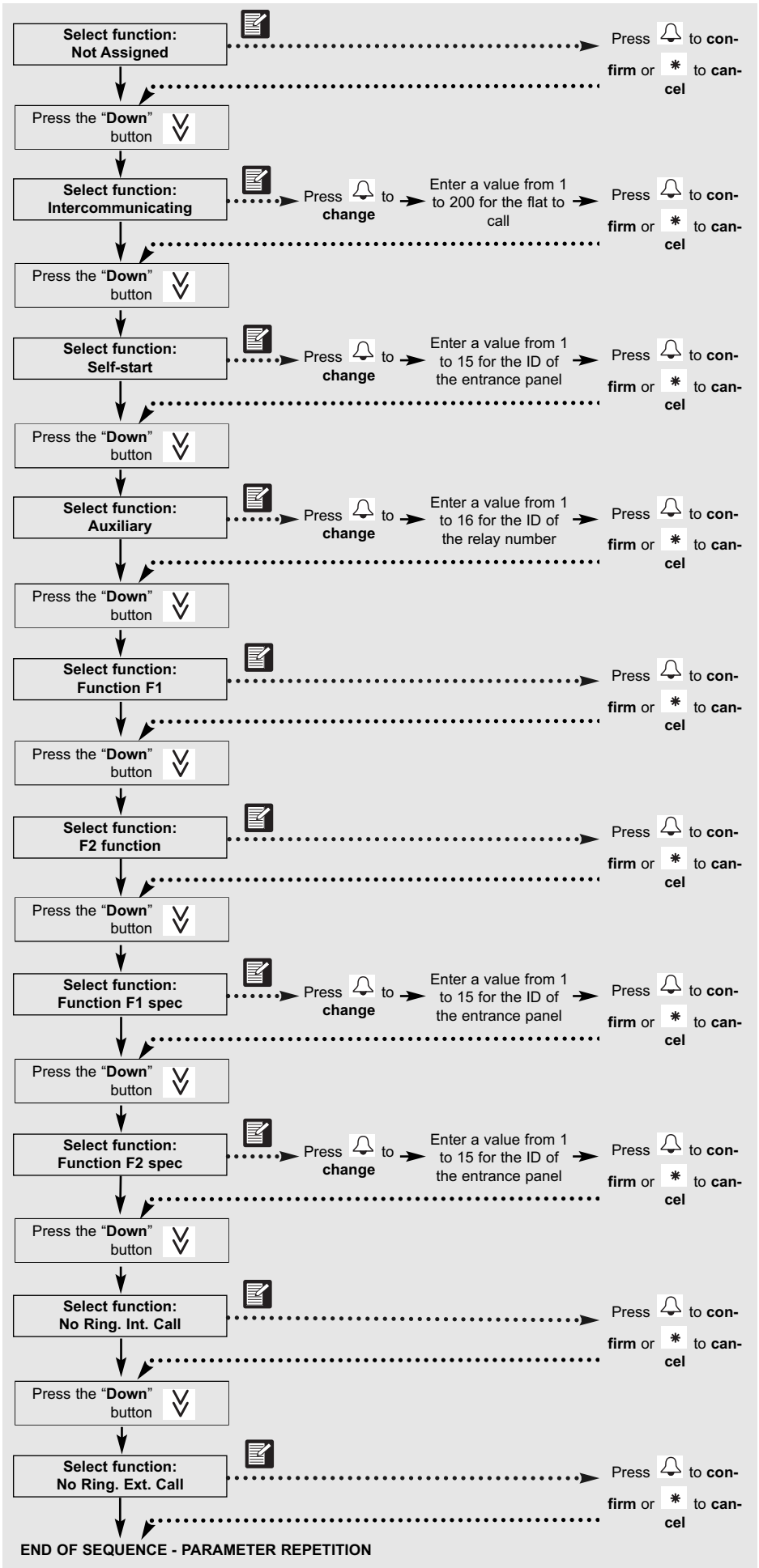
Press the "**Up**" button ⩓

Packet monitor
Dedicated for type 6921 and PC

Press 1 for "YES" and 0 for "NO"

Press "**R**" to exit the programming mode

PUSH-BUTTON ASSOCIATION PHASE



SPEECH UNIT AND CAMERAS ART. 692U, 692U/C, 69AV, 69AU

Camera settings
The following settings are available on the back of the camera:

External volume
The external volume is adjusted by means of the trimmer placed behind the camera / speech unit

Lock activation time
Adjusts the door lock release time from a minimum of 1 to a maximum of 30 seconds.

Camera activation time from call or self-start)
Adjusts the camera/speech unit activation time for the 3 modes it is configured to operate in.

MODE	MINIMUM	MAXIMUM
CALL	7.5	30
CONVERSATION	30	120
SELF-START	5	20

ASSIGNING IDENTIFICATION
The ID (entrance panel identification code) is assigned by means of 4 DIP-switches in the bottom left-hand corner of the camera (see Fig. 5-11). Each entrance panel in the same system must have a different identification code. The correlation between the position of the DIP-switches and the identifier is shown in table 5-5.
As you can see in the following table, types 692U, 692U/C, 69AV and 69AU can never be programmed as MASTER entrance panel and position 1 is used for testing in the factory.

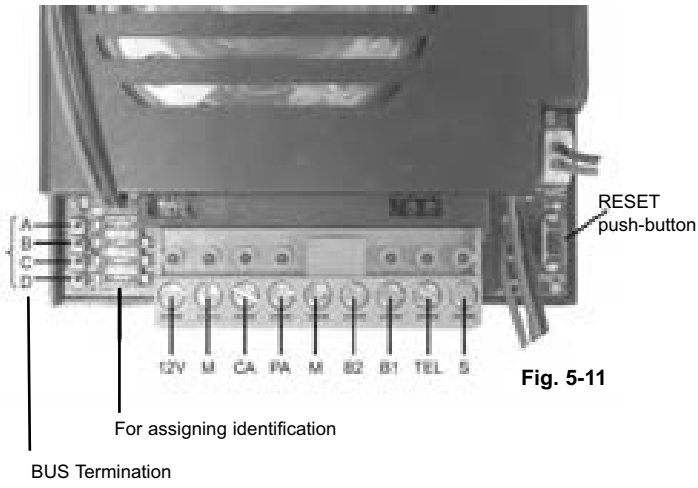


Fig. 5-11

Tab. 5-5

DIP SWITCH					ENTRANCE PANEL ID
	1	2	3	4	
					NOT ASSIGNED
	ON				TEST / ID in EEPROM
		ON			2
	ON	ON			3
			ON		4
	ON		ON		5
		ON	ON		6
	ON	ON	ON		7

DIP SWITCH					ENTRANCE PANEL ID
	1	2	3	4	
				ON	8
	ON			ON	9
		ON		ON	10
	ON	ON		ON	11
			ON	ON	12
	ON		ON	ON	13
		ON	ON	ON	14
	ON	ON	ON	ON	15

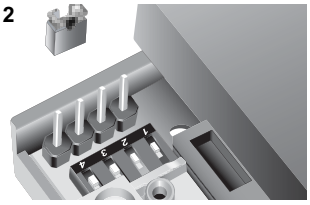
ASSIGNING THE CALL PUSH-BUTTON

- Press the Reset push-button on the camera/speech unit.
- Hold the unit's call push-button down together with the Reset push-button.
- Release the Reset button.
- After two seconds, the unit's loudspeaker emits a high-pitched tone.
- Release the call push-button within two seconds.
- From the rest state, when the handset is lifted, all the devices (interphones/video interphones) will emit a three-tone ascending scale through the loudspeaker.
- As of this moment, you have 25 seconds to press any push-button on the interphone/video interphone which you intend to assign to the call push-button: an actuator control push-button (usually the stair light control, function F1 or F2) or as a last resort, the door lock release push-button.
- When this is done, a low-pitched tone is emitted by the camera/speech unit loudspeaker. The same sound is emitted when the timeout elapses. **IMPORTANT: IF YOU USE THE DOOR LOCK RELEASE PUSH-BUTTON, THE LOCK CONNECTED TO AN ENTRANCE PANELMAYBE OPENED.**

BUS termination

In the bottom left-hand corner of the camera is a connector with 4 positions (Fig. 5-12).
A jumper in one of the three possible positions (A-B, B-C, C-D), terminates the bus correctly for the video signal. Experiment to determine the optimum compromise which provides best overall vision from all the entrance panels in the system.

Fig. 5-12



Programming

Units type 692U, 692U/C, 69AV and 69AU must be programmed using the programmer type 950C connected to a connector present inside the camera/speech unit. To access the connector, open the camera or speech unit by means of the screws on the rear side.
To scroll the parameters and modify their value, use only the programmer keypad.
To exit the programming phase, press the **EXIT** push-button. The unit also exits the programming phase when the output time interval of 30 seconds elapses, followed by the emission of a low tone for 1 second. The time is extended for a further 30 seconds when a valid push-button is pressed.
The modification of a specific parameter does not require the reprogramming of the other parameters, it is enough to modify the parameter concerned after accessing it by using the programmer push-buttons.

ENTER PROGRAMMING MODE

Connect the programmer to the entrance panel, powered, by means of the wiring.

Wait for the message: **Program Config**

Repeatedly press the **"Up"** button until the message: **Select Function: Terminal Mode**

Press the **OK** button on the programmer

Wait for parameter 1 to be displayed

Editing phase

Passing flow between parameters

Parameter editing flow

Message language
Italian

To be changed as required

Used to select the message viewing language

Press button **1 for Italian**

Press button **2 for other language (English)**

Press **OK** to confirm or **EXIT** to **cancel**

Press the **"Down"** button

ID Panel
1

To be changed as required

Indicates the number of the flat to call with the entrance panel button.

Enter a value from **1 to 200**

Press **OK** to confirm or **EXIT** to **cancel**

Press the **"Down"** button

LOCK BLOCK
NO

To be changed as required

Activation of the lock block enables control of the lock only when the panel is in call, conversation or self-start status.
Default value = block disabled

Press button **1** to **activate the block**

Press button **0** to **deactivate the block**

Press **OK** to **confirm** or **EXIT** to **cancel**

Press the **"Down"** button

Dis/Enable 1

In building complex systems with multiple entrance panels

Used to activate the lock, of functions F1 and F2 of the entrance panel, by a specific internal appliance (audio/video door entry unit), when the latter is engaged (conversation) with another entrance panel.
Default value = disabled for all 200 flats (------).

Enter a value from **1** to **200** to select the flat and press **OK**
or
press the "**Up**" button to select the flat.

Press **OK** to **confirm** or **EXIT** to **cancel**

Press 1 to enable/disable the lock (Se----)

Press **OK** to **confirm** or **EXIT** to **cancel**

Press the **"Down"** button

Tone in panel
Yes

To be changed as required

Enables repetition of the call ringtone in the loudspeaker of the panel, from the panel where the call is being made.
Default value = enabled

Press button 1 to activate the sound

Press button 0 to deactivate the sound

Press **OK** to **confirm** or **EXIT** to **cancel**

Press the **"Down"** button

Ring cycle Num
2

To be changed as required

To be programmed at the user's discretion. This is the number of times that the call is repeated in the video/audio door entry unit when a call push-button is pressed.
Default value = 2 times,
minimum value 1, maximum value 20.

Enter a value from 1 to 20 cycles

Press **OK** to **confirm** or **EXIT** to **cancel**

Press the **"Down"** button

Common Lock 1
Not Assigned

To be changed as required

Enables activation of the entrance panel lock as the lock of another entrance panel is opened. Each time an internal appliance sends the open lock command to the entrance panel specified in the parameter, the following entrance panel also activates its own lcok. It is possible to associate common lock opening to 4 different entrance panels (Com. 1, Com. 2, Com 3, Com. 4). Default value = 0 (not assigned)
minimum value 0, maximum value 15.

Press the "**Up**" button to select the common lock (Com. 1, Com. 2, Com 3, Com. 4).

Press **OK** to **confirm** or **EXIT** to **cancel**

Enter a value from 0 to 15 to indicate the ID of the associated entrance panel

Press **OK** to **confirm** or **EXIT** to **cancel**

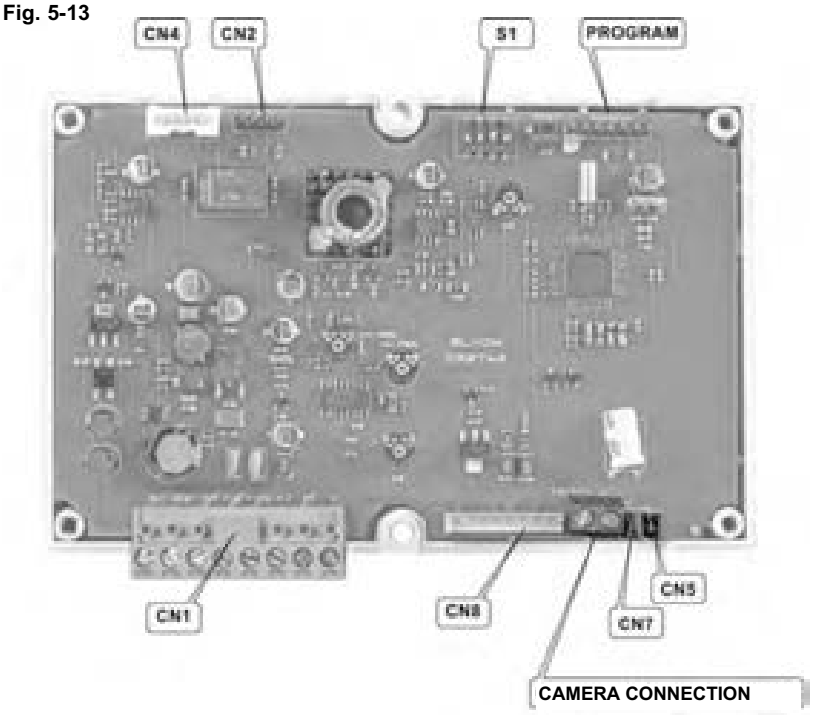
END OF SEQUENCE - PARAMETER REPETITION

Press the **"Down"** button

INTERFACE ART. 69AV/M
ID assignment

Each interface type 69AV/M connected to a Two-Wire installation must identified with a different code.
The code must also be different from the ID of the electronic entrance panels and from the ID of the external cameras and speech units on the outdoor panels, up to a maximum of 15 devices including electronic entrance panels, outdoor cameras, outdoor speech units and interfaces type 69AV/M. The ID is assigned using 4 dip switches S1 located on the top right-hand side of the circuit board, on the outside of to the box (see Fig. 5-13).

Fig. 5-13



The correspondence between the position of the dip switches and relative ID is specified in the table below:

Tab. 5-6

DIP SWITCH					ENTRANCE PANEL ID
	1	2	3	4	
					NOT ASSIGNED
	ON				TEST / ID in EEPROM
		ON			2
	ON	ON			3
			ON		4
	ON		ON		5
		ON	ON		6
	ON	ON	ON		7

DIP SWITCH					ENTRANCE PANEL ID
	1	2	3	4	
				ON	8
	ON			ON	9
		ON		ON	10
	ON	ON		ON	11
			ON	ON	12
	ON		ON	ON	13
		ON	ON	ON	14
	ON	ON	ON	ON	15

Programming

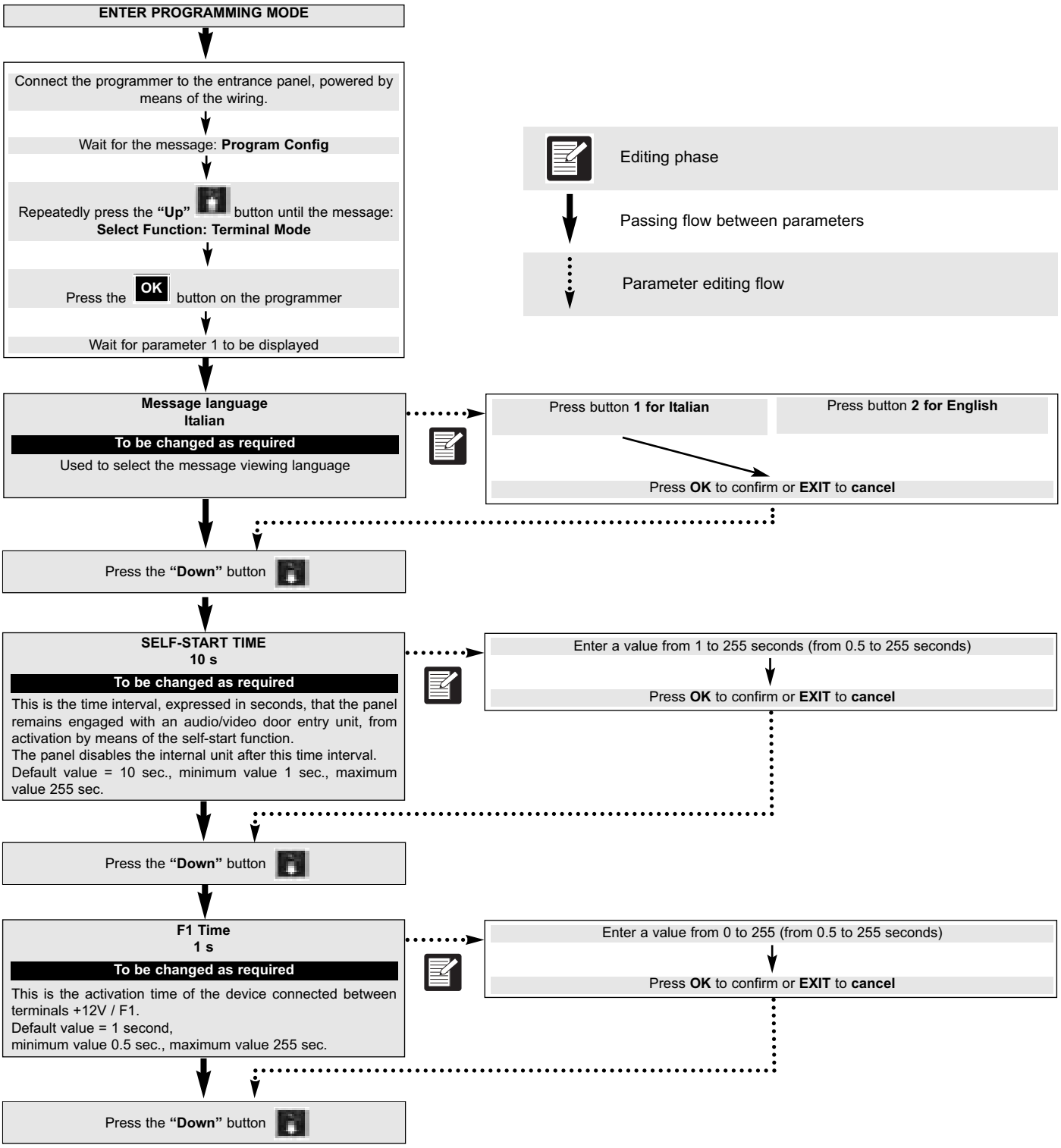
Interface type 69AV/M must be programmed using programmer type 950C connected to CN4 located at the top left-hand side. The CN4 connector is also accessible from outside of the cover (see Fig. 5-13).

To move between the parameters and edit their value, use the programmer keypad only.

To exit programming mode, press the **EXIT** button. The unit also exits the programming phase when the output time interval of 30 seconds elapses, followed by the emission of a low tone for 1 second. The time is extended for a further 30 seconds when a valid push-button is pressed.

Changing a specific parameter does not require the others to be reprogrammed; it is sufficient to modify the relevant parameter after accessing it with the programmer buttons.

In order to use the interface type 69AV/M in a video interphone, it is necessary to program the "Self-Start Seq." parameter (entrance panel self-start sequence), taking into account the ID assigned to interface 69AV/M.



F2 Time
1 s

To be changed as required

This is the activation time of the device connected between terminals +12V / F2.
Default value = 1 second,
minimum value 0.5 sec., maximum value 255 sec.

Enter a value from 0 to 255 (from 0.5 to 255 seconds)

Press **OK** to confirm or **EXIT** to **cancel**

Press the **"Down"** button

Common F1 1
Not Assigned

To be changed as required

Enables activation of function F1 of the entrance panel simultaneously with activation of function F1 of another entrance panel. Each time an internal appliance sends the F1 activation command to the entrance panel specified in the parameter, the following entrance panel also activates its own function. It is possible to associate activation of the common function to 4 different entrance panels (Common 1, Common 2, Common 3, Common 4). Default value = 0 (not assigned)
minimum value 0, maximum value 15.

Press the "**Up**" button to select the common F1 function (Common 1, Common 2, Common 3, Common 4).

Press **OK** to **confirm** or **EXIT** to **cancel**

Enter a value from 0 to 15 to indicate the ID of the associated entrance panel

Press **OK** to **confirm** or **EXIT** to **cancel**

Press the **"Down"** button

Common F2 1
Not Assigned

To be changed as required

Enables activation of function F2 of the entrance panel simultaneously with activation of function F2 of another entrance panel. Each time an internal appliance sends the F2 activation command to the entrance panel specified in the parameter, the following entrance panel also activates its own function. It is possible to associate activation of the common function to 4 different entrance panels (Common 1, Common 2, Common 3, Common 4). Default value = 0 (not assigned)
minimum value 0, maximum value 15.

Press the "**Up**" button to select the common F1 function (Common 1, Common 2, Common 3, Common 4).

Press **OK** to **confirm** or **EXIT** to **cancel**

Enter a value from 0 to 15 to indicate the ID of the associated entrance panel

Press **OK** to **confirm** or **EXIT** to **cancel**

Press the **"Down"** button

Number of Video Cameras
0

In relation to the connected video cameras

Refers to the number of video cameras connected to art. 69AV/M or to modules art. 69AV/4 that must be scanned.
If the value is 0, It only considers the video camera connected to art. 69AV/M. If the value is 1 or higher it considers only the video cameras connected to the supplementary modules art. 69AV/4. Default value = 0
minimum value 0., maximum value 99.

Enter a value from 0 to 99 seconds

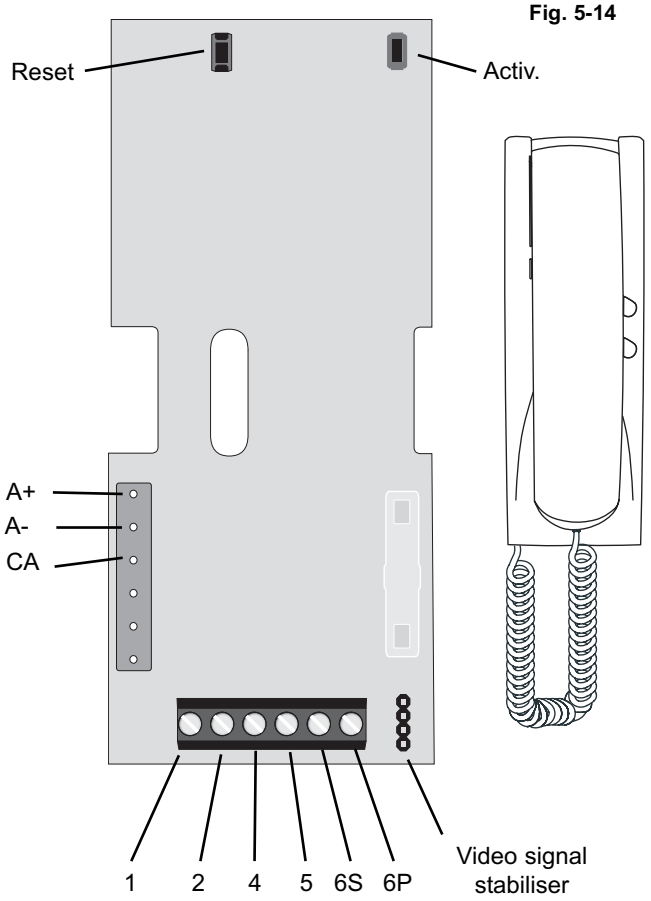
Press **OK** to **confirm** or **EXIT** to **cancel**

END OF SEQUENCE - PARAMETER REPETITION

Press the **"Down"** button

PHONE ART. 8879

Fig. 5-14



Controls
The call volume can be adjusted by moving the loudspeaker wire from connector A+ (high) to A- (low).

PROGRAMMING
There are three interphone programming modes: assignment of an identification code or call code (indispensable), assignment of a secondary identification code (for interphones associated with a master interphone), programming of push-buttons for auxiliary services and intercommunicating calls (when necessary). Programmings must be carried out with the installation switched ON, without active communication and only after having connected the interphones/video interphones to the installation and programmed the entrance panels.

Identification code programming
The identification code is programmed via an entrance panel (MASTER), already configured and present on the system.
The interphone is supplied without an associated identification code. To verify this condition, press the lock release push-button and the interphone should emit a triple “Beep”.

Programming phase:
1) Remove the interphone cover.
2) Press and hold the RESET push-button on the interphone.
3) Press and hold the tab on the lock release push-button, together with the RESET push-button.
4) Release the RESET push-button, keeping the lock release push-button pressed.
5) After 2 seconds the interphone emits a high tone and communication is enabled with the panel.
6) Release the tab of the lock release push-button.
7) On push-button entrance panels, press the call button for the interphone: on alphanumeric keypads, enter the call code and press push-button “🔔”.
8) If the system contains an interphone that already has the same associated identification code, the panel emits a low signal and the operation should be repeated from point 2.
9) Otherwise the code is associated with the interphone and communication is terminated.

Secondary identification code programming
Programming of the secondary identification code is only required when more than one interphone is to be called by means of the same push-button or call code. The interphones that ring at the same time are associated with the same group. The “master” interphone is programmed first by means of the “identification code programming” procedure described above, while the additional group interphones are programmed with the secondary identification code.

A maximum of four interphones (1 main and 3 secondary) can be associated with the same group, without the need for programmer type 950C.

Programming phase:
1) Remove the interphone cover.
2) Press and hold the RESET push-button on the interphone.
3) Press and hold the tab on the lock release push-button and the self start/auto-activation push-button (ACTIV.-top right-hand side), together with the RESET push-button.
4) Release the RESET push-button, keeping the other two push-buttons pressed.
5) After 2 seconds the interphone emits a high-pitched tone and communication is enabled with the panel.
6) Release the tab on the lock release push-button and the self start push-button.
7) On push-button entrance panels, press the call button for the “master” interphone (already programmed), while on alphanumeric keypads, enter the call code of the “master” interphone and press push-button “🔔”.
8) When the secondary code is associated with the interphone, communication is terminated.

Push-button programming
The interphone is supplied with a push-button for the functions auxiliary service “stair light”, which activates the 1st relay of the 1st actuator (type 692R or 69RH).

To change the operating mode of the push-button, use programmer type 950C, except when programming the push-button for intercommunicating calls or for the self-start service associated with a specific panel.
If a push-button is programmed for a specific function, the interphone emits a “Click” when pressed; otherwise it does not emit any signal.

Intercommunicating call push-button programming
Programming phase:
1) **Raise the handset of the interphone or monitor to be called.**
2) Remove the cover of the interphone to be programmed.
3) Press and hold the RESET push-button on the interphone.
4) Press and hold the stair light push-button to make the intercommunicating call together with the RESET push-button.
5) Release the RESET push-button, keeping the stair light push-button pressed.
6) After 2 seconds the interphone emits a high-pitched tone, while the other interphone emits a 3-tone ascending scale.
7) Release the stair light push-button.
8) On the interphone called (with the 3-tone ring), press one of the programmed push-buttons (such as lock release, F1 or F2).
9) A high tone confirms the end of the procedure.

Programming the self-start push-button to a specific panel.
Programming phase:
1) Remove the interphone cover.
2) Press and hold the RESET push-button on the interphone.
3) Press and hold the stair light push-button together with the RESET push-button.
4) Release the RESET push-button, keeping the stair light push-button pressed.
5) After 2 seconds the interphone emits a high tone.
6) Release the self start push-button.
7) On push-button entrance panels, press the call button for the interphone, while on alphanumeric keypads, enter the call code and press push-button "🔔".
8) A high tone confirms the end of the procedure.

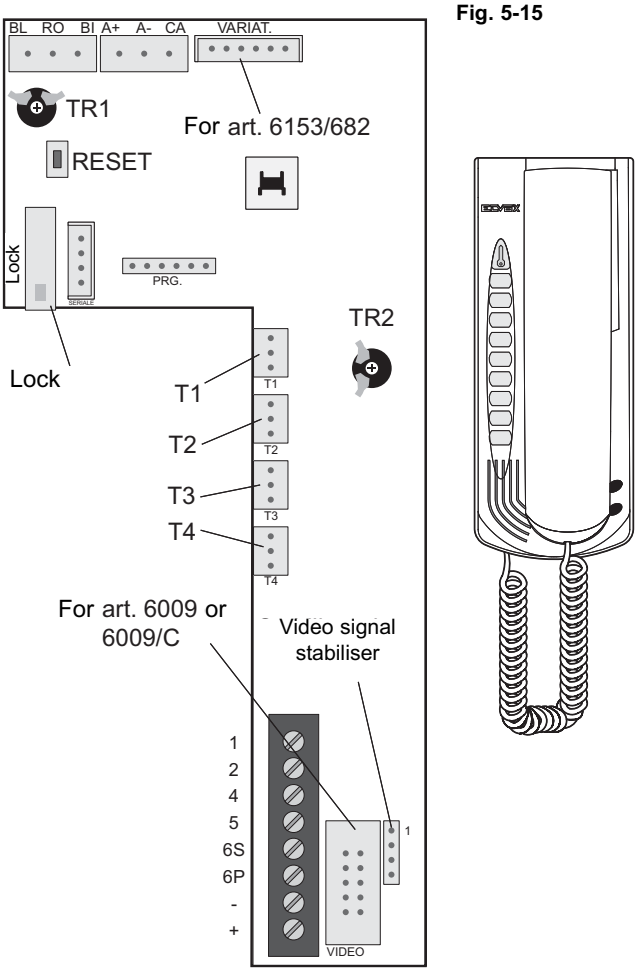
Restoring default values of push-button.
Programming phase:
1) Remove the interphone cover.
2) Press and hold the RESET push-button on the interphone.
3) Press and hold the relative stair light push-button together with the RESET push-button.
4) Release the RESET push-button, keeping stair light push-button pressed.
5) After 2 seconds the interphone emits a high-pitched tone.
6) Release the stair light push-button and then press again.

Deleting all settings.
Programming phase:
1) Remove the interphone cover.
2) Press and hold the RESET push-button on the interphone.
3) Press and hold the self-start push-button (ACTIV) together with the RESET push-button.
4) Release the RESET push-button, keeping the self-start push-button pressed.
5) After 2 seconds the interphone emits a continuous tone for two seconds.
6) Release the self-start push-button.
7) During the continuous tone, press the tab on the lock release push-button.

If the deletion procedure is successful, when the lock release tab is pressed the interphone emits a triple "Beep".

PHONE ART. 6209

Fig. 5-15



TR1, TR2) Do not touch, trimmers already set by the manufacturer.

Controls
The call volume can be adjusted by moving the loudspeaker wire from connector A+ (high) to A- (low); otherwise use accessory type 6153/682, leaving the loudspeaker wire connected to connector A-.

PROGRAMMING
There are three interphone programming modes: assignment of an identification code or call code (necessary), assignment of a secondary identification code (for interphones associated with a master interphone), programming of push-buttons for auxiliary services and intercommunicating calls (when necessary).
Programming must be performed with the system switched on, without active communication and only after connecting the interphones/monitors to the system and programming the panels.

Identification code programming
The identification code is programmed via an entrance panel (MASTER), already configured and present on the system.
The interphone is supplied without an associated identification code. To verify this condition, press the lock release push-button and the interphone should emit a triple "Beep".

Programming phase:
1) Remove the interphone cover.
2) Press and hold the RESET push-button on the interphone.
3) Press and hold the tab on the lock release push-button, together with the RESET push-button.
4) Release the RESET push-button, keeping the lock release push-button pressed.
5) After 2 seconds the interphone emits a high-pitched tone and communication is enabled with the panel. If the monitor is also connected to the interphone, it is switched on and connected to the camera of the entrance panel.
6) Release the tab of the lock release push-button.
7) On push-button entrance panels, press the call button for the interphone: on alphanumeric keypads, enter the call code and press push-button "🔔".
8) If the system contains an interphone that already has the same associated identification code, the panel emits a low signal and the operation should be repeated from point 2.
9) Otherwise the code is associated with the interphone and communication is terminated.

Secondary identification code programming
Programming of the secondary identification code is only required when more than one interphone is to be called by means of the same push-button or call code. The interphones that ring at the same time are associated with the same group. The "master" interphone is programmed first by means of the "identification code programming" procedure described above, while the additional group interphones are programmed with the secondary identification code.

A maximum of 4 interphones can be associated with the same group, without the need for programmer type 950C.
If the interphones are combined with Petrarca monitors, an additional power supply type 6923 must be fitted for each additional monitor after the second monitor. Using programmer type 950C, activation of the ringtone on all monitors can be programmed, without simultaneous activation of all monitors, to then enable it is possible to programme the activation of the ringtone without simultaneous activation of all the monitors. In this way, the monitor can be activated by the self-start push-button on the interphone used to answer the call, thus avoiding the need for additional power supplies.

Programming phase:
1) Remove the interphone cover.
2) Press and hold the RESET push-button on the interphone.
3) Press and hold the tab on the lock release push-button and the self start/auto-activation push-button (the first push-button below the tab), together with the RESET push-button.
4) Release the RESET push-button, keeping the other two push-buttons pressed.
5) After 2 seconds the interphone emits a high-pitched tone and communication is enabled with the panel. If the monitor is also connected to the interphone, it is switched on and connected to the camera of the entrance panel.
6) Release the tab on the lock release push-button and the self start push-button.
7) On push-button entrance panels, press the call button for the "master" interphone (already programmed): on alphanumeric keypads, enter the call code of the "master" interphone and press push-button "🔔".
8) When the secondary code is associated with the interphone, communication is terminated.

Push-button programming
The interphone is supplied with a pair of additional push-buttons type 692P, for the functions self start and the auxiliary service "stair light", which activates the 1st relay of the 1st actuator (type 692R), if connected to the system. A further three pairs of push-buttons type 692P can be inserted in the interphone, to be connected to connectors T2-T3-T4, corresponding to the following default functions.

Push-button	Connector	Default function
1	T1	Self-start
2	T1	Stair light (1st relay of 1st actuator, type 69RH or 692R)
3	T2	Auxiliary (2nd relay of 1st actuator, type 69RH or 692R)
4°	T2	Not associated
5°	T3	Not associated
6°	T3	Not associated
7°	T4	Function F1 on panel
8°	T4	Function F2 on panel

To change the operating mode of the 8 push-buttons, use programmer type 950C, with the exception of programming intercommunicating push-buttons and the push-button for the self-start service associated with a specific panel.
If a push-button is programmed for a specific function, the interphone emits a "Click" when pressed; otherwise it does not emit any signal.

Intercommunicating call push-button programming
Programming phase:
1) **Raise the handset of the interphone or monitor to be called.**
2) Remove the cover of the interphone to be programmed.
3) Press and hold the RESET push-button on the interphone.
4) Press and hold the additional push-button to make the intercommunicating call together with the RESET push-button.
5) Release the RESET push-button, keeping the call push-button pressed.
6) After 2 seconds the interphone emits a high-pitched tone, while the other interphone emits a 3-tone ascending scale.
7) Release the intercommunicating call push-button.
8) On the interphone called (with the 3-tone ring), press one of the programmed push-buttons (such as lock release, F1 or F2).
9) A high-pitched tone confirms the end of the procedure.

Repeat the same procedure for the other interphones and any other intercommunicating call push-buttons.

Programming the self-start push-button to a specific panel.
Programming phase:
1) Remove the interphone cover.
2) Press and hold the RESET push-button on the interphone.
3) Press and hold the additional push-button to activate the self-start function together with the RESET push-button.
4) Release the RESET push-button, keeping the self-start push-button pressed.
5) After 2 seconds the interphone emits a high tone.
6) Release the self-start push-button.
7) On push-button entrance panels, press the call button for the interphone, while on alphanumeric keypads, enter the call code and press push-button "🔔".
8) A high-pitched tone confirms the end of the procedure.

Restoring default values of push-buttons.
Programming phase:
1) Remove the interphone cover.
2) Press and hold the RESET push-button on the interphone.
3) Press and hold the relative push-button to be reprogrammed together with the RESET push-button.
4) Release the RESET push-button, keeping the other push-button pressed.
5) After 2 seconds the interphone emits a high tone.
6) Release the push-button to restore to default and then press again.

Deleting all settings
Programming phase:
1) Remove the interphone cover.
2) Press and hold the RESET push-button on the interphone.
3) Press and hold the self start push-button together with the RESET push-button.
4) Release the RESET push-button, keeping the self-start push-button pressed.
5) After 2 seconds the interphone emits a continuous tone for two seconds.
6) Release the self-start push-button.
7) During the continuous tone, press the tab on the lock release push-button.

If the deletion procedure is successful, when the lock release tab is pressed the interphone emits a triple “Beep”.

VIDEO INTERPHONES ART. 6309, 6309/C

Fig. 5-16

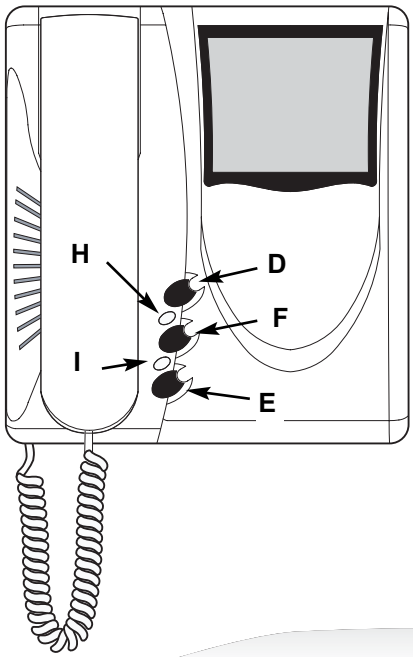
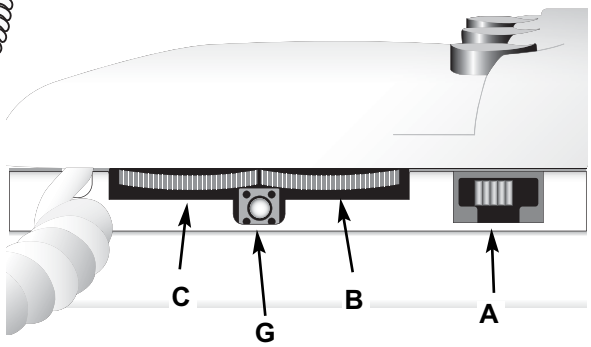


Fig. 5-17



Controls and adjustments (Fig. 5-16, 5-17)
A - Ringtone volume and mute control.
B - Brightness control.
C - Contrast control.
D - Lock release push-button .
E - System self-start push-button .
F - Push-button for auxiliary service, 1st relay of 1st actuator type 69RH (or Art. 692R).

When the push-buttons and are pressed together, a second auxiliary service is activated, 2nd relay of 1st actuator type 69RH (or Art. 692R).
G - RESET push-button for monitor programming.
H - Ringtone mute LED. The fixed light illuminates when the ringtone mute is enabled by means of slider "A" and flashes when calls have been denied (red led).
I - Door open LED. On systems in which this function is used, the LED remains lit permanently when the door/gate is open (green LED).

PROGRAMMING
There are three monitor programming modes: assignment of an identification code or call code (necessary), assignment of a secondary identification code (for monitors associated with a master monitor), programming of push-buttons for auxiliary services and intercommunicating calls (when necessary).
Programming must be performed with the system switched on, without active communication and only after connecting the interphones/monitors to the system and programming the panels.

N.B. all the programming or deletion phases must be carried out with the handset of the interphone or monitor raised.

Identification code programming
The identification code is programmed via an entrance panel (MASTER), already configured and present on the system.
The monitor is supplied without an associated identification code. To verify this condition, press the lock release push-button and the monitor should emit a triple “Beep”.

Programming phase:
1) Lift the handset
2) Press and hold the RESET push-button “G” present below the monitor (see Fig 3).
3) Press and hold the lock release push-button “D” together with the RESET push-button “G”.
4) Release the RESET push-button “G”, keeping the lock release push-button “D” pressed.
5) After 2 seconds the monitor emits a high tone, the monitor switches on and communication is enabled with the panel.
6) Release the lock push-button “D”.
7) On push-button entrance panels, press the call button for the monitor: on alphanumeric keypads, enter the call code and press push-button “ ”.
8) If the system contains a monitor that already has the same associated identification code, the panel emits a low signal and the operation should be repeated from point 3.
9) Otherwise the code is associated with the monitor, communication is terminated and the monitor switches OFF.

Secondary identification code programming
Programming of the secondary identification code is only required when more than one monitor is to be called by means of the same push-button or call code. The monitors that ring at the same time are associated with the same group. The “master” monitor is programmed first by means of the “identification code programming” procedure described above, while the additional group monitors are programmed with the secondary identification code.

A maximum of 4 monitors can be associated with the same group, without the need for programmer type 950C.
In case monitors Petrarca are associated to the interphones, it is necessary to add an additional power supply type 6923 for any possible additional monitor. Programmer type 950C can be used to program the activation of the ringtone on all monitors and the switching on of the “master” monitor. If someone answers from a secondary monitor, the respective monitor can be switched on using the self-start push-button “ ”.

Programming phase:
1) Lift the handset
2) Press and hold the RESET push-button “G” present below the monitor (see Fig 3).
3) Press and hold the lock release push-button “D” and self-start push-button □ “E”, together with the RESET push-button “G”.
4) Release the RESET push-button “G”, keeping the other two push-buttons pressed (D end E).
5) After 2 seconds the monitor emits a high tone, the monitor switches on and communication is enabled with the panel.
6) Release the lock release push-button “D” and self-start push-button “E”.
7) On push-button entrance panels, press the call button for the “master” monitor (already programmed), while on alphanumeric keypads, enter the call code of the “master” interphone and press push-button “🔔”.
8) When the secondary code is associated with the monitor the communication is terminated and the monitor switches off.

Push-button programming
The monitor is fitted with three push-buttons for the functions lock release, self-start and the auxiliary service “stair light”, which activates the 1st relay of the 1st actuator 69RH (or type 692R), if connected to the system.

To change the operating mode of the self-start push-button and auxiliary service “stair light” use programmer type 950C, except when assigning the intercommunicating call function.

During push-button programming the ringtone volume control must not be in the ringtone mute position.

Intercommunicating call push-button programming
Programming phase:
1) Raise the handset of the interphone or monitor to be called.
2) Press and hold the RESET push-button “G” present below the monitor (see Fig. 5-17) to be called.
3) Press and hold the additional push-button to make the intercommunicating call together with the RESET push-button “G”.
4) Release the RESET push-button “G”, keeping the call push-button pressed.
5) After 2 seconds the monitor emits a high-pitched tone, while the other interphone/monitor emits a 3-tone ascending scale.
6) Release the intercommunicating call push-button.
7) On the interphone/monitor called (the one with the 3-tone ring), press one of the programmed push-buttons (such as lock release, F1 or F2).
8) A high-pitched tone confirms the end of the procedure.

Repeat the same procedure for the other interphones/monitors and any other intercommunicating call push-buttons.

PROGRAMMING THE SELF-START PUSH-BUTTON TO A SPECIFIC ENTRANCE PANEL

With this procedure it is possible to activate only push-button “ ”. The default push-button “□” activates the self-start of the main entrance panel (master); alternatively, it can be programmed only by means of programmer 950C to activate the self-start of another entrance panel (slave).

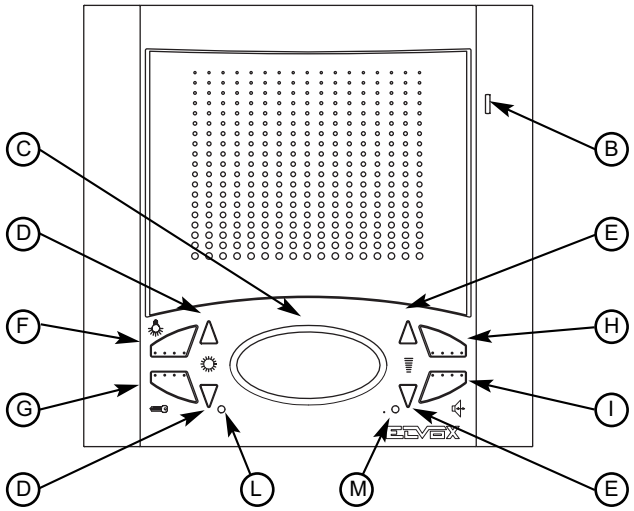
Programming phase:
1) Lift the handset
2) Press and hold the push-button to activate the self-start function together with the RESET push-button “G”.
3) Release the RESET push-button “G”, keeping the self-start push-button “E” pressed.
4) After 2 seconds the monitor emits a high-pitched tone.
5) Release the self-start push-button “E”.
6) On push-button entrance panels, press the call button for the monitor: on alphanumeric keypads, enter the call code and press push-button “🔔”.
7) A high-pitched tone confirms the end of the procedure.

Restoring default values of push-buttons.
Programming phase:
1) Press and hold the RESET push-button “G” present below the monitor (see Fig 3).
2) Press and hold the relative push-button to be reprogrammed together with the RESET push-button “G”.
3) Release the RESET push-button “G”, keeping the other push-button pressed.
4) After 2 seconds the interphone emits a high tone.
5) Release the push-button to restore to default and then press again.

Deleting all settings.
Programming phase:
This procedure is recommended when you want to change the ID of a previously programmed interphone/monitor without retaining its programming parameters.
1) Press and hold the RESET push-button “G” present below the monitor (see Fig 3).
2) Press and hold the self-start push-button □ “E” together with the RESET push-button “G”.
3) Release the RESET push-button “G”, keeping the self-start push-button “E” pressed.
4) After 2 seconds the monitor emits a continuous tone for two seconds.
5) Release the self-start push-button “E”.
6) During the continuous tone, press the lock release push-button “D”.

If the deletion procedure is successful, when the lock release tab is pressed the monitor emits a triple “Beep”.

PHONE ART. 6601/AU, 660C/AU, 6701/AU.



Controls and adjustments

B) Microphone.

C) Loudspeaker.

D) **Pair of push-buttons.**
2) When the interphone is ON, the push-buttons can be used to select the tune for calls from a speech unit only. To program the tune: hold down 1 of the 2 push-buttons for at least 1 second, then press the push-buttons repeatedly to select the desired tune.

E) **Pair of push-buttons.**
1) During conversation, with push-button "**I**" pressed, press push-buttons "E" to increase or decrease the volume of the internal voice line.
2) To adjust ringtone volume: hold down 1 of the 2 push-buttons "E" for at least 1 second, then press the push-buttons repeatedly to increase or reduce ringtone volume, or mute the ringtone.

F) **Push-button** for auxiliary service, 1st relay of 1st actuator type 69RH.

G) Push-button : for door lock release.

H) Push-button : for self-start of the interphone without the latter being called.

I) Two-channel talk/listen push-button: after the interphone has been called and/or self-started, hold down the push-button for conversation with the entrance panel. 5 seconds after the push-button is released, the interphone is disconnected. If it is pressed again before 5 seconds has elapsed, conversation can continue.
In models …/**F** press the push-button once to activate the audio. Pressing it once again the conversation terminates.

L) 'Door open' LED: in installations with this feature, the LED remains lit when the door/gate is open

M) 'Ringtone mute' LED: the LED illuminates when the ringtone has been muted (see point "E") and flashes when calls have been denied.

PROGRAMMING

There are three monitor programming modes: assignment of an identification code or call code (necessary), assignment of a secondary identification code (for interphones associated with a master video interphone), programming of push-buttons for auxiliary services and intercommunicating calls (when necessary).
Programming must be performed with the system switched on, without active communication and only after connecting the interphones/video interphones to the system and programming the entrance panels.

Identification code programming

The identification code is programmed via an entrance panel (MASTER), already configured and present on the system.
The interphone is supplied without an associated identification code. To verify this condition, press the lock release push-button and the interphone should emit a triple "Beep".

Programming phase:

1) Press and hold the RESET push-button on the back of the interphone.
2) Press and hold the lock release push-button "G" and the talk/listen push-button "I", together with the RESET push-button.
3) Release the RESET push-button while holding down both the lock release push-button "G" and talk/listen push-button "I".
4) After 2 seconds the interphone emits a high-pitched tone and communication is enabled with the panel.
5) Release the lock release and talk/listen push-buttons.
6) On push-button entrance panels, press the call button for the interphone: on alphanumeric panels, enter the call code and press push-button "".
7) If the system contains a interphone that already has the same associated identification code, the panel emits a low-pitched signal and the operation should be repeated from point 2.
8) Otherwise the code is associated with the interphone and communication is terminated.

Programming the secondary identification code

The programming of the secondary identification code is required only when you want more than one interphone to ring at the same time with the same push-button or call code. Interphones which must ring simultaneously are associated with the same push-button to the same group. The "master" interphone is programmed first of all by following the previous procedure: "Identification code programming".
Additional interphones are programmed with the secondary identification code. It is possible to program 4 interphones to be associated to the same group without using programmer Art. 950C.

Programming phase:

1) Press and hold the RESET push-button on the back of the interphone.
2) Press and hold the lock release push-button "G", talk/listen push-button "I" and self-start push-button "H" together with the RESET push-button.
3) Release the RESET push-button while holding down both the lock release push-button "G", talk/listen push-button "I" and self-start button "H".
4) After 2 seconds the interphone emits a high-pitched tone and communication is enabled with the panel.
5) Release the lock release, talk/listen and self-start push-buttons.
6) On push-button entrance panels, press the call button for the "master" interphone (already programmed): on alphanumeric panels, enter the call code for the "master" interphone and press push-button "".
7) Once the secondary identification code is associated to the interphone, the communication is terminated.

Programming the push-buttons

The interphone is supplied with 4 push-buttons for the following functions: lock release, talk/listen, self-start and "stair light" auxiliary service, which activates the 1st relay of the 1st actuator (type 69HR), if connected to the installation.
To change the operation type of the self-start and "stair light" auxiliary service push-buttons it is necessary to use programmer type 950C, except when assigning functions for intercommunicating calls and self-start to a specific entrance panel.

Programming the push-buttons for the intercommunicating calls
Programming phase:
1) Raise the handset of the interphone or monitor to be called.
2) Press and hold the RESET push-button on the back of the interphone.
3) Press and hold the push-button used for making the intercommunicating call together with the talk/listen push-button "I" and the RESET push-button.
4) Release the RESET push-button, keeping the other two push-buttons pressed.
5) After 2 seconds the monitor emits a high-pitched tone, while the other interphone/monitor emits a 3-tone ascending scale (not for interphones type 6601/AU, 660C/AU, 6701/AU).
6) Release the intercommunicating call and talk/listen push-buttons.
7) On the interphone/monitor called (the one with the 3-tone ring), press one of the push-buttons programmed as the door lock, or F1 or F2 or the auxiliary push-buttons.
8) A high-pitched tone confirms the end of the procedure.

Repeat the same procedure for the other interphones/monitors and any other intercommunicating call push-buttons.

Programming the self-start push-button to a specific entrance panel.
Programming phase:
1) Press and hold the RESET push-button on the back of the interphone.
2) Press and hold the push-button to be reprogrammed together with the talk/listen push-button "I" and the RESET push-button.
3) Release the RESET push-button, keeping the other two push-buttons pressed.
4) After 2 seconds the monitor emits a high-pitched tone.
5) Release the intercommunicating call and talk/listen push-buttons.
6) On push-button entrance panels, press the call button for the interphone: on alphanumeric panels, enter the call code and press push-button "🔔".
7) A high-pitched tone confirms the end of the procedure.

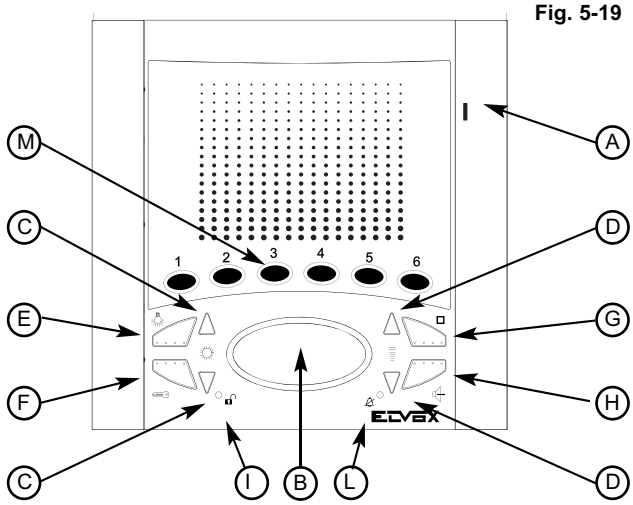
Restoring the default values of push-buttons
Programming phase:
1) Press and hold the RESET push-button on the back of the interphone.
2) Press and hold the push-button to be reprogrammed together with the talk/listen push-button "I" and the RESET push-button.
3) Release the RESET push-button, keeping the other push-buttons pressed.
4) After 2 seconds the monitor emits a high-pitched tone.
5) Release the push-buttons and once more press the push-button to be restored to its default setting.

Deleting all settings
Programming phase:
This procedure is recommended when you want to change the ID of a previously programmed interphone without retaining its programming parameters.
1) Press and hold the RESET push-button on the back of the interphone.
2) Press and hold the self-start push-button "H" and the talk/listen push-button "I" together with the RESET push-button.
3) Release the RESET push-button, keeping the other two push-buttons pressed.
4) After 2 seconds the interphone emits a continuous tone for two seconds.
5) Release the self-start and talk/listen push-buttons.
6) During the long tone press the lock push-button "G".

If the deletion procedure was successful, press the lock push-button and the interphone will emit a triple "BEEP".

PHONE ART. 6611/AU, 661C/AU, 6711/AU.

Fig. 5-19



Controls and adjustments
A) Microphone.
B) Loudspeaker.

C) Pair of push-buttons.
2) When the interphone has switched OFF, the push-buttons can be used to select the tune for calls from a speech unit only. To programme the tune: hold down one of the two push-buttons for at least 2 seconds, then press the push-buttons repeatedly to select the desired tune.

D) Pair of push-buttons.
1) During conversation, with push-button "h" pressed, press push-buttons "D" to increase or decrease the volume of the internal voice line.
2) To adjust ringtone volume (with interphone not in conversation): hold down one of the two push-buttons "D" for at least 2 second, then press the push-buttons repeatedly to increase or reduce the ringtone volume, or mute the ringtone. The "D" push-buttons adjusts the chime volume, including during emission of the internal or external or outdoor call tone.

E) Push-button for auxiliary service, 1st relay of 1st actuator type 69RH.

F) Push-button : for door lock release.

G) Push-button ☐ : for self-start of the interphone without being called.

H) : for twin channel conversation after the call and/or switch-on interphone insertion unit, hold the push-button down for conversation with the entrance panel or flat.

I) 'Door open' signal: if the green LED lights up, this indicates that the door is open and if the LED is off, it means all door are closed (the function is optional according to the type of installation).

L) 'Call disabled signal: if the red LED lights up, this indicates that the call is disabled (see point "D"). In models …./F the red LED remains lit for the whole conversation dwell, i.e. until the audio is active.

M) 6 Push-buttons: for sctivation of auxiliary services or intercommunicating calls (depending on the programming)

PROGRAMMING

There are three monitor programming modes:
- Assignment of an identification code or call code (necessary)
- Assignment of a secondary identification code (for interphones associated with a master interphone/video interphone)
- Programming of push-buttons for auxiliary services and intercommunicating calls (when necessary).

Programming must be performed with the system switched on, without active communication and only after connecting the interphones/video interphones to the system and programming the entrance panels.

(Allows the interphones to be programmed by means of push-buttons located on the front grid).

The identification code is programmed by means of an entrance panel (main "Master"), present on the installation and already configurated. The interphone is supplied without an associated identification code. To check this, press the push-button "F" and the interphone will emit a triple "BEEP".

Programming phase:

1) Press and hold down "**H**".
2) Press and hold down also "**G**" together with "**H**".
3) Wait for nearly 3 seconds until the red LED "**L**" flashes.
4) Now the microprocessor is physically reset.
5) Release both push-buttons "**H**"and "**G**"
   You have now 5 seconds to carry out any of the described programmings.
6) Press and hold down the "**F**" lock push-button.
7) After nearly 2 second the interphone emits an acute tone, the interphone switches on and communication is enabled with the entrance panel.
8) On push-button panels press the call button for the interphone: on alphanumeric panels, enter the call code and press "🔔".
9) If on the installation there is already an interphone / video interphone with the same associated identification code, the panel emits a low-pitched tone and you must repeat the operation from the beginning.
10) If not, the code is associated to the interphone and the communication is terminated.

Programming the secondary identification code

The programming of the secondary identification code is required only when you want more than one interphone to ring at the same time with the same push-button or call code. The interphones which must ring simultaneously are associated with the same push-button to the same group. The "master" interphone/ video interphone is programmed first of all by following the previous procedure: "programming the identification code". The additional interphones/video interphones are programmed with the secondary identification code. It is possible to program 4 interphones / video interphones to be associated to the same group without programmer Art. 950C.

Programming phase:

1) Press and hold down "**H**".
2) Press and hold down also "**G**" together with "**H**".
3) Wait for nearly 3 seconds until the red LED "**L**" flashes.
4) Now the microprocessor is physically reset.
5) Release both push-buttons "**H**"and "**G**"
6) Press and hold down the "**F**" and "**G**" push-buttons simultaneously.
7) After 2 seconds the interphone emits a high-pitched tone, while the other interphone / video interphone gets in communication with the entrance panel.
8) Release "**F**" and "**G**" push-buttons.
9) On push-button entrance panels, press the call button for the "master" interphone/video interphone (already programmed): on alphanumeric panels, enter the call code for the "master" interphone/video interphone and press "🔔".
10) If on the installation there is already an interphone / video interphone with the same associated identification code, the panel emits a low-pitched tone and you must repeat the operation from the beginning.
11) Once the secondary identification code is associated to the video interphone, the communication is terminated.

Programming the push-buttons

The interphone is supplied with 3 push-buttons for the following functions: lock release, self-insertion and "stair light" auxiliary service (which activates the 1st relay of the 1st actuator type 69RH, if connected to the installation), and with other 6 push-buttons for intercommunicating calls or auxiliary services. To change the operation type of push-buttons it is necessary to use programmer type 950C, except when assigning functions for the intercommunicating calls and self-insertion to a specific entrance panel.

Programming the push-buttons for intercommunicating calls
(With the 8870, Giotto and Petrarca series, raise the handset of the interphone/video interphone to call. On the 6600 series, keep the talk/listen push-button "H" pressed).

Programming phase:

1) Press and hold down "**H**".
2) Press and hold down also "**G**" together with "**H**".
3) Wait for nearly 3 seconds until the red led "**L**" flashes.
4) Now the microprocessor is physically reset.
5) Release both push-buttons "**H**"and "**G**"
6) Press and hold down the "**M**" push-button to be programmed.
7) After 2 seconds the interphone emits a high-pitched tone, while the other interphone / video interphone emits a three-tone ascending scale.
8) Release the "**M**" push-button related to the intercommunicating call.
9) On the called interphone / video interphone (the one with the three-tone) press one of the programmed push-buttons (such as the door lock, F1, F2 or auxiliary push-buttons).
10) A high-pitched tone confirms the end of the procedure.

Repeat the same procedure for the other interphones / video interphones and any other intercommunicating call push-buttons.

NOTE: The same procedure can also be used to program push-button "**E**".

Programming the self-start push-button to a specific entrance panel.

Programming phase:

1) Press and hold down "**H**".
2) Press and hold down also "**G**" together with "**H**".
3) Wait for nearly 3 seconds until the red LED "**L**" flashes.
4) Now the microprocessor is physically reset.
5) Release both push-buttons "**H**"and "**G**"
6) Press and hold down the "**M**" push-button to be programmed.
7) After 2 seconds the interphone emits a high-pitched tone.
8) Release self-start push-button "**M**".
9) On push-button panels, press the call button for the interphone; on the alphanumeric panel, enter the call code and press "🔔".
10) A high-pitched tone will confirm the end of the procedure.

NOTE: The same procedure can also be used to program push-button "E"

Restoring the default values of push-buttons

Programming phase:

1) Press and hold down "**H**".
2) Then press and hold down also "**G**" together with "**H**".
3) Wait for nearly 3 seconds until the red LED "**L**" flashes.
4) Press and hold down the push-button to be restored to its default setting.
5) After 2 seconds the interphone emits a high-pitched tone.
6) Release the push-button to restore to its default setting.

Deleting all settings

This procedure is recommended when you want to change the ID of a previously programmed interphone without retaining its programming parameters.

Programming phase:

1) Press and hold down "**H**".
2) Then press and hold down also "**G**" together with "**H**".
3) Wait for nearly 3 seconds until the red LED "**L**" flashes.
4) Now the microprocessor is physically reset.
5) Release both push-buttons "**H**"and "**G**"
6) Press and hold down push-button "**G**".
7) After 2 seconds the interphone emits a continuous tone for two seconds.
8) Release push-button "**G**".
9) During the long tone press push-button "**F**".

If the deletion procedure was successful, press push-button "**F**" and the interphone will emit a triple "BEEP".

VIDEO INTERPHONES ART. 6601, 660C, 6701.

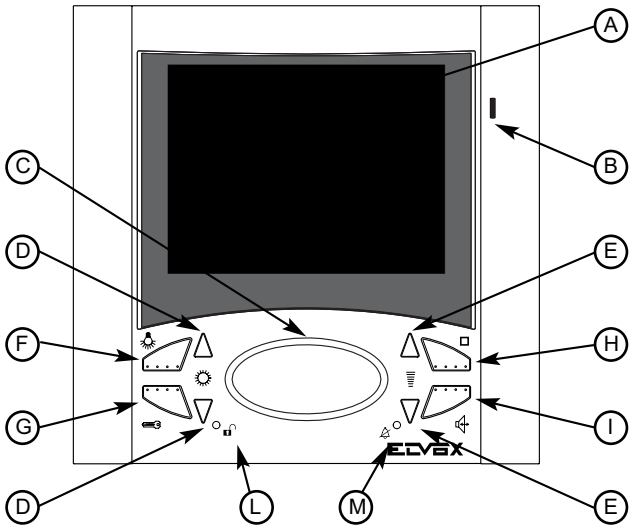


Fig. 5-20

Controls and adjustments

A) Manually tilting 4" LCD screen.

B) Microphone.

C) Loudspeaker.

D) Pair of push-buttons.
1) When the monitor is ON, the push-buttons can be used to adjust the brightness.
2) When the monitor is OFF, the push-buttons can be used to select the tune for calls from a speech unit only. To programme the tune: hold down one of the two push-buttons for at least 2 second, then press the push-buttons repeatedly to select the desired tune.

E) Pair of push-buttons.
1) During conversation, with push-button "i" pressed, press push-buttons "E" to increase or decrease the volume of the internal voice line.
2) To adjust ringtone volume: hold down one of the two push-buttons "E" for at least 2 second, then press the push-buttons repeatedly to increase or reduce ringtone volume, or mute the ringtone.
The "E" push-buttons adjust the ringtone volume also during the ring tone for the internal or external call. Once the sound emission is terminated, they adjust the contrast while the screen is turned on.

F) Push-button for auxiliary service, 1st relay of 1st actuator type 692R

G) Push-button : for door lock release.

H) Push-button : for self-start of the monitor without the latter being called.

I) Two-channel conversation push-button: after the monitor has been called and/or switched on, hold down the push-button for conversation with the entrance panel. 5 seconds after the push-button is released, the interphone is disconnected. If it is pressed again before the elapse of 5 seconds, conversation can continue.

L) Door open LED: the red LED is lit when at least one door/gate is open, it turns off when all doors are close (the function is optional according to the type of installation)

M) 'Ringtone mute' LED: when the red ringtone mute LED is lit, the call has been denied (see point "E").

PROGRAMMING

There are three monitor programming modes:
- Assignment of an identification code or call code (necessary)
- Assignment of a secondary identification code (for interphones associated with a master interphone/video interphone)
- Programming of push-buttons for auxiliary services and intercommunicating calls (when necessary).

Programming must be performed with the system switched on, without active communication and only after connecting the interphones/video interphones to the system and programming the entrance panels.

Programming the identification code WITH SOFTWARE V3

(see label on the base of the video interphone)

(Allows the video interphones to be programmed by means of push-buttons located on the front grid).

The identification code is programmed by means of an entrance panel (main "Master"), present on the installation and already configurated. The video interphone is supplied without an associated identification code. To check this, press the push-button "G" and the video interphone will emit a triple "BEEP".

Programming phase:

1) Press and hold down "**I**".
2) Press and hold down also "**H**" together with "**I**".
3) Wait for nearly 3 seconds until the red led "**M**" flashes.
4) Now the microprocessor is physically reset.
5) Release both push-buttons "**I**" and "**H**". You have now 5 seconds to carry out any of the described programmings.
6) Press and hold down the "**G**" lock push-button.
7) After nearly 2 seconds the video interphone emits a high-pitched tone, it self-starts and gets in communication with the entrance panel.
8) On push-button panels press the video interphone call button; on the alphanumeric panel, enter the call code and press "".
9) If on the installation there is already an interphone / video interphone with the same associated identification code, the panel emits a low-pitched tone and you must repeat the operation from the beginning.
10) If not, the code is associated to the video interphone and the communication is terminated.

Programming the secondary identification code

The programming of the secondary identification code is required only when you want more than a video interphone to ring at the same time with the same push-button or call code. The video interphones which must ring simultaneously are associated with the same push-button to the same group. The "master" interphone / video interphone is programmed first of all using of the previous procedure: "programming the identification code".

The additional interphones / video interphones are programmed with the secondary identification code. It is possible to program 4 interphones / video interphones to be associated to the same group without using programmer Art. 950C.

Programming phase:
1) Press and hold down "**I**".
2) Press and hold down also "**H**" together with "**I**".
3) Wait for nearly 3 seconds until the red led "**M**" flashes.
4) Now the microprocessor is physically reset.
5) Release both push-buttons "**I**" and "**H**"
6) Press and hold down the "**G**" door lock and the "**H**" self-start push-buttons simultaneously.
7) After 2 seconds the video interphone emits a high-pitched tone, while the other interphone / video interphone gets in communication with the entrance panel.
8) Release the door lock "**G**" and the self-start "**G**" push-buttons.
9) On push-button entrance panels, press the call button for the "master" interphone/video interphone (already programmed): on alphanumeric panels, enter the call code for the "master" interphone/video interphone and press "🔔".
10) If on the installation there is already an interphone / video interphone with the same associated identification code, the panel emits a low-pitched tone and you must repeat the operation from the beginning.
11) Once the secondary identification code is associated to the video interphone, the communication is terminated.

Programming push-buttons
The video interphone is supplied with 3 push-buttons for the following functions: lock release, self-start and "stair light" auxiliary service (which activates the 1st relay of the 1st actuator type 69HR, if connected to the installation), and with other 6 push-buttons for intercommunicating calls or auxiliary services. To change the operation type of push-buttons it is necessary to use programmer type 950C, except when assigning functions for intercommunicating calls and self-start to a specific entrance panel

Programming push-buttons for intercommunicating calls (with the 8870, Giotto and Petrarca series, raise the handset of the interphone / video interphone to call. On the 6600 series, keep the talk / listen push-button "I" pressed).
Programming phase:
1) Press and hold down "**I**".
2) Press and hold down also "**H**" together with "**I**".
3) Wait for nearly 3 seconds until the red led "**M**" flashes.
4) Now the microprocessor is physically reset.
5) Release both push-buttons "**I**" and "**H**"
6) Press and hold down the "**N**" push-button to be programmed.
7) After 2 seconds the video interphone emits a high-pitched tone, while the other interphone / video interphone emits a three-tone ascending scale.
8) Release the "**N**" push-button related to the intercommunicating call.
9) On the called interphone / video interphone (the one with the three-tone scale) press one of the push-buttons programmed as the door lock or F1 or F2 or the auxiliary one.
10) A high-pitched tone confirms the end of the procedure.
Repeat the same procedure for the other interphones / video interphones and for any other intercommunicating call push-buttons.

Programming the self-start push-button to a specific entrance panel.
Programming phase:
1) Press and hold down "**I**".
2) Press and hold down also "**H**" together with "**I**".
3) Wait for nearly 3 seconds until the red led "**M**" flashes.
4) Now the microprocessor is physically reset.
5) Release both push-buttons "**I**" and "**H**"
6) Press and hold down the "**F**" push-button to be programmed.
7) After 2 seconds the video interphone emits a high-pitched tone.
8) Release the self-start push-button "**F**".
9) On push-button panels, press the call button for the video interphone; on the alphanumeric panel, enter the call code and press "🔔".
10) A high-pitched tone will confirm the end of the procedure.

Restoring the default values of push-buttons
Programming phase:
1) Press and hold down "**I**".
2) Press and hold down also "**H**" together with "**I**".
3) Wait for nearly 3 seconds until the red LED "**M**" flashes.
4) Now the microprocessor is physically reset.
5) Release both push-buttons "**I**" and "**H**"
6) Press and hold down the push-button to be restored to its default setting.
7) After 2 seconds the video interphone emits a high-pitched tone.
8) Release and press again the push-button to restore to its default setting.

Deleting all settings
This procedure is recommended when you want to change the ID of a previously programmed video interphone without retaining its programming parameters.
Programming phase:
1) Press and hold down "**I**".
2) Then press and hold down also "**H**" together with "**I**".
3) Wait for nearly 3 seconds until the red LED "**M**" flashes.
4) Now the microprocessor is physically reset.
5) Release both push-buttons "**H**" and "**I**"
6) Press and hold down the self-start push-button "**H"**.
7) After 2 seconds the video interphone emits a continuous tone for two seconds.
8) Release the self-start push-button "**H**".
9) During the long tone press the lock push-button "**G**".
If the deletion procedure was successful, press the lock push-button "**G**" and the video interphone will emit a triple "BEEP".

VIDEO INTERPHONES ART. 6611, 661C, 6711.

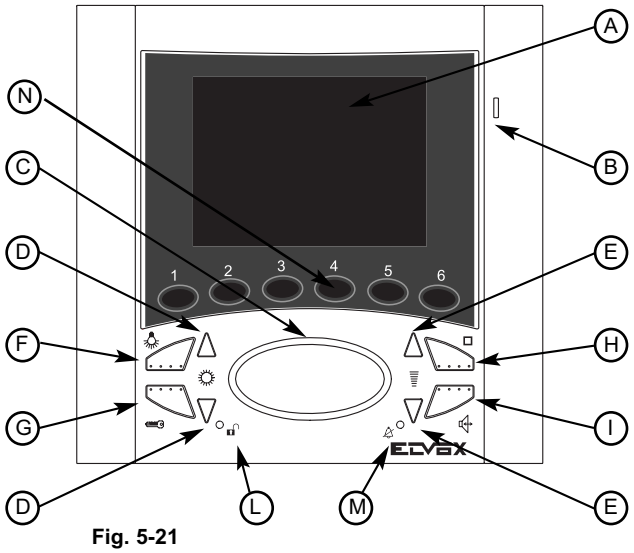


Fig. 5-21

Controls and adjustments

A) Screen 3,5" LCD monitor.
B) Microphone.
C) Loudspeaker.

D) Pair of push-buttons.
1) When the video interphone is ON, the push-buttons can be used to adjust the brightness.
2) When the video interphone is OFF, the push-buttons can be used to select the tune for calls from a speech unit only. To program the tune: hold one of the two push-buttons down for at least 2 seconds, and press the push-buttons again repeatedly to select the desired tune.

E) Pair of push-buttons
1) In conversation with the "I" push-button pressed, press the "**E**" push-buttons to increase or decrease the volume of the internal audio.
2) In rest position they adjust the ringtone volume: keep one of the two "E" push-buttons pressed for at least 2 seconds, press the push-buttons repeatedly to increase or decrease the ringtone volume. The "**E**" push-buttons adjust the ringtone volume even during the emmission of the internal or external call sound. Once the sound emission has been ended, they adjust the contrast while the screen is switched on.

F) Push-button : for activating 1st auxiliary service if connected by means of 692RH (e.g. stair lights).

G) Push-button : for door lock release.

H) Push-button : for self-start of the video interphone without being called.

I) Push-button : after the video interphone has been called and/or self-started, hold down the push-button for conversation with the entrance panel.

L) Push-button 'Door open' LED: the red led is lit when at least one door/gate is open, it turns off when all doors are closed (this function is optional according to the type of installation)

M) Push-button 'Ringtone mute' LED: the LED illuminates when the ringtone has been muted (see point "E").

N) Push-buttons: for activation of auxiliary services or intercommunicating calls (depending on the programming).

PROGRAMMING

The video interphone programmings are three:

There are three video interphone programming modes:
- Assignment of an identification code or call code (necessary)
- Assignment of a secondary identification code (for interphones associated with a master interphone/video interphone)
- Programming of push-buttons for auxiliary services and intercommunicating calls (when necessary).

Programming must be performed with the system switched on, without active communication and only after connecting the interphones/video interphones to the system and programming the entrance panels.

Programming the identification code with SOFTWARE V3

(Allows the video interphone to be programmed by means of push-buttons located on the front grid).
The identification code is programmed by means of an entrance panel (main "Master"), present on the installation and already configurated. The video interphone is supplied without an associated identification code. To check this, press the push-button "**G**" and the video interphone will emit a triple "BEEP".

Programming phase:

1) Press and hold down "**I**".
2) Press and hold down also "**H**" together with "**I**".
3) Wait for 3 seconds until the red led "**M**" flashes.
4) Now the microprocessor is physically reset.
5) Release both push-buttons "**I**" and "**H**". You have now 5 seconds to carry out any of the described programmings.
6) Press and hold down the push-button "**G**".
7) After 2 seconds the video interphone emits a high-pitched tone, self-starts and gets in communication with the entrance panel.
8) On push-button panels press the call button for the video interphone; on alphanumeric panels, enter the call code and press "".
9) If on the installation there is already an interphone / video interphone with the same associated identification code, the panel emits a low-pitched tone and you must repeat the operation from the beginning.
10) If not, the code is associated to the video interphone and the communication is terminated.

Programming the secondary identification code

The programming of the secondary identification code is required only when you want more than one video interphone to ring at the same time with the same push-button or call code. The video interphones which must ring simultaneously are associated with the same push-button to the same group. The "master" interphone / video interphone is programmed first of all using the previous procedure: "programming the identification code".
The additional interphones / video interphones are programmed with the secondary identification code. It is possible to program 4 interphones / video interphones to be associated to the same group without programmer Art. 950C.

Programming phase:

1) Press and hold down "**I**".
2) Press and hold down also "**H**" together with "**I**".
3) Wait for nearly 3 seconds until the red led "M" flashes.
4) Now the microprocessor is physically reset.
5) Release both push-buttons "**I**" and "**H**"
6) Press and hold down push-buttons "**G**" and "**H**" simultaneously.
7) After 2 seconds the video interphone emits a high-pitched tone, while the other interphone / video interphone gets in communication with the entrance panel.
8) Release push-buttons "**G**" and "**H**"
9) On push-button entrance panels, press the call button for the "master" interphone/video interphone (already programmed): on alphanumeric panels, enter the call code for the "master" interphone/video interphone and press "".

10) If on the installation there is already an interphone / video interphone with the same associated identification code, the panel emits a low-pitched tone and you must repeat the operation from the beginning.
11) Once the secondary identification code is associated to the video interphone, the communication is terminated.

Programming the push-buttons
The video interphone is supplied with 3 push-buttons for the following functions: lock release, self-start and "stair light" auxiliary service (which activates the 1st relay of the 1st actuator type 69HR, if connected to the installation), and with other 6 push-buttons for intercommunicating calls or auxiliary services.
To change the operation type of push-buttons it is necessary to use programmer type 950C, except when assigning functions for the intercommunicating calls and self-start to a specific entrance panel.

Programming the push-buttons for the intercommunicating calls (With 8870, Giotto and Petrarca series, raise the handset of the interphone / video interphone to call. On the 6600 series keep the talk / listen push-button "I" pressed.
Programming phase:
1) Press and hold down "**I**".
2) Press and hold down also "**H**" together with "**I**".
3) Wait for nearly 3 seconds until the red LED "**M**" flashes.
4) Now the microprocessor is physically reset.
5) Release both push-buttons "**I**" and "**H**"
6) Press and hold down the "**N**" push-button to be programmed.
7) After 2 seconds the video interphone emits a high-pitched tone.
8) Release the intercommunicating call push-button **"N"**.
9) On the called interphone / video interphone (the one with the three-tone scale) press one of the push-buttons programmed as the door lock or F1 or F2 or the auxiliary one.
10) A high-pitched tone confirms the end of the procedure.

NOTE: With the same procedure it is possible to program the stair light push-button "F" too.

Programming the self-start push-button to a specific entrance panel.
Programming phase:
1) Press and hold down "**I**".
2) Press and hold down also "**H**" together with "**I**".
3) Wait for nearly 3 seconds until the red led "**M**" flashes.
4) Now the microprocessor is physically reset.
5) Release both push-buttons "**I**"and "**H**"
6) Press and hold down the "**N**" push-button to be programmed.
7) After nearly 2 seconds the video interphone emits a high-pitched tone.
8) Release the push-button "**N**" related to the self-start.
9) On the entrance panels with push-buttons press the call push-button corresponding to the video -interphone; on the alphanumeric entrance panel, on the contrary, enter the call code and press " ".
10) A high-pitched tone will confirm the end of the procedure.

Note: the same procedure can also be used to program push-button "**F**".

Restoring the default values of push-buttons
Programming phase:
1) Press and hold down "**I**".
2) Press and hold down also "**H**" together with "**I**".
3) Wait for nearly 3 seconds until the red led "**M**" flashes.
4) Now the microprocessor is physically reset.
5) Release both push-buttons "**H**" and "**I**"
6) Press and hold down the push-button to be restored to its default setting.
7) After 2 seconds the video interphone emits a high-pitched tone.
8) Release and press again the push-button to restore to its default setting.

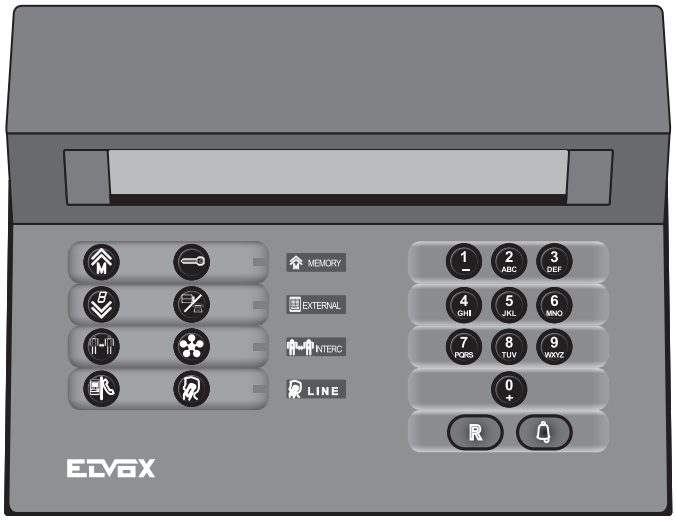
Deleting all settings
This procedure is recommended when you want to change the ID of a previously programmed video interphone without retaining its programming parameters.
Programming phase:
1) Press and hold down "**I**".
2) Then press and hold down also "**H**" together with "**I**".
3) Wait for nearly 3 seconds until the red led "**M**" flashes.
4) Now the microprocessor is physically reset.
5) Release both push-buttons "**H**" and "**I**"
6) Press and hold down the self-start push-button "**H**".
7) After 2 seconds the video interphone emits a continuous tone for two seconds.
8) Release the self-start push-button "**H**".
9) During the long tone press the push-button "**G**".
If the deletion procedure was successful, press the push-button "**G**" and the video interphone will emit a triple "BEEP".

Art. 945F, 945F/T

1. GENERAL INFORMATION

1.1. INTRODUCTORY NOTES

Type 945F enables the set-up of an alphanumeric switchboard for Elvox Two-Wire video door entry systems. The device is configured as standard with an alphanumeric LCD display (2 rows x 40 columns) for the display of communication messages to and from the associated system, a handset for audio communication with the system panels and for communication with the riser devices (interphones and monitors) and a multi-function keyboard for call selection, and for functional management of operations for switchboard configuration (communication parameters, alphanumeric phone book related to user table, clock and alarms).
The switchboard can also be configured with supplementary units for the management of a video signal: a camera module (internal, in which case the switchboard model name is 945F/T) and a video module (external) on the base unit fitted with the operator control interface:



On start-up, the switchboard displays its specific name (Type 945F), the date and the software version number:

```
*** Elvox 945F ***
GG/MM/AA  SW V 0.00
```

and then briefly displays the presentation window:

```
*** Due Fili Elvox System ***
    945F Switchboard active    +MT
```

The last three characters on display indicate respectively:

- '.' Check in progress of correctness of program memory contents. Replaced by '+' if check is positive and '?' if the check fails. There may also be the character '!' if information is missing for the correctness check.
- 'M' indicates the external presence of the monitor.
- 'T' indicates the internal presence of the camera module, which means the switchboard model is type 945F/T.

Messages are then displayed regarding initial operating status:

```
                  Mo 06/11 09:08    E
Dial digits to number call
```

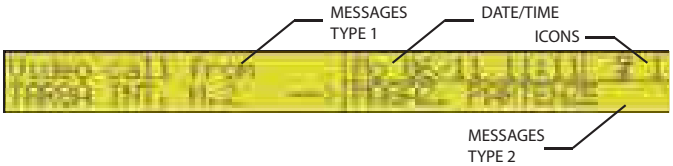
these messages are displayed in alternating mode, if the phone book contains at least one name, with:

```
                  Mo 06/11 08:39    I
Press * to alphanumeric call
```

1.2. OPERATOR INTERFACE

1.2.1. Display

The switchboard display is divided into four sections: each section can display specific information for the operator regarding switchboard operating and communication status.



Type 1 Messages: all messages of incoming calls from the riser or entrance panel are displayed or those of switchboard calls in progress;

Type 2 messages: the display shows service information on the specific status of a device, which must be received to enable communication; the right-hand section can be used as an Icon field for the display of additional icons;

Note: Type 1 and type 2 message fields can also be used to display operations carried out on the switchboard configuration menu and call memory status;

Date/Clock : this display section shows the current date and time;

Icons : field used to display icons referring to a specific operating status of the switchboard;

1.2.2. Display icons

ICON	DESCRIPTION
	(Box with superimposed arrow) Indicates that there are calls (or other commands) in the memory.
	(Telephone handset): indicates that the switchboard handset is raised.
	(Cordless phone): indicates that the optional cordless phone connected to type 69TF (see chapter 5) is active. In the case of simultaneous operation with the switchboard handset, the priority icon is the one on the cordless phone, which notifies the operator that the cordless phone has been left active.
	(Moon and star): appears only when both handsets are in the rest status. Indicates that the switchboard is set to Night-time service and therefore the telephone connected to type 69TF will ring for calls and warnings.
	(Key): Indicates that a door lock release command is in progress or activation of a function.
	(Padlock): Indicates the keyboard lock by means of external key;
	(I / E): Indicate the switchboard status (internal or external);
	Ringtone mute (by means of keys R and 3 DEF);

1.2.3. Keyboard

1.2.3.1. Keyboard keys

The switchboard is fitted with a keyboard of 20 keys. The keyboard is divided into two areas: the right-hand area enables the user to make calls, program the switchboard, and cancel operations in progress; the left-hand area enables the activation of functions for porter calls, door lock release, intercommunicating calls, transmission on telephone line and entries.

KEYBOARD DESCRIPTION (Left-hand area)

SYMBOL KEY DESCRIPTION

SCROLL MEMORIES
Enables the user to consult calls or function activations from interphones or monitors connected to the riser. In programming mode, simulates an UP arrow of the programmer type 950C.

LOCK OPEN
Enables activation of switchboard terminal “SR” and release of the lock of the main entrance panel in conversation with the switchboard. In programming mode, simulates the 2nd key of the programmer type 950C.

TRANSFER
Enables transfer of the porter call number to enable: call to the internal device, activation of the intercommunication function, or deletion of the number. In programming mode, simulates a DOWN arrow of the programmer type 950C.

INTERCOMMUNICATING
The key is used to establish conversation between two devices: two interphones (monitors) or interphone (monitor) and main entrance panel. Intercommunicating conversation, or communication between the main entrance panel and the interphone (monitor), is indicated by illumination of the INTERC lamp.

ASTERISK
Key used to start searches in the switchboard alphanumeric phone book. In programming mode, simulates the EXIT key of the programmer type 950C.

INTERNAL/EXTERNAL
The key is used to manually change the switchboard mode from internal to external and vice versa; illumination of the lamp EXTERNAL indicates switchboard external mode.

ENTRY
This key is used to enable switchboard entry in a conversation already in progress. An acoustic signal sent to the devices indicates activation of the audio entry function by the switchboard when communication is in progress.

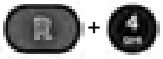
KEYBOARD DESCRIPTION (Right-hand section)

SYMBOL KEY DESCRIPTION

NUMBER SELECTION
Enable the user to dial the user number for calls and modify technical parameters during switchboard programming.

RESET/EXIT CONFIGURATION MENU
Enables cancellation and interruption of any conversation in specific cases.

USER CALL
Enables sending of a call after dialling the number. In the technical programming phase, the key is also used to confirm modifications applied in the configuration menus.



ENTRY TO PROGRAMMING MODE
Pressed simultaneously, enable access to the technical programming phase.

1.2.3.2. Keyboard indicators

LED DESCRIPTION

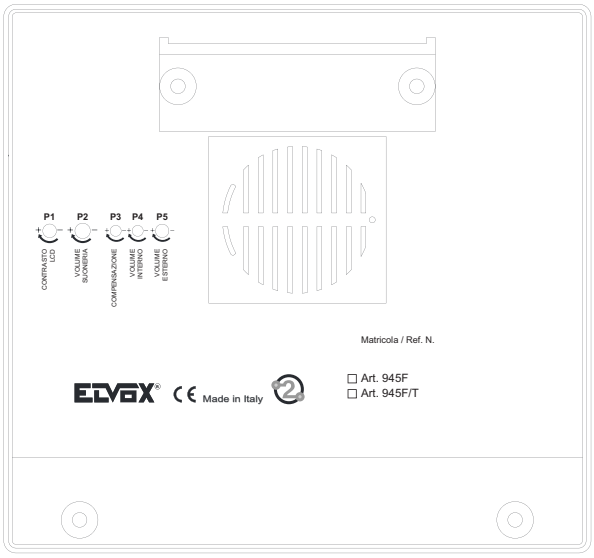
MEMORY
The lamp illuminates when events are present in the memory (e.g. calls unanswered by the switchboard, activation of functions F1,F2, locks). Flashes during programming of technical parameters if further events are added. To stop flashing, consult the list.

EXTERNAL
When the lamp is off the switchboard is set to internal mode, otherwise is in external mode.

INTERC
The lamp illuminates during a conversation between two or more interphones (monitors) and the main entrance panel.

LINE
The lamp is lit when at least one device is present on the audio line with the handset raised and in communication with the switchboard.

1.2.4 Push-buttons and adjustment trimmer



TRIMMER	ADJUSTMENTS
P1	LCD CONTRAST
P2	RINGER VOLUME
P3	COMPENSATION
P4	INTERNAL VOLUME
P5	EXTERNAL VOLUME

1.2.5. Switchboard handset

The switchboard communicates with the rest of the system (panel or internal device) via the handset at the left side of the unit. This switchboard is not fitted with a mechanical hook; a magnetic sensor is used for positioning the handset in its seat, to engage the switchboard audio line; in the same way, in order to free the line simply raise the handset from its seat. When the switchboard receives a call (from a panel or internal device on the riser) with the handset in use, to enable communication the handset must be replaced briefly in its seat; this sequence is necessary to prevent the switchboard handset (when momentarily placed in the rest position) from entering audio mode without the presence or intentional command of an operator.

These operations are also indicated by an icon (handset symbol:) which is activated on the LCD display when the handset is not in the rest position.

1.2.6. Summary of main configuration commands

KEYS	COMMANDS
R + 0	SWITCHING TO NIGHT-TIME SERVICE
R + 1	KEYBOARD LOCK CODE ENTRY
R + 2	DATE-TIME-ALARM PROGRAMMING
R + 3	AUDIO TONE MUTE AND ENABLE
R + 4	PARAMETER PROGRAMMING
	OPTIONAL FUNCTION ACTIVATION
	VIEWING MEMORISED EVENTS (from switchboard rest status)

For further information on the methods and procedures for configuring the switchboard parameters, refer to paragraph 2.2.

2. SWITCHBOARD CONFIGURATION

2.1. HARDWARE CONFIGURATION

2.1.1. Switchboard ID configuration

In Elvox Two-Wire systems, up to a maximum of four switchboards can be used, suitably divided by separators.

Factory settings for each switchboard assign an ID value of 1.

The switchboard ID is like other configuration parameters envisaged for global functions, and as such can be modified by entering parameter configuration mode (see paragraph 2.2).

2.1.2. Procedure for switchboard start-up in ELVOX TWO-WIRE systems

In each ELVOX TWO-WIRE system there can only be one MASTER or main panel at a time. The main entrance panel is also the only panel that on reset or power-up queries the other system panels to detect the type and presence of each panel. The system must not be used during this phase. At the end of this procedure the MASTER panel sends a message related to the status of the doors under direct control of the ELVOX TWO-WIRE system. After this message, the switchboard connected to the system sends information about its specific presence to the system. In this way, all devices connected to the system are notified of the presence of the switchboard.

Connection of the switchboard 945F to the system enables operation of the ELVOX TWO-WIRE system in two separate modes, by using the specially configured key to alternate between the two switchboard modes (external/internal).

External mode

The switchboard display shows an icon at the top right, indicating external mode.

At the same time as the display of the icon , the external mode indicator LED also illuminates on the switchboard control panel: .

If a lower-case icon appears, it means the internal call filter is inserted while the switchboard is on “external” mode.
This is the mode in which the switchboard can receive only external calls directly to its ID (from any panel configured with a key for direct calls to the switchboard ID). In this mode the switchboard maintains an active reception status, while not activating for any external call to the riser.

When the key is pressed to switch to external mode, a message is automatically sent to the system, which releases internal devices so that they are free from the switchboard: operations performed on these devices or from entrance panels are the same as those performed on a system without a switchboard.

Internal mode

The switchboard the display shows an icon at the top right, indicating internal mode.

At the same time as display of the icon , the internal mode indicator LED also illuminates on the switchboard control panel:

If a lower-case icon appears, it means the internal call filter is inserted while the switchboard is on “internal” mode. This is the mode in which the switchboard can intercept any external call to the riser. In this case the switchboard is activated for communication with the caller.

When the key is pressed to switch to internal mode, a message is automatically sent to the system, which blocks the internal devices so that they depend on the switchboard: operations performed from an external panel connected to the same bus as the switchboard can therefore only be performed with the switchboard (with the presence of an operator).
The stairway panel calls, downline of a separator with respect to the switchboard, continue to operate independently from the switchboard.

2.1.3. Switchboard keyboard lock

By pressing keys and simultaneously the user accesses the switchboard keyboard lock procedure: the lock code is requested and the key should be pressed for confirmation; the top right of the display then shows a padlock icon . The keyboard is unlocked after pressing keys and simultaneously in the same way as for the block procedure and on entry of the keyboard lock code.

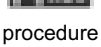
2.1.4. Access to programming mode using the reset key

If the operator has forgotten the parameter menu access password, the switchboard envisages a sequence of operations in the initial start-up phase to reset the internal memory of operating parameters to their default settings (the configuration menu access password is then reset to the default version: see configuration parameters table) .

The sequence is as follows:

1) disconnect the power supply to the switchboard and then reconnect, for example by reinserting the plug in the connection boss.

2) wait for the text ***** Elvox Two-Wire System ***** to appear on the display and then immediately press keys and simultaneously for a few seconds.

While the keys are pressed, the MEMORY  lamp remains lit, indicating that the switchboard is reading the procedure to enter the parameter programming mode. The system then requests an 8-digit numerical code, identical to that shown on the display; after entering the sequence (generated at random each time the procedure is accessed) the key activates the reinitialisation procedure of the switchboard memory with the default parameters.

2.1.5. Night-time service

A night-time service can be combined with the interface 69TF, which consists of the activation, at the same time as the switchboard tone, of a cordless/standard telephone connected to type 69TF. For more details, refer to chapter 5.

2.2. SOFTWARE CONFIGURATION

2.2.1. Switchboard parameter configuration menu

By pressing keys and simultaneously, the switchboard is set to parameter programming mode: the entry password is requested and if the 6-digit code is correct, the key can be pressed to enter programming mode.

After a brief presentation window, the user can scroll through the parameters shown in the table below by means of the keys (simulates the UP arrow) and (simulates the DOWN arrow). The numerical keypad can be used to modify the parameter values, confirming by means of key ; the key enables the user to exit without applying modifications or exit directly from parameter management mode. The currently available parameters are shown in the table below:

Parameter	Minimum value	Maximum value	Default setting	Notes
Messag. language	0 = Local language	1 = English	Local language	Language of the messages shown on the switchboard display.
Switchboard ID	8	4	1	In Elvox Two-Wire systems, up to a maximum of four switchboards can be used with ID from 1 to 4.
Code digits #	Natural	8	Natural	The numbering schedule can follow the natural order 1..200, or have 4 digits from 0000 to 9999, or 8 digits from 00000000 to 99999999.
Number of devices	0000(0000)	9999(9999)	Blank	Assignment of correspondence between 4 / 8 digit and natural numbering if the no. code numbers is not set as natural.
Search all pbk.	No	Yes	No	When the value is set to Yes, with a name length of 0, the entire phone book can be viewed.
Device names				2 x 200 names, each of 16 characters.
Program Password	000000	999999	654321	Code for entry to parameters menu: to modify or read parameters in this table.
Keyboard Password	000000	999999	654321	Keyboard lock: a padlock icon is displayed.
Lock time	0 [sec]	255 [sec]	1	Lock timing: 0= lock disabled
Function 1 time	0 [sec]	255 [sec]	1	F1 criteria timing: 0= 0.5 sec.
Function 2 time	0 [sec]	255 [sec]	1	F2 criteria timing: 0= 0.5 sec.
Common Lock	0	15	0, 0, 0, 0	Blank
Common F1	0	15	0, 0, 0, 0	Blank
Common F2	0	15	0, 0, 0, 0	Blank
Keyboard beep	No	YES	YES	If this parameter is set to Yes, a beep is emitted each time a key is pressed.
Tone repetition	Not assigned	Function F2	Not assigned	Choose what output you want to operate as call repeater: door lock or F1 or F2 (from version 4).
Int. call filter	0= filter disabled	1= filter enabled	0	When enabled, this filters calls from all system devices (interphone/ monitor)
Warn. swcb. time	0 or 2 [min]	50 [min]	one time! = 0	One time! = message indicating switchboard presence sent to the master panel after a reset once only; When Swb warning Time is set between 2 and 50 min., the switchboard presence message is set periodically at the interval set in Swb. warning time minutes.
Clock			01/01/05 00:00	
Interphone/monitor configuration				Enables configuration of individual monitors/interphones

2.2.2. MESSAGE LANGUAGE

Programming can be in Italian (default local language) or English. Other local languages will be available for the respective markets

To change language, press for Italian or for English

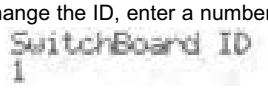
To cancel press . To confirm, press . Acceptance of the command, as in all cases, is shown on the first line of the display:

The display now changes to:

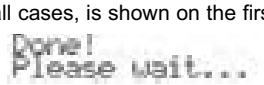
Use the key to move to the previous item in the programming menu.

2.2.3. Switchboard ID

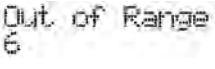
Press to move to the next item in which the switchboard ID can be changed To change the ID, enter a number between 1 and 4.



To cancel press . To confirm, press . Acceptance of the command, as in all cases, is shown on the first line of the display:



If the ID is outside the admissible range, the first line of the display shows the error:



Use the key to move to the previous item in the programming menu.

2.2.4. Coding digit number

Press to move to the next item in which the numbering used by the switchboard can be changed

The modes are as follows:

- Sequential encoding (default): the monitors and interphones are numbered from 1 to 200. The numbering can be abbreviated.
  To specify the first monitor, simply enter 1 rather than 001
- 4-digit encoding: the monitors and interphones are numbered from 0000 to 9999. 4 digits must always be used
- 8-digit encoding: the monitors and interphones are numbered from 00000001 to 99999999. 8 digits must always be used
  To change the numbering mode, enter:

To change the numbering mode, enter:

- for sequential encoding

- for 4-digit encoding

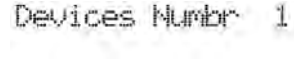
- for 8-digit encoding

To cancel press . To confirm, press . Acceptance of the command, as in all cases, is shown on the first line of the display:

If sequential encoding is not selected, the code remapping table must also be compiled. Use the key to move to the previous item in the programming menu.

2.2.5. Device numbering

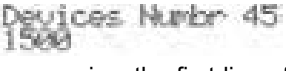
If number encoding is programmed for 4 or 8 digits, i.e. when sequential encoding is not selected, press the key to move to the next item to enable modification of the correspondence between ID of each monitor or interphone with the numbering used to call from the switchboard keyboard. If Sequential Encoding has been selected, the system skips directly to the next item.



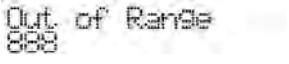
If the number is made up entirely of '0', this means that there is no association for the specified monitor or interphone (1 in the example) and therefore no direct calls can be made.

To select the device to modify, use keys and . From position 1, press to move to the next item in the programming menu. Alternatively, enter the device number required directly:

Now press

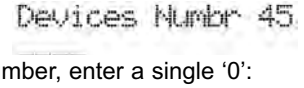


In the event of discrepancies, the first line of the display shows the error:

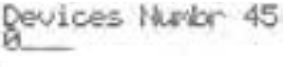


Use the key to skip all intermediate phases and go to the previous item in the programming menu

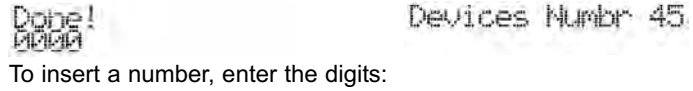
To modify the number value, press :



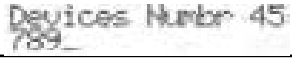
To cancel the number, enter a single '0':



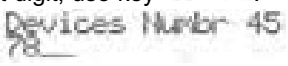
and press :



To insert a number, enter the digits:

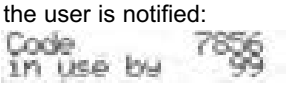


To cancel the last digit, use key R:



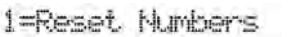
Numbering comprises 4 or 8 digits which must all be entered or the procedure will not be completed:

To cancel press *. To confirm, press 🔔. At this point, there is a check that the entered value does not already exist elsewhere. If so, the user is notified:



In this case the system notifies the operator that the code 7856 is already used for the device with ID 99.
Otherwise, acceptance of the command, as in all cases, is shown on the first line of the display:

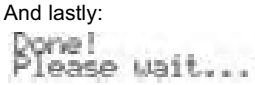
To cancel all numbering, starting from where the current value is shown, press 0:



On request for confirmation, press 1:

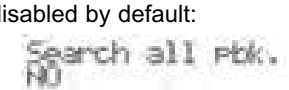
and then 🔔. Press * or 0 🔔 to cancel the procedure. If numbering reset is selected, the following is displayed: Please wait...

And lastly:



2.2.6. Search the entire phone book

Press 9 to move to the next item by means of which the switchboard can be configured, in order to scroll through the entire agenda on entry of a blank name as the search criteria. Normally at least the first letter of the name to be searched should be entered. With the flag selected, press * followed by 🏠 to see the first name in the phone book, regardless of the initial. Then use keys 🏠 and 9 to scroll through the entire phone book.
This function is disabled by default:



To activate the function, press 1:

followed by 🔔: Done!
YES

To deactivate, press 0 and 🔔.

2.2.7. Device names

Press 9 to go to the next item in which the user can associate each monitor or interphone with one or two names to be used in the alphanumeric searches performed via the switchboard keyboard. The names, indicated with the letters ‘a’ and ‘b’, may be useful, for example, to have the names of a husband/wife or family/business etc.

There is no name by default.

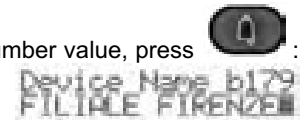
To select the device to modify, use keys 🏠 and 9. For each device, the name ‘a’ is displayed first, followed by ‘b’. From position 1a, press 9 to move to the next item in the programming menu.
Alternatively, enter the device number required directly:

Now press 🔔:

In the event of discrepancies, the first line of the display shows the error:

Use the key R to skip all intermediate phases and go to the previous item in the programming menu

To modify the number value, press 🔔:



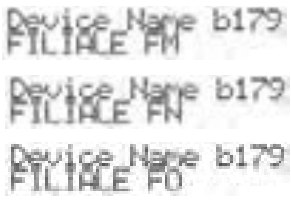
A flashing cursor appears at the end of the name, corresponding to the position where the next character will be entered.
To delete the character immediately to the left of the cursor, press R. Press repeatedly to cancel as may characters as required:

To enter the characters, use keys 0 .. 9. Each key is associated with more than one symbol. To obtain the required symbol, press the key as many times as required before the time-out of 2 seconds, renewed after each entry. The keys and corresponding symbols are shown in the following table:

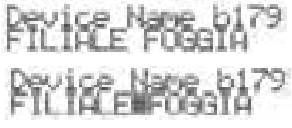
KEY	SYMBOLS
1	<spazio>1@.,:;?!()<>
2	ABC2abcÁÀÃÂÄÇáàãâäç
3	DEF3defÉÈÊéèê
4	GHI4ghiÍÌîì
5	JKL5jkl
6	MNO6mnoÓÒÕÖóòõö
7	PQRS7pqrs
8	TUV8tuvÚÙúù
9	WXYZ9wxyz
0	0_$&*#+-=/%"'

If the symbol entered previously was a capital letter, even if the push-button is changed, the system re-starts with a capital. If it was lower case, you will re-start in lower case. If it was a digit, you will re-start with a digit.
If the next symbol to enter is on another key, there is no need to wait for the timeout to elapse before proceeding. If it is on the same key, the timeout interval must first elapse.

For example, to enter the letter 'O', press the 6 key three times consecutively

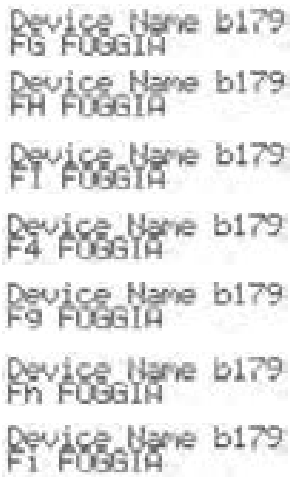


To complete 'FOGGIA' press 4 for the 'G', wait for the cursor to move forward, 4 again for the second 'G', wait for the cursor to move forward, 4 again three times for the 'I', and lastly 2 for the 'A'. Use keys ↑ and ↓ to move within the name. These keys can only be used when the entry timeout has elapsed. For example, if ↑ is pressed seven times, the cursor moves to the space between 'FILIALE' and 'FOGGIA'



The cursor flashes between the letters 'E' and 'F'. Press the R key six times to cancel the remaining letters 'ILIALE'

The following figures show what happens when the 4 key is pressed several times in sequence

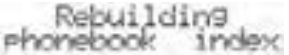


The same procedure is used to complete the word:

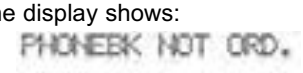
To cancel press ✱. To confirm, press 🔔. At this point, there is a check that the entered value does not already exist elsewhere. If so, the user is notified:

In this case, the system notifies the operator that the name "RADIO TAXI" is already used for the device with the ID 173.
Otherwise, acceptance of the command, as in all cases, is shown on the first line of the display:

When the user exits this menu and a modification has been made to any of the names, the name indexing procedure is started in the background (i.e. without stopping panel activities) so that the search to make a call is performed in strict alphabetical order, on the basis of the initial letters entered by the user according to the procedure described in the panel instructions. To avoid confusion, the names are sorted ignoring the difference between upper and lower case.
The user can also override the sorting mode by entering 0 on request for the monitor or interphone ID 0. In this case the display shows:



and the sorting procedure is overridden immediately.
In any event, if the panel is reset before the sorting procedure is completed, it is performed on default on subsequent restart, thus ensuring constant validity of the index.
For an entire list, the sorting procedure lasts a little over 10 seconds. If the user attempts to make an alphabetic search before completion, the display shows:



After a few seconds it returns to idle status and the user can re-attempt the required search.

2.2.8. Programming Password

Press to move to the next item in which the user can modify the password used for the programming procedure. The value shown is the current version, which by default is 654321:

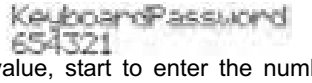
To change the value, start to enter the numbers. All numbers from to are valid.

To cancel press . To confirm, press . Acceptance of the command, as in all cases, is shown on the first line of the display:

Use the key to move to the previous item in the programming menu.

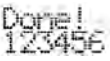
2.2.9. Keyboard password

Press to move to the next item in which the user can modify the password used for locking the keyboard. The value shown is the current version, which by default is 654321:



To change the value, start to enter the numbers. All numbers from to are valid.

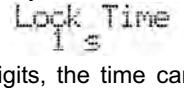
To cancel press . To confirm, press . Acceptance of the command, as in all cases, is shown on the first line of the display:



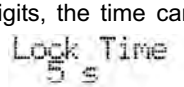
Use the key to move to the previous item in the programming menu.

2.2.10. Lock time

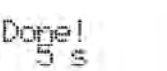
Press to go to the next item in which the user can modify the time for which the lock is activated. The current value is shown on the display:



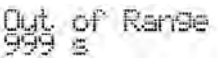
When entering digits, the time can be modified in one-second intervals:



To cancel press . To confirm, press . Acceptance of the command, as in all cases, is shown on the first line of the display:



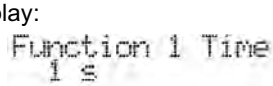
If the time is outside the admissible interval, i.e. over 255 seconds, the first line of the display shows the error:



Use the key to move to the previous item in the programming menu.

2.2.11. Function 1 time

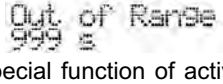
Press to go to the next item in which the user can modify the time for which output F1 is activated. The current value is shown on the display:



When entering digits, the time can be modified in one-second intervals:

To cancel press . To confirm, press . Acceptance of the command, as in all cases, is shown on the first line of the display:

If the time is outside the admissible interval, i.e. over 255 seconds, the first line of the display shows the error:



Value 0 has the special function of activating output F1 for 0.5 seconds:

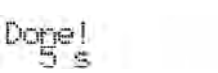
Use the key to move to the previous item in the programming menu.

2.2.12. Function 2 time

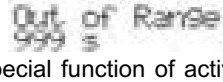
Press to go to the next item in which the user can modify the time for which output F2 is activated. The current value is shown on the display:

When entering digits, the time can be modified in one-second intervals:

To cancel press . To confirm, press . Acceptance of the command, as in all cases, is shown on the first line of the display:



If the time is outside the admissible interval, i.e. over 255 seconds, the first line of the display shows the error:



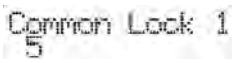
Value 0 has the special function of activating output F2 for 0.5 seconds:

Use the key to move to the previous item in the programming menu.

2.2.13. Common Lock

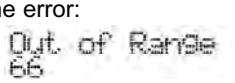
Press to move to the next item in which the user can set for which other lock activations the current panel must activate its output. In practice the lock output of the switchboard can be activated not only for a direct command, but also indirectly so that the lock of a panel (maximum 4) is also activated.
There is no assignment by default:

Enter a number between 1 and 15:



To cancel press . To confirm, press . Acceptance of the command, as in all cases, is shown on the first line of the display:

If the ID is outside the admissible range, the first line of the display shows the error:



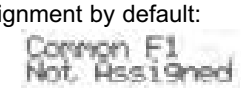
To cancel the assignment, enter a single '0' as the ID.

Use keys and to move from one index to another

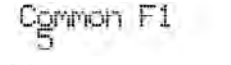
From position 1, press to move to the next item in the programming menu. Use the key to skip all intermediate phases and go to the previous item in the programming menu

2.2.14. Common F1

Press to move to the next item in which the user can set for which other F1 activations the switchboard must activate its output. In practice the F1 output of the switchboard can be activated not only for a direct command, but also indirectly so that the F1 of a panel (maximum 4) is also activated.
There is no assignment by default:

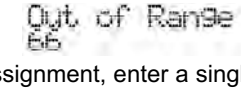


Enter a number between 1 and 15:



To cancel press . To confirm, press . Acceptance of the command, as in all cases, is shown on the first line of the display:

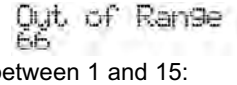
If the ID is outside the admissible range, the first line of the display shows the error:



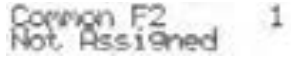
To cancel the assignment, enter a single '0' as ID. Use keys and to move from one index to another and . From position 1, press to move to the next item in the programming menu. Use the key to skip all intermediate phases and go to the previous item in the programming menu.

2.2.15. Common F2

Press to move to the next item in which the user can set for which other F2 activations the switchboard must activate its output. In practice the F2 output of the switchboard can be activated not only for a direct command, but also indirectly so that the F2 of a panel (maximum 4) is also activated.
There is no assignment by default:



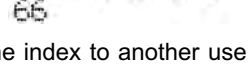
Enter a number between 1 and 15:



To cancel press . To confirm, press . Acceptance of the command, as in all cases, is shown on the first line of the display:

If the ID is outside the admissible range, the first line of the display shows the error:

To cancel the assignment, enter a single '0' as ID.



To move from one index to another use keys and .

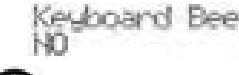
From position 1, press to move to the next item in the programming menu.

Use the key to skip all intermediate phases and go to the previous item in the programming menu.

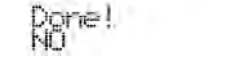
2.2.16. Keyboard beep

Press to move to the next item in which the key press check tone on the panel can be activated (default) or deactivated. The current value is shown on the display:

Press to activate the tone, or to disable



To cancel press . To confirm, press . Acceptance of the command, as in all cases, is shown on the first line of the display:



Use the key to move to the previous item in the programming menu.

2.2.17 Call repeater (present in version 4)

Press the button to go to the next function, by means of which you can choose one of the three outputs: door lock or F1 or F2, which works as call repeater. As default none of the outputs is used. An output used as call repeater cannot be used for its own function.

To change the output, digit:

- 0 to disable the function
```
Ring Repetition
Not Assigned
```
- 1 to use the door lock output
```
Ring Repetition
Door Lock
```
- 2 to use the F1 output
```
Ring Repetition
Function F1
```
- 3 to use the F2 output
```
Ring Repetition
Function F2
```

To cancel press push-button . To confirm press push-button . The command acceptance, as with all other commands, is indicated on the first display line:

```
Done!
Not Assigned
```

Press the button to go to the previous function of the programming menu.

2.2.18. Call filter

Press the button to go to the first function through which it is possible to activate or deactivate (default) the call filter from the monitors / interphones to the switchboard. The filter can be set independently for calls from the internal units or from the entrance panel. By choosing Internal / External mode, the filter assumes the programmed value automatically.

2.2.18.1 In internal mode

The message corresponds to the current value:

```
Int. call filter
Filter off
```

Press 0 to disable the filter, press 1 to enable:

```
Int. call filter
Filter on
```

To cancel press . To confirm, press . Acceptance of the command, as in all cases, is shown on the first line of the display:

```
Done!
Filter on
```

2.2.18.2 In external mode

Press the button to go to the following function through which you can activate or deactivate (default) the call filter from the monitors / interphones to the switchboard on external mode. The message displayed corresponds to the current value:

```
Ext. call filter
Filter off
```

Press the 0 button to deactivate the filter, press the 1 button to activate it.

```
Ext. call filter
Filter on
```

Press to cancel. Press to confirm.
As for all other commands, the command acceptance is indicated on the first display line.

```
Done!
Filter on
```

2.2.19. Switchboard warning time

Press to move to the next item in which the user can select to disabled (default) or modify the frequency of the warning emitted by the switchboard to the MASTER panel that it is connected to the system and operational. This is useful in cases where it is vital to avoid potential switchboard faults which may lead to possible shutdown of the entire system, because the presumed presence of the switchboard inhibits interphones/monitors from ringing. On activation of this setting, the maximum shutdown time is double the same value.
The warning is disabled by default. The switchboard notifies the system that it is operational only when connected or reset:

```
Warn. swcb. time
one time!
```

Use keys 0 .. 9 to change the time from 2 to 50 minutes:

```
Warn. swcb. time
 2 min
```

To cancel press . To confirm, press . Acceptance of the command, as in all cases, is shown on the first line of the display:

```
Done!
 2 min
```

If the time is outside the admissible interval, i.e.2-20 minutes, the display shows the error:

```
Out of Range
 1 min
```

2.2.19. Clock

The clock can be programmed so that the alarm service is performed correctly. The date and time remain stored even when the switchboard is switched off, for at least 2 days, by means of a SuperCap capacitor. There are no batteries of any type. On initial activation of the clock, or when the switchboard is left switched off for a prolonged period, the date is set to 1st January 2005 and the time is set to 00:00

```
Clock
01/01/05 00:00
```

It can be modified via the keypad. Press the key. The modifiable field is indicated by a rectangle to the right:

```
Clock
01 01/05 00:00
```

```
Clock
01/01 05 00:00
```

To move to the right, use the key nd to move to the left use the key. Modify the values by means of the keys 0 ... 9. On completion confirm by pressing . If the values are correct the display then shows:

```
Done!
01/01/05 00:01
```

If there is an error, for example if the month is set as 88, modifications are rejected and the rectangle moves to the position of the error:

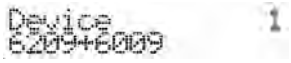
```
Clock
01/88 05 11:35
```

The weekday does not need to be entered as it is calculated automatically.

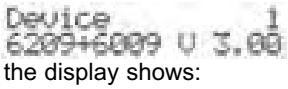
2.3. MONITOR/INTERPHONE CONFIGURATION MODIFICATION

Press to go to the next item in which the user can program the values of a number of flags, programmable keys and call groups for each monitor/interphone. Programming is by means of low level messages sent to the bus of the Elvox 2-Wire system, querying individual monitors/interphones, referred to below in general as “Devices”. For this reason, answers to queries or modifications are not immediate.

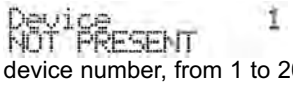
In the preliminary procedure for this function, use keys and to select the device required



The device type is shown on the second line. The device software version number appears on the right:



If this is not present, the display shows:



Otherwise, enter the device number, from 1 to 200:

To cancel press . To confirm, press .

After selecting the required device, press the key to start viewing/modifying the various parameters. The data displayed depends on the type of device and the software version. The following table summarises the information available for each device.

CLASS	MEANING	6209 (+ 6009)	6309
FLAG PROGRAMMING	YES = The monitor switches on when called by the panel (not for 6209 alone)	Device Monitor ON: YES	
	YES = the green led is managed as door open indicator	Device Green LED: YES	
	YES = the lock push-button is used by the device NO = the push-button is used externally		Device Lock: YES
	YES = the stair light push-button is used by the device NO = the push-button is used externally		Device Stair Light: YES
	YES = the self-start push-button is used by the device NO = the push-button is used externally		Device Self-start: YES
	YES = if the F1 / F2 push-button is programmed directly on a specific panel, only panels 1 to 8 can be programmed NO = only panels 9 to 15	Device F1/F2 1-8: YES	
	YES = the device is working in porter switchboard mode	Device SwitchBoard: NO	
	YES = the device sends the lock command on a panel call if P6 is closed	Device Autom. Lock: NO	
	YES = group G3 functions only for external calls	Device G3 ext.only: NO	
	YES = group G4 functions only for internal calls	Device G4 int.only: NO	
	YES = eliminates the click sound when a valid key is pressed	Device Do not beep: NO	
	YES = does not activate the call repeated output for intercommunicating calls	Device No RIPCH IC: NO	
	YES = group G1 functions only for external calls	Device G1 ext.only: NO	
	YES = group G2 functions only for internal calls	Device G2 int.only: NO	
	YES = the monitor / interphone does not ring for intercommunicating calls	Device No int. ring:NO	
	YES = the monitor / interphone does not ring for calls from panels	Device No ext. ring:NO	
PROGRAMMABLE KEYS	P0 is the lock key Functions assigned to push-buttons. P1, P2, P3, P7 and P8 as default (i.e. not programmed) take the specified value	Device P0=Door Lock 1	
		Device P1=Self-start 2	
		Device P2=Stair Light 2	
		Device P3=Auxiliary 2 2	
		Device P4=Not Assigned 2	
		Device P5=Not Assigned 2	
		Device P6=Not Assigned 2	
		Device P7=Function F1 2	
		Device P8=Function F2 2	
GROUPS	First call group programming	Device G1=Not Assigned 2	
	Fourth and last call group programming	Device G4=Not Assigned 2	

CLASS	MEANING	6601	6611	8879
FLAG PROGRAMMING	SI (yes) = the monitor turns on at the entrance panel call (not for 6601/AU or 6611/AU)	Device Monitor ON: YES 2		
	YES = the green LED is managed as door open indicator	Device No RIPCH IC: NO 2		
	YES = if the F1 / F2 push-button is programmed directly on a specific panel, only panels 1 to 8 can be programmed NO = only panels 9 to 15	Device F1/F2 1-8: YES 2		
	YES = the device is working in porter switchboard mode	Device SwitchBoard: NO 2		
	YES = group G3 functions only for external calls	Device G3 ext.only: NO 2		
	YES = group G4 functions only for internal calls	Device G4 int.only: NO 2		
	YES = eliminates the click sound when a valid key is pressed	Device Do not beep: NO 2		
	YES = does not activate the call repeated output for intercommunicating calls	Device No RIPCH IC: NO 2		
	YES = group G1 functions only for external calls	Device G1 ext.only: NO 2		
	YES = group G2 functions only for internal calls	Device G2 int.only: NO 2		
	YES = the monitor / interphone does not ring for intercommunicating calls	Device No int. ring: NO 2		
	YES = the monitor / interphone does not ring for calls from panels	Device No ext. ring: NO 2		
PROGRAMMABLE KEYS	SI (Yes) = the pressing of the door lock push-button terminates the conversation. (Default value in model /F of monitor) NO = the door lock push-button operates normally From version 4 of monitors and entrance panels	Device DoorLock End: YES 2		
	SI (Yes) = to activate the audio line press the talk/listen push-button. To deactivate the audio line press the push-button again. (default value in model /F of monitor) NO = to activate the audio line the talk/listen push-button must be kept pressed. From version 4 of monitors and entrance panels.	Device T./L. On/Off: YES 2		
	P0 is the lock key Functions assigned to push-buttons. P1, P2, P3, P7 and P8 as default (i.e. not programmed) take the specified value.	Device P0=Door Lock 1		
		Device P1=Self-start 2		
		Device P2=Stair Light 2		
		Device P3=Auxiliary 2 2		
		Device P4=Not Assigned 2		
		Device P5=Not Assigned 2		
		Device P6=Not Assigned 2		
		Device P7=Function F1 2		
		Device P8=Function F2 2		
GROUPS	First call group programming	Device G1=Not Assigned 2		
	Fourth and last call group programming	Device G4=Not Assigned 2		
LEVELS	Ringtone volume	Device Ringer Volume 2 7		
	Hands free volume	Device HandsFree Vol. 3 7		
	Ringtone type	Device Ringer Type 2 5		
	Monitor brightness (not AU versions)	Device Brightness 2 3		
	Monitor contrast (not AU versions)	Device Contrast 6 4		

2.3.1. Flag programming

To modify one of the flag settings (YES / NO) use key for NO and for YES. To confirm, press . For example, press and on the item “green LED ” to display the confirmation

Use the key to skip all intermediate phases and go to the next group; from flags the system goes to programmable keys, then to groups, and then from groups to flags

2.3.2. Programmable keys

To modify the programmable keys, select the item required using and , or by pressing one of the keys ... directly. Then press A list of assignable functions to each key is displayed, seen in the following order by means of the key , starting from the current value of the push-button:

FUNCTION	DESCRIPTION
Choose function: Not Assigned	The key takes on the default value. For keys P1, P2, P3, P7 and P8 the default is a function, as specified in the table above.
Choose function: Intercom.	The key makes an intercommunicating call
Choose function: Self-start	The key activates a specific panel
Choose function: Auxiliary	The key activates one of the relay types 692R and 69RH
Choose function: Function F1	The key activates the output F1 of the panel in conversation or the last one used
Choose function: Function F2	The key activates the output F2 of the panel in conversation or the last one used
Choose function: Function F1 spec.	The key activates the output F1 of a specific panel
Choose function: Function F2 spec.	The key activates the output F2 of a specific panel
Choose function: No Ring Int.Call	The key switches the ringtone mute function for intercommunicating calls
Choose function: No Ring Ext.Call	The key switches the ringtone mute function for panel calls

After selecting the required function, press . A specific procedure exists for each function.

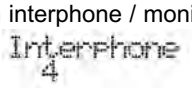
20.3.2.1. Not Assigned

No further parameters are required, and therefore the procedure is completed as follows:

For keys P0, P1, P2, P3, P7 and P8 a value other than Not Assigned is then displayed, because, if not programmed, these keys have a specific function.

2.3.2.2. Intercommunicating

Enter the ID of an interphone / monitor from 1 to 200:



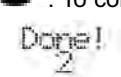
To cancel press . To confirm, press .

the display changes as follows, to specify the intercommunicating function:

2.3.2.3. Self-start

Enter a panel ID from 1 to 15:

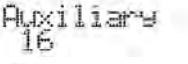
To cancel press . To confirm, press .



the display changes as follows, to indicate the specific self-start function:

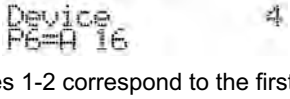
2.3.2.4. Auxiliary

Enter the ID of an auxiliary from 1 to 16:



To cancel press . To confirm, press .

the display changes as follows, to specify activation of an auxiliary:



Note that auxiliaries 1-2 correspond to the first and second relay of the first actuator. Auxiliaries 15-16 correspond to the relays of the eighth actuator.

2.3.2.5. F1 function

No further parameters are required, and therefore the procedure is completed as follows:

after which:

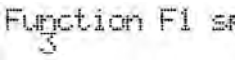
2.3.2.6. F2 function

No further parameters are required, and therefore the procedure is completed as follows:

after which:

2.3.2.7. F1 function specific

This is an F2 output command of a specific panel. Enter a panel ID from 1 to 15:



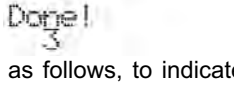
To cancel press . To confirm, press .

the display changes as follows, to indicate the specific F1 function:

2.3.2.8. F2 function specific

This is an F2 output command of a specific panel. Enter a panel ID from 1 to 15:

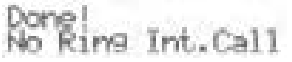
To cancel press . To confirm, press .



the display changes as follows, to indicate the specific F2 function:

2.3.2.9. Intercommunicating call ringtone mute

No further parameters are required, and therefore the procedure is completed as follows:



after which:

2.3.2.10. Panel call ringtone mute

No further parameters are required, and therefore the procedure is completed as follows:

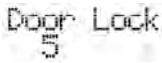
after which:

2.3.2.11. Lock key

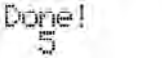
The lock key of the panels can also be reconfigured. By default, it activates the lock of the panel with which it is currently communicating or with which it last communicated. If suitably programmed, the lock of the same panel can be activated at any time, regardless of which panel is communicating.

FUNCTION	DESCRIPTION
Choose Function: Not Assigned	The key takes the default value, i.e. lock activation on the panel with which the interphone / monitor is or was last in contact with.
Choose Function: Door Lock	The key activates the lock of the specific panel

If activation of a specific panel is selected, press and specify the panel number from 1 to 15:



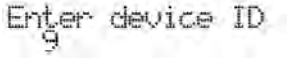
To cancel press . To confirm, press .:



the display changes as follows, to indicate the specific function:

2.3.3. Group call

To specify which device is one of the 4 group masters for the monitor / interphone being programmed, move to the item of the corresponding menu and press . Then enter the number of the group master, from 1 to 200:



To cancel press . To confirm, press . The display changes as follows:

To cancel the group master, enter 0 as the ID:

2.3.4. Levels

The monitors 6611 and interphone 6611/AU enable the adjustment of certain levels by means of software commands.

2.3.4.1. Ringtone volume

This is the volume of the ringtone, for panel calls, intercommunicating calls and door calls. To change the volume, press a key from 0 (ringtone mute) to 8 (maximum volume):

To cancel press . To confirm, press . The display changes as follows:

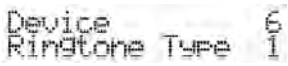
2.3.4.2. Hands-free volume

This is the hands-free volume during conversations. To change, press a key from 0 (minimum volume) to 8 (maximum volume):

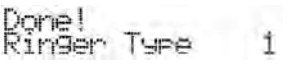
To cancel press . To confirm, press . The display changes as follows:

2.3.4.3. Ringtone type

This is the volume of the ringtone, for panel calls. To change, press a key from 0 to 6:



To cancel press . To confirm, press . The display changes as follows:



2.3.4.4. Brightness (not AU versions)

This is the level of monitor brightness 66x1 and 67x1. To change, press a key from 0 (minimum brightness) to 7 (maximum brightness):

To cancel press . To confirm, press . The display changes as follows:

2.3.4.5 Monitor contrast (not AU versions)

This is the level of contrast on monitors type 66x1 and 67x1. To change, press a key from 0 (minimum contrast) to 7 (maximum contrast)

To cancel press . To confirm, press . The display changes as follows:

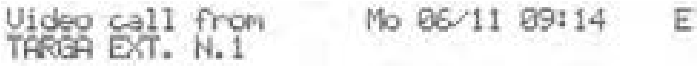
3. OPERATING MODES

This chapter describes the operations which must be made with the switchboard in order to communicate with a panel or internal device, or to enable intercommunicating calls between two internal devices.

As described above (see paragraph 2.1.2), the switchboard can operate in two separate ways: external and internal mode.

3.1. SWITCHBOARD IN EXTERNAL MODE

In this mode the switchboard can only receive calls from a panel whose sole recipient is the switchboard; if a call is made from the panel to the switchboard with the same ID as the recipient, the switchboard display shows the following type of message:



This message appears at the same time as a call signal on the loudspeaker of the switchboard base; after raising the handset from its seat, the operator can then enter in communication with the panel making the call.

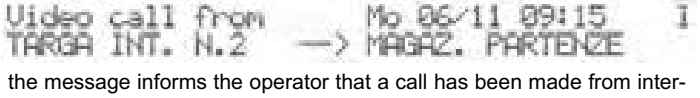
3.2. SWITCHBOARD IN INTERNAL MODE

When the switchboard is set to internal mode, all external calls received (from panels) are checked and routed by the switchboard.

Note: in this mode, the switchboard can always receive external calls specifically directed to its ID (direct call to switchboard), in which case the items shown on display are the same are those described in the above paragraph except that the I icon is displayed (top right).

3.2.1. Panel call to internal device

In this case the call is made from a panel specifically to an internal number, but this call is diverted to the switchboard. At the same time as the call signal, the switchboard display shows the following type of message: In the example:



the message informs the operator that a call has been made from internal panel N.2 to the internal unit DEPARTURES WAREHOUSE.
If the operator does not want to answer, he can cut off the call directly using the R key, or answer by simply raising the handset to enter into communication with the caller panel, in which case the display shows the following message type:

At the same time, the green LINE LINE LED illuminates to indicate that audio communication is active with the switchboard.

The switchboard operator can then put the caller panel into communication with the required internal device according to the following sequence of operations:

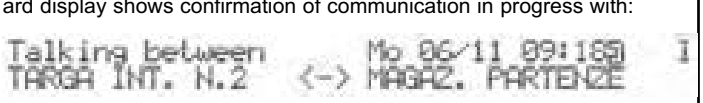
- press the key to put the caller panel on hold, at which point the following sequence is displayed:

alternating with:

- make the call to the internal device requested by pressing . The following text is displayed:

alternating with:

- if the internal device consents, the switchboard operator uses the key to connect the caller panel to the internal device, and the switchboard display shows confirmation of communication in progress with:



At the same time, the green INTERC LED illuminates to indicate that audio communication is active between the panel and internal device. At the same time the LED indicating communication with the switchboard LINE switches off.

- if the internal device does not exist or is not properly connected to the riser, the display shows the message:

The switchboard then automatically returns to communication mode with the panel previously put on hold. In this case, audio communication is resumed with the requesting panel: at this point, a call can be ended or repeated from the switchboard to any internal device to connect tit to the panel according to the procedures described above. The same happens if the internal device called is effectively connected to the system but does not answer the call (the handset release from the monitor/interphone is not performed). It is always possible to override the return to the panel on hold from the switchboard by means of the key to resume audio communication. In a similar way to above, a call can be ended or repeated to any internal device (by first setting the panel on hold) according to the procedures described above. Communication between the panel and internal device terminates when the internal device handset is replaced or when the preset communication time interval has elapsed.

Note:

The switchboard, by means of the enable key (preceded by a suitable warning tone), can intercept communication to request interruption: this would be for the purpose of releasing the riser and enabling other calls to or from internal devices controlled by the switchboard. After the audio enable key is pressed , the switchboard operator can end the active call by means of the key .

3.2.2. Internal call to switchboard

In internal mode, the switchboard can also receive calls from an internal device. The call is made by pressing the lock key of an interphone that has the hook raised and without other operations in progress; in practice this means the user has to raise the hook and press the lock key. It must also be enabled by programming the switchboard to = YES (default), see instructions for panels 89F3-5-8 or 89F4-7-9 or for programmer 950C. The call request by an internal device is indicated by activation of the loudspeaker on the base of the switchboard and by the display message:

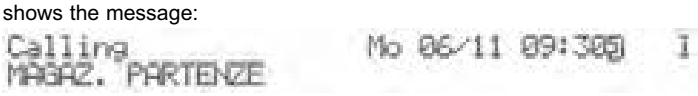
If the operator does not want to answer, he can cut off the call directly using key, or answer by simply raising the handset. This action

At the same time, the green LINE LED illuminates to indicate that audio communication is active with the switchboard. Communication terminates when the switchboard operator or internal caller handset is replaced or when the preset communication time interval has elapsed.

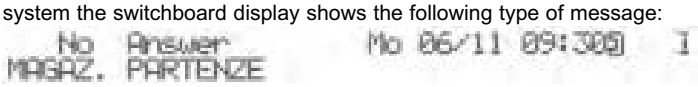
3.2.3. Call from switchboard to internal device

As well as receiving calls the switchboard can also make calls to internal devices. With the switchboard handset raised, the number of the required internal device is dialled via the numerical keypad, followed by key for confirmation.

In this way the call is sent to the required internal device, and the display shows the message:



If the internal device does not exist or is not properly connected to the system the switchboard display shows the following type of message:



Audio communication between the switchboard and internal recipient is indicated by following type of message:

The switchboard envisages three types of numerical selection associated with an internal device:

- natural encoding: in this case the number to dial coincides with the HW ID of the internal device (monitor/interphone) to be called;
- 4_digit: a 4-digit code is associated, which represents a unique ID of the internal device to be called;
- 8_digit: an 8-digit code is associated, which represents a unique ID of the internal device to be called;

These encoding methods are set in the switchboard SW configuration menu (see paragraph: 2.2).

At the same time, the green LINE LED illuminates to indicate audio communication active with the switchboard.

As in the previous cases, communication terminates when the switchboard operator or internal caller handset is replaced or on elapse of the set communication time interval.

3.2.4. Intercommunicating call between two internal devices

The switchboard is designed to connect and establish communication between two internal intercommunicating devices. Two internal devices can always communicate, independently from the switchboard. The procedure to establish intercommunicating conversation between two internal devices by the switchboard is as follows:

The switchboard calls the first internal device:

The switchboard operator enters audio communication with the first internal device and puts the user on hold by means of the key. The switchboard operator dials the second internal device number and confirms by means of the key.

If the call recipient accepts, the switchboard connects the two internal devices by means of key and . The switchboard display shows the following message to indicate that communication is in progress:

At the same time, the green INTERC LED illuminates to indicate that audio communication is active between the two internal devices. At the same time, the LED indicating communication with the switchboard LINE turns off.
Communication between the two internal devices terminates when one of the handsets is replaced or when the preset communication time interval has elapsed.
Also in this case, the switchboard can intervene in the communication according to the same procedure as described in paragraph 3.2.1.

3.3. ACTIVATION COMMANDS: LOCAL AND REMOTE

In normal operating mode, the switchboard envisages two methods for activating controls related to the lock and auxiliary functions F1 and F2 (local and/or related to a remote panel). Both are available by means of the lock key .

3.3.1. Mode without communication

With the switchboard in rest status, the key enables access to the menu related to local and remote controls. The following message is displayed:

```
Activ. panel N. 1    Mo 06/11 09:35    I
Local act.:1=F, 2=F1, 3=F2, R=Exit
```

alternating with:

```
Activ. panel N. 1    Mo 06/11 09:35    I
Act. panel: 4=F, 5=F1, 6=F2
```

the displayed panel is the last panel with which the switchboard was in communication. As default it is the 1, i.e. the MASTER.
The pressing of the numerical push-buttons indicated on the second line of the display enables the local or remote switchboard operation (criteria for door lock and auxiliary functions F1 and F2).

ACTIVATION	DOOR LOCK	F1	F2
LOCAL	1	2	3
REMOTE	4	5	6

Upon each activation, the respective icon appears at the top right-hand side of the display.

```
Activ. panel N. 1    Mo 06/11 09:36  F I
Local act.:1=F, 2=F1, 3=F2, R=Exit
```

By pressing the and buttons, it is possible to select the increasing or decreasing order the number of the panel on which to perform the operations in question, with the number keys shown on the second line of the display:

Press the push-button to return

3.3.2 Mode for “communication with the entrance panel”.

With the switchboard in “communication with the entrance panel” mode, by pressing the button it is possible to operate locally with the switchboard or to activate remote operations related to the connected entrance panel. All instructions are as per the previous paragraph, with the exception of the button, which you can press to go back to the previous switchboard view.

3.4. SWITCHBOARD APPOINTMENTS

Up to 10 appointments can be inserted in relation to the porter switchboard only. Each appointment can be associated with a different text note of maximum 40 characters. Each appointment may (or may not) have a periodic repetition. The available repetitions are:

- No repetition (single). The event occurs once only at the set date and time and is then disabled.
- Annual repetition. The event is repeated each year at the same set time.
- Monthly repetition. The event is repeated each month at the same set time. If a month does not have a sufficient number of days (for example if programmed for the 30th day and the current month is February) the last effective day is selected.
- Alarm. A series of days can be specified in which the appointment is activated at a set time.
- Weekly repetition. The event is repeated each week at the same set day and time.
- Daily repetition. The event is repeated every day at the same set time.
- Hourly repetition. The event is repeated at the selected hour interval starting from the set time.

Enter programming mode by pressing + . Use keys and to move from one appointment to another, or press for appointment 1, for the second, for the tenth and so on. From position 1, press to move to internal device appointments.

Use key to skip all intermediate phases and go directly to the internal device appointments.

To enable or disable an appointment, press the key.

The enabled status us indicated by the symbol in the last position. This operation can be performed independently from modifications to the appointment.

To modify an appointment, press the key. If the appointment has never been programmed, a unique event is proposed
at the current date and time.

This can be modified by moving through the fields using keys and . Once in the selected field, highlighted by the symbol , use keys ... for the numerical fields.

```
Appointment  1        Mo 06/11 09:38
.MTWTF.   15:49
```

For the month field, enter the number 01 for January, through to 12 for December.
For fields requiring a weekday, use the keys according to the following scheme:

KEY	DAY
1	Sunday
2	Monday
3	Tuesday
4	Wednesday
5	Thursday
6	Friday
7	Saturday

To confirm the appointment, press . If all is correct, the new selections are saved; otherwise the error message is displayed.

and the inconsistency is shown by the symbol :

To change the text associated with the appointment, press the key.

On completion, confirm by pressing or press to cancel. To enter a text, use the same technique described in paragraph 2.2.7 regarding device names. Remember that the maximum length of a text is 40 characters.To change the type of repetition, press the key while in appointment editing mode. Depending on the previous situation and position, the configuration changes.

When the switchboard is in the rest status, the system checks whether the time of the first active appointment has elapsed according to the natural sequence. The check is performed every minute but is not synchronized with the clock.
If the time has elapsed, the switchboard speaker emits three beeps at a frequency of approx. 1300 Hz and duration of 200 ms with pauses of 200 ms for 60 seconds, with a repetition cycle of 2 seconds. The second line of the display shows the message programmed together with the event.

If no message is entered, a default version is displayed:

To inform the switchboard that the event has been acknowledged, press the key before the timeout of 60 seconds.

REPETITION	DISPLAY	NOTE
None	Appointment 3 25#May 06 12:02	Default or compile fields set to '—'
Annual	Appointment 3 25 May —#12:02	Press R at the year from which to start from no repetition
Monthly	Appointment 3 25#—— — 12:02	Press R at the month from which to start from no repetition
Alarm	Appointment 3 ....T..# 12:23	Press R at the day of the month from which to start from no repetition. Press R again to return to no repetition
Weekly	Appointment 3 —#Th — 12:33	Press R at the year from which to start no repetition and then press at the day of the month
Daily	Appointment 3 —#Th — 12:33	Press R at the year from which to start no repetition, then press at the month, and lastly press at the day of the month
Hourly	Appointment 3 —#—— 6 12:43	Press R at the year from which to start no repetition and then press at the day of the month

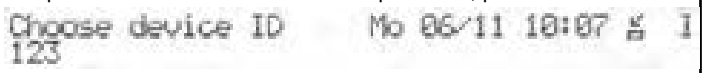
3.5. INTERNAL DEVICE APPOINTMENTS

An appointment can be entered for each system interphone/monitor. Unlike the switchboard appointments, no text notes may be associated. Each appointment may (or may not) have a periodic repetition. The available repetitions are:

- No repetition (single). The event occurs once only at the set date and time and is then disabled.
- Annual repetition. The event is repeated each year at the same set time.
- Monthly repetition. The event is repeated each month at the same set time. If a month does not have a sufficient number of days (for example if programmed for the 30th day and the current month is February) the last effective day is selected.
- Alarm. A series of days can be specified in which the appointment is activated at a set time.
- Weekly repetition. The event is repeated each week at the same set day and time.
- Daily repetition. The event is repeated every day at the same set time.
- Hourly repetition. The event is repeated at the selected hour interval starting from the set time.

Enter programming mode by pressing R + 2, in the same way as for switchboard appointments. Press R to you move to the internal unit appointments. Use keys ↑ or ↓ to move from one appointment to another, or enter the internal device number from 1 to 200.

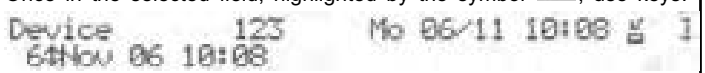
and press 🔔 to confirm. From position 1, press ↓ to move



to the next item in the programming menu. Use R key to skip all intermediate phases and go directly to the switchboard appointments. To enable or disable an appointment, use 🔑 key. The enabled status us indicated by the symbol ⁞⁞ in the last position. This operation can be performed independently from modifications to the appointment.

To modify an appointment, press the 🔔 key. If the appointment has never been programmed, a unique event is proposed at the current date and time. This can be modified by moving through the fields using keys ↑ or ↓.

Once in the selected field, highlighted by the symbol ⁞⁞, use keys.



0 for the numerical fields. For the month field, enter the number 01 for January, through to 12 for December. For fields requiring a weekday, use the keys according to the following scheme:

KEY	DAY
1	Sunday
2	Monday
3	Tuesday
4	Wednesday
5	Thursday
6	Friday
7	Saturday

To confirm the appointment, press 🔔. If all is correct, the new selections are saved; otherwise the error message is displayed.

and the inconsistency is shown by the symbol ⁞⁞:

To change the type of repetition press the R key while in appointment editing mode. The configuration changes according to the previous situation and position. Refer to the table in the previous paragraph.

Each minute, though not synchronized with the clock, the system checks whether the time of the first active appointment has elapsed according to the natural sequence regarding the interphones/monitors. If the interphone/monitor is in the rest status, a 50-second timer is started up on the addressed device, during which the device emits three beeps at a frequency of approx. 1300 Hz for a duration of 200 ms with pauses of 200 ms, and a repetition cycle of 2 seconds. If the user raises the handset, the device sends a message to the switchboard to notify him/her of the answered call. At the same time, the handset will emit a tone at a lower frequency but at the same interval for a maximum time of 30 seconds, after which the tone is replaced by silence. Starting from a situation with the hook raised, the sound will first be emitted on the loudspeaker, after which when the handset is replaced the standard situation is restored in which the call can be answered as described previously. If the switchboard does not receive an answer within 55 seconds, it will consider the call unanswered and will place it in the unprocessed category.

3.6. EVENT MANAGEMENT

Switchboard type 945F memorises up to 200 events, divided into:

- Unanswered calls
  - or Call to interphone/monitor in internal mode
  - or Calls to switchboard by an interphone/monitor
  - or Call to switchboard by a panel
- Warnings
  - or Use of codes for lock, F1 or F2 from a panel type 89F4-7-9
  - or Alarm

When there is at least one event, the icon area displays the corresponding symbol and the MEMORY LED lights up. A certain type of event involving the same object replaces the less recent event. For example if an interphone/monitor calls the switchboard several times, only the last call appears in the events list. This is to avoid filling the list when calls are made repeatedly to the switchboard.

3.6.1. Viewing the list

Press the key from rest statues to view the most recent event:

```
                          Mo 06/11 10:24 I
[001/008]15/03 08:56 Extern.Call3
```

The information displayed is read as follows:

1. This is the first of 8 events [001/008]
2. The event occurred on 15 March at 8.56 am
   15/03 08:56
3. The event is a call from a panel to an interphone/monitor with the ID 3 Extern.Call3

If the interphone/monitor with ID 3 has an associated name, this appears in place of the number:

```
                          Mo 06/11 10:23 I
[001/008]06/11 10:21 Extern.CallChiara
```

This applies provided that the length is less than or equal to 8 characters. In the case of longer names, the display changes using the symbols:

```
                          Mo 06/11 10:21 I
[001/008]06/11 10:21 =>Benedetta
```

If an interphone/monitor calls the switchboard and receives no answer because the switchboard is not manned at the time, the event is displayed as:

```
                          Mo 06/11 10:31 I
[001/009]06/11 10:28 Swb. Call  6
```

Once again, the event may appear in the form of its entire name if the length is less than or equal to 8 characters:

```
                          Mo 06/11 10:30 I
[001/009]06/11 10:28 Swb. Call  Giulia
```

Or the event will be displayed in abbreviated symbolic form if the name length exceeds 8 characters:

```
                          Mo 06/11 10:29 I
[001/009]06/11 10:28 Margherita
```

However, an event such as the use of a lock code is displayed as follows:

```
                          Mo 06/11 10:27 I
[001/009]06/11 10:27 Use lock key     68
```

An appointment event for the switchboard to which no answer was given is displayed as:

```
                          Mo 06/11 10:32 I
[004/004]06/11 10:02 Switchboard app.  3
```

Press the key to see the associated text:

```
                          Mo 06/11 10:32 I
Wake-up
```

CAUTION: THE TEXT IS VALID ONLY IF THE APPOINTMENT HAS NOT BEEN CANCELLED OR MODIFIED.

An alarm event (appointment for internal device) to which no answer was given, is displayed as follows:

```
                          Mo 06/11 10:36 I
[001/005]06/11 10:34 Device Appoint.  7
```

Press to scroll through all events in sequence. After the last event the cursor returns to the first.

3.6.2 Extraction of number from list

If the event is an unanswered call or appointment for internal device, the key enables extraction of the relative ID, thus enabling subsequent calls to the interphone/monitor concerned.

```
 Dial digits              Mo 06/11 10:37 I
3_
```

The key makes the call, and cancels extraction.

At the same time the event is cancelled. cancels the event in any case, even if it is not a call.

3.6.3. Cancelling a list

To delete all events without viewing them, from the switchboard rest status, press and hold for three seconds. The display confirms deletion:

```
                          Mo 06/11 10:41  I
NO EVENTS
```

Note that the symbol and the MEMORY LED are now off.

When a new event is added to the list, the MEMORY LED flashes quickly in the event that this event cannot be served.
For example, if the switchboard is in programming mode, and a call arrived from an interphone or panel, these are denied and added to the list. To return to the normal situation, consult at least one item in the list of events. The LED turns to steady or switches off if there are no more events.

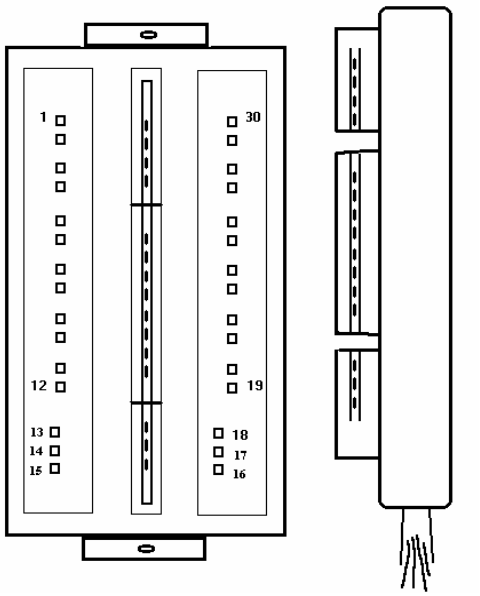
3.6.4. Corrupt list

If the symbol is flashing, this means that the list is corrupt and that it must be deleted, retrieving events where possible, before other events can be added. This must never occur during normal switchboard operation. If this does occur, contact technical assistance.

4. INSTALLATION

4.1. SYSTEM CONNECTION TERMINAL BLOCK

The switchboard receives power and can be integrated into in any Elvox 2-Wire system by means of an external terminal block called BOSS. This comprises two rows of terminals to which all signals required by the switchboard are connected. A comb type connection between the terminal block and a multi-pole cable, which is fitted with a suitably polarised connector (PLUG), returns the signals directly to the switchboard interior. The boss envisages one method of insertion of the comb type connector on the multi-pole connector: this polarisation prevents incorrect power supply to the switchboard.
The following illustrates the connection boss and relative meaning of each terminal:



Connection stud (switchboard-riser)

The stud consists of:
- base equipped with a double row of terminals (15 terminals each side)
- free polarized plug to insert in connector and base comb (the free plug connects 30 wires, whose code is indicated in the cross-reference table in the technical documentation).

Name terminal boss (corresponding terminal number)	**Mark**	**Colour of corresponding wire**	**Switchboard signal analogue**
1	V	Coaxial cable (internal wire)	Video signal from camera
2	M	Coaxial cable (sheath)	Video ground from camera
3		Grey-Green	
4		White-Violet	
5		Blue	
6	SR	Red	Lock output (open collector)
7	M	White-grey	Ground
8	F2	White-Orange	F2 output (open collector)
9	F1	Grey_Violet	F1 output (open collector)
10	-L	White-Black	Switchboard active output (open collector)
11	~	Grey red	Supply voltage from type 6923
12	~	Dark grey	Supply voltage from type 6923
13	M	Violet	Ground
14	2	White-Yellow	Cable riser Bus 2
15	1	Red (Ø 0.5)	Cable riser Bus 1

Name terminal boss (corresponding terminal number)	**Mark**	**Colour of corresponding wire**	**Switchboard signal analogue**
16	+12	Blue (Ø 0.5)	+12V max 100mA to monitor 6009 or for F1 / F2 / SR
17	CV	Dark green	Monitor 6009 video presence/ command
18	+E	Light green	Rectified ~ voltage output
19	+L	Dark brown	Switchboard active output (positive 12V command)
20	M	Yellow	Ground
21	A	Black	DTMF telephone interface
22	M	Orange	Ground
23	TO	Pink	Telephone Interface audio output
24	TI	White	Telephone Interface audio input
25	RX	Medium blue	Data input from telephone interface
26	TX	Grey-Black	Data output from telephone interface
27	+5	Light grey	Telephone interface supply voltage
28	M	Grey-Blue	Ground
29		Light brown	
30		Grey-Orange	

4.2. MONITOR BOSS FOR SWITCHBOARD 945F

The monitor 6009 with desktop base 6A92 is fitted with a cable, one end of which has a plug for connection to a boss with the following connections. External connections are also specified between the two bosses to ensure correct system operation.

Mark terminal boss	Colour of corresponding wire	Terminal boss 4945F (Number/ name)
+12 / 15	Light blue	16 / +12
CH / 14	White	17 / CV
1 / 13	Pink	15 / 1
2 / 12	Orange	14 / 2
E+ / 11	Blue (Ø 0.5)	
E- / 10	Red (Ø 0.5)	
FP / 9	Black	
M / 8	Yellow	13 / M

If used, terminals E+ and E- are connected respectively to terminals +U and - of an additional power supply type 6923, different from that connected to the switchboard.

CAUTION: STRICTLY OBSERVE ALL CONNECTIONS ON ALL MOUNTINGS. INVERTED CONNECTIONS IN WIRING MAY LEAD TO DAMAGE TO THE SWITCHBOARD AND / OR MONITOR.

4.3. WIRING DIAGRAMS FOR CONNECTION TO 2-WIRE SYSTEM

The switchboard has three standard installation configurations:

CONFIGURATION A: base configuration type A, where the switchboard is connected to the main cable riser on which monitors/interphones and main/secondary panels are connected;

CONFIGURATION B: base configuration type A, where the switchboard is connected to the main cable riser on which main/secondary panels and separators are connected (each separator activates a cable riser reconnected to user devices only: interphones/monitors);

4.4. SERVICE SERIAL LINES

4.4.1. Interface with personal computer

For use with type 692I and the SaveProg program version 1.0.1.0 or later. Enable management of switchboard programming as if it were a panel, thus the user can read a file, write from a file, edit names etc. It is also possible to merge the remapping and/or names of a panel in a switchboard or between two switchboards or any other combination.

5. TELEPHONE INTERFACE TYPE 69TF

The interface type 69TF enables remote control of the switchboard keyboard, by simulating it on the keypad of a wired or cordless phone.

NOTE: THE INTERFACE ONLY RECOGNISES MT TONE DIALLING AND NOT PULSE DIALLING (DC).

Unlike the option on the switchboard, dialling is not possible with the handset replaced, unless redialling from the telephone.

When the telephone is raised, the icon is always replaced by to notify the user that the telephone is not in the rest status. Audio must always be assigned to the switchboard if its handset is raised at the same time as the telephone handset.
Communication can be transferred from the switchboard to the telephone and vice versa, by simply passing from a situation in which the handset of both devices is raised, to then replace the unit which is to be excluded from the conversation.

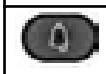
5.1. NIGHT-TIME SERVICE

The telephone can dial from any switchboard status. However it only rings if the switchboard has the Night-time service option. With the switchboard set to night-time service and all handsets in the rest status, an icon appears in place of the hook icon to indicate that the service is active. To change to Night-time Service, press and hold keys and together. On each changeover, if enabled, the loudspeaker emits a beep at 400Hz for 500 ms.

NOTE: THE TELEPHONE RINGS ONLY IF THE SWITCHBOARD IS SET TO NIGHT-TIME SERVICE, BUT CAN DIAL AND THE HOOK IS ALWAYS ENABLED.

5.2. CORRESPONDENCE BETWEEN KEYS ON SWITCHBOARD AND REMOTE TELEPHONE

The corresponding keys between the switchboard and telephone keypad are shown in the following table

SYMBOL KEY	TELEPHONE KEYS
	0....9
	*
	#
	FLASH + 1
	FLASH + 2
	FLASH + 3
	FLASH + 4
	FLASH + 5
	FLASH + 6
	FLASH + 7
	FLASH + 8
and at the same time	FLASH + 9
and at the same time	FLASH + 0
and at the same time	FLASH + *
and at the same time	FLASH + #

It has been decided to associate a * and a # because they have the same position on the switchboard keyboard and on the telephone keypad.
The FLASH key is often indicated on telephones as R, but is has been described with the full term here to avoid confusion with the switchboard key . If the FLASH key is pressed inadvertently, it can be cancelled by pressing the same key again. In any event, the FLASH is cancelled if no digit follows within 5 seconds.
Any command can be performed virtually, including switchboard programming.

Two keys cannot be pressed simultaneously, unless as specified in the table above.

Obviously the switchboard display is not shown on the telephone display, and so the user has to proceed without the option of viewing information.

5.3. EXAMPLES OF REMOTE TELEPHONE USE

The following describes the operations to answer a panel call on the telephone, with subsequent routing to a user different from the original recipient. On reception of the call from the panel, the telephone rings together with the switchboard.
To answer, simply activate the telephone by raising the handset, pressing open voice key or specific answer key.

To put the external user on hold, type ➔ FLASH + 3.
Dial the required internal number.

Confirm by pressing ➔ #.

On answer, transfer the call by means of ➔ FLASH + 5.

5.4. CONNECTIONS TO BOSS

The 6-way terminal located to the lower left in CS2741, is connected by means of 6 wires to the switchboard boss:

Mark terminal block	945F boss terminal (Number / name)
A	21 / A
M	22 / M
TO	23 / TO
TI	24 / TI
RX	25 / RX
TX	26 / TX

WIRING DIAGRAM

TWO WIRE ELVOX

* BUS TERMINATION TABLE FOR ELVOX TWO-WIRE SYSTEMS

This note applies to all devices with ELVOX TWO-WIRE technology equipped with the “BUS termination connector”, identified on the electronic card with the “ABC” marking and signalled on the wiring diagrams with a “*”.
To adjust the video signal, fit the jumper onto the strip socket connector.
Follow this rule for correct line adjustment:

- keep the jumper in position "A” if the BUS line “passes through” the device;
- keep the jumper in position "A" if the device is connected to a distributor type 692D, 692D/1 or 692D/2
- in the last device, move the jumper into position “B” in the following cases:
  - the “BUS” line “ends within” the same device (the last device in “pass through” configuration)
  - the video signal of the connected distributors type 692D/1 or 692D/2 is unsatisfactory.
- if the video signal adjustment is unsatisfactory with the jumper in position "B", try position "C".

“A” → NO TERMINATION
“B” → TERMINATION 100 Ohm
“C” → TERMINATION 50 Ohm

(*) On circuit boards bearing the “ABCD” marking instead of “ABC”, consider the following correspondences: A = AB; B = BC; C = CD.

* * INSTALLATIONS WITH PASSIVE DISTRIBUTOR 692D

For each device connected to type 692D:

1. on connector ABC in any article connected to one of the outputs 1, 2, 3, 4 of type 692D, THE JUMPER MUST BE KEPT IN POSITION “A”;
2. on connector ABC in any article connected to output OUT of type 692D, THE JUMPER MUST BE INSERTED IN POSITIONS “B” OR “C”.

For termination of type 692D:

3. If output OUT of type 692D is not used, KEEP THE JUMPER ON CONNECTOR “A” OF TYPE 692D.
4. If output OUT of type 692D is used, REMOVE THE JUMPER FROM CONNECTOR “A” OF TYPE 692D.

In some versions of type 692D there are also the strip socket connectors “B”, “C” and “D”. In this case NEVER INSERT A JUMPER IN THEM.

* * * INSTALLATIONS WITH ACTIVE DISTRIBUTOR 692D/1 and 692D/2

In these articles the BUS input and output are terminals (1-2, B1-B2, in type 692D/2). The jumper is to be set on “B” (or on “C”) IF AND ONLY IF these terminals are not used to continue the BUS (there is no device connected for the line termination).

Conductor section				
Terminals	Ø up to 10m	Ø up to 50m	Ø up to 100m	Ø up to 150m
1, 2, B1, B2 (*)	0,5 mm^2	0,5 mm^2	0,75 mm^2	1 mm^2
Cable	Type 732H	Type 732H	Type 732H	Type 732H
Electric lock	1,5 mm^2	-	-	-
Other: -, +U, +I, -L (#)	1 mm^2	1 mm^2	1,5 mm^2	2,5 mm^2
Video	Coaxial cable 75 Ohm type RG59 o RG11			

* On video colour installations use cable type 732H for a maximum distance of 75 metres.

Additional power supplies (type 6923, 6582, 6982) must be installed as close as possible to the device to which they are to be connected.

WIRING DIAGRAM:

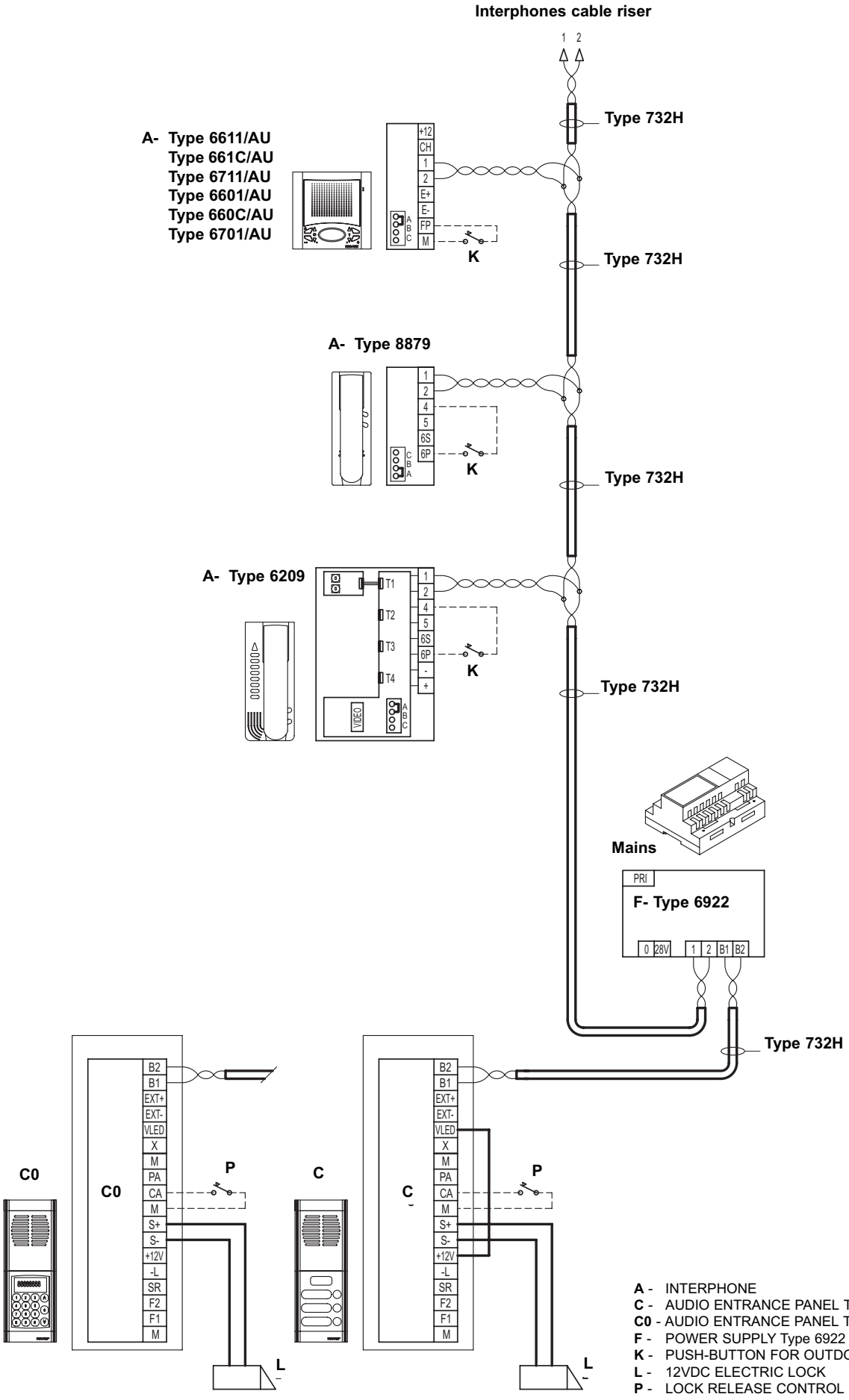
Diagram for audio door entry system (REF. SI435)
The following diagram can be applied for the following types of systems.

Necessary programming:

Single residence system with one entrance panel and one audio door entry unit.
- (Pgr06) assigning the only entrance panel as Master (factory default).
- (Pgr01) association of the identification code (ID) of the audio door entry unit.

Multiple residence system with one entrance panel and one audio door entry unit for each flat (apartment).
- (Pgr06) assigning the only entrance panel as Master (factory default). (see page 5.8, 5.27)
- (Pgr08) in case of push-button entrance panel with supplementary modules, hardware programming of the call buttons. (see page 5.8)
- (Pgr10) in case of entrance panel with two rows of buttons, double button programming. (see page 5.11)
- (Pgr01) association of the identification code (ID) of the audio door entry units. (see page 5.50, 5.51, 5.55)

SINGLE AND MULTIPLE RESIDENCE AUDIO DOOR ENTRY SYSTEM WITH INTERPHONES AND ONE AUDIO ENTRANCE PANEL (REF. SI435)



A - INTERPHONE
C - AUDIO ENTRANCE PANEL TYPE 89F3/..
C0 - AUDIO ENTRANCE PANEL TYPE 89F4/..
F - POWER SUPPLY Type 6922
K - PUSH-BUTTON FOR OUTDOOR CALL
L - 12VDC ELECTRIC LOCK
P - LOCK RELEASE CONTROL

WIRING DIAGRAM:

Diagram for audio door entry system (REF. SI335)
The following diagram can be applied for the following types of systems.

Necessary programming:

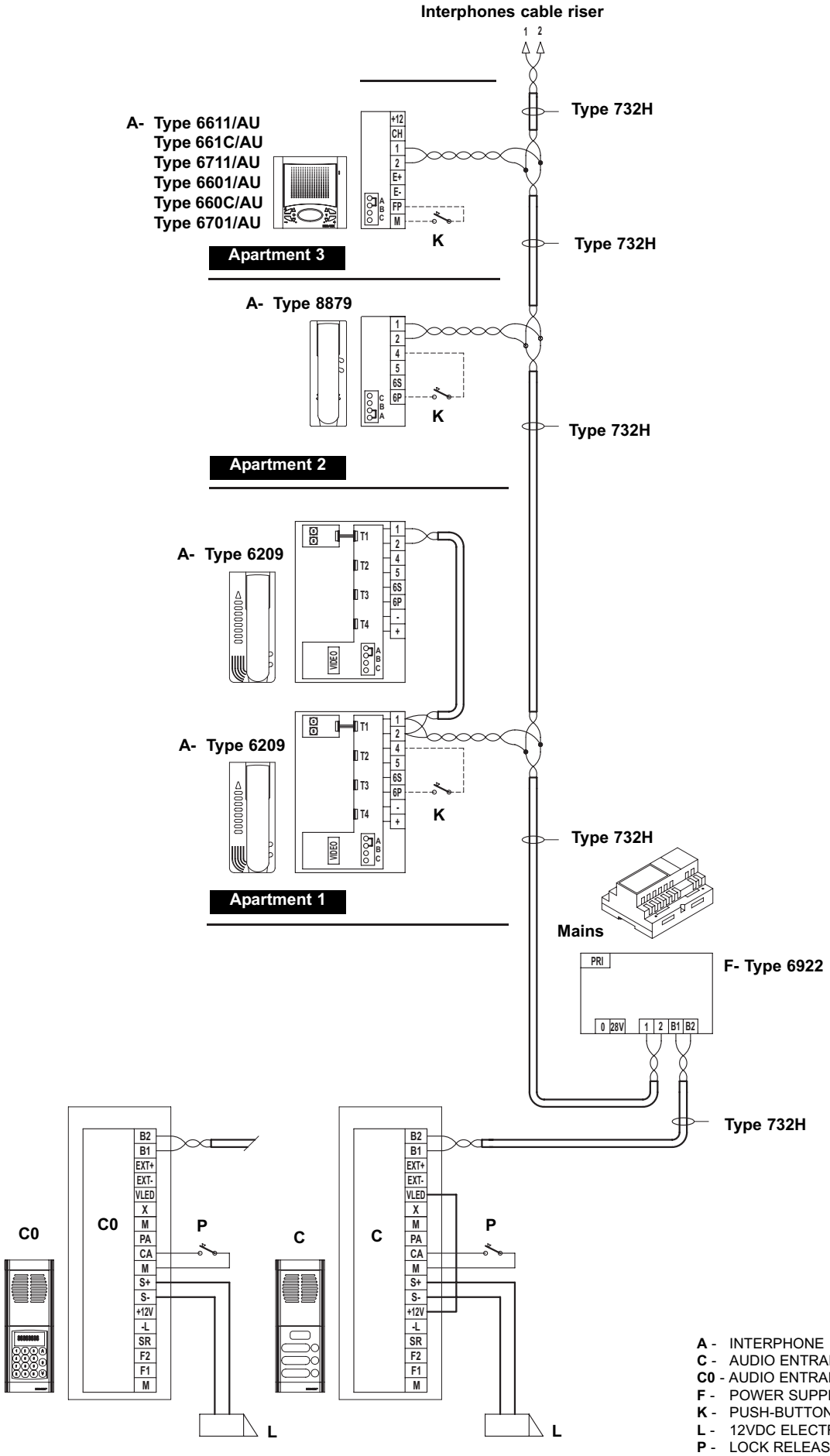
Single residence system with one entrance panel and multiple audio door entry units in parallel.

- (Pgr06) assigning the only entrance panel as Master (factory default). (see page 5.8, 5.27)
- (Pgr08) in case of push-button entrance panel with supplementary modules, hardware programming of the call buttons. (see page 5.8)
- (Pgr10) in case of entrance panel with two rows of buttons, double button programming. (see page 5.11)
- (Pgr01) association of the identification code (ID) of the audio door entry units. (see page 5.50, 5.51, 5.55)
- (Pgr02) association of the secondary identification code (ID) of the audio door entry units in parallel with the 1st audio door entry unit. Without Type 950C, it is possible to program only 3 audio door entry units with the secondary ID for a total of 4 audio door entry units in parallel. (see page 5.50, 5.52, 5.55)

Multiple residence system with one entrance panel and two audio door entry units for each flat (see apartment 1).

- (Pgr06) assigning the only entrance panel as Master (factory default). (see page 5.8, 5.27)
- (Pgr08) in case of push-button entrance panel with supplementary modules, hardware programming of the call buttons. (see page 5.8)
- (Pgr10) in case of entrance panel with two rows of buttons, double button programming. (see page 5.11)
- (Pgr01) association of the identification code (ID) of the audio door entry units. (see page 5.50, 5.51, 5.55)
- (Pgr02) association of the secondary identification code (ID) of the audio door entry units in parallel with the 1st audio door entry unit. The secondary audio door entry unit of apartment 1 will be programmed with the same code (or call button) as the audio door entry unit of the group master of apartment 1. Without Type 950C, it is possible to program only 3 audio door entry units with the secondary ID for a total of 4 audio door entry units in parallel. (see page 5.50, 5.52, 5.55)

SINGLE AND MULTIPLE RESIDENCE AUDIO DOOR ENTRY SYSTEM WITH ONE AUDIO ENTRANCE PANEL AND MULTIPLE INTERPHONES IN PARALLEL (REF. SI335)



A - INTERPHONE
C - AUDIO ENTRANCE PANEL TYPE 89F3/..
C0 - AUDIO ENTRANCE PANEL TYPE 89F4/..
F - POWER SUPPLY Type 6922
K - PUSH-BUTTON FOR OUTDOOR CALL
L - 12VDC ELECTRIC LOCK
P - LOCK RELEASE CONTROL

WIRING DIAGRAM:

Diagram for audio door entry system (REF. SI435)
The following diagram can be applied for the following types of systems.

Necessary programming:

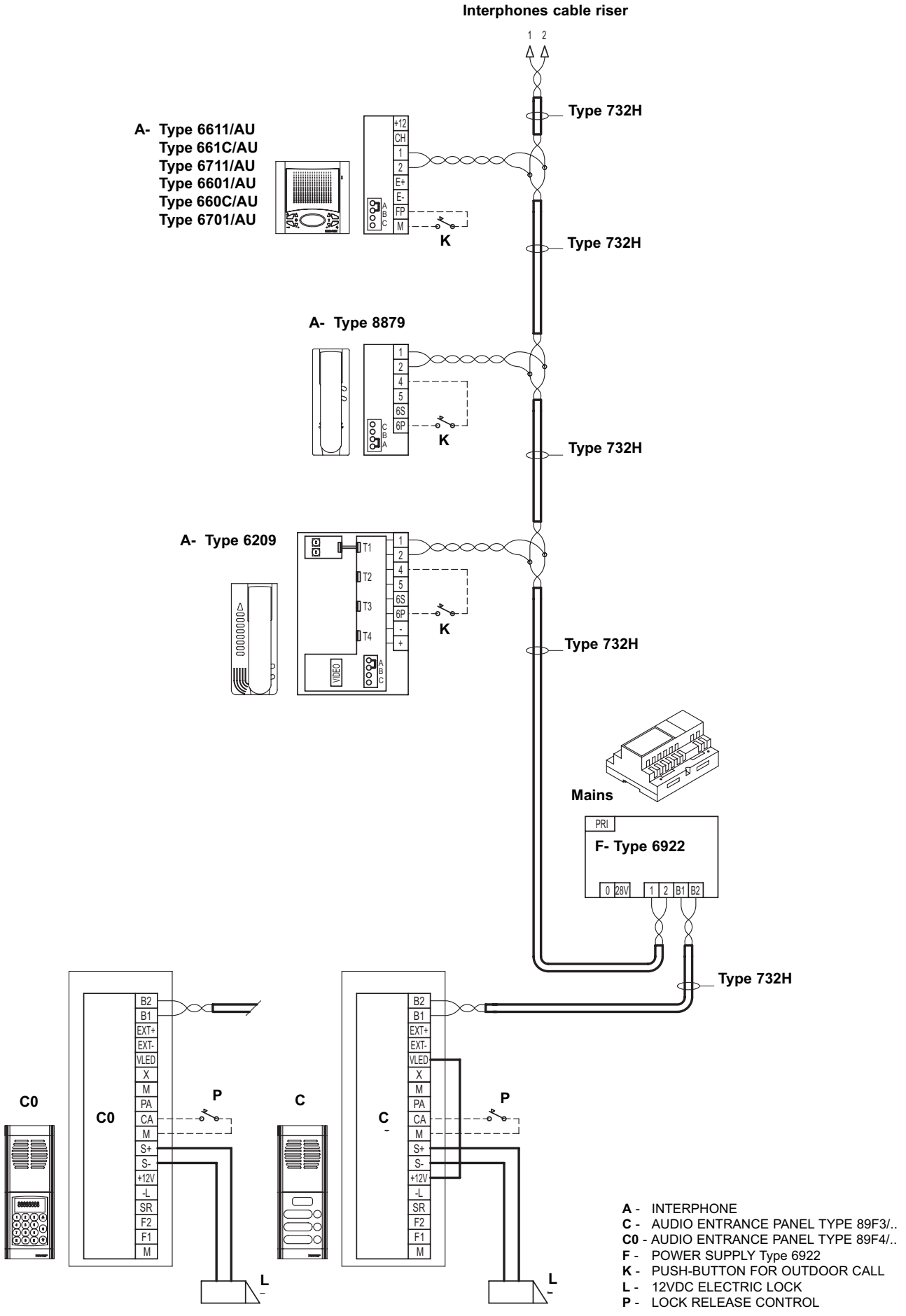
Single residence system with one entrance panel and multiple audio door entry units in parallel with intercommunicating calls.
- (Pgr06) assigning the only entrance panel as Master (factory default). (see page 5.8, 5.27)
- (Pgr08) in case of push-button entrance panel with supplementary modules, hardware programming of the call buttons. (see page 5.8)
- (Pgr10) in case of entrance panel with two rows of buttons, double button programming. (see page 5.11)
- (Pgr01) association of the identification code (ID) of the audio door entry units. (see page 5.50, 5.51, 5.55)
- (Pgr02) association of the secondary identification code (ID) of the audio door entry units in parallel with the 1st audio door entry unit. Without Type 950C, it is possible to program only 3 audio door entry units with the secondary ID for a total of 4 audio door entry units in parallel. (see page 5.50, 5.52, 5.55)
- (Pgr03) programming of the intercommunicating call buttons. (see page 5.50, 5.52, 5.56, 5.57)

Multiple residence system with one entrance panel, one audio door entry unit for each flat and intercommunicating calls between the audio door entry units.
Using this configuration engages the entire system during an intercommunicating conversation
- (Pgr06) assigning the only entrance panel as Master (factory default). (see page 5.8, 5.27)
- (Pgr08) in case of push-button entrance panel with supplementary modules, hardware programming of the call buttons. (see page 5.8)
- (Pgr10) in case of entrance panel with two rows of buttons, double button programming. (see page 5.11)
- (Pgr01) association of the identification code (ID) of the audio door entry units. (see page 5.50, 5.51, 5.55)
- (Pgr03) programming of the intercommunicating call buttons. (see page 5.50, 5.52, 5.56, 5.57)

WIRING DIAGRAM:

TWO WIRE ELVOX

SINGLE AND MULTIPLE RESIDENCE AUDIO DOOR ENTRY SYSTEM WITH ONE AUDIO ENTRANCE PANEL AND MULTIPLE INTERCOMMUNICATING INTERPHONES (REF. SI435)



A - INTERPHONE
C - AUDIO ENTRANCE PANEL TYPE 89F3/..
C0 - AUDIO ENTRANCE PANEL TYPE 89F4/..
F - POWER SUPPLY Type 6922
K - PUSH-BUTTON FOR OUTDOOR CALL
L - 12VDC ELECTRIC LOCK
P - LOCK RELEASE CONTROL

Diagram for audio door entry system (REF. SI338)
The following diagram can be applied for the following types of systems.

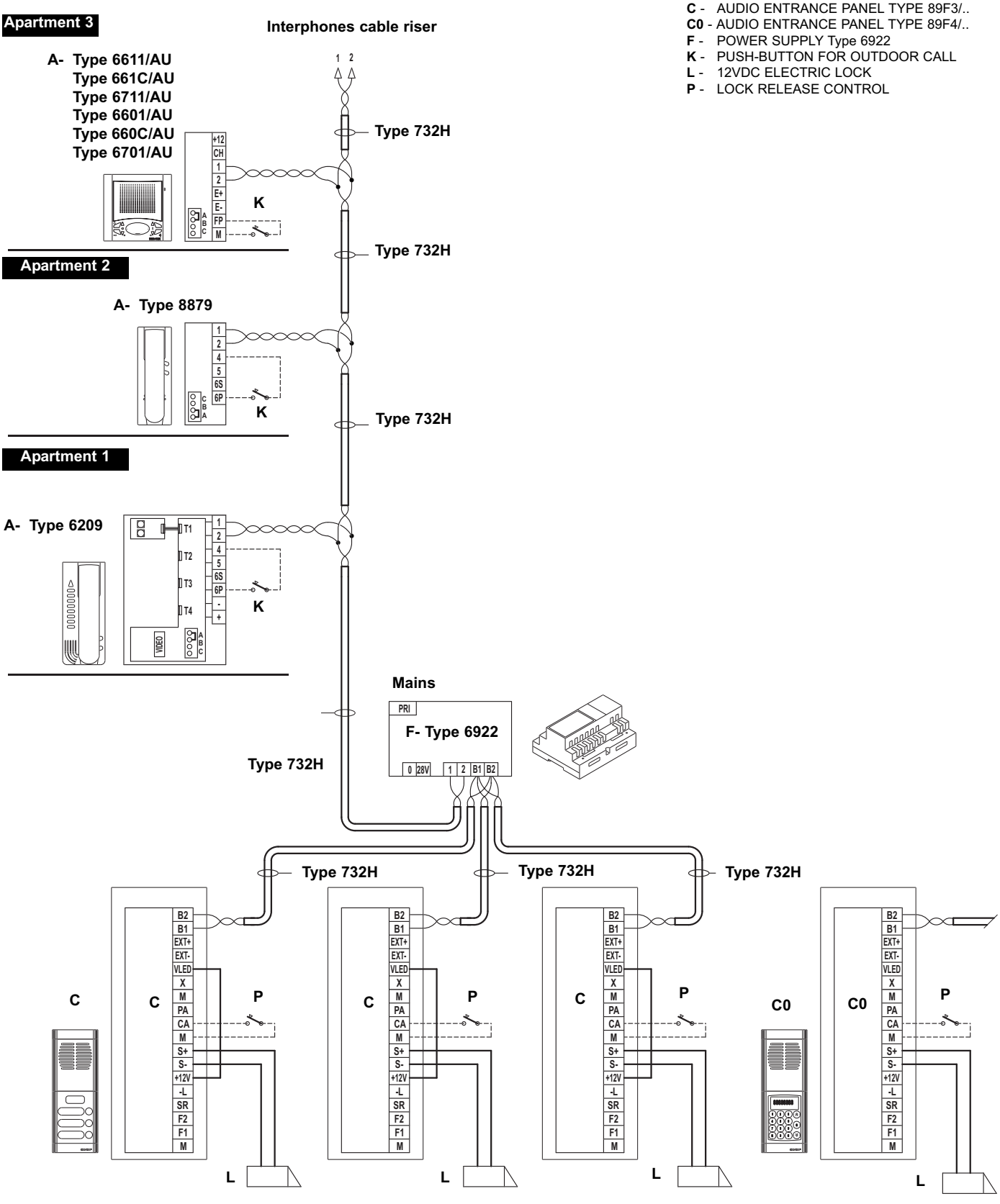
Necessary programming:

Single residence system with two or three entrance panels and one audio door entry unit.
- (Pgr06) assignment of the SLAVE panels. 2 of the 3 panels or 1 of the 2 must be programmed as SLAVE panels, the remaining one as the MASTER panel (only one).
  (see page 5.8, 5.10, 5.27, 5.28)
- (Pgr07) Without connecting the Master panel, program the ID of the SLAVE panels.
  (see page 5.10, 5.28)
- Connecting and switching on the MASTER panel.
- (Pgr01) association of the identification code (ID) of the interphones.
  (see page 5.50, 5.51, 5.55)

Multiple residence system with two or three entrance panels and one audio door entry unit for each flat (apartment).
- (Pgr06) assigning the only entrance panel as Master (factory default).
  (see page 5.8, 5.27)
- (Pgr08) in case of push-button entrance panel with supplementary modules, hardware programming of the call buttons.
  (see page 5.8)
- (Pgr10) in case of entrance panel with two rows of buttons, double button programming.
  (see page 5.11)
- (Pgr07) Without connecting the Master panel, program the ID of the SLAVE panels.
  (see page 5.10, 5.28)
- Connecting and switching on the MASTER panel.
- (Pgr01) association of the identification code (ID) of the interphones.
  (see page 5.50, 5.51, 5.55)

SINGLE AND MULTIPLE RESIDENCE AUDIO DOOR ENTRY SYSTEM WITH INTERPHONES AND THREE AUDIO ENTRANCE PANELS IN PARALLEL (REF. SI338)

A - INTERPHONE
C - AUDIO ENTRANCE PANEL TYPE 89F3/..
C0 - AUDIO ENTRANCE PANEL TYPE 89F4/..
F - POWER SUPPLY Type 6922
K - PUSH-BUTTON FOR OUTDOOR CALL
L - 12VDC ELECTRIC LOCK
P - LOCK RELEASE CONTROL



WIRING DIAGRAM:

Diagram for audio door entry system (REF. SI339)
The following diagram can be applied for the following types of systems.

Necessary programming:

Single residence system with multiple entrance panels and one audio door entry unit.
- (Pgr06) assignment of the SLAVE panels. 2 of the 3 panels or 1 of the 2 must be programmed as SLAVE panels, the remaining one as the MASTER panel (only one).
  (see page 5.8, 5.10, 5.27, 5.28)
- (Pgr07) Without connecting the Master panel, program the ID of the SLAVE panels.
  (see page 5.10, 5.28)
- Connecting and switching on the MASTER panel.
- (Pgr01) association of the identification code (ID) of the interphones.
  (see page 5.50, 5.51, 5.55)

Multiple residence system with multiple entrance panels and one audio door entry unit for each flat (apartment).
- (Pgr06) assigning the only entrance panel as Master (factory default).
  (see page 5.8, 5.27)
- (Pgr08) in case of push-button entrance panel with supplementary modules, hardware programming of the call buttons.
  (see page 5.8)
- (Pgr10) in case of entrance panel with two rows of buttons, double button programming.
  (see page 5.11)
- (Pgr07) Without connecting the Master panel, program the ID of the SLAVE panels.
  (see page 5.10, 5.28)
- Connecting and switching on the MASTER panel.
- (Pgr01) association of the identification code (ID) of the interphones.
  (see page 5.50, 5.51, 5.55)

SINGLE AND MULTIPLE RESIDENCE AUDIO DOOR ENTRY SYSTEM WITH INTERPHONES AND MULTIPLE AUDIO ENTRANCE PANELS IN PARALLEL (REF. SI339)

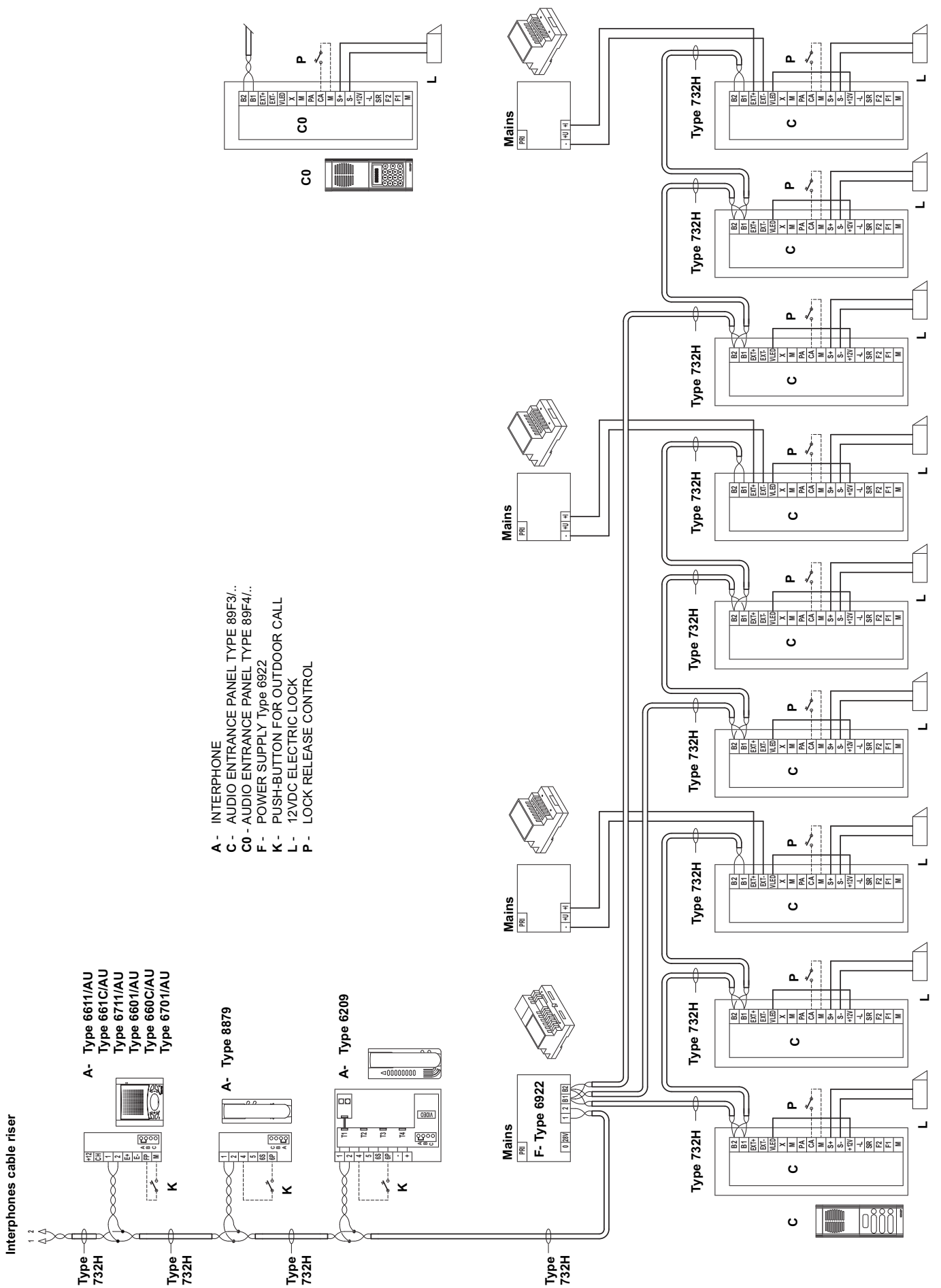


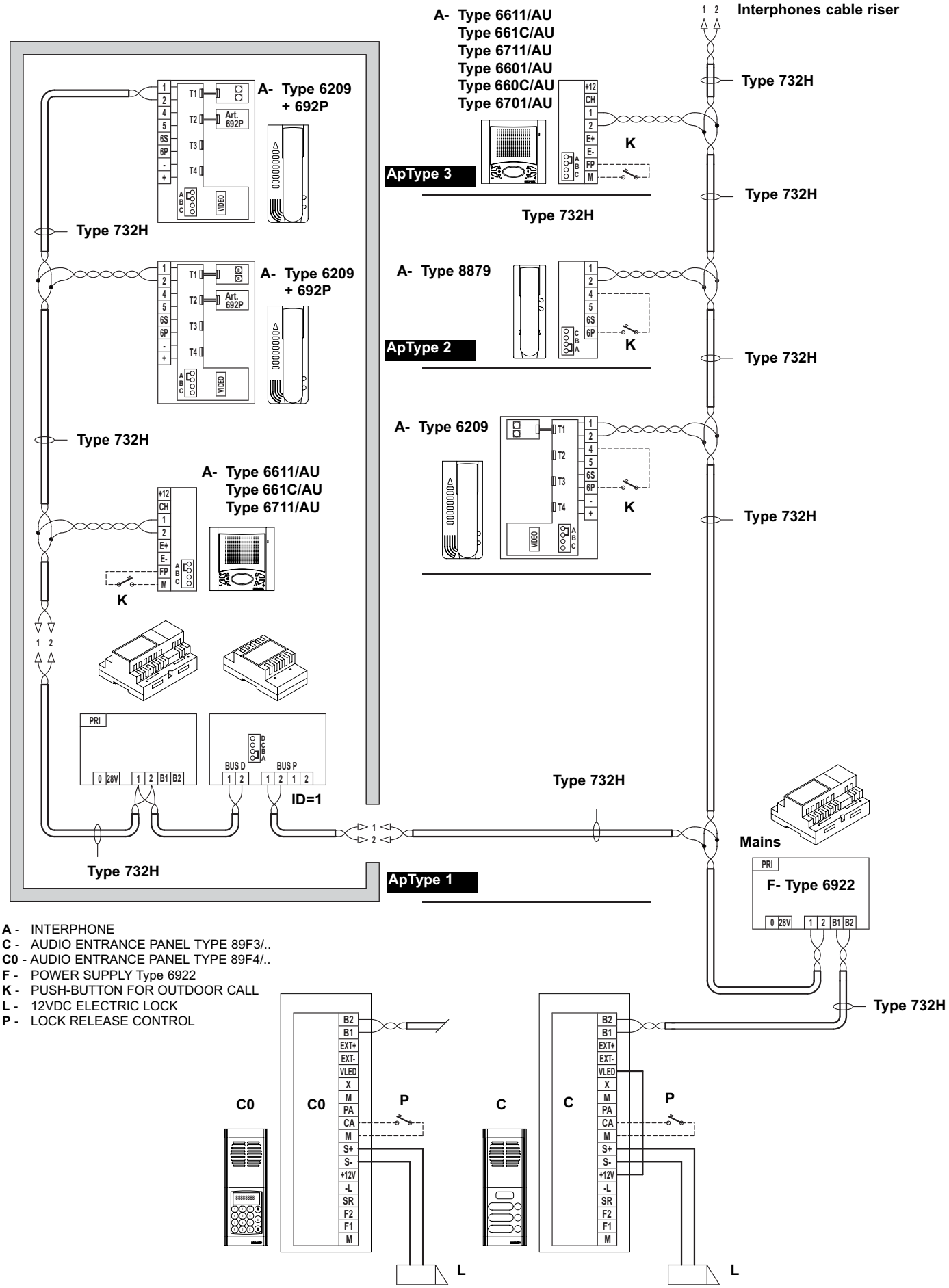
Diagram for audio door entry system (REF. SI336)
The following diagram can be applied for the following types of systems.

Necessary programming:

Multiple residence system with one entrance panel, one audio door entry unit for each flat and intercommunicating audio door entry units in a single flat (see apartment 1).

- (Pgr01) association of the identification code (ID) of the separators.
  (see page 5.4)
- (Pgr06) assigning the only entrance panel as Master (factory default).
  (see page 5.8, 5.27)
- (Pgr08) in case of push-button entrance panel with supplementary modules, hardware programming of the call buttons.
  (see page 5.8)
- (Pgr10) in case of entrance panel with two rows of buttons, double button programming.
  (see page 5.11)
- (Pgr01) association of the identification code (ID) of the audio door entry units.
  (see page 5.50, 5.51, 5.55)
- (Pgr02) association of the secondary identification code (ID) of the audio door entry units in parallel with the 1st audio door entry unit (see apartment 1). Without Type 950C, it is possible to program only 3 audio door entry units with the secondary ID for a total of 4 audio door entry units in parallel.
  (see page 5.50, 5.52, 5.55)
- (Pgr03) programming of the intercommunicating call buttons.
  (see page 5.50, 5.52, 5.56, 5.57)

MULTIPLE RESIDENCE AUDIO DOOR ENTRY SYSTEM WITH INTERCOM AUDIO DOOR ENTRY UNITS AND ONE AUDIO ENTRANCE PANEL (REF. SI336)



A - INTERPHONE
C - AUDIO ENTRANCE PANEL TYPE 89F3/..
C0 - AUDIO ENTRANCE PANEL TYPE 89F4/..
F - POWER SUPPLY Type 6922
K - PUSH-BUTTON FOR OUTDOOR CALL
L - 12VDC ELECTRIC LOCK
P - LOCK RELEASE CONTROL

WIRING DIAGRAM:

Diagram for audio door entry system (REF. SI337)
The following diagram can be applied for the following types of systems.

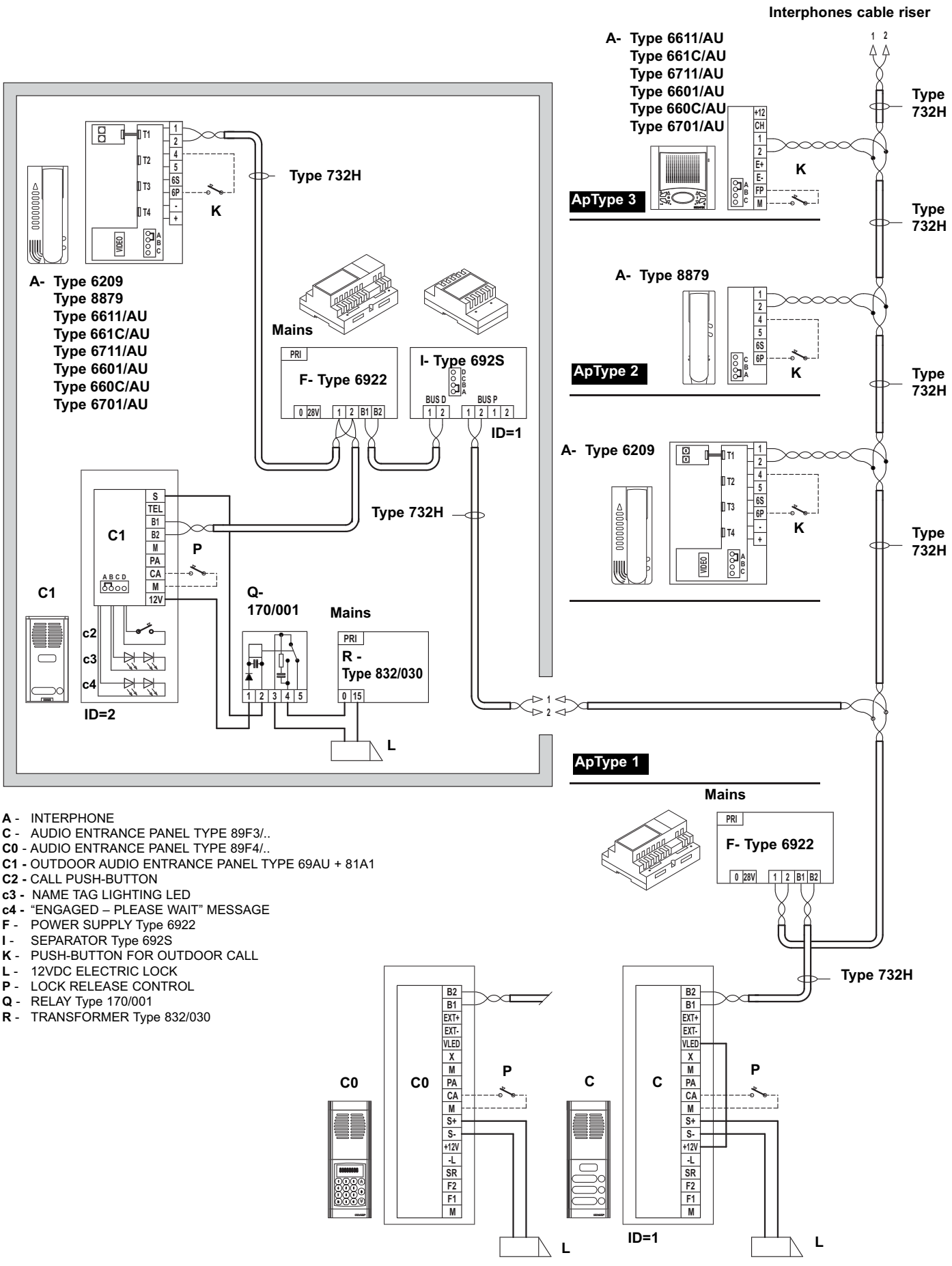
Necessary programming:

Multiple residence system with audio door entry units, one main audio entrance panel and one entrance panel outside the door per apartment (see apartment 1).

- (Pgr01) association of the identification code (ID) of the separators.
  (see page 5.4)
- (Pgr01) association of the identification code (ID) of the speech unit outside the door (see apartment 1).
  (see page 5.44)
- (Pgr06) assigning the main entrance panel as Master (factory default).
  (see page 5.8, 5.27)
- (Pgr08) in case of push-button (main) entrance panel with supplementary modules, hardware programming of the call buttons.
  (see page 5.8)
- (Pgr10) in case of (main) entrance panel with two rows of buttons, double button programming.
  (see page 5.11)
- (Pgr01) association of the identification code (ID) of the audio door entry units from the Master entrance panel.
  (see page 5.50, 5.51, 5.55)
- (Pgr22) assigning call button of the speech unit outside the door to the corresponding audio door entry unit.
  (see page 5.45)

TWO WIRE ELVOX

MULTIPLE RESIDENCE AUDIO DOOR ENTRY SYSTEM WITH INTERPHONES, ONE MAIN AUDIO ENTRANCE PANEL AND ONE ENTRANCE PANEL OUTSIDE THE DOOR PER APARTMENT (REF. SI337)



A - INTERPHONE
C - AUDIO ENTRANCE PANEL TYPE 89F3/..
C0 - AUDIO ENTRANCE PANEL TYPE 89F4/..
C1 - OUTDOOR AUDIO ENTRANCE PANEL TYPE 69AU + 81A1
C2 - CALL PUSH-BUTTON
c3 - NAME TAG LIGHTING LED
c4 - "ENGAGED – PLEASE WAIT" MESSAGE
F - POWER SUPPLY Type 6922
I - SEPARATOR Type 692S
K - PUSH-BUTTON FOR OUTDOOR CALL
L - 12VDC ELECTRIC LOCK
P - LOCK RELEASE CONTROL
Q - RELAY Type 170/001
R - TRANSFORMER Type 832/030

WIRING DIAGRAM:

Diagram for audio door entry system (REF. SI340 + 334)
The following diagram can be applied for the following types of systems.

Necessary programming:

Building complex system with one main entrance panel, one secondary entrance panel per building and one audio door entry unit per flat.

- (Pgr01) association of the identification code (ID) of the separators. (see page 5.4)
- (Pgr06) assignment of the SLAVE panels. All the secondary panels must be programmed as SLAVE panels, the main panel as the MASTER (only one).
- (Pgr08) in case of push-button (main) entrance panel with supplementary modules, hardware programming of the call buttons. (see page 5.8)
- (Pgr10) in case of (main) entrance panel with two rows of buttons, double button programming. (see page 5.11)
- (Pgr07) Without connecting the Master panel, program the ID of the SLAVE panels. (see page 5.8, 5.10, 5.27, 5.28)
- Connecting and switching on the MASTER panel.
- (Pgr01) association of the identification code (ID) of the interphones. (see page 5.50, 5.51, 5.55)

BUILDING COMPLEX AUDIO DOOR ENTRY SYSTEM WITH INTERPHONES, ONE MAIN ENTRANCE PANEL AND ONE SECONDARY ENTRANCE PANEL PER BUILDING (REF. SI340 + SI334)

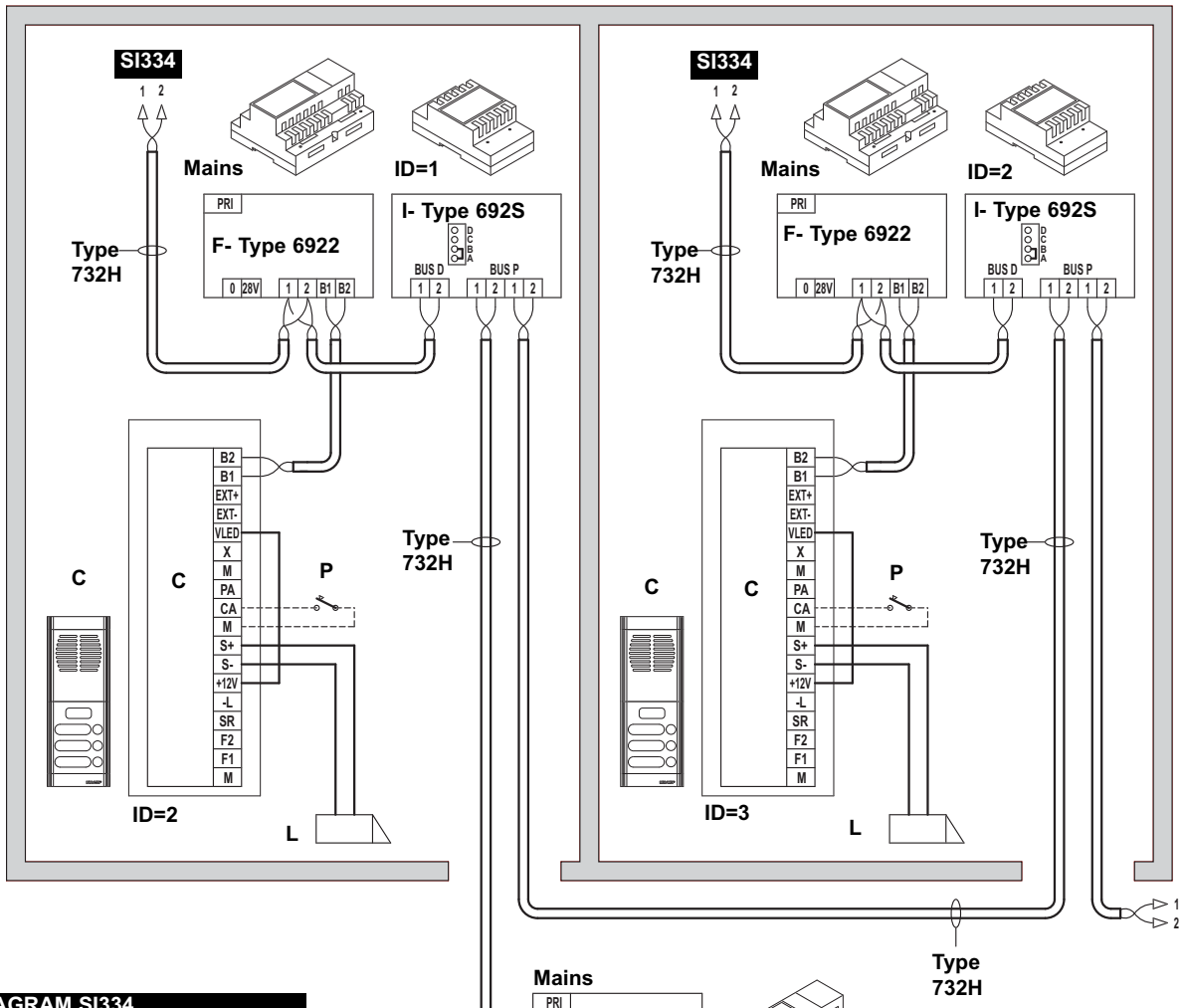
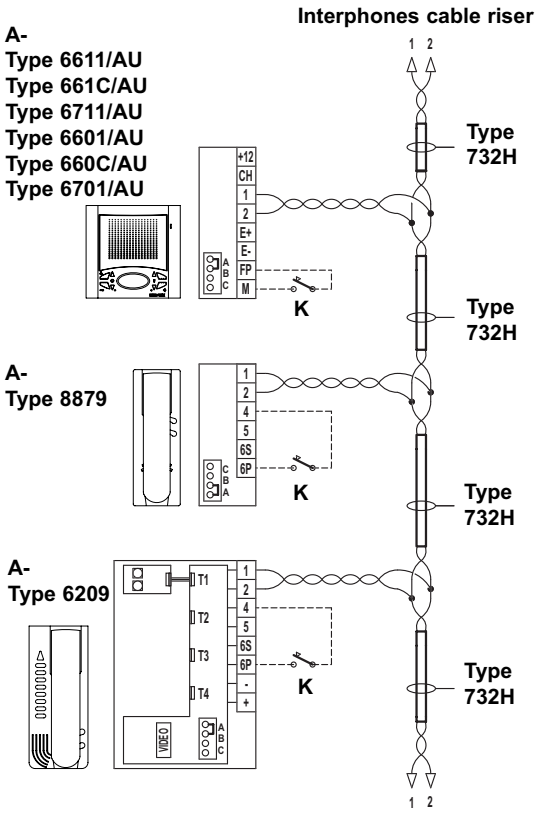


DIAGRAM SI334



A - INTERPHONE
C - AUDIO ENTRANCE PANEL TYPE 89F3/..
C0 - AUDIO ENTRANCE PANEL TYPE 89F4/..
F - POWER SUPPLY Type 6922
I - SEPARATOR Type 692S
K - PUSH-BUTTON FOR OUTDOOR CALL
L - 12VDC ELECTRIC LOCK
P - LOCK RELEASE CONTROL

WIRING DIAGRAM:

Diagram for audio door entry system (REF. SI341 + 334)
The following diagram can be applied for the following types of systems.

Necessary programming:

Building complex system with three main entrance panels, two secondary entrance panels per building and one audio door entry unit per flat.

- (Pgr01) association of the identification code (ID) of the separators. (see page 5.4)
- (Pgr06) assignment of the SLAVE panels. All the secondary panels and the main ones, except for one, must be programmed as SLAVE panels, one main panel as the MASTER (only one). (see page 5.8, 5.10, 5.27, 5.28)
- (Pgr08) in case of push-button (main) entrance panel with supplementary modules, hardware programming of the call buttons. (see page 5.8)
- (Pgr10) in case of (main) entrance panel with two rows of buttons, double button programming. (see page 5.11)
- (Pgr07) Without connecting the Master panel, program the ID of the SLAVE panels. (see page 5.8, 5.10, 5.27, 5.28)
- Connecting and switching on the MASTER panel.
- (Pgr01) association of the identification code (ID) of the interphones. (see page 5.50, 5.51, 5.55)

BUILDING COMPLEX AUDIO DOOR ENTRY SYSTEM WITH INTERPHONES, THREE MAIN ENTRANCE PANELS AND TWO SECONDARY ENTRANCE PANELS PER BUILDING (REF. SI341 + SI334)

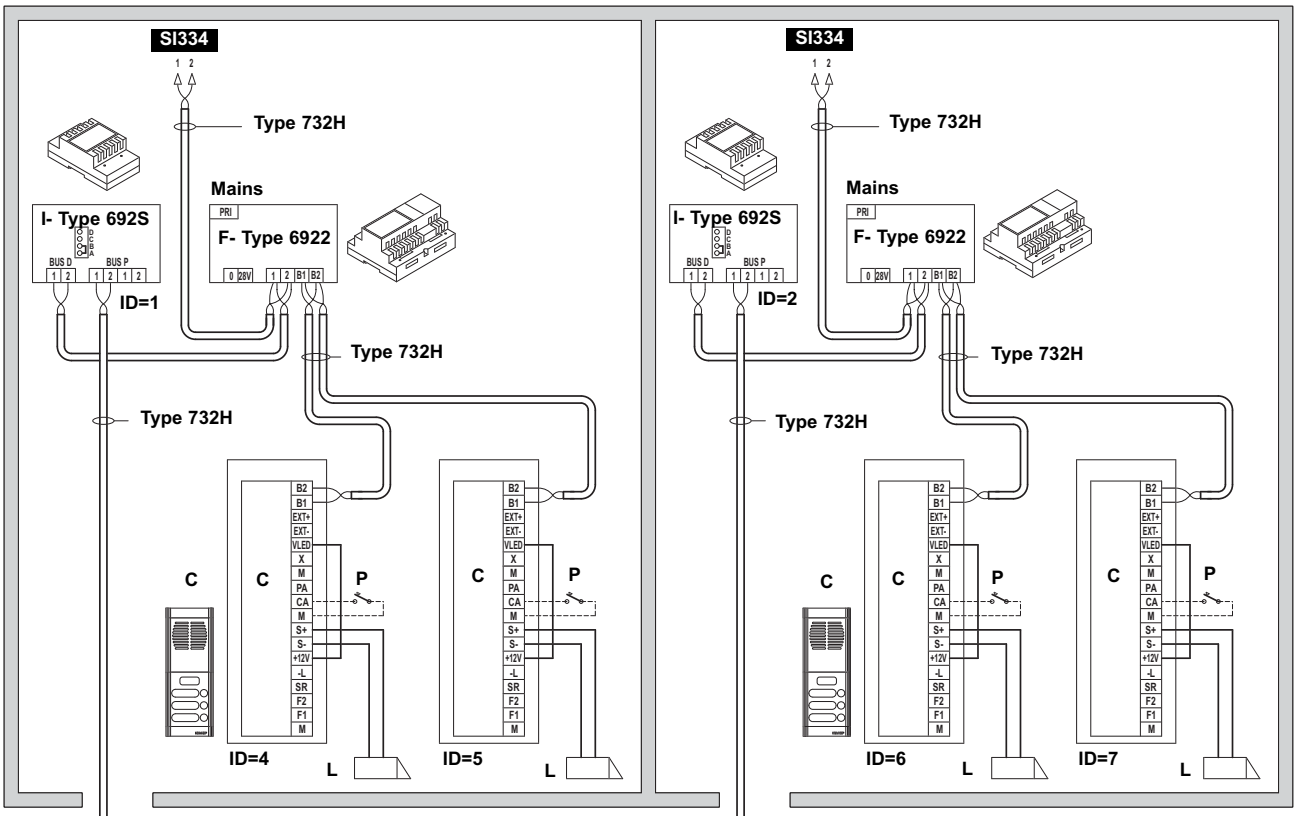
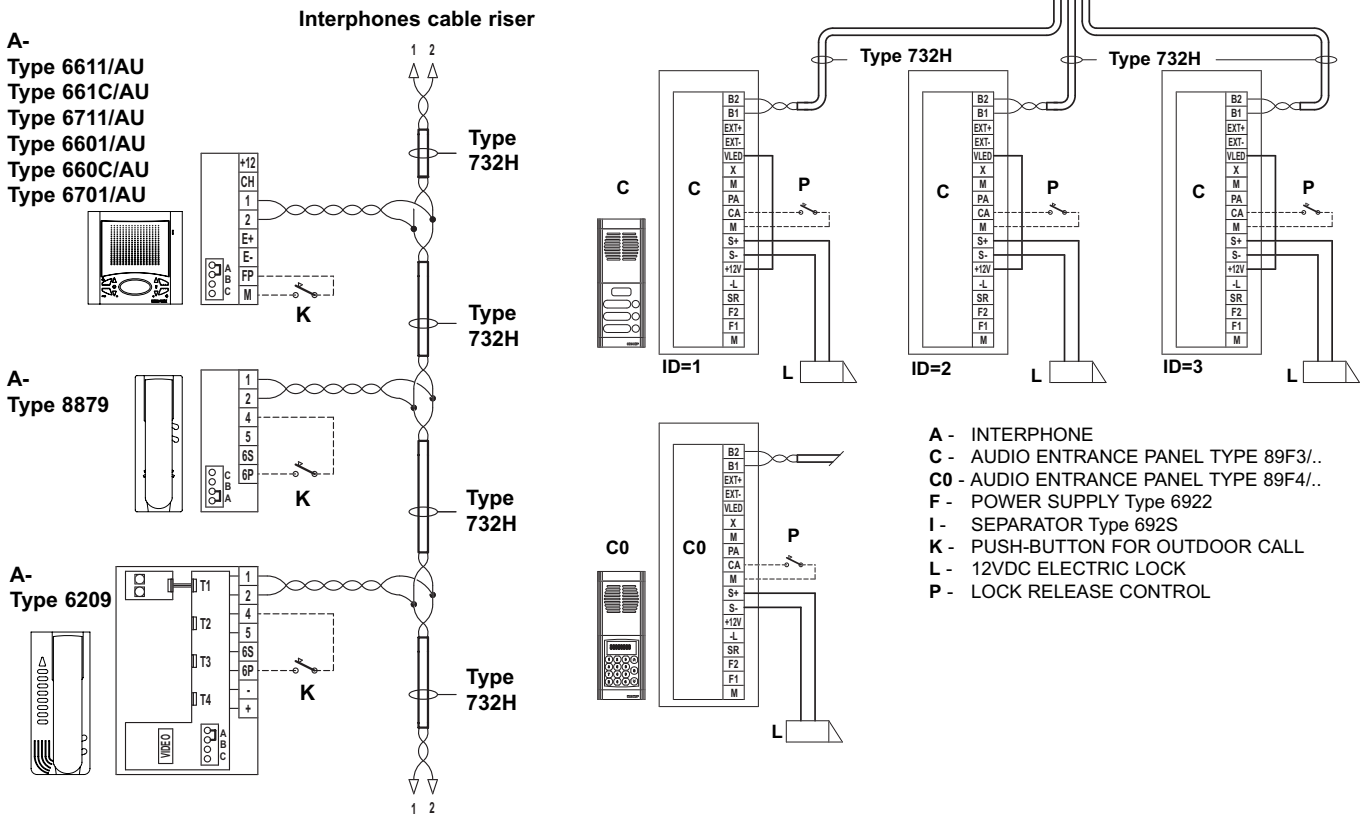


DIAGRAM SI334

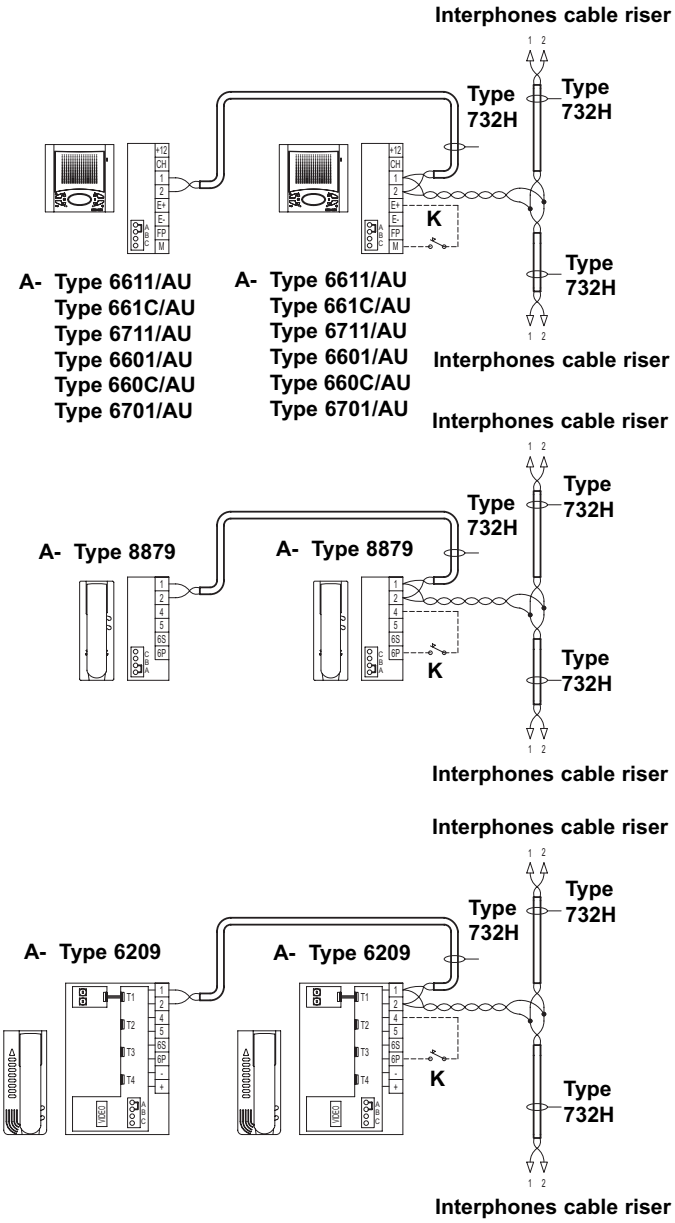


A - INTERPHONE
C - AUDIO ENTRANCE PANEL TYPE 89F3/..
C0 - AUDIO ENTRANCE PANEL TYPE 89F4/..
F - POWER SUPPLY Type 6922
I - SEPARATOR Type 692S
K - PUSH-BUTTON FOR OUTDOOR CALL
L - 12VDC ELECTRIC LOCK
P - LOCK RELEASE CONTROL

WIRING DIAGRAM:

VARIANT

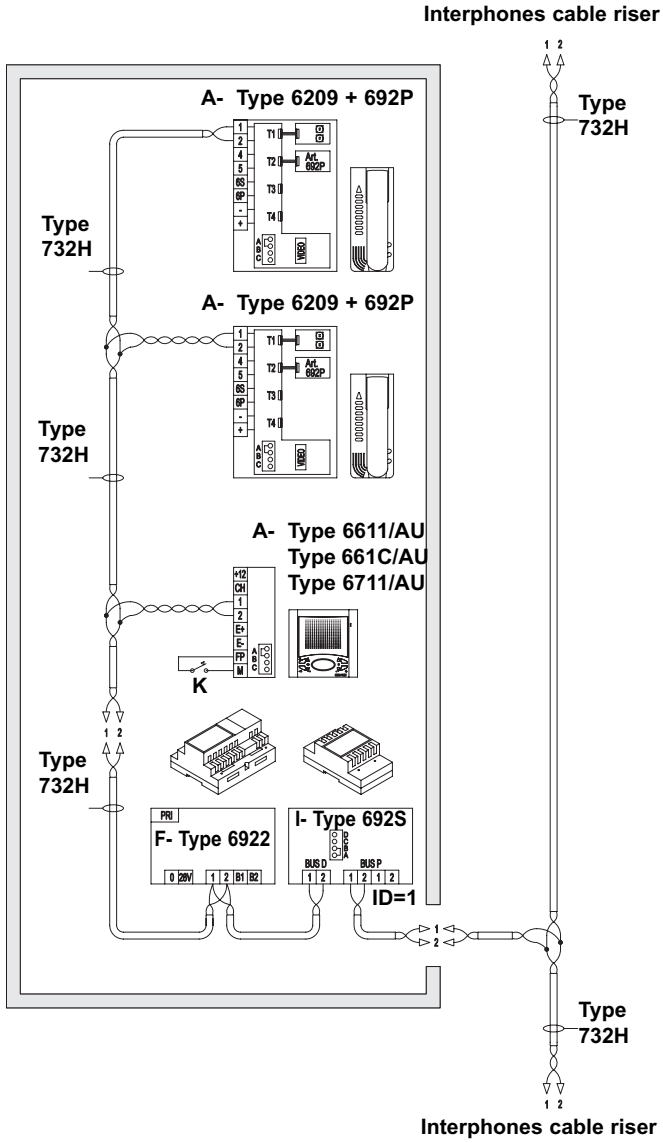
CONNECTION DIAGRAM OF TWO AUDIO DOOR ENTRY UNITS IN PARALLEL ON A SINGLE APARTMENT (REF. SI450)



A - INTERPHONE
K - PUSH-BUTTON FOR OUTDOOR CALL

VARIANT

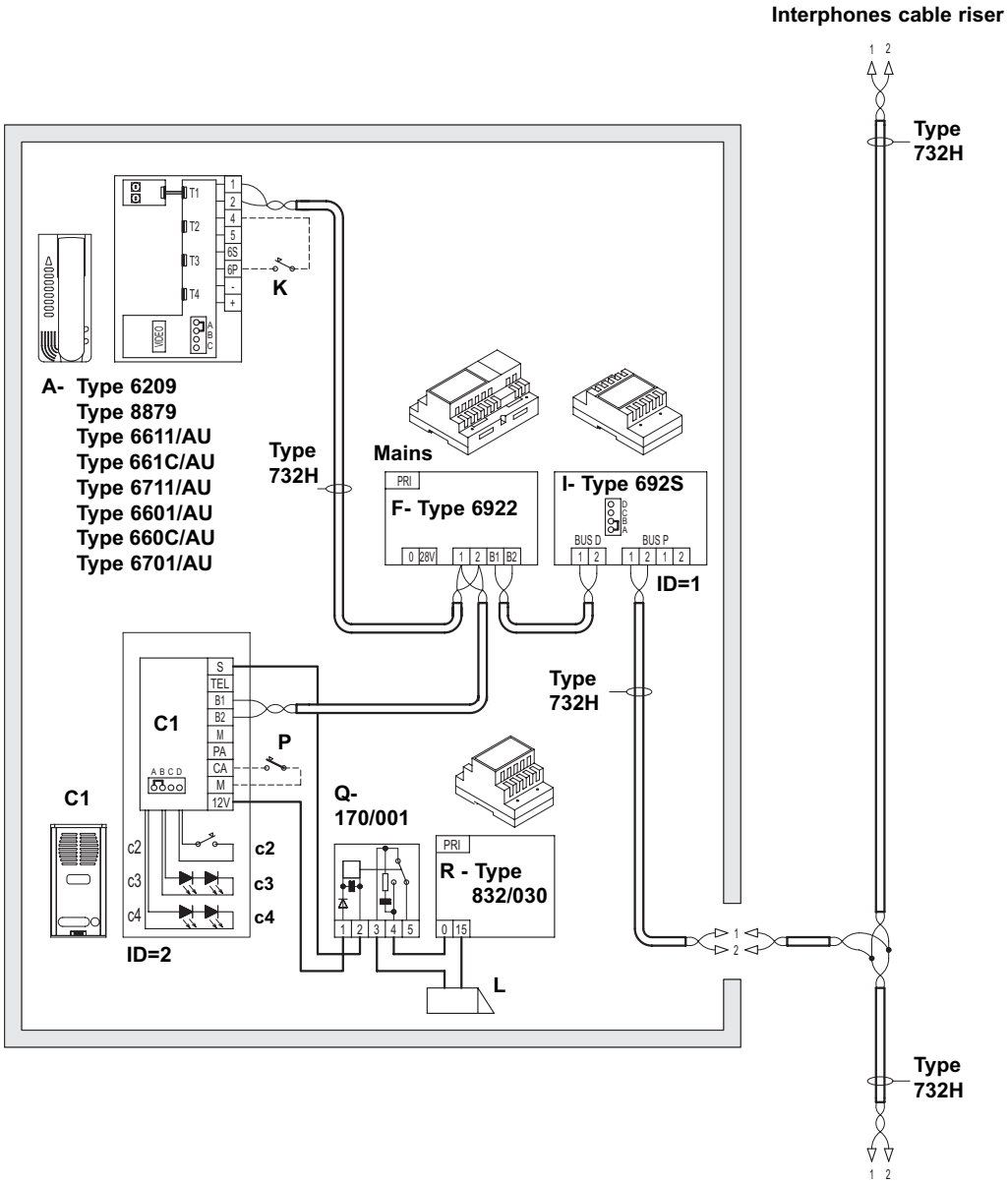
CONNECTION DIAGRAM OF AN INTERCOMMUNICATING AUDIO DOOR ENTRY UNIT ISLAND ON A SINGLE APARTMENT (REF. SI451)



A - INTERPHONE
K - PUSH-BUTTON FOR OUTDOOR CALL
F - POWER SUPPLY Type 6922
I - SEPARATOR Type 692S

VARIANT

CONNECTION DIAGRAM OF AN APARTMENT WITH AUDIO ENTRANCE PANEL OUTSIDE THE DOOR IN AN AUDIO DOOR ENTRY SYSTEM (REF. SI452)



A - INTERPHONE
C1 - OUTDOOR AUDIO ENTRANCE PANEL TYPE 69AU + 81A1
C2 - CALL PUSH-BUTTON
c3 - NAME TAG LIGHTING LED
c4 - "ENGAGED – PLEASE WAIT" MESSAGE
F - POWER SUPPLY Type 6922
I - SEPARATOR Type 692S
K - PUSH-BUTTON FOR OUTDOOR CALL
L - 12VDC ELECTRIC LOCK
P - LOCK RELEASE CONTROL
Q - RELAY Type 170/001
R - TRANSFORMER Type 832/030

WIRING DIAGRAM:

Video door entry system pillar connections.
The video (audio) door entry units can be connected on the pillar in the following ways:

- in-out connection, without the aid of floor distributors;
- connection with passive distributor Type 692D;
- connection with active distributor Type 692D/2;
- hybrid connection using the above 3 methods.

In a video system there must be appliance termination using the jumpers (ABC) in the appliance itself. See the following notes for terminating appliances at the pillar depending on the type of connection.

●

BUS TERMINATION TABLE FOR ELVOX TWO-WIRE SYSTEMS

This note applies to all devices with ELVOX TWO-WIRE technology equipped with the “BUS termination connector”, identified on the electronic card with the “ABC” marking and signalled on the wiring diagrams with a “*”.
To adjust the video signal insert the jumper on the strip socket connector. Follow next rule for the correct line adjustment:

- keep the jumper in position “A” if the BUS line “passes through” the device;
- keep the jumper in position “B” if the device is connected to a distributor type 692D, 692D/1 or 692D/2
- in the last device, move the jumper into position “B” in the following cases:
  - the “BUS” line “ends within” the same device (the last device in “pass through” configuration)
  - the video signal of the connected distributors type 692D/1 or 692D/2 is unsatisfactory.
- if the video signal adjustment is unsatisfactory with the jumper in position "B", try position "C".

“A” → NO TERMINATION
“B” → TERMINATION 100 Ohm
“C” → TERMINATION 50 Ohm

(*) On circuit boards bearing the “ABCD” marking instead of “ABC”, consider the following correspondences: A = AB; B = BC; C = CD.

★

INSTALLATIONS WITH PASSIVE DISTRIBUTOR 692D

For each device connected to type 692D:

1. on connector ABC in any article connected to one of the outputs 1, 2, 3, 4 of type 692D, THE JUMPER MUST BE KEPT IN POSITION “A”;
2. on connector ABC in any article connected to output OUT of type 692D, THE JUMPER MUST BE INSERTED IN POSITIONS “B” OR “C”.

For termination of type 692D:

3. If output OUT of type 692D is not used, KEEP THE JUMPER ON CONNECTOR “A” OF TYPE 692D.
4. If output OUT of type 692D is used, REMOVE THE JUMPER FROM CONNECTOR “A” OF TYPE 692D.

In some versions of type 692D there are also the strip socket connectors “B”, “C” and “D”. In this case NEVER INSERT A JUMPER IN THEM.

◆

INSTALLATIONS WITH ACTIVE DISTRIBUTOR 692D/1 and 692D/2
In this articles the BUS input and output are terminals (1-2, B1-B2, in type 692D/2). The jumper is to be set on “B” (or on “C”). IF AND ONLY IF these terminals are not used to continue the BUS (there is no device connected for the line termination).

VIDEO DOOR ENTRY SYSTEM PILLAR CONNECTIONS WITH AND WITHOUT DISTRIBUTORS ON EACH FLOOR TYPE 692D AND 692D/1 (REF. SI364, SI369, SI436)

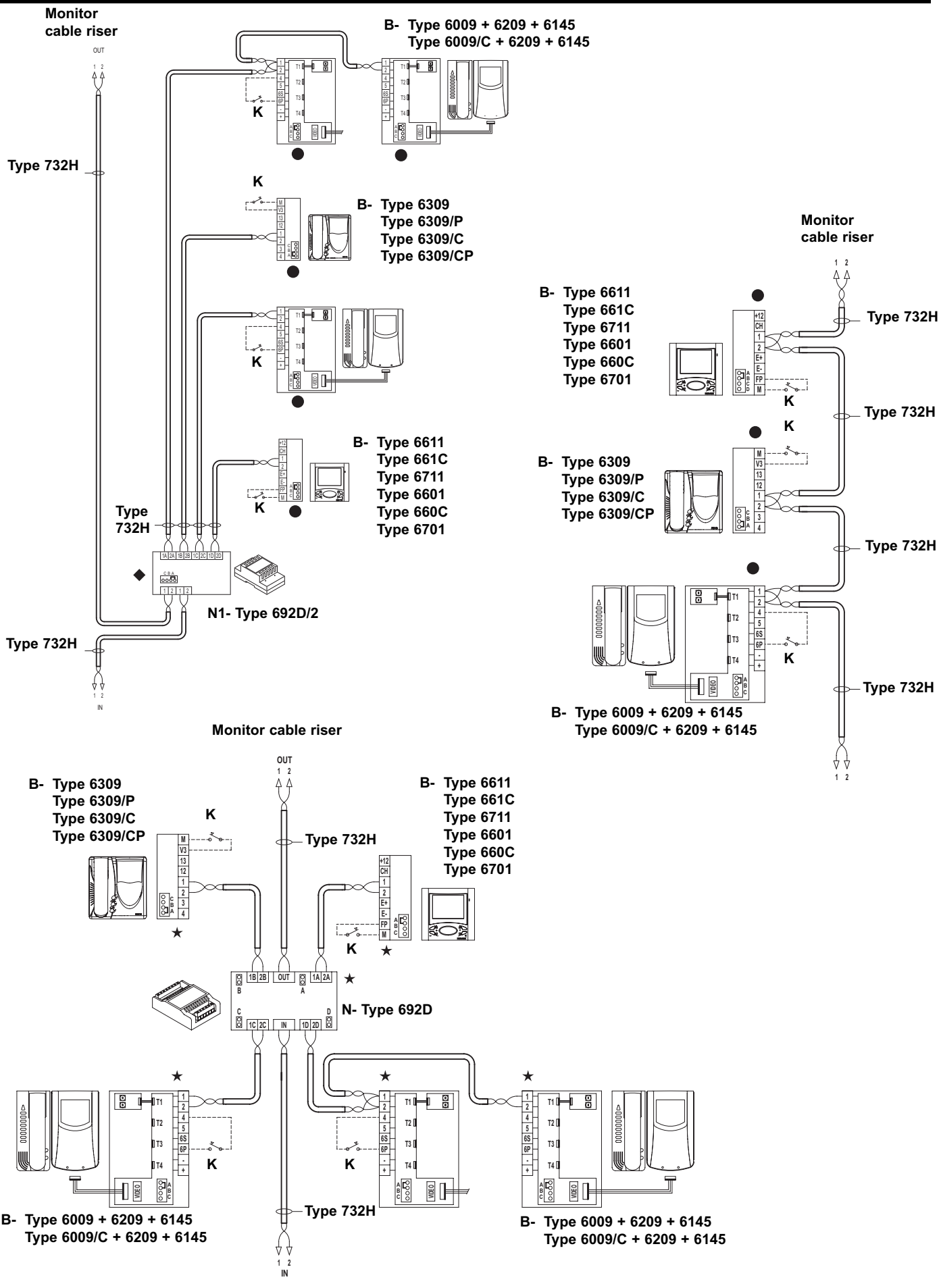


Diagram for video door entry system (REF. SI437)
The following diagram can be applied for the following types of systems.

Necessary programming:

Single residence system with one entrance panel and one video door entry unit.

- Position the video termination jumper, of the only video door entry unit, on "B" or possibly on "C".
- (Pgr06) assigning the main entrance panel as Master (factory default). (see page 5.8, 5.27)
- (Pgr01) association of the identification code (ID) of the video door entry unit. (see page 5.51, 5.53, 5.58, 5.60)

Multiple residence system with one entrance panel and one video door entry unit for each flat (apartment).

- (Pgr06) assigning the main entrance panel as Master (factory default). (see page 5.8, 5.27)
- (Pgr08) in case of push-button (main) entrance panel with supplementary modules, hardware programming of the call buttons. (see page 5.8)
- (Pgr10) in case of (main) entrance panel with two rows of buttons, double button programming. (see page 5.11)
- Position the video termination jumper of all the video door entry units, except for the last one in the chain, on "A". On the last video door entry unit, position the jumper on "B" or possibly on "C".
- (Pgr01) association of the identification code (ID) of the video door entry units. (see page 5.51, 5.53, 5.58, 5.60)

BUS TERMINATION TABLE FOR ELVOX TWO-WIRE SYSTEMS

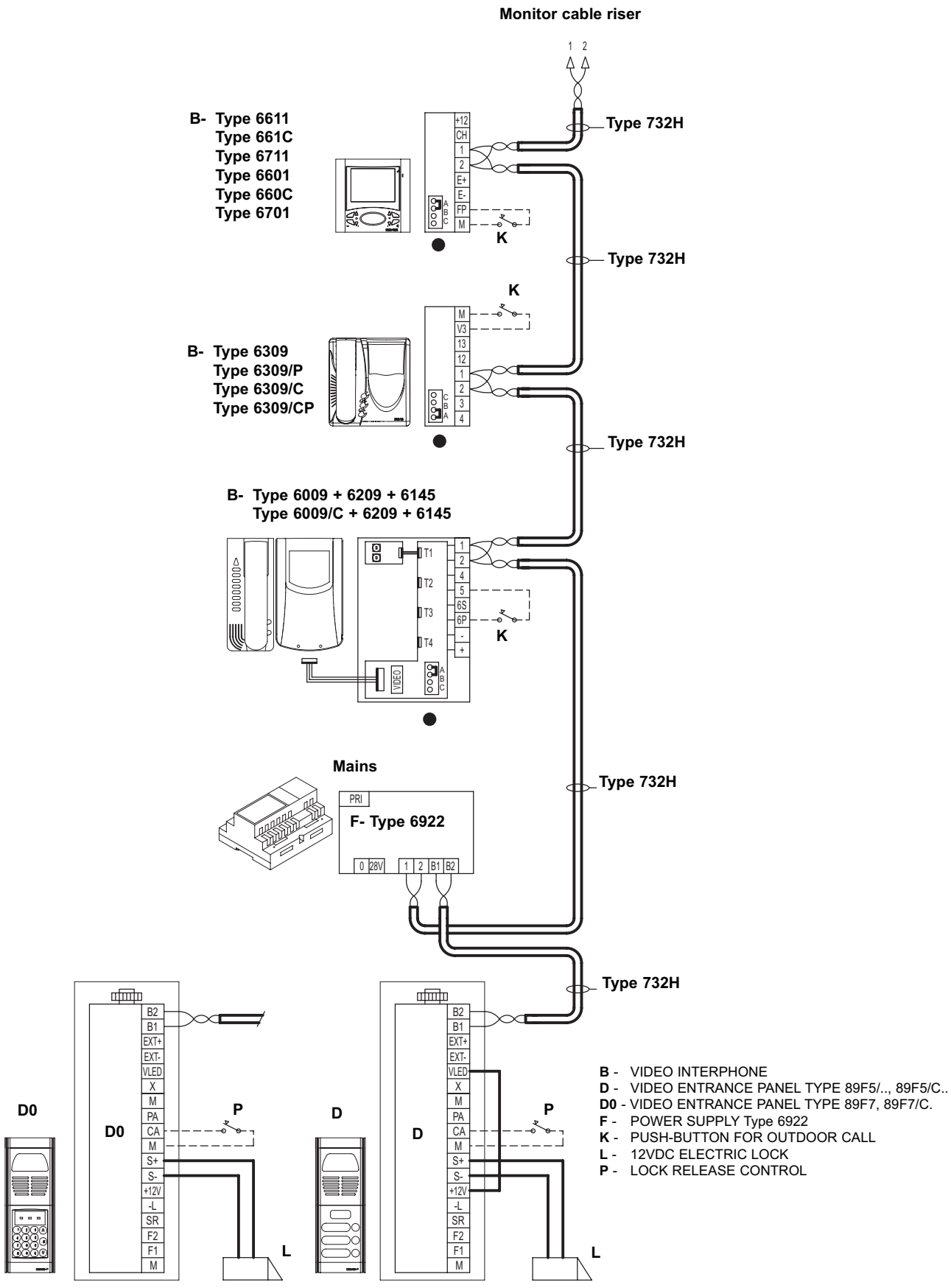
This note applies to all devices with ELVOX TWO-WIRE technology equipped with the "BUS termination connector", identified on the electronic card with the "ABC" marking and signalled on the wiring diagrams with a "*".
To adjust the video signal insert the jumper on the strip socket connector. Follow next rule for the correct line adjustment:

- keep the jumper in position "A" if the BUS line "passes through" the device;
- keep the jumper in position "B" if the device is connected to a distributor type 692D, 692D/1 or 692D/2
- in the last device, move the jumper into position "B" in the following cases:
  - the "BUS" line "ends within" the same device (the last device in "pass through" configuration)
  - the video signal of the connected distributors type 692D/1 or 692D/2 is unsatisfactory.
- if the video signal adjustment is unsatisfactory with the jumper in position "B", try position "C".

"A" → NO TERMINATION
"B" → TERMINATION 100 Ohm
"C" → TERMINATION 50 Ohm

(*) On circuit boards bearing the "ABCD" marking instead of "ABC", consider the following correspondences: A = AB; B = BC; C = CD.

SINGLE AND MULTIPLE RESIDENCE VIDEO DOOR ENTRY SYSTEM WITH VIDEO INTERPHONES AND ONE VIDEO ENTRANCE PANEL (REF. SI437)



B - VIDEO INTERPHONE
D - VIDEO ENTRANCE PANEL TYPE 89F5/.., 89F5/C..
D0 - VIDEO ENTRANCE PANEL TYPE 89F7, 89F7/C.
F - POWER SUPPLY Type 6922
K - PUSH-BUTTON FOR OUTDOOR CALL
L - 12VDC ELECTRIC LOCK
P - LOCK RELEASE CONTROL

WIRING DIAGRAM:

Diagram for video door entry system (REF. SI365)
The following diagram can be applied for the following types of systems.

Necessary programming:

Single residence system with one entrance panel and multiple video door entry units in parallel.

- (Pgr06) assigning the main entrance panel as Master (factory default).
  (see page 5.8, 5.27)
- (Pgr08) in case of push-button (main) entrance panel with supplementary modules, hardware programming of the call buttons.
  (see page 5.8)
- (Pgr10) in case of (main) entrance panel with two rows of buttons, double button programming.
  (see page 5.11)
- Position the video termination jumper of all the video door entry units, except for the last one in the chain, on “A”. On the last video door entry unit, position the jumper on “B” or possibly on “C”.
- (Pgr01) association of the identification code (ID) of the video door entry units.
  (see page 5.51, 5.53, 5.58, 5.60)
- (Pgr02) association of the secondary identification code (ID) of the video door entry units in parallel with the 1st video door entry unit. Without Type 950C, it is possible to program only 3 video door entry units with the secondary ID for a total of 4 video door entry units in parallel.
  (see page 5.52, 5.53, 5.57, 5.58)
- **In this case, the power supply unit Type 6922 can power the entrance panel and two video door entry units on at the same time; to switch on multiple video door entry units simultaneously it is necessary to add supplementary power supply units Type 6923 or program the secondary video door entry units with “monitor on off with call from entrance panel” (Pgr48) via Type 950C.**
  (see page 5.21, 5.37)

Multiple residence system with one entrance panel and two video door entry units for each flat (see apartment 1).

- (Pgr06) assigning the main entrance panel as Master (factory default).
  (see page 5.8, 5.27)
- (Pgr08) in case of push-button (main) entrance panel with supplementary modules, hardware programming of the call buttons.
  (see page 5.8)
- (Pgr10) in case of (main) entrance panel with two rows of buttons, double button programming.
  (see page 5.11)
- Position the video termination jumper of all the video door entry units, except for the last one in the chain, on “A”. On the last video door entry unit, position the jumper on “B” or possibly on “C”.
- (Pgr01) association of the identification code (ID) of the video door entry units.
  (see page 5.51, 5.53, 5.58, 5.60)
- (Pgr02) association of the secondary identification code (ID) of the video door entry units in parallel with the 1st video door entry unit. The secondary video door entry unit of apartment 1 will be programmed with the same code (or call button) as the video door entry unit of the group master of apartment 1. Without Type 950C, it is possible to program only 3 video door entry units with the secondary ID for a total of 4 video door entry units in parallel.
  (see page 5.52, 5.53, 5.57, 5.58)
- **In this case, the power supply unit Type 6922 can power the entrance panel and two video door entry units on at the same time; to switch on multiple video door entry units simultaneously it is necessary to add supplementary power supply units Type 6923 or program the secondary video door entry units with “monitor on off with call from entrance panel” (Pgr48) via Type 950C.**
  (see page 5.21, 5.37)

BUS TERMINATION TABLE FOR ELVOX TWO-WIRE SYSTEMS

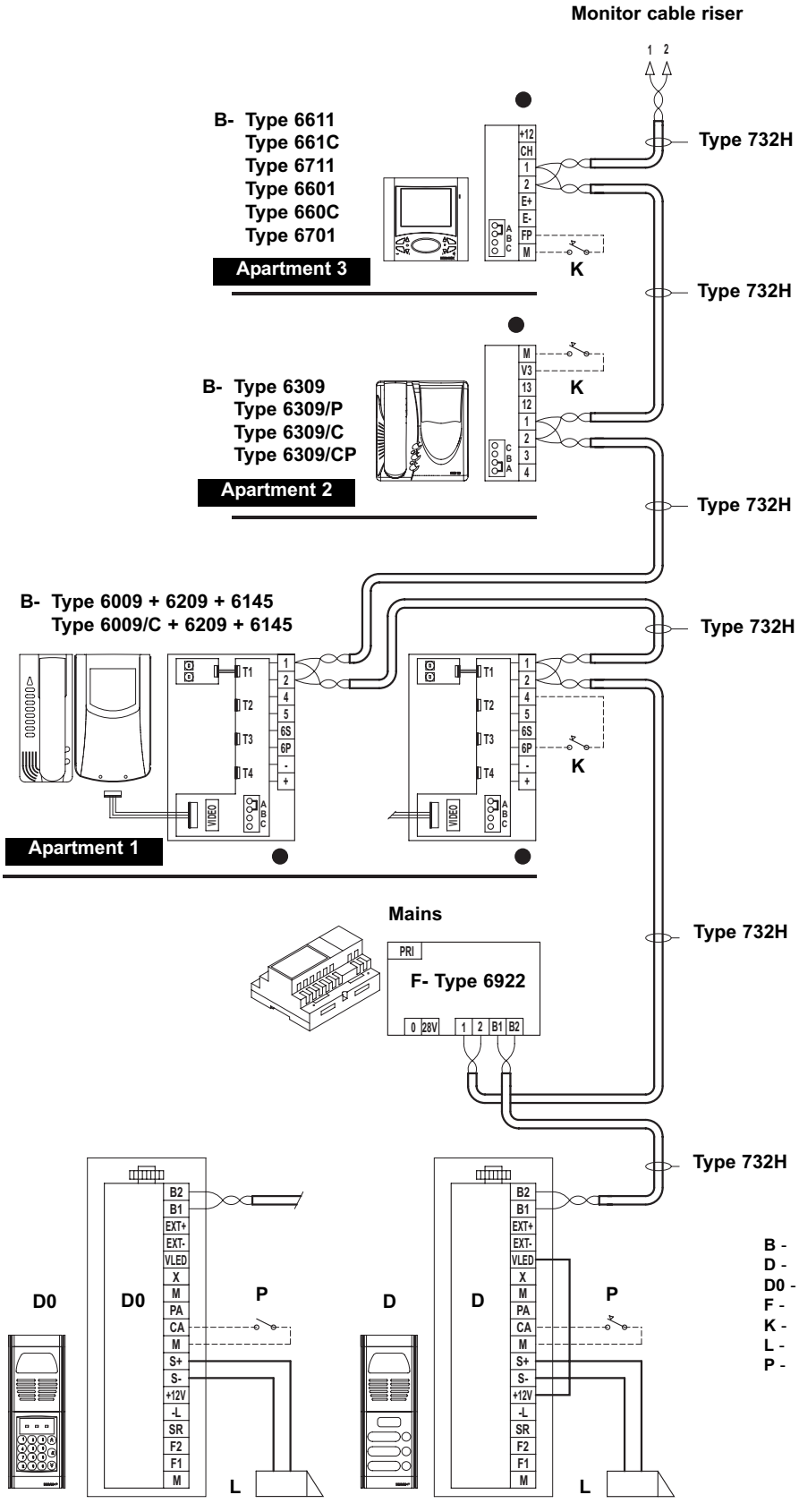
This note applies to all devices with ELVOX TWO-WIRE technology equipped with the “BUS termination connector”, identified on the electronic card with the “ABC” marking and signalled on the wiring diagrams with a “*”.
To adjust the video signal insert the jumper on the strip socket connector. Follow next rule for the correct line adjustment:

- keep the jumper in position “A” if the BUS line “passes through” the device;
- keep the jumper in position “B” if the device is connected to a distributor type 692D, 692D/1 or 692D/2
- in the last device, move the jumper into position “B” in the following cases:
  - the “BUS” line “ends within” the same device (the last device in “pass through” configuration)
  - the video signal of the connected distributors type 692D/1 or 692D/2 is unsatisfactory.
- if the video signal adjustment is unsatisfactory with the jumper in position "B", try position "C".

“A” → NO TERMINATION
“B” → TERMINATION 100 Ohm
“C” → TERMINATION 50 Ohm

(*) On circuit boards bearing the “ABCD” marking instead of “ABC”, consider the following correspondences: A = AB; B = BC; C = CD.

SINGLE AND MULTIPLE RESIDENCE VIDEO DOOR ENTRY SYSTEM WITH ONE VIDEO ENTRANCE PANEL AND MULTIPLE VIDEO INTERPHONES IN PARALLEL (REF. SI365)



B - VIDEO INTERPHONE
D - VIDEO ENTRANCE PANEL TYPE 89F5/.., 89F5/C..
D0 - VIDEO ENTRANCE PANEL TYPE 89F7, 89F7/C.
F - POWER SUPPLY Type 6922
K - PUSH-BUTTON FOR OUTDOOR CALL
L - 12VDC ELECTRIC LOCK
P - LOCK RELEASE CONTROL

WIRING DIAGRAM:

Diagram for video door entry system (REF. SI365)
The following diagram can be applied for the following types of systems.

Necessary programming:

Single residence system with one entrance panel and multiple video door entry units in parallel with intercommunicating calls.

- (Pgr06) assigning the main entrance panel as Master (factory default). (see page 5.8, 5.27)
- (Pgr08) in case of push-button (main) entrance panel with supplementary modules, hardware programming of the call buttons. (see page 5.8)
- (Pgr10) in case of (main) entrance panel with two rows of buttons, double button programming. (see page 5.11)
- Position the video termination jumper of all the video door entry units, except for the last one in the chain, on “A”. On the last video door entry unit, position the jumper on “B” or possibly on “C”.
- (Pgr01) association of the identification code (ID) of the video door entry units. (see page 5.51, 5.53, 5.58, 5.60)
- (Pgr02) association of the secondary identification code (ID) of the video door entry units in parallel with the 1st video door entry unit. Without Type 950C, it is possible to program only 3 video door entry units with the secondary ID for a total of 4 video door entry units in parallel. (see page 5.52, 5.53, 5.57, 5.58)
- **In this case, the power supply unit Type 6922 can power the entrance panel and two video door entry units on at the same time; to switch on multiple video door entry units simultaneously it is necessary to add supplementary power supply units Type 6923 or program the secondary video door entry units with “monitor on off with call from entrance panel” (Pgr48) via Type 950C.** (see page 5.21, 5.37)
- (Pgr03) programming of the intercommunicating call buttons. (see page 5.50, 5.52, 5.56, 5.57)

Multiple residence system with one entrance panel, one video door entry unit for each flat and intercommunicating calls between the video door entry units.
Using this configuration engages the entire system during an intercommunicating conversation

- (Pgr06) assigning the main entrance panel as Master (factory default). (see page 5.8, 5.27)
- (Pgr08) in case of push-button (main) entrance panel with supplementary modules, hardware programming of the call buttons. (see page 5.8)
- (Pgr10) in case of (main) entrance panel with two rows of buttons, double button programming. (see page 5.11)
- Position the video termination jumper of all the video door entry units, except for the last one in the chain, on “A”. On the last video door entry unit, position the jumper on “B” or possibly on “C”.
- (Pgr01) association of the identification code (ID) of the video door entry units. (see page 5.51, 5.53, 5.58, 5.60)
- (Pgr03) programming of the intercommunicating call buttons. (see page 5.50, 5.52, 5.56, 5.57)

BUS TERMINATION TABLE FOR ELVOX TWO-WIRE SYSTEMS

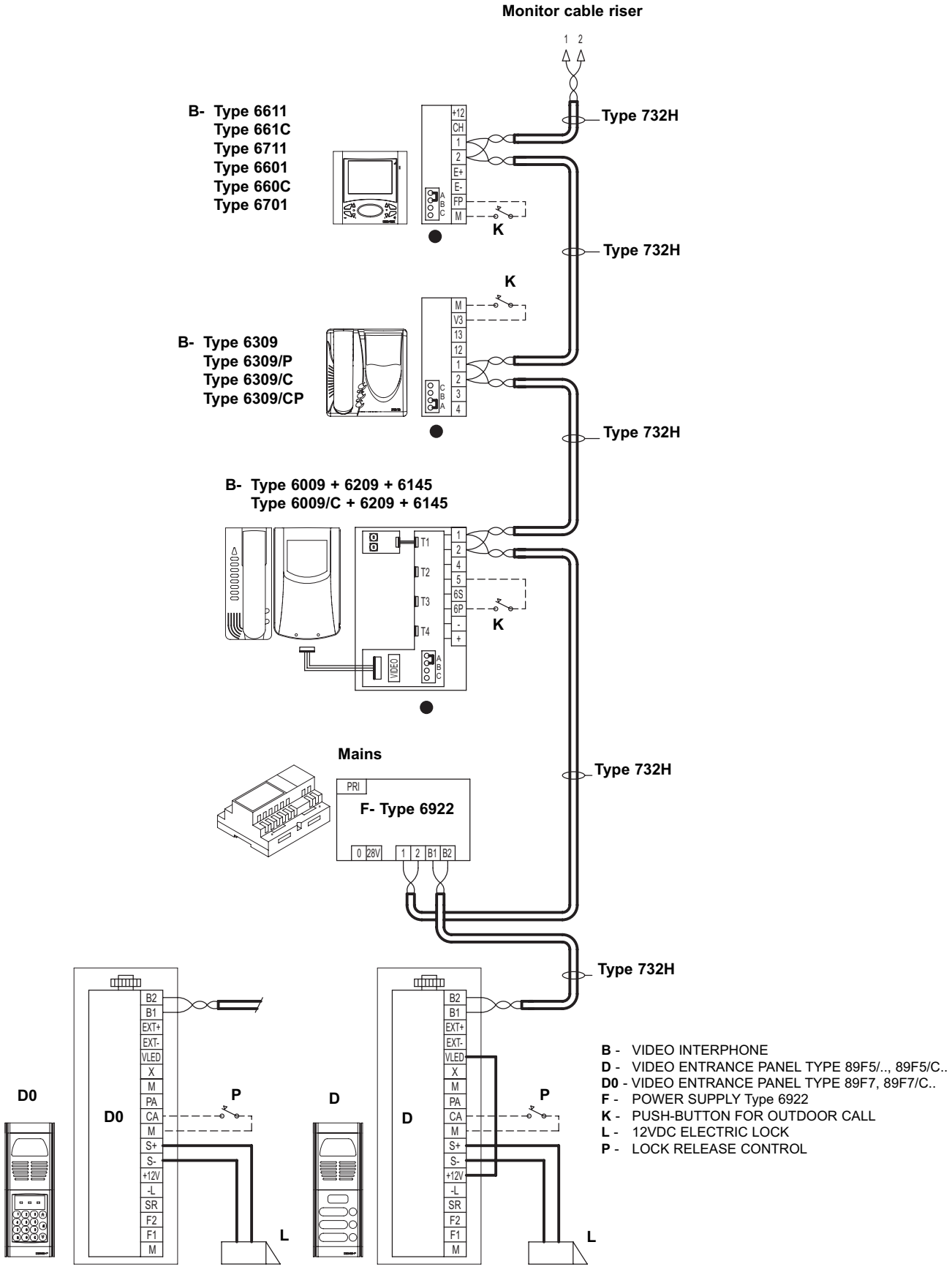
This note applies to all devices with ELVOX TWO-WIRE technology equipped with the “BUS termination connector”, identified on the electronic card with the “ABC” marking and signalled on the wiring diagrams with a “*”.
To adjust the video signal insert the jumper on the strip socket connector. Follow next rule for the correct line adjustment:

- keep the jumper in position “A” if the BUS line “passes through” the device;
- keep the jumper in position “B” if the device is connected to a distributor type 692D, 692D/1 or 692D/2
- in the last device, move the jumper into position “B” in the following cases:
  - the “BUS” line “ends within” the same device (the last device in “pass through” configuration)
  - the video signal of the connected distributors type 692D/1 or 692D/2 is unsatisfactory.
- if the video signal adjustment is unsatisfactory with the jumper in position "B", try position "C".

“A” → NO TERMINATION
“B” → TERMINATION 100 Ohm
“C” → TERMINATION 50 Ohm

(*) On circuit boards bearing the “ABCD” marking instead of “ABC”, consider the following correspondences: A = AB; B = BC; C = CD.

SINGLE AND MULTIPLE RESIDENCE VIDEO DOOR ENTRY SYSTEM WITH ONE VIDEO ENTRANCE PANEL AND INTERCOM VIDEO DOOR ENTRY UNITS (REF. SI437)



B - VIDEO INTERPHONE
D - VIDEO ENTRANCE PANEL TYPE 89F5/.., 89F5/C..
D0 - VIDEO ENTRANCE PANEL TYPE 89F7, 89F7/C..
F - POWER SUPPLY Type 6922
K - PUSH-BUTTON FOR OUTDOOR CALL
L - 12VDC ELECTRIC LOCK
P - LOCK RELEASE CONTROL

Diagram for video door entry system (REF. SI371)
The following diagram can be applied for the following types of systems.

Necessary programming:

Multiple residence system with one entrance panel and one video door entry unit for each flat (apartment).

- (Pgr06) assigning the main entrance panel as Master (factory default). (see page 5.8, 5.27)
- (Pgr08) in case of push-button (main) entrance panel with supplementary modules, hardware programming of the call buttons. (see page 5.8)
- (Pgr10) in case of (main) entrance panel with two rows of buttons, double button programming. (see page 5.11)
- Position the video termination jumper of all the video door entry units, except for the last one in each pillar, on “A”. On the last video door entry unit of each pillar, position the jumper on “B” or possibly on “C”.
- (Pgr01) association of the identification code (ID) of the video door entry units. (see page 5.51, 5.53, 5.58, 5.60)

BUS TERMINATION TABLE FOR ELVOX TWO-WIRE SYSTEMS

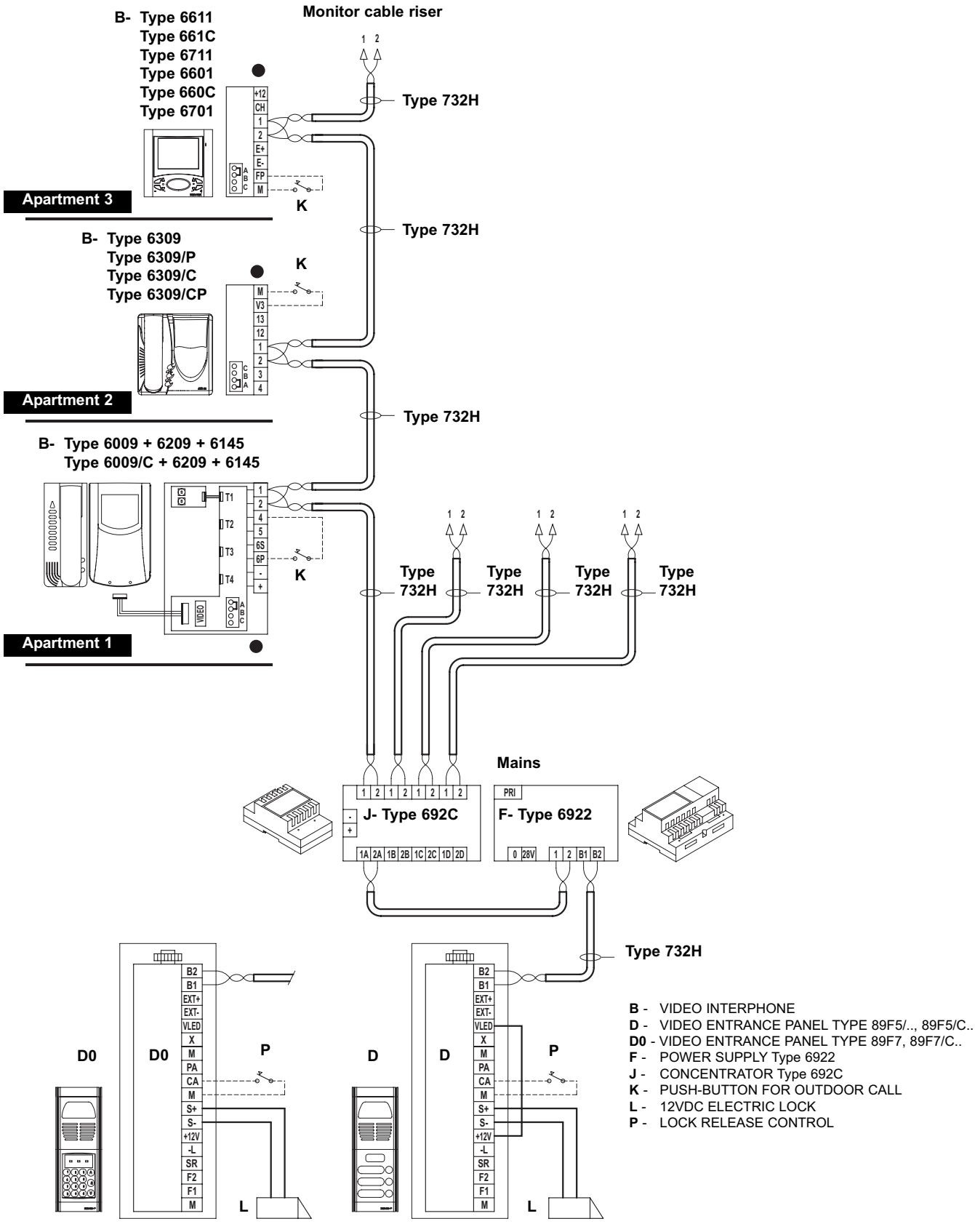
This note applies to all devices with ELVOX TWO-WIRE technology equipped with the “BUS termination connector”, identified on the electronic card with the “ABC” marking and signalled on the wiring diagrams with a “*”.
To adjust the video signal insert the jumper on the strip socket connector. Follow next rule for the correct line adjustment:

- keep the jumper in position “A” if the BUS line “passes through” the device;
- keep the jumper in position “B” if the device is connected to a distributor type 692D, 692D/1 or 692D/2
- in the last device, move the jumper into position “B” in the following cases:
  - the “BUS” line “ends within” the same device (the last device in “pass through” configuration)
  - the video signal of the connected distributors type 692D/1 or 692D/2 is unsatisfactory.
- if the video signal adjustment is unsatisfactory with the jumper in position "B", try position "C".

“A” → NO TERMINATION
“B” → TERMINATION 100 Ohm
“C” → TERMINATION 50 Ohm

(*) On circuit boards bearing the “ABCD” marking instead of “ABC”, consider the following correspondences: A = AB; B = BC; C = CD.

SINGLE AND MULTIPLE RESIDENCE VIDEO DOOR ENTRY SYSTEM WITH VIDEO INTERPHONES, ONE VIDEO ENTRANCE PANEL AND MULTIPLE VIDEO PILLARS (REF. SI371)



B - VIDEO INTERPHONE
D - VIDEO ENTRANCE PANEL TYPE 89F5/.., 89F5/C..
D0 - VIDEO ENTRANCE PANEL TYPE 89F7, 89F7/C..
F - POWER SUPPLY Type 6922
J - CONCENTRATOR Type 692C
K - PUSH-BUTTON FOR OUTDOOR CALL
L - 12VDC ELECTRIC LOCK
P - LOCK RELEASE CONTROL

WIRING DIAGRAM:

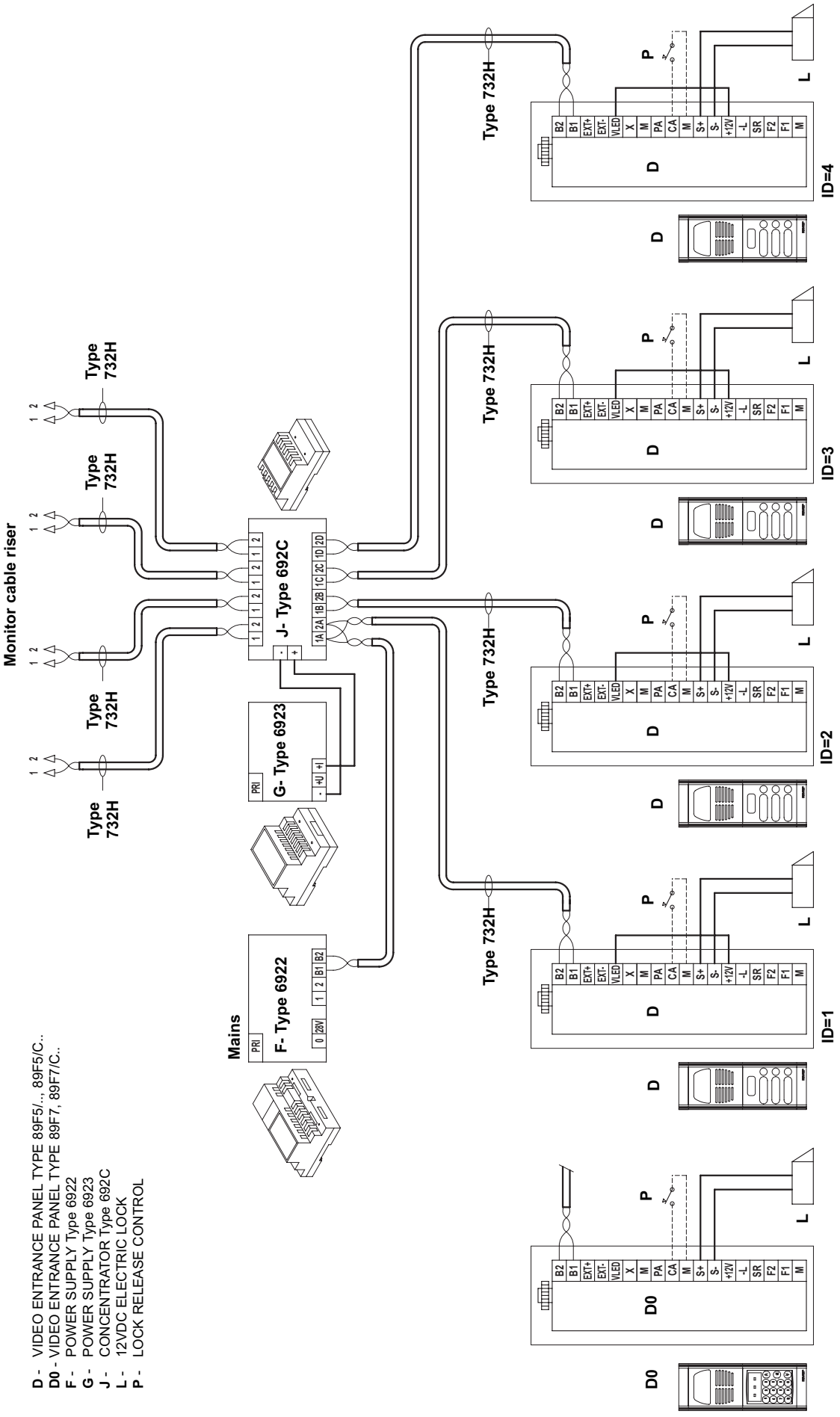
Diagram for video door entry system (REF. SI372)
The following diagram can be applied for the following types of systems.

Necessary programming:

Multiple residence system with 4 video entrance panels, 4 pillars and one video door entry unit for each flat (apartment).

- (Pgr06) assignment of the SLAVE panels. All the secondary panels and the main panels, except for one, must be programmed as SLAVE panels, with one main panel as the MASTER (only one).
  (see page 5.8, 5.10, 5.27, 5.28)
- (Pgr08) in case of push-button (main) entrance panel with supplementary modules, hardware programming of the call buttons.
  (see page 5.8)
- (Pgr10) in case of (main) entrance panel with two rows of buttons, double button programming.
  (see page 5.11)
- (Pgr07) Without connecting the Master panel, program the ID of the SLAVE panels.
  (see page 5.8, 5.10, 5.27, 5.28)
- Connecting and switching on the MASTER panel.
- Position the video termination jumper of all the video door entry units, except for the last one in each pillar, on “A”. On the last video door entry unit of each pillar, position the jumper on “B” or possibly on “C”.
- (Pgr01) association of the identification code (ID) of the video door entry units.
  (see page 5.51, 5.53, 5.58, 5.60)

SINGLE AND MULTIPLE RESIDENCE VIDEO INTERPHONES WITH 4 VIDEO ENTRANCE PANELS AND 4 VIDEO PILLARS (REF. SI372)



D - VIDEO ENTRANCE PANEL TYPE 89F5/.., 89F5/C..
D0 - VIDEO ENTRANCE PANEL TYPE 89F7, 89F7/C..
F - POWER SUPPLY Type 6922
G - POWER SUPPLY Type 6923
J - CONCENTRATOR Type 692C
L - 12VDC ELECTRIC LOCK
P - LOCK RELEASE CONTROL

WIRING DIAGRAM:

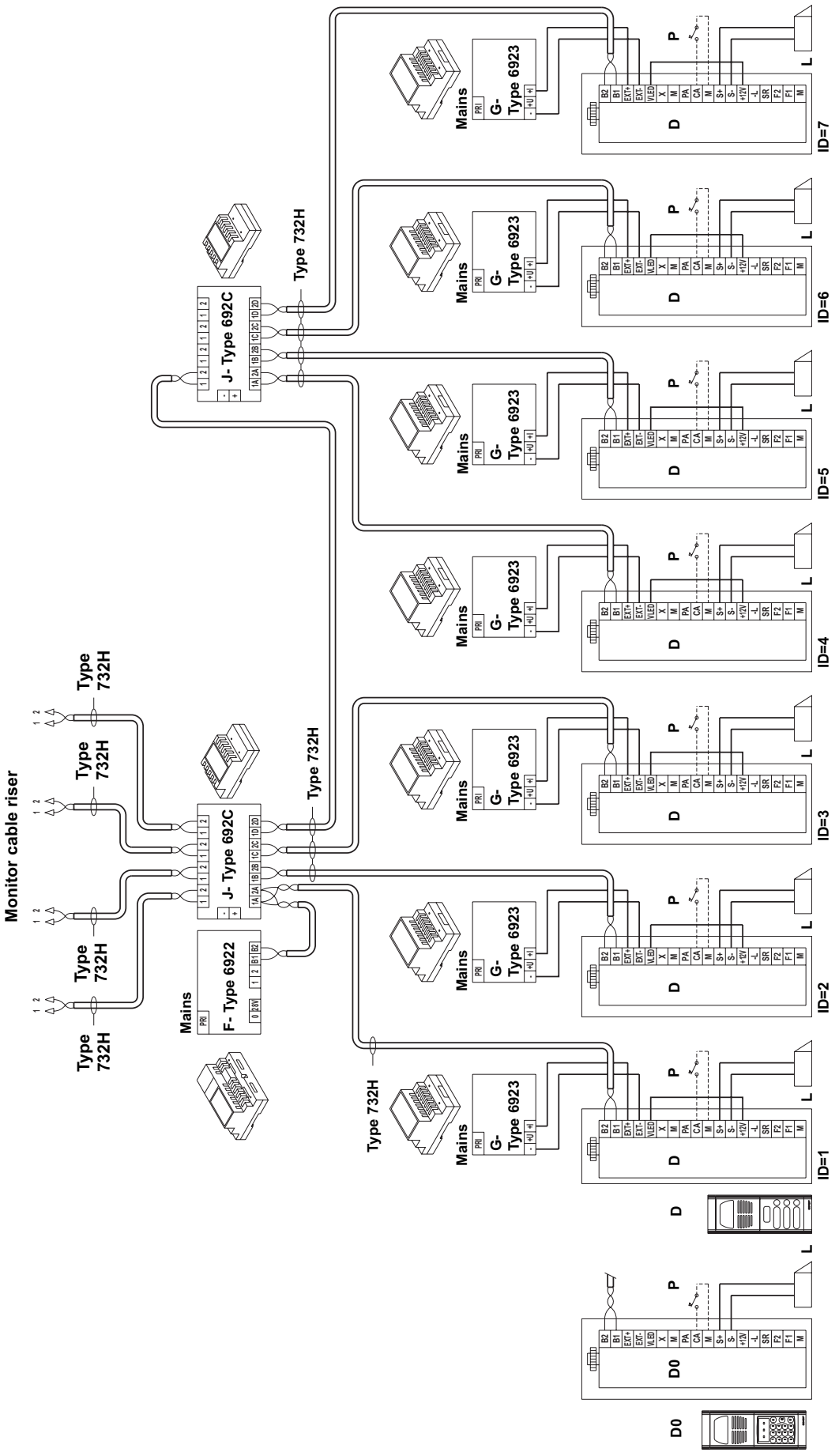
Diagram for video door entry system (REF. SI373)
The following diagram can be applied for the following types of systems.

Necessary programming:

Multiple residence system with 7 video entrance panels, 4 pillars and one video door entry unit for each flat (apartment).

- (Pgr06) assignment of the SLAVE panels. All the secondary panels and the main panels, except for one, must be programmed as SLAVE panels, with one main panel as the MASTER (only one).
  (see page 5.8, 5.10, 5.27, 5.28)
- (Pgr08) in case of push-button (main) entrance panel with supplementary modules, hardware programming of the call buttons.
  (see page 5.8)
- (Pgr10) in case of (main) entrance panel with two rows of buttons, double button programming.
  (see page 5.11)
- (Pgr07) Without connecting the Master panel, program the ID of the SLAVE panels.
  (see page 5.8, 5.10, 5.27, 5.28)
- Connecting and switching on the MASTER panel.
- Position the video termination jumper of all the video door entry units, except for the last one in each pillar, on “A”. On the last video door entry unit of each pillar, position the jumper on “B” or possibly on “C”.
- (Pgr01) association of the identification code (ID) of the video door entry units.
  (see page 5.51, 5.53, 5.58, 5.60)

SINGLE AND MULTIPLE RESIDENCE VIDEO DOOR ENTRY SYSTEM WITH 7 VIDEO ENTRANCE PANELS AND 4 VIDEO PILLARS (REF. SI373)



WIRING DIAGRAM:

Diagram for video door entry system (REF. SI423)
The following diagram can be applied for the following types of systems.

Necessary programming:

Multiple residence system with one entrance panel and one video door entry unit for each flat (apartment).

- (Pgr01) association of the identification code (ID) of the separators. (see page 5.4)
- Position the video termination jumper of all the video door entry units, except for the last one in each pillar, on “A”. On the last video door entry unit of each pillar, position the jumper on “B” or possibly on “C”.
- (Pgr06) assigning the main entrance panel as Master (factory default). (see page 5.8, 5.27)
- (Pgr08) in case of push-button (main) entrance panel with supplementary modules, hardware programming of the call buttons. (see page 5.8)
- (Pgr10) in case of (main) entrance panel with two rows of buttons, double button programming. (see page 5.11)
- Position the video termination jumper of all the separators, except for the last one in the chain, on “A”.
- (Pgr01) association of the identification code (ID) of the video door entry units. (see page 5.51, 5.53, 5.58, 5.60)

●

BUS TERMINATION TABLE FOR ELVOX TWO-WIRE SYSTEMS

This note applies to all devices with ELVOX TWO-WIRE technology equipped with the “BUS termination connector”, identified on the electronic card with the “ABC” marking and signalled on the wiring diagrams with a “*”.
To adjust the video signal insert the jumper on the strip socket connector. Follow next rule for the correct line adjustment:

- keep the jumper in position “A” if the BUS line “passes through” the device;
- keep the jumper in position “B” if the device is connected to a distributor type 692D, 692D/1 or 692D/2
- in the last device, move the jumper into position “B” in the following cases:
  - the “BUS” line “ends within” the same device (the last device in “pass through” configuration)
  - the video signal of the connected distributors type 692D/1 or 692D/2 is unsatisfactory.
- if the video signal adjustment is unsatisfactory with the jumper in position "B", try position "C".

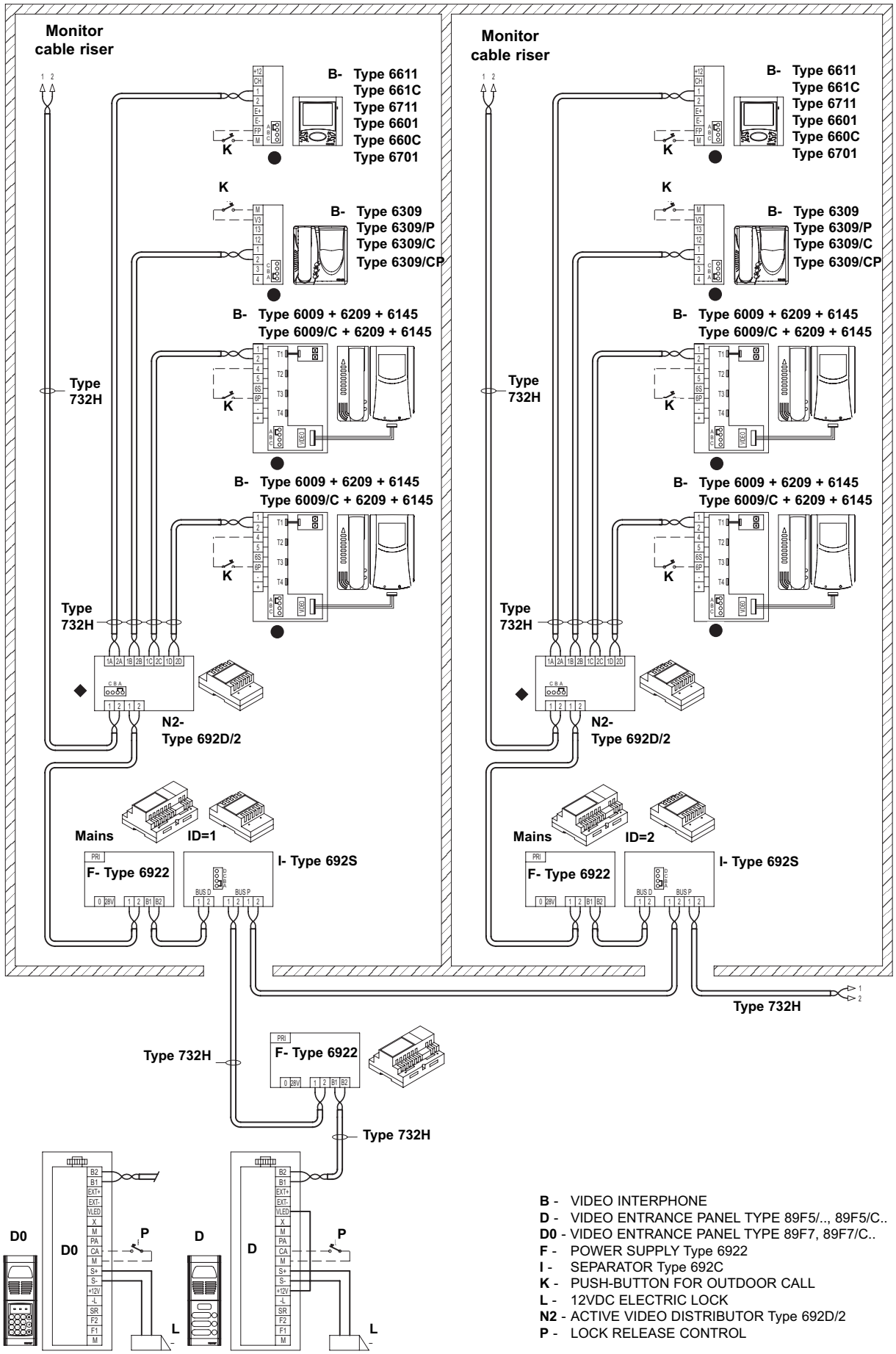
“A” → NO TERMINATION
“B” → TERMINATION 100 Ohm
“C” → TERMINATION 50 Ohm

(*) On circuit boards bearing the “ABCD” marking instead of “ABC”, consider the following correspondences: A = AB; B = BC; C = CD.

◆

INSTALLATIONS WITH ACTIVE DISTRIBUTOR 692D/1 and 692D/2
In these articles the BUS input and output are terminals (1-2, B1-B2, in type 692D/2). The jumper is to be set on “B” (or on “C”) IF AND ONLY IF these terminals are not used to continue the BUS (there is no device connected for the line termination).

MULTIPLE RESIDENCE VIDEO DOOR ENTRY SYSTEM WITH ACTIVE VIDEO DISTRIBUTORS ON MULTIPLE COLUMN PILLARS AND ONE VIDEO ENTRANCE PANEL (REF. SI423)



B - VIDEO INTERPHONE
D - VIDEO ENTRANCE PANEL TYPE 89F5/.., 89F5/C..
D0 - VIDEO ENTRANCE PANEL TYPE 89F7, 89F7/C..
F - POWER SUPPLY Type 6922
I - SEPARATOR Type 692C
K - PUSH-BUTTON FOR OUTDOOR CALL
L - 12VDC ELECTRIC LOCK
N2 - ACTIVE VIDEO DISTRIBUTOR Type 692D/2
P - LOCK RELEASE CONTROL

Diagram for video door entry system (REF. SI424)
The following diagram can be applied for the following types of systems.

Necessary programming:

Multiple residence system with one entrance panel and one video door entry unit for each flat (apartment).

- (Pgr01) association of the identification code (ID) of the separators. (see page 5.4)
- Position the video termination jumper of all the separators on “B” or possibly on “C”.
- (Pgr06) assigning the main entrance panel as Master (factory default). (see page 5.8, 5.27)
- (Pgr08) in case of push-button (main) entrance panel with supplementary modules, hardware programming of the call buttons. (see page 5.8)
- (Pgr10) in case of (main) entrance panel with two rows of buttons, double button programming. (see page 5.11)
- Position the video termination jumper of all the video door entry units on “A”.
- (Pgr01) association of the identification code (ID) of the video door entry units. (see page 5.51, 5.53, 5.58, 5.60)

● **BUS TERMINATION TABLE FOR ELVOX TWO-WIRE SYSTEMS**

This note applies to all devices with ELVOX TWO-WIRE technology equipped with the “BUS termination connector”, identified on the electronic card with the “ABC” marking and signalled on the wiring diagrams with a “*”.
To adjust the video signal insert the jumper on the strip socket connector. Follow next rule for the correct line adjustment:

- keep the jumper in position “A” if the BUS line “passes through” the device;
- keep the jumper in position “B” if the device is connected to a distributor type 692D, 692D/1 or 692D/2
- in the last device, move the jumper into position “B” in the following cases:
  - the “BUS” line “ends within” the same device (the last device in “pass through” configuration)
  - the video signal of the connected distributors type 692D/1 or 692D/2 is unsatisfactory.
- if the video signal adjustment is unsatisfactory with the jumper in position "B", try position "C".

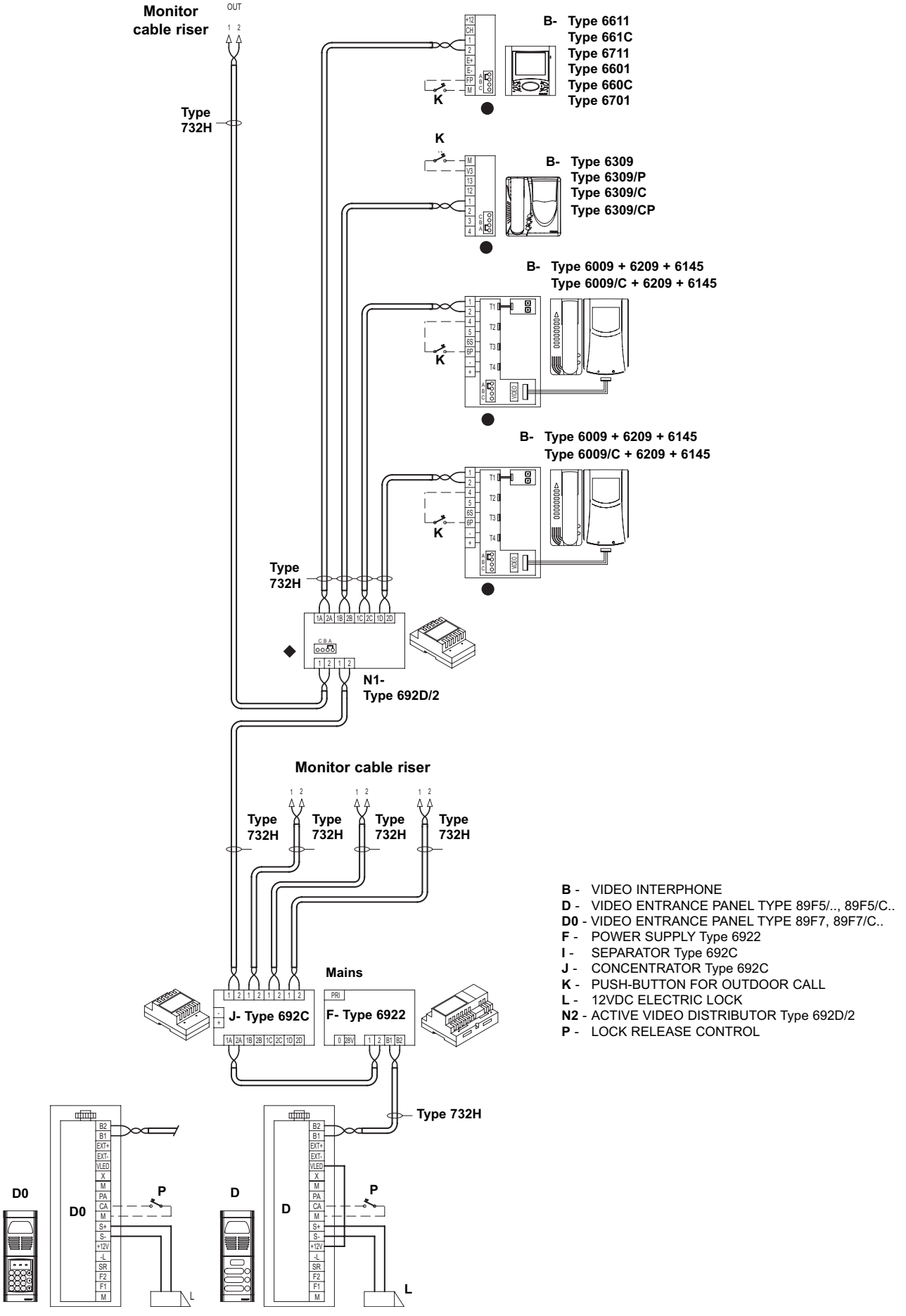
“A” → NO TERMINATION
“B” → TERMINATION 100 Ohm
“C” → TERMINATION 50 Ohm

(*) On circuit boards bearing the “ABCD” marking instead of “ABC”, consider the following correspondences: A = AB; B = BC; C = CD.

◆

INSTALLATIONS WITH ACTIVE DISTRIBUTOR 692D/1 and 692D/2
In these articles the BUS input and output are terminals (1-2, B1-B2, in type 692D/2). The jumper is to be set on “B” (or on “C”) IF AND ONLY IF these terminals are not used to continue the BUS (there is no device connected for the line termination).

MULTIPLE RESIDENCE VIDEO DOOR ENTRY SYSTEM WITH ACTIVE VIDEO DISTRIBUTORS ON MULTIPLE COLUMN PILLARS WITH CONCENTRATOR TYPE 692C AND ONE VIDEO ENTRANCE PANEL (REF. SI424)



B - VIDEO INTERPHONE
D - VIDEO ENTRANCE PANEL TYPE 89F5/.., 89F5/C..
D0 - VIDEO ENTRANCE PANEL TYPE 89F7, 89F7/C..
F - POWER SUPPLY Type 6922
I - SEPARATOR Type 692C
J - CONCENTRATOR Type 692C
K - PUSH-BUTTON FOR OUTDOOR CALL
L - 12VDC ELECTRIC LOCK
N2 - ACTIVE VIDEO DISTRIBUTOR Type 692D/2
P - LOCK RELEASE CONTROL

Diagram for video door entry system (REF. SI368)
The following diagram can be applied for the following types of systems.

Necessary programming:

Single residence system with one entrance panel and one video door entry unit.

- Position the video termination jumper, of the only video door entry unit, on “B” or possibly on “C”.
- (Pgr06) assigning the main entrance panel as Master (factory default). (see page 5.8, 5.27)
- (Pgr01) association of the identification code (ID) of the video door entry units. (see page 5.51, 5.53, 5.58, 5.60)

Multiple residence system with one entrance panel and one video door entry unit for each flat (apartment).

- (Pgr06) assigning the main entrance panel as Master (factory default). (see page 5.8, 5.27)
- (Pgr08) in case of push-button (main) entrance panel with supplementary modules, hardware programming of the call buttons. (see page 5.8)
- (Pgr10) in case of (main) entrance panel with two rows of buttons, double button programming. (see page 5.11)
- Position the video termination jumper of all the video door entry units, except for the last one in the chain, on “A”. On the last video door entry unit, position the jumper on “B” or possibly on “C”.
- (Pgr01) association of the identification code (ID) of the video door entry units. (see page 5.51, 5.53, 5.58, 5.60)

BUS TERMINATION TABLE FOR ELVOX TWO-WIRE SYSTEMS

This note applies to all devices with ELVOX TWO-WIRE technology equipped with the “BUS termination connector”, identified on the electronic card with the “ABC” marking and signalled on the wiring diagrams with a “*”.
To adjust the video signal insert the jumper on the strip socket connector. Follow next rule for the correct line adjustment:

- keep the jumper in position “A” if the BUS line “passes through” the device;
- keep the jumper in position “B” if the device is connected to a distributor type 692D, 692D/1 or 692D/2
- in the last device, move the jumper into position “B” in the following cases:
  - the “BUS” line “ends within” the same device (the last device in “pass through” configuration)
  - the video signal of the connected distributors type 692D/1 or 692D/2 is unsatisfactory.
- if the video signal adjustment is unsatisfactory with the jumper in position "B", try position "C".

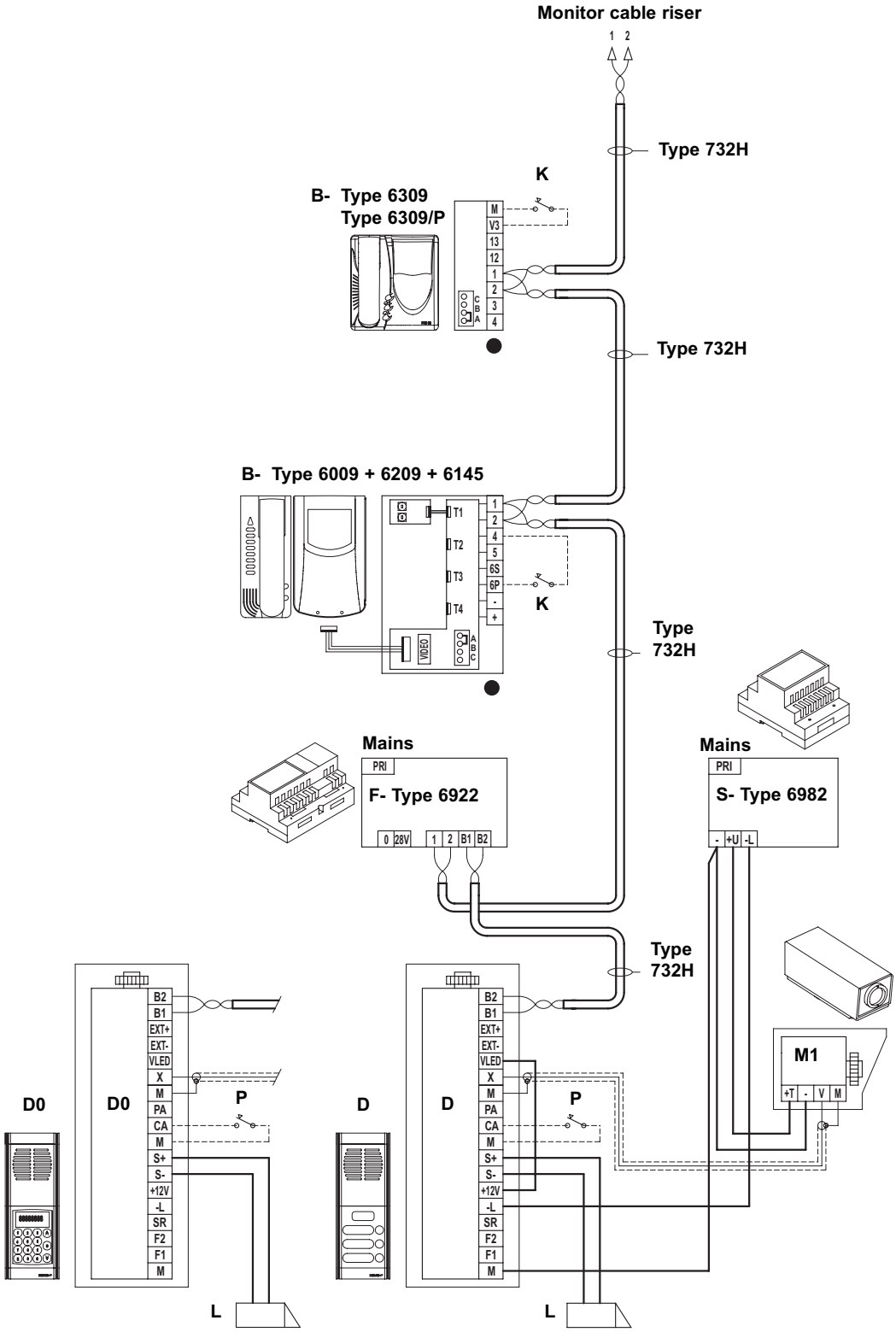
“A” → NO TERMINATION
“B” → TERMINATION 100 Ohm
“C” → TERMINATION 50 Ohm

(*) On circuit boards bearing the “ABCD” marking instead of “ABC”, consider the following correspondences: A = AB; B = BC; C = CD.

SINGLE AND MULTIPLE RESIDENCE VIDEO DOOR ENTRY SYSTEM WITH B/W VIDEO DOOR ENTRY UNITS AND ONE ENTRANCE PANEL WITH EXTERNAL VIDEO CAMERA (REF. SI368)

N.B. On B/W video door entry systems with external video cameras connected to the TWO WIRE entrance panels, do not use colour video cameras.

B - VIDEO INTERPHONE
D - VIDEO ENTRANCE PANEL TYPE 89F5/.., 89F5/C..
D0 - VIDEO ENTRANCE PANEL TYPE 89F7, 89F7/C..
F - POWER SUPPLY Type 6922
K - PUSH-BUTTON FOR OUTDOOR CALL
L - 12VDC ELECTRIC LOCK
M1 - 12VDC C.C.T.V. B/W EXTERNAL CAMERA
P - LOCK RELEASE CONTROL
S - POWER SUPPLY Type 6982



WIRING DIAGRAM:

Diagram for video door entry system (REF. SI367)
The following diagram can be applied for the following types of systems.

Necessary programming:

Single residence system with one entrance panel and one video door entry unit.
- Position the video termination jumper, of the only video door entry unit, on “B” or possibly on “C”.
- (Pgr06) assigning the main entrance panel as Master (factory default). (see page 5.8, 5.27)
- (Pgr01) association of the identification code (ID) of the video door entry units. (see page 5.51, 5.53, 5.58, 5.60)

Multiple residence system with one entrance panel and one video door entry unit for each flat (apartment).
- (Pgr06) assigning the main entrance panel as Master (factory default). (see page 5.8, 5.27)
- (Pgr08) in case of push-button (main) entrance panel with supplementary modules, hardware programming of the call buttons. (see page 5.8)
- (Pgr10) in case of (main) entrance panel with two rows of buttons, double button programming. (see page 5.11)
- Position the video termination jumper of all the video door entry units, except for the last one in the chain, on “A”. On the last video door entry unit, position the jumper on “B” or possibly on “C”.
- (Pgr01) association of the identification code (ID) of the video door entry units. (see page 5.51, 5.53, 5.58, 5.60)

BUS TERMINATION TABLE FOR ELVOX TWO-WIRE SYSTEMS

This note applies to all devices with ELVOX TWO-WIRE technology equipped with the “BUS termination connector”, identified on the electronic card with the “ABC” marking and signalled on the wiring diagrams with a “*”.
To adjust the video signal insert the jumper on the strip socket connector. Follow next rule for the correct line adjustment:
- keep the jumper in position “A” if the BUS line “passes through” the device;
- keep the jumper in position “B” if the device is connected to a distributor type 692D, 692D/1 or 692D/2
- in the last device, move the jumper into position “B” in the following cases:
  - the “BUS” line “ends within” the same device (the last device in “pass through” configuration)
  - the video signal of the connected distributors type 692D/1 or 692D/2 is unsatisfactory.
- if the video signal adjustment is unsatisfactory with the jumper in position "B", try position "C".

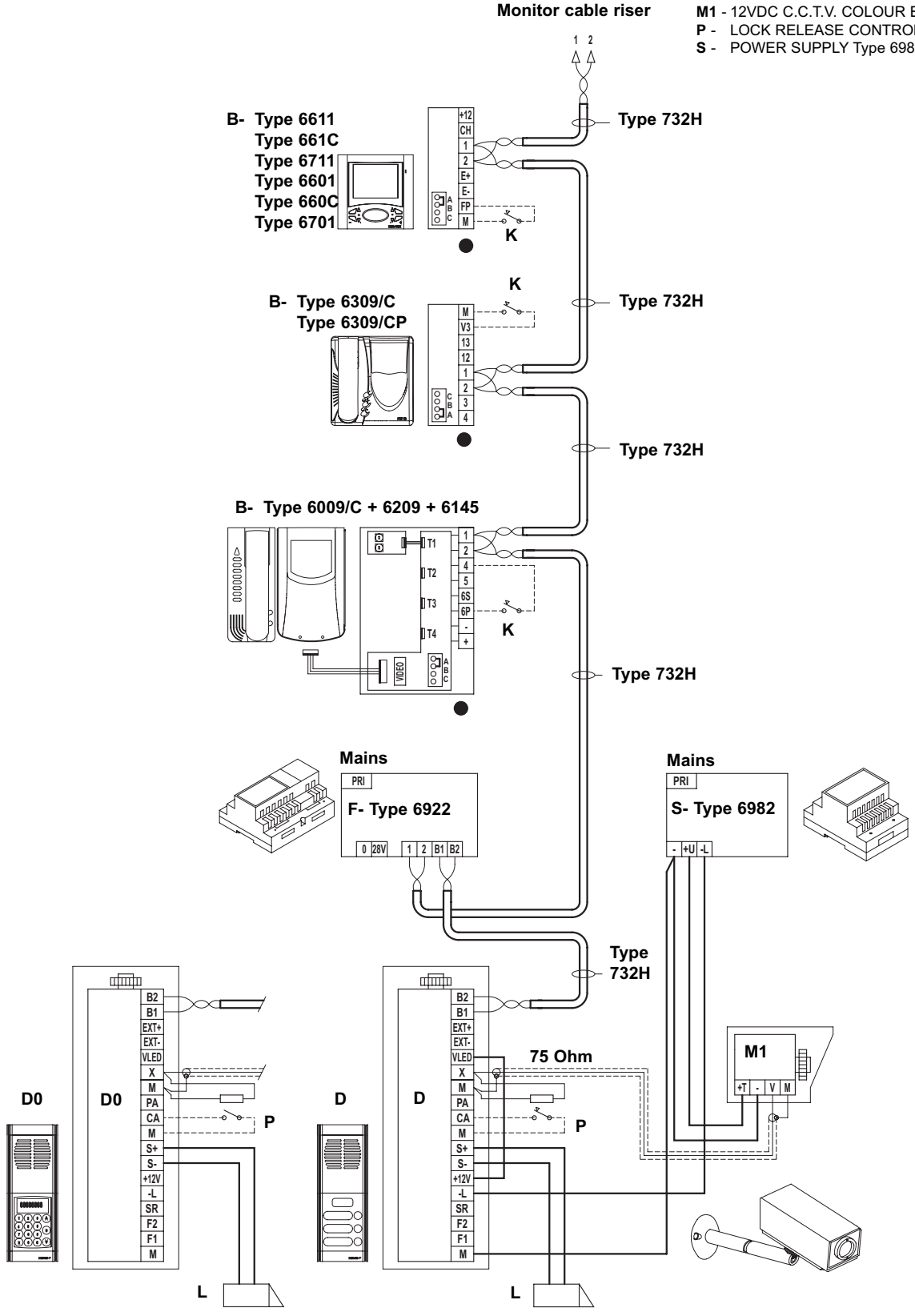
“A” → NO TERMINATION
“B” → TERMINATION 100 Ohm
“C” → TERMINATION 50 Ohm

(*) On circuit boards bearing the “ABCD” marking instead of “ABC”, consider the following correspondences: A = AB; B = BC; C = CD.

SINGLE AND MULTIPLE RESIDENCE VIDEO DOOR ENTRY SYSTEM WITH COLOUR VIDEO INTERPHONES AND ONE ENTRANCE PANEL WITH EXTERNAL VIDEO CAMERA (REF. SI367)

N.B. On B/W video door entry systems with external video cameras connected to the TWO WIRE entrance panels, do not use B/W video cameras.

B - VIDEO INTERPHONE
D - VIDEO ENTRANCE PANEL TYPE 89F5/.., 89F5/C..
D0 - VIDEO ENTRANCE PANEL TYPE 89F7, 89F7/C..
F - POWER SUPPLY Type 6922
K - PUSH-BUTTON FOR OUTDOOR CALL
L - 12VDC ELECTRIC LOCK
M1 - 12VDC C.C.T.V. COLOUR EXTERNAL CAMERA
P - LOCK RELEASE CONTROL
S - POWER SUPPLY Type 6982



WIRING DIAGRAM:

Diagram for video door entry system (REF. SI366)
The following diagram can be applied for the following types of systems.

Necessary programming:

Multiple residence system with one entrance panel, one video door entry unit for each flat and intercommunicating video door entry units in a single flat (see apartment 1).

- (Pgr01) association of the identification code (ID) of the separators. (see page 5.4)
- Position the video termination jumper of all the separators, except for the last one in the chain, on “A”. On the last separator, position the jumper on “B” or possibly on “C”.
- (Pgr06) assigning the main entrance panel as Master (factory default). (see page 5.8, 5.27)
- (Pgr08) in case of push-button (main) entrance panel with supplementary modules, hardware programming of the call buttons. (see page 5.8)
- (Pgr10) in case of (main) entrance panel with two rows of buttons, double button programming. (see page 5.11)
- Position the video termination jumper of all the video door entry units on “B" or possibly on "C".
- (Pgr01) association of the identification code (ID) of the video door entry units. (see page 5.51, 5.53, 5.58, 5.60)
- (Pgr02) association of the secondary identification code (ID) of the video door entry units in parallel with the 1st video door entry unit. Without Type 950C, it is possible to program only 3 video door entry units with the secondary ID for a total of 4 video door entry units in parallel. (see page 5.52, 5.53, 5.57, 5.58)
- (Pgr03) programming of the intercommunicating call buttons. (see page 5.50, 5.52, 5.56, 5.57)

BUS TERMINATION TABLE FOR ELVOX TWO-WIRE SYSTEMS

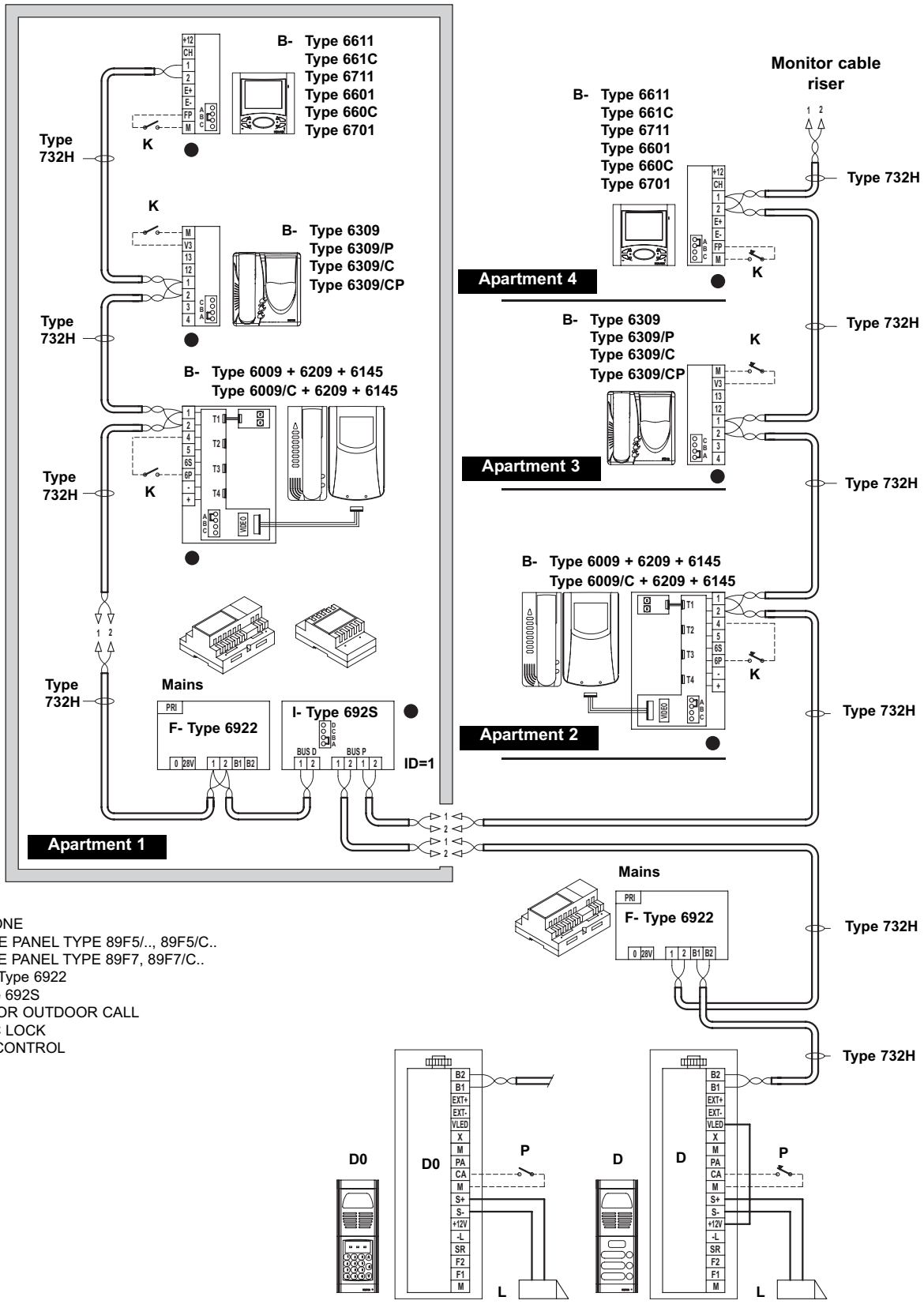
This note applies to all devices with ELVOX TWO-WIRE technology equipped with the “BUS termination connector”, identified on the electronic card with the “ABC” marking and signalled on the wiring diagrams with a “*”.
To adjust the video signal insert the jumper on the strip socket connector. Follow next rule for the correct line adjustment:

- keep the jumper in position “A” if the BUS line “passes through” the device;
- keep the jumper in position “B” if the device is connected to a distributor type 692D, 692D/1 or 692D/2
- in the last device, move the jumper into position “B” in the following cases:
  - the “BUS” line “ends within” the same device (the last device in “pass through” configuration)
  - the video signal of the connected distributors type 692D/1 or 692D/2 is unsatisfactory.
- if the video signal adjustment is unsatisfactory with the jumper in position "B", try position "C".

“A” → NO TERMINATION
“B” → TERMINATION 100 Ohm
“C” → TERMINATION 50 Ohm

(*) On circuit boards bearing the “ABCD” marking instead of “ABC”, consider the following correspondences: A = AB; B = BC; C = CD.

MULTIPLE RESIDENCE VIDEO DOOR ENTRY SYSTEM WITH INTERCOM VIDEO DOOR ENTRY UNITS (REF. SI366)



B - VIDEO INTERPHONE
D - VIDEO ENTRANCE PANEL TYPE 89F5/.., 89F5/C..
D0 - VIDEO ENTRANCE PANEL TYPE 89F7, 89F7/C..
F - POWER SUPPLY Type 6922
I - SEPARATOR Type 692S
K - PUSH-BUTTON FOR OUTDOOR CALL
L - 12VDC ELECTRIC LOCK
P - LOCK RELEASE CONTROL

WIRING DIAGRAM:

Diagram for video door entry system (REF. SI380)
The following diagram can be applied for the following types of systems.

Necessary programming:

Building complex video door entry system.

- (Pgr01) association of the identification code (ID) of the separators.
  (see page 5.4)
- Position the video termination jumper of all the separators, except for the last one in the chain, on “A”. On the last separator, position the jumper on “B” or possibly on “C”.
- (Pgr06) assignment of the SLAVE panels. All the secondary panels and the main ones, except for one, must be programmed as SLAVE panels, one main panel as the MASTER (only one).
  (see page 5.8, 5.27)
- (Pgr08) in case of push-button (main) entrance panel with supplementary modules, hardware programming of the call buttons.
  (see page 5.8)
- (Pgr10) in case of (main) entrance panel with two rows of buttons, double button programming.
  (see page 5.11)
- (Pgr07) Without connecting the Master panel, program the ID of the SLAVE panels.
  (see page 5.8, 5.10, 5.27, 5.28)
- Connecting and switching on the MASTER panel.
- Position the video termination jumper according to the type of connection with or without video distributor.
- (Pgr01) association of the identification code (ID) of the video door entry units.
  (see page 5.51, 5.53, 5.58, 5.60)
- (Pgr02) association of the secondary identification code (ID) of the video door entry units in parallel with the 1st video door entry unit. Without Type 950C, it is possible to program only 3 video door entry units with the secondary ID for a total of 4 video door entry units in parallel.
  (see page 5.52, 5.53, 5.57, 5.58)
- **In this case, the power supply unit Type 6922 can power the entrance panel and two video door entry units on at the same time; to switch on multiple video door entry units simultaneously it is necessary to add supplementary power supply units Type 6923 or program the secondary video door entry units with “monitor on off with call from entrance panel” (Pgr48) via Type 950C.**
  (see page 5.21, 5.37)

BUS TERMINATION TABLE FOR ELVOX TWO-WIRE SYSTEMS

This note applies to all devices with ELVOX TWO-WIRE technology equipped with the “BUS termination connector”, identified on the electronic card with the “ABC” marking and signalled on the wiring diagrams with a “*”.
To adjust the video signal insert the jumper on the strip socket connector. Follow next rule for the correct line adjustment:

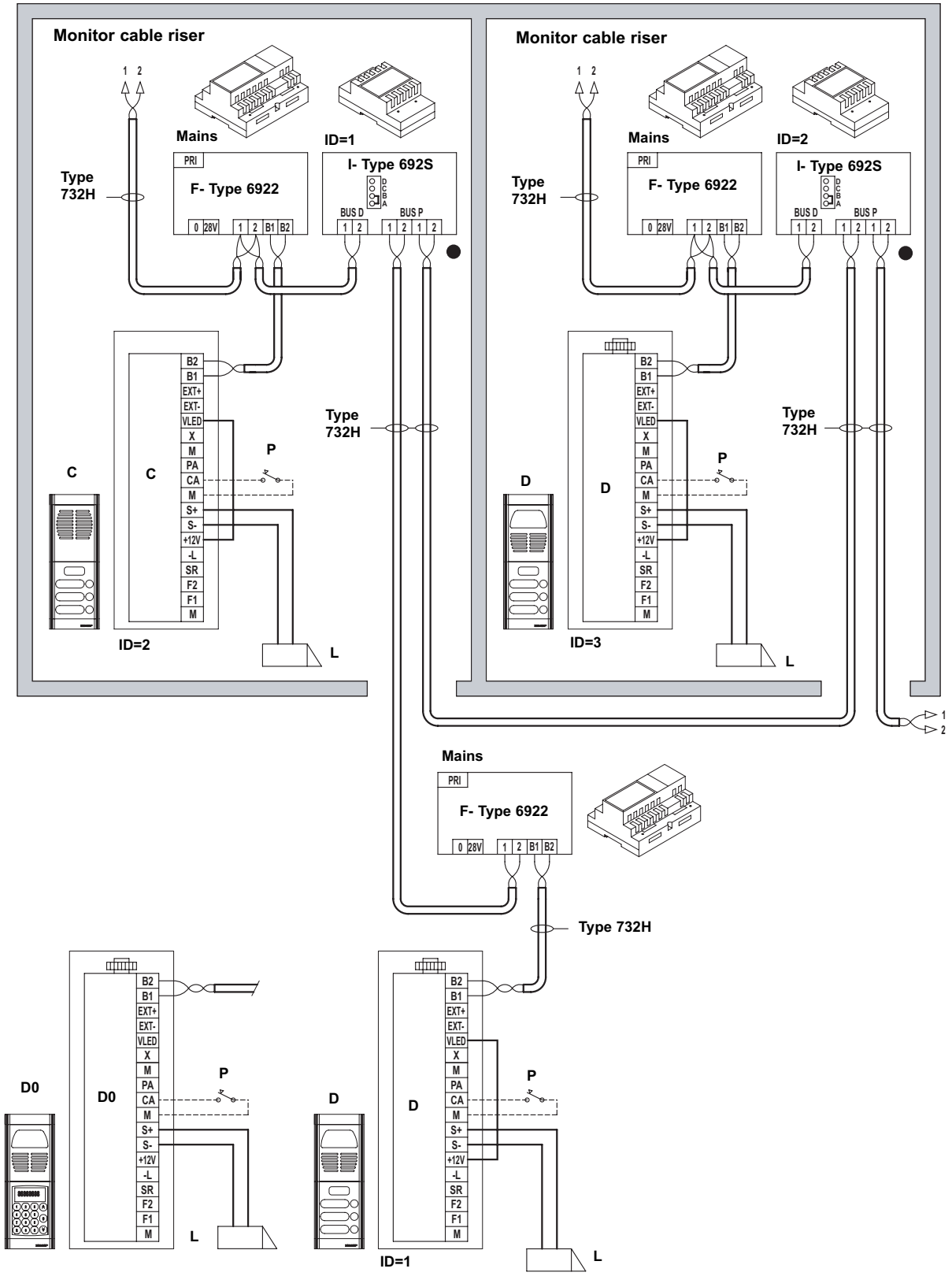
- keep the jumper in position “A” if the BUS line “passes through” the device;
- keep the jumper in position “B” if the device is connected to a distributor type 692D, 692D/1 or 692D/2
- in the last device, move the jumper into position “B” in the following cases:
  - the “BUS” line “ends within” the same device (the last device in “pass through” configuration)
  - the video signal of the connected distributors type 692D/1 or 692D/2 is unsatisfactory.
- if the video signal adjustment is unsatisfactory with the jumper in position "B", try position "C".

“A” → NO TERMINATION
“B” → TERMINATION 100 Ohm
“C” → TERMINATION 50 Ohm

(*) On circuit boards bearing the “ABCD” marking instead of “ABC”, consider the following correspondences: A = AB; B = BC; C = CD.

BUILDING COMPLEX VIDEO DOOR ENTRY SYSTEM (REF. SI380)

C - AUDIO ENTRANCE PANEL TYPE 89F3/.., 89F4.
D - VIDEO ENTRANCE PANEL TYPE 89F5/.., 89F5/C..
D0 - VIDEO ENTRANCE PANEL TYPE 89F7, 89F7/C..
F - POWER SUPPLY Type 6922
I - SEPARATOR Type 692S
L - 12VDC ELECTRIC LOCK
P - LOCK RELEASE CONTROL



WIRING DIAGRAM:

Diagram for video door entry system (REF. SI381)
The following diagram can be applied for the following types of systems.

Necessary programming:

Building complex video door entry system.

- (Pgr01) association of the identification code (ID) of the separators. (see page 5.4)
- Position the video termination jumper of all the separators, except for the last one in the chain, on “B” or possibly on “C”.
- (Pgr06) assignment of the SLAVE panels. All the secondary panels and the main ones, except for one, must be programmed as SLAVE panels, one main panel as the MASTER (only one). (see page 5.8, 5.27)
- (Pgr08) in case of push-button (main) entrance panel with supplementary modules, hardware programming of the call buttons. (see page 5.8)
- (Pgr10) in case of (main) entrance panel with two rows of buttons, double button programming. (see page 5.11)
- (Pgr07) Without connecting the Master panel, program the ID of the SLAVE panels. (see page 5.10, 5.28)
- Connecting and switching on the MASTER panel.
- Position the video termination jumper according to the type of connection with or without video distributor.
- (Pgr01) association of the identification code (ID) of the video door entry units. (see page 5.51, 5.53, 5.58, 5.60)
- (Pgr02) association of the secondary identification code (ID) of the video door entry units in parallel with the 1st video door entry unit. Without Type 950C, it is possible to program only 3 video door entry units with the secondary ID for a total of 4 video door entry units in parallel. (see page 5.52, 5.53, 5.57, 5.58)
- **In this case, the power supply unit Type 6922 can power the entrance panel and two video door entry units on at the same time; to switch on multiple video door entry units simultaneously it is necessary to add supplementary power supply units Type 6923 or program the secondary video door entry units with “monitor on off with call from entrance panel” (Pgr48) via Type 950C.** (see page 5.21, 5.37)

BUS TERMINATION TABLE FOR ELVOX TWO-WIRE SYSTEMS

This note applies to all devices with ELVOX TWO-WIRE technology equipped with the “BUS termination connector”, identified on the electronic card with the “ABC” marking and signalled on the wiring diagrams with a “*”.
To adjust the video signal insert the jumper on the strip socket connector. Follow next rule for the correct line adjustment:

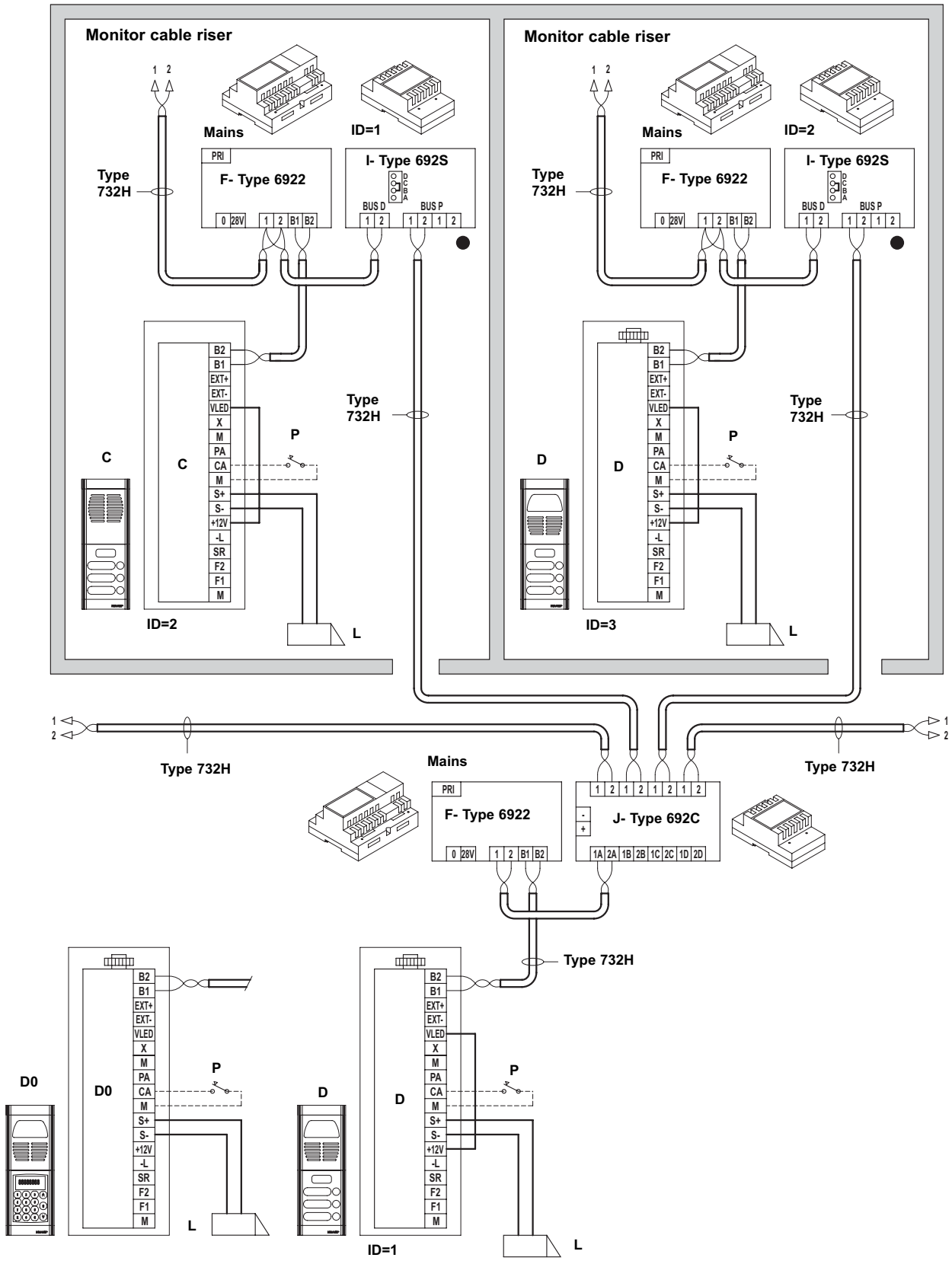
- keep the jumper in position “A” if the BUS line “passes through” the device;
- keep the jumper in position “B” if the device is connected to a distributor type 692D, 692D/1 or 692D/2
- in the last device, move the jumper into position “B” in the following cases:
  - the “BUS” line “ends within” the same device (the last device in “pass through” configuration)
  - the video signal of the connected distributors type 692D/1 or 692D/2 is unsatisfactory.
- if the video signal adjustment is unsatisfactory with the jumper in position "B", try position "C".

“A” → NO TERMINATION
“B” → TERMINATION 100 Ohm
“C” → TERMINATION 50 Ohm

(*) On circuit boards bearing the “ABCD” marking instead of “ABC”, consider the following correspondences: A = AB; B = BC; C = CD.

BUILDING COMPLEX VIDEO DOOR ENTRY SYSTEM (REF. SI381)

C - AUDIO ENTRANCE PANEL TYPE 89F3/.., 89F4.
D - VIDEO ENTRANCE PANEL TYPE 89F5/.., 89F5/C..
D0 - VIDEO ENTRANCE PANEL TYPE 89F7, 89F7/C..
F - POWER SUPPLY Type 6922
I - SEPARATOR Type 692S
J- CONCENTRATOR Type 692C
L - 12VDC ELECTRIC LOCK
P - LOCK RELEASE CONTROL



WIRING DIAGRAM:

Diagram for video door entry system (REF. SI382)
The following diagram can be applied for the following types of systems.

Necessary programming:

Building complex video door entry system with three main entrance panels and two secondary ones.

- (Pgr01) association of the identification code (ID) of the separators.
  (see page 5.4)
- Position the video termination jumper of all the separators, except for the last one in the chain, on “B” or possibly on “C”.
- (Pgr06) assignment of the SLAVE panels. All the secondary panels and the main ones, except for one, must be programmed as SLAVE panels, one main panel as the MASTER (only one).
  (see page 5.8, 5.27)
- (Pgr08) in case of push-button (main) entrance panel with supplementary modules, hardware programming of the call buttons.
  (see page 5.8)
- (Pgr10) in case of (main) entrance panel with two rows of buttons, double button programming.
  (see page 5.11)
- (Pgr07) Without connecting the Master panel, program the ID of the SLAVE panels.
  (see page 5.10, 5.28)
- Connecting and switching on the MASTER panel.
- Position the video termination jumper according to the type of connection with or without video distributor.
- (Pgr01) association of the identification code (ID) of the video door entry units.
  (see page 5.51, 5.53, 5.58, 5.60)
- (Pgr02) association of the secondary identification code (ID) of the video door entry units in parallel with the 1st video door entry unit. Without Type 950C, it is possible to program only 3 video door entry units with the secondary ID for a total of 4 video door entry units in parallel.
  (see page 5.52, 5.53, 5.57, 5.58)
- **In this case, the power supply unit Type 6922 can power the entrance panel and two video door entry units on at the same time; to switch on multiple video door entry units simultaneously it is necessary to add supplementary power supply units Type 6923 or program the secondary video door entry units with “monitor on off with call from entrance panel” (Pgr48) via Type 950C.**
  (see page 5.21, 5.37)

BUS TERMINATION TABLE FOR ELVOX TWO-WIRE SYSTEMS

This note applies to all devices with ELVOX TWO-WIRE technology equipped with the “BUS termination connector”, identified on the electronic card with the “ABC” marking and signalled on the wiring diagrams with a “*”.
To adjust the video signal insert the jumper on the strip socket connector.
Follow next rule for the correct line adjustment:

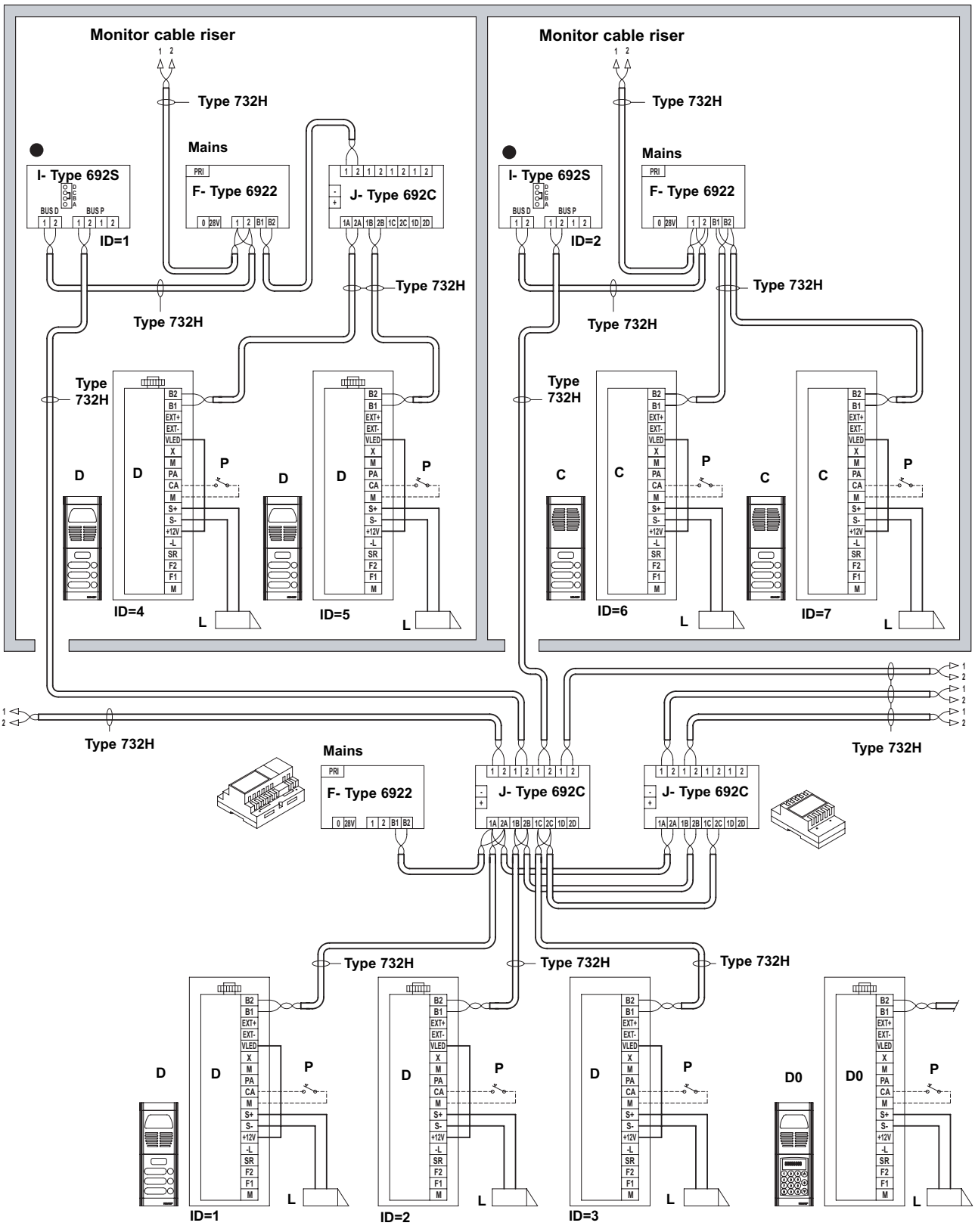
- keep the jumper in position “A” if the BUS line “passes through” the device;
- keep the jumper in position “B” if the device is connected to a distributor type 692D, 692D/1 or 692D/2
- in the last device, move the jumper into position “B” in the following cases:
  - the “BUS” line “ends within” the same device (the last device in “pass through” configuration)
  - the video signal of the connected distributors type 692D/1 or 692D/2 is unsatisfactory.
- if the video signal adjustment is unsatisfactory with the jumper in position "B", try position "C".

“A” → NO TERMINATION
“B” → TERMINATION 100 Ohm
“C” → TERMINATION 50 Ohm

(*) On circuit boards bearing the “ABCD” marking instead of “ABC”, consider the following correspondences: A = AB; B = BC; C = CD.

BUILDING COMPLEX VIDEO DOOR ENTRY SYSTEM WITH THREE MAIN ENTRANCE PANELS AND TWO SECONDARY ONES (REF. SI382)

C - AUDIO ENTRANCE PANEL TYPE 89F3/.., 89F4.
D - VIDEO ENTRANCE PANEL TYPE 89F5/.., 89F5/C..
D0 - VIDEO ENTRANCE PANEL TYPE 89F7, 89F7/C..
F - POWER SUPPLY Type 6922
I - SEPARATOR Type 692S
J- CONCENTRATOR Type 692C
L - 12VDC ELECTRIC LOCK
P - LOCK RELEASE CONTROL



WIRING DIAGRAM:

Diagram for video door entry system (REF. SI377)
The following diagram can be applied for the following types of systems.

Necessary programming:

Building complex video door entry system with single building circuits

- (Pgr01) association of the identification code (ID) of the separators.
  (see page 5.4)
- Position the video termination jumper of all the separators, except for the last one in the chain, on “B” or possibly on “C”.
- (Pgr06) assignment of the SLAVE panels. All the secondary panels and the main ones, except for one, must be programmed as SLAVE panels, one main panel as the MASTER (only one).
  (see page 5.8, 5.27)
- (Pgr08) in case of push-button (main) entrance panel with supplementary modules, hardware programming of the call buttons.
  (see page 5.8)
- (Pgr10) in case of (main) entrance panel with two rows of buttons, double button programming.
  (see page 5.11)
- (Pgr07) Without connecting the Master panel, program the ID of the SLAVE panels.
  (see page 5.10, 5.28)
- Connecting and switching on the MASTER panel.
- (Pgr01) association of the identification code (ID) of the video door entry units.
  (see page 5.51, 5.53, 5.58, 5.60)
- (Pgr02) association of the secondary identification code (ID) of the video door entry units in parallel with the 1st video door entry unit. Without Type 950C, it is possible to program only 3 video door entry units with the secondary ID for a total of 4 video door entry units in parallel.
  (see page 5.52, 5.53, 5.57, 5.58)
- **In this case, the power supply unit Type 6922 can power the entrance panel and two video door entry units on at the same time; to switch on multiple video door entry units simultaneously it is necessary to add supplementary power supply units Type 6923 or program the secondary video door entry units with “monitor on off with call from entrance panel” (Pgr48) via Type 950C.**
  (see page 5.21, 5.37)

BUS TERMINATION TABLE FOR ELVOX TWO-WIRE SYSTEMS

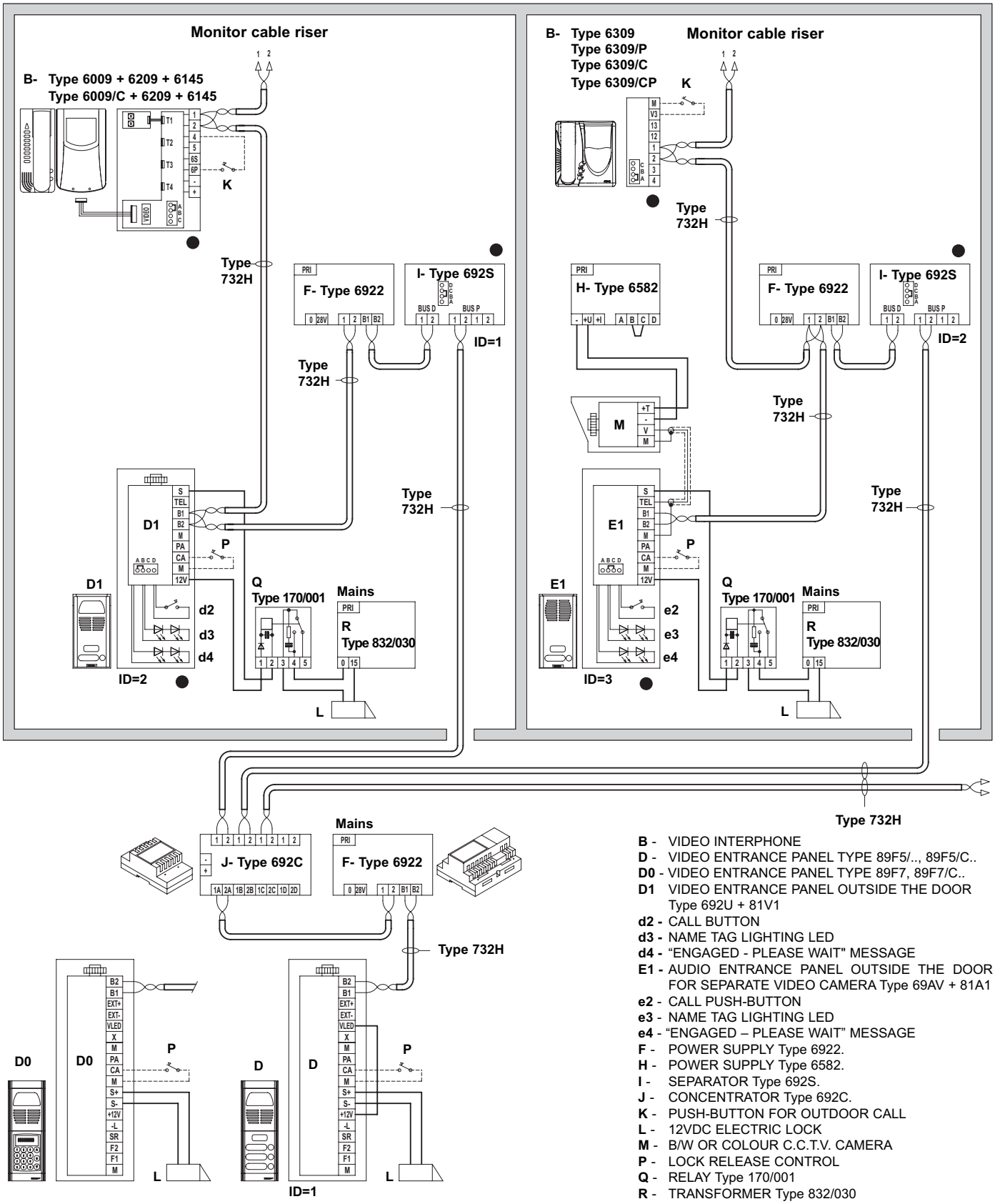
This note applies to all devices with ELVOX TWO-WIRE technology equipped with the “BUS termination connector”, identified on the electronic card with the “ABC” marking and signalled on the wiring diagrams with a “*”.
To adjust the video signal insert the jumper on the strip socket connector.
Follow next rule for the correct line adjustment:

- keep the jumper in position “A” if the BUS line “passes through” the device;
- keep the jumper in position “B” if the device is connected to a distributor type 692D, 692D/1 or 692D/2
- in the last device, move the jumper into position “B” in the following cases:
  - the “BUS” line “ends within” the same device (the last device in “pass through” configuration)
  - the video signal of the connected distributors type 692D/1 or 692D/2 is unsatisfactory.
- if the video signal adjustment is unsatisfactory with the jumper in position "B", try position "C".

“A” → NO TERMINATION
“B” → TERMINATION 100 Ohm
“C” → TERMINATION 50 Ohm

(*) On circuit boards bearing the “ABCD” marking instead of “ABC”, consider the following correspondences: A = AB; B = BC; C = CD.

BUILDING COMPLEX VIDEO DOOR ENTRY SYSTEM WITH SINGLE BUILDING CIRCUITS (REF. SI377)



B - VIDEO INTERPHONE
D - VIDEO ENTRANCE PANEL TYPE 89F5/.., 89F5/C..
D0 - VIDEO ENTRANCE PANEL TYPE 89F7, 89F7/C..
D1 VIDEO ENTRANCE PANEL OUTSIDE THE DOOR Type 692U + 81V1
d2 - CALL BUTTON
d3 - NAME TAG LIGHTING LED
d4 - "ENGAGED - PLEASE WAIT" MESSAGE
E1 - AUDIO ENTRANCE PANEL OUTSIDE THE DOOR FOR SEPARATE VIDEO CAMERA Type 69AV + 81A1
e2 - CALL PUSH-BUTTON
e3 - NAME TAG LIGHTING LED
e4 - "ENGAGED – PLEASE WAIT" MESSAGE
F - POWER SUPPLY Type 6922.
H - POWER SUPPLY Type 6582.
I - SEPARATOR Type 692S.
J - CONCENTRATOR Type 692C.
K - PUSH-BUTTON FOR OUTDOOR CALL
L - 12VDC ELECTRIC LOCK
M - B/W OR COLOUR C.C.T.V. CAMERA
P - LOCK RELEASE CONTROL
Q - RELAY Type 170/001
R - TRANSFORMER Type 832/030

WIRING DIAGRAM:

Diagram for video door entry system (REF. SI379)
The following diagram can be applied for the following types of systems.

Necessary programming:

Building complex video door entry system with single building circuits

- (Pgr01) association of the identification code (ID) of the separators. (see page 5.4)
- Position the video termination jumper of all the separators on “B” or possibly on “C”.
- (Pgr06) assignment of the SLAVE panels. All the secondary panels and the main panels, except for one, must be programmed as SLAVE panels, with one main panel as the MASTER (only one). (see page 5.8, 5.27)
- (Pgr08) in case of push-button (main) entrance panel with supplementary modules, hardware programming of the call buttons. (see page 5.8)
- (Pgr10) in case of (main) entrance panel with two rows of buttons, double button programming. (see page 5.11)
- (Pgr07) Without connecting the Master panel, program the ID of the SLAVE panels. (see page 5.10, 5.28)
- Connecting and switching on the MASTER panel.
- Position the video termination jumper of all the video door entry units on “B” or alternatively on “C”.
- (Pgr01) association of the identification code (ID) of the video door entry units. (see page 5.51, 5.53, 5.58, 5.60)
- (Pgr02) association of the secondary identification code (ID) of the video door entry units in parallel with the 1st video door entry unit. Without Type 950C, it is possible to program only 3 video door entry units with the secondary ID for a total of 4 video door entry units in parallel. (see page 5.52, 5.53, 5.57, 5.58)
- **In this case, the power supply unit Type 6922 can power the entrance panel and two video door entry units on at the same time; to switch on multiple video door entry units simultaneously it is necessary to add supplementary power supply units Type 6923 or program the secondary video door entry units with “monitor on off with call from entrance panel” (Pgr48) via Type 950C.** (see page 5.21, 5.37)

BUS TERMINATION TABLE FOR ELVOX TWO-WIRE SYSTEMS

This note applies to all devices with ELVOX TWO-WIRE technology equipped with the “BUS termination connector”, identified on the electronic card with the “ABC” marking and signalled on the wiring diagrams with a “*”.
To adjust the video signal insert the jumper on the strip socket connector. Follow next rule for the correct line adjustment:

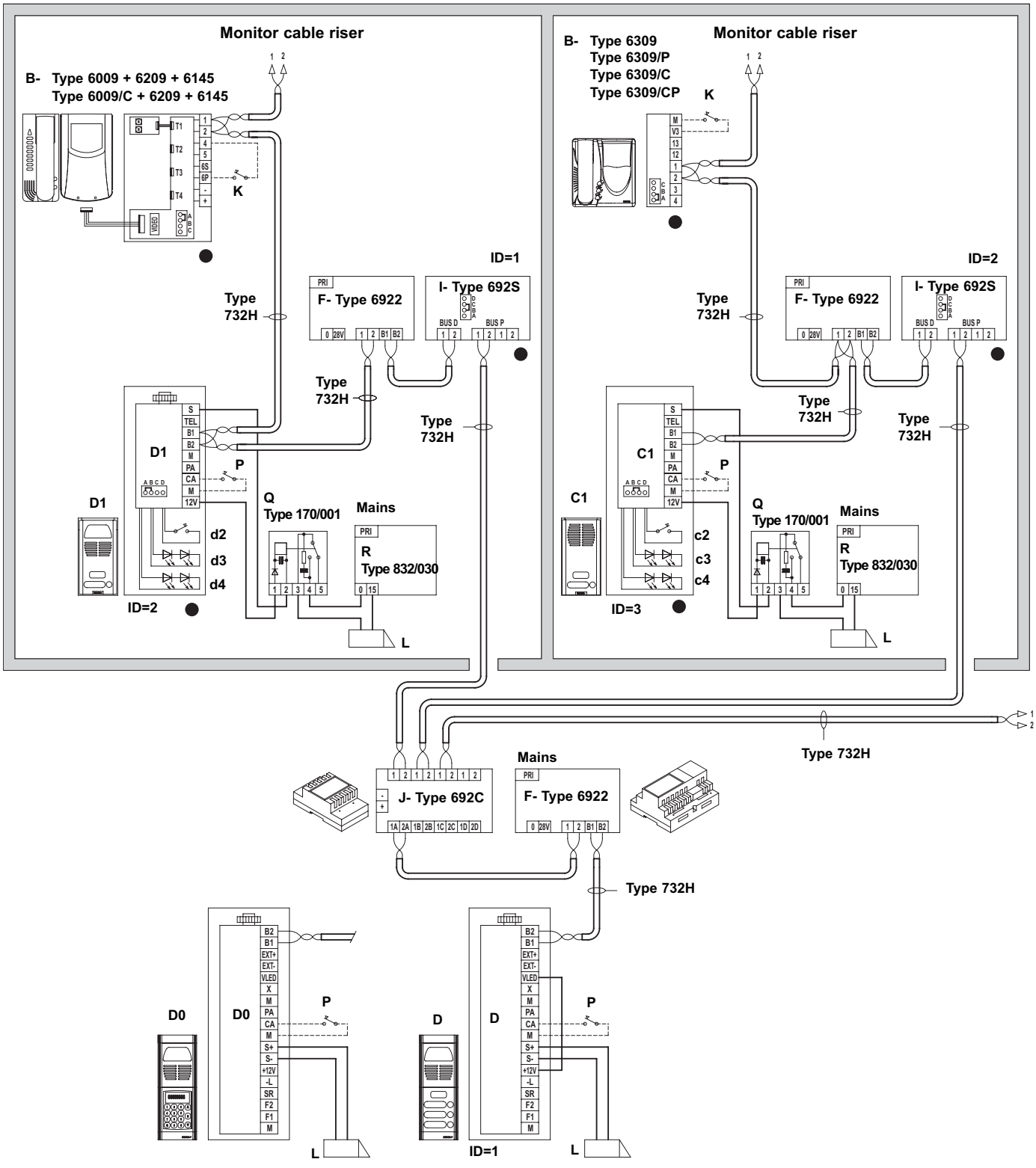
- keep the jumper in position “A” if the BUS line “passes through” the device;
- keep the jumper in position “B” if the device is connected to a distributor type 692D, 692D/1 or 692D/2
- in the last device, move the jumper into position “B” in the following cases:
  - the “BUS” line “ends within” the same device (the last device in “pass through” configuration)
  - the video signal of the connected distributors type 692D/1 or 692D/2 is unsatisfactory.
- if the video signal adjustment is unsatisfactory with the jumper in position "B", try position "C".

“A” → NO TERMINATION
“B” → TERMINATION 100 Ohm
“C” → TERMINATION 50 Ohm

(*) On circuit boards bearing the “ABCD” marking instead of “ABC”, consider the following correspondences: A = AB; B = BC; C = CD.

BUILDING COMPLEX VIDEO DOOR ENTRY SYSTEM WITH SINGLE BUILDING CIRCUITS (REF. SI379)

B - VIDEO INTERPHONE
C1 - AUDIO ENTRANCE PANEL OUTSIDE THE DOOR Type 69AU + 81A1
c2 - CALL BUTTON
c3 - NAME TAG LIGHTING LED
c4 - "ENGAGED - PLEASE WAIT" MESSAGE
D - VIDEO ENTRANCE PANEL TYPE 89F5/.., 89F5/C..
D0 - VIDEO ENTRANCE PANEL TYPE 89F7, 89F7/C..
D1 VIDEO ENTRANCE PANEL OUTSIDE THE DOOR Type 692U + 81V1
d2 - CALL BUTTON
d3 - NAME TAG LIGHTING LED
d4 - "ENGAGED - PLEASE WAIT" MESSAGE
F - POWER SUPPLY Type 6922.
I - SEPARATOR Type 692S.
J - CONCENTRATOR Type 692C.
K - PUSH-BUTTON FOR OUTDOOR CALL
L - 12VDC ELECTRIC LOCK
P - LOCK RELEASE CONTROL
Q - RELAY Type 170/001
R - TRANSFORMER Type 832/030



WIRING DIAGRAM:

Diagram for video door entry system (REF. SI383)
The following diagram can be applied for the following types of systems.

Necessary programming:

Single residence system with one entrance panel and one video door entry unit.

- Position the video termination jumper, of the only video door entry unit, on "B" or possibly on "C".
- (Pgr06) assignment of the SLAVE panels. All the entrance panels, except for one, must be programmed as SLAVE panels, the remaining one as the MASTER panel (only one). The interface Type 69AV/M is to be considered as a SLAVE panel.
  (see page 5.8, 5.27)
- (Pgr07) Without connecting the Master panel, program the ID of the SLAVE panels.
  (see page 5.10, 5.28)
- Connecting and switching on the MASTER panel.
- (Pgr01) association of the identification code (ID) of the video door entry units.
  (see page 5.51, 5.53, 5.58, 5.60)

Multiple residence system with one entrance panel and one video door entry unit for each flat (apartment).

- (Pgr06) assignment of the SLAVE panels. All the entrance panels, except for one, must be programmed as SLAVE panels, the remaining one as the MASTER panel (only one). The interface Type 69AV/M is to be considered as a SLAVE panel.
  (see page 5.8, 5.27)
- (Pgr07) Without connecting the Master panel, program the ID of the SLAVE panels.
  (see page 5.10, 5.28)
- Connecting and switching on the MASTER panel.
- (Pgr08) in case of push-button (main) entrance panel with supplementary modules, hardware programming of the call buttons.
  (see page 5.8)
- (Pgr10) in case of (main) entrance panel with two rows of buttons, double button programming.
  (see page 5.11)
- Position the video termination jumper of all the video door entry units, except for the last one in the chain, on "A". On the last video door entry unit, position the jumper on "B" or possibly on "C".
- (Pgr01) association of the identification code (ID) of the video door entry units.
  (see page 5.51, 5.53, 5.58, 5.60)

BUS TERMINATION TABLE FOR ELVOX TWO-WIRE SYSTEMS

This note applies to all devices with ELVOX TWO-WIRE technology equipped with the "BUS termination connector", identified on the electronic card with the "ABC" marking and signalled on the wiring diagrams with a "*".
To adjust the video signal insert the jumper on the strip socket connector. Follow next rule for the correct line adjustment:

- keep the jumper in position "A" if the BUS line "passes through" the device;
- keep the jumper in position "B" if the device is connected to a distributor type 692D, 692D/1 or 692D/2
- in the last device, move the jumper into position "B" in the following cases:
  - the "BUS" line "ends within" the same device (the last device in "pass through" configuration)
  - the video signal of the connected distributors type 692D/1 or 692D/2 is unsatisfactory.
- if the video signal adjustment is unsatisfactory with the jumper in position "B", try position "C".

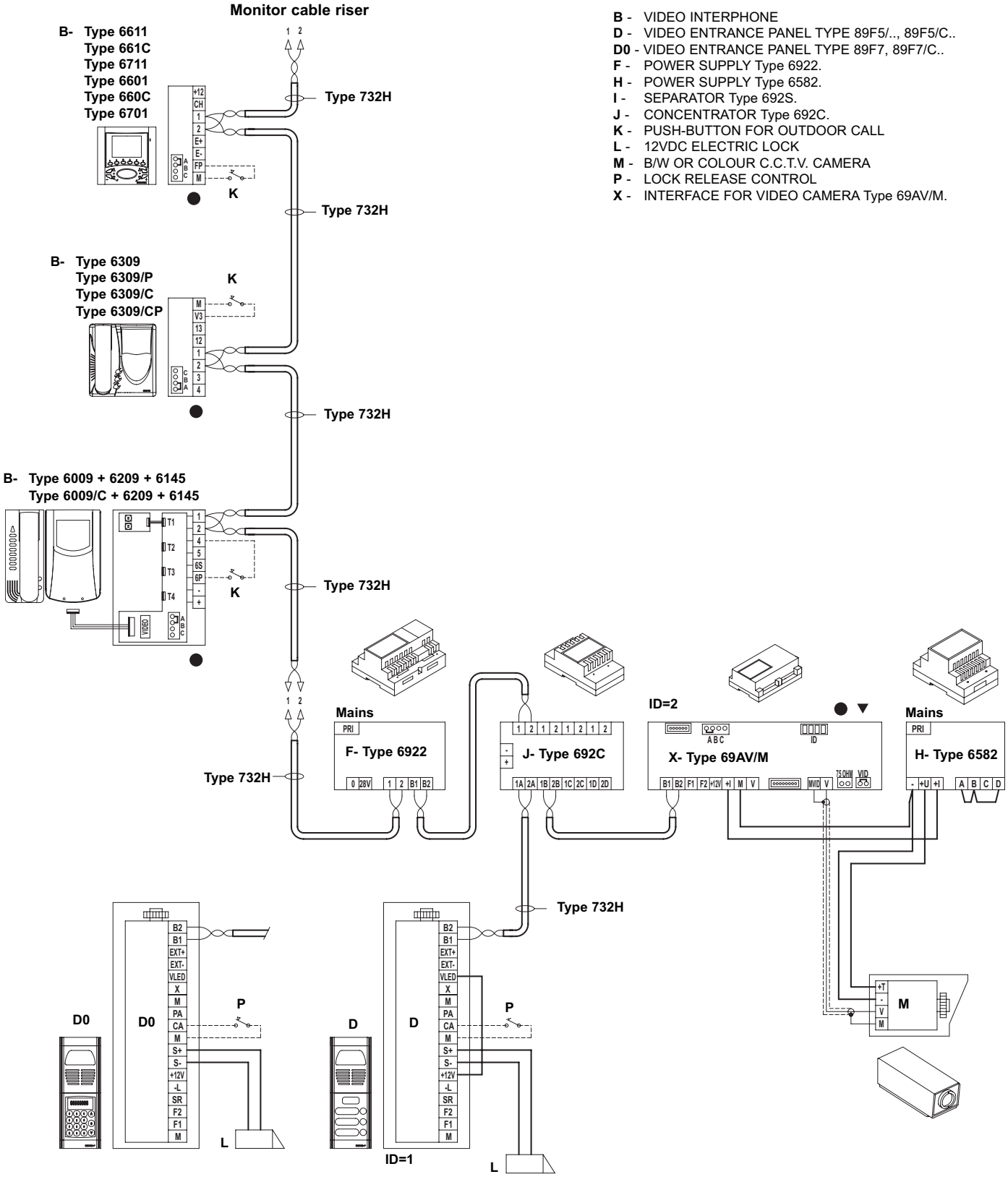
"A" → NO TERMINATION
"B" → TERMINATION 100 Ohm
"C" → TERMINATION 50 Ohm

(*) On circuit boards bearing the "ABCD" marking instead of "ABC", consider the following correspondences: A = AB; B = BC; C = CD.

NOTE: for 69AV/M

On device Type 69AV/M, insert the jumper on the connector called 75 Ohm if a colour CCTV video camera is connected.

VIDEO DOOR ENTRY SYSTEM WITH ONE VIDEO ENTRANCE PANEL AND ONE SUPPLEMENTARY EXTERNAL VIDEO CAMERA (REF. SI383)



B - VIDEO INTERPHONE
D - VIDEO ENTRANCE PANEL TYPE 89F5/.., 89F5/C..
D0 - VIDEO ENTRANCE PANEL TYPE 89F7, 89F7/C..
F - POWER SUPPLY Type 6922.
H - POWER SUPPLY Type 6582.
I - SEPARATOR Type 692S.
J - CONCENTRATOR Type 692C.
K - PUSH-BUTTON FOR OUTDOOR CALL
L - 12VDC ELECTRIC LOCK
M - B/W OR COLOUR C.C.T.V. CAMERA
P - LOCK RELEASE CONTROL
X - INTERFACE FOR VIDEO CAMERA Type 69AV/M.

WIRING DIAGRAM:

Diagram for video door entry system (REF. SI384)
The following diagram can be applied for the following types of systems.

Necessary programming:

Single residence system with one entrance panel and one video door entry unit.

- Position the video termination jumper, of the only video door entry unit, on "B" or possibly on "C".
- (Pgr06) assignment of the SLAVE panels. All the entrance panels, except for one, must be programmed as SLAVE panels, the remaining one as the MASTER panel (only one). The interface Type 69AV/M is to be considered as a SLAVE panel.
  (see page 5.8, 5.27)
- (Pgr07) Without connecting the Master panel, program the ID of the SLAVE panels.
  (see page 5.10, 5.28)
- Connecting and switching on the MASTER panel.
- (Pgr01) association of the identification code (ID) of the video door entry units.
  (see page 5.51, 5.53, 5.58, 5.60)

Multiple residence system with one entrance panel and one video door entry unit for each flat (apartment).

- (Pgr06) assignment of the SLAVE panels. All the entrance panels, except for one, must be programmed as SLAVE panels, the remaining one as the MASTER panel (only one). The interface Type 69AV/M is to be considered as a SLAVE panel.
  (see page 5.8, 5.27)
- (Pgr07) Without connecting the Master panel, program the ID of the SLAVE panels.
  (see page 5.10, 5.28)
- Connecting and switching on the MASTER panel.
- (Pgr08) in case of push-button (main) entrance panel with supplementary modules, hardware programming of the call buttons.
  (see page 5.8)
- (Pgr10) in case of (main) entrance panel with two rows of buttons, double button programming.
  (see page 5.11)
- Position the video termination jumper of all the video door entry units, except for the last one in the chain, on "A". On the last video door entry unit, position the jumper on "B" or possibly on "C".
- (Pgr01) association of the identification code (ID) of the video door entry units.
  (see page 5.51, 5.53, 5.58, 5.60)

BUS TERMINATION TABLE FOR ELVOX TWO-WIRE SYSTEMS

This note applies to all devices with ELVOX TWO-WIRE technology equipped with the "BUS termination connector", identified on the electronic card with the "ABC" marking and signalled on the wiring diagrams with a "*".
To adjust the video signal insert the jumper on the strip socket connector. Follow next rule for the correct line adjustment:

- keep the jumper in position "A" if the BUS line "passes through" the device;
- keep the jumper in position "B" if the device is connected to a distributor type 692D, 692D/1 or 692D/2
- in the last device, move the jumper into position "B" in the following cases:
  - the "BUS" line "ends within" the same device (the last device in "pass through" configuration)
  - the video signal of the connected distributors type 692D/1 or 692D/2 is unsatisfactory.
- if the video signal adjustment is unsatisfactory with the jumper in position "B", try position "C".

"A" → NO TERMINATION
"B" → TERMINATION 100 Ohm
"C" → TERMINATION 50 Ohm

(*) On circuit boards bearing the "ABCD" marking instead of "ABC", consider the following correspondences: A = AB; B = BC; C = CD.

NOTE: For 69AV/M

On device Type 69AV/M, insert the jumper on the connector called 75 Ohm if a colour CCTV video camera is connected.

VIDEO DOOR ENTRY SYSTEM WITH ONE VIDEO ENTRANCE PANEL AND 4 SUPPLEMENTARY EXTERNAL VIDEO CAMERAS (REF. SI384)

D - VIDEO ENTRANCE PANEL TYPE 89F5/.., 89F5/C..
D0 - VIDEO ENTRANCE PANEL TYPE 89F7, 89F7/C..
F - POWER SUPPLY Type 6922
H - POWER SUPPLY Type 6582
J - CONCENTRATOR Type 692C
L - 12VDC ELECTRIC LOCK
M - B/W OR COLOUR C.C.T.V. CAMERA
P - LOCK RELEASE CONTROL
X - INTERFACE FOR VIDEO CAMERA Type 69AV/M
X1 - SELECTOR FOR 4 VIDEO CAMERAS Type 69AV/4

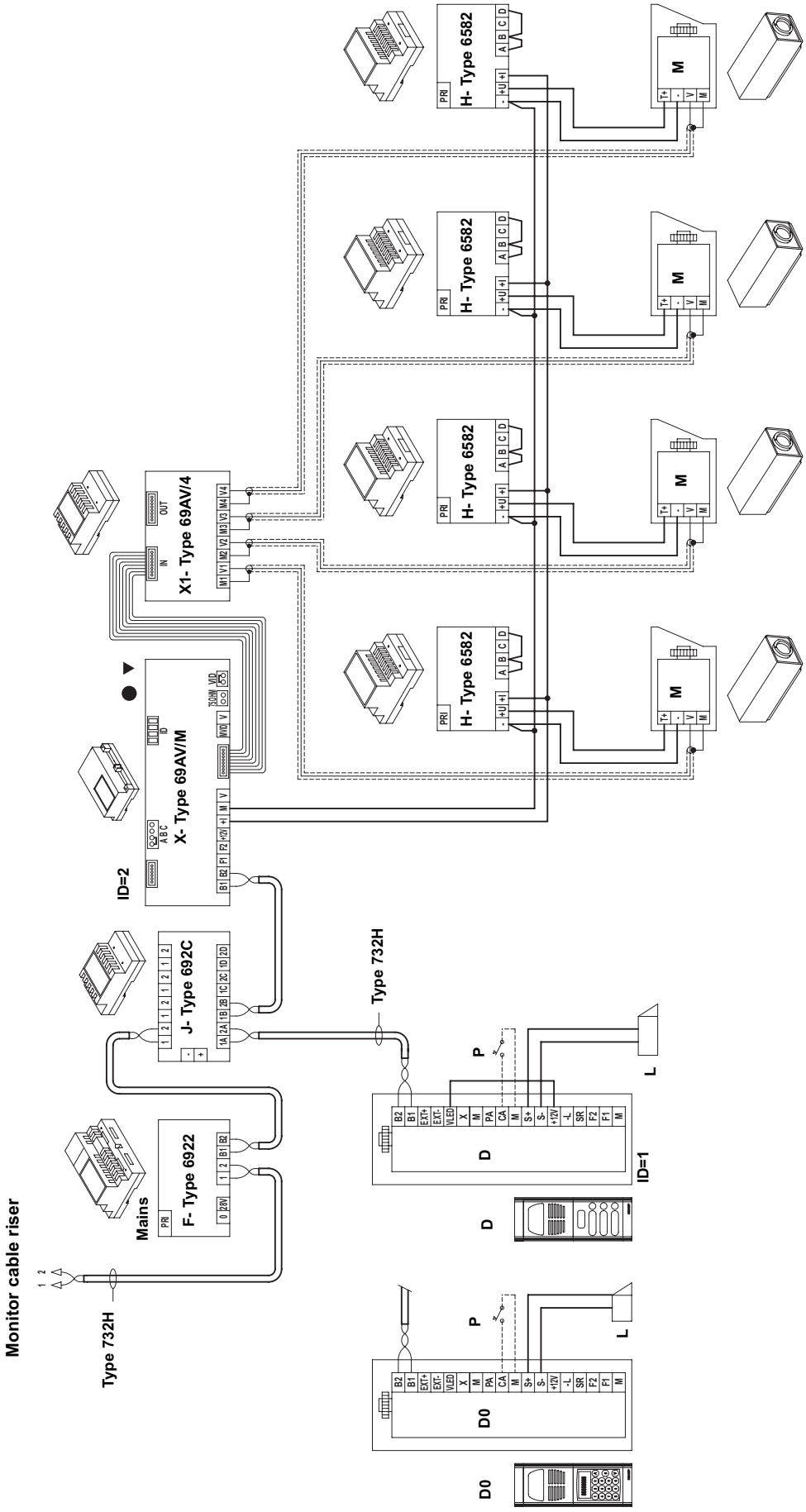


Diagram for video door entry system (REF. SI385)
The following diagram can be applied for the following types of systems.

Necessary programming:

Single residence system with one entrance panel and one video door entry unit.

- Position the video termination jumper, of the only video door entry unit, on "B" or possibly on "C".
- (Pgr06) assignment of the SLAVE panels. All the entrance panels, except for one, must be programmed as SLAVE panels, the remaining one as the MASTER panel (only one). The interface Type 69AV/M is to be considered as a SLAVE panel.
  (see page 5.8, 5.27)
- (Pgr07) Without connecting the Master panel, program the ID of the SLAVE panels.
  (see page 5.10, 5.28)
- Connecting and switching on the MASTER panel.
- (Pgr01) association of the identification code (ID) of the video door entry units.
  (see page 5.51, 5.53, 5.58, 5.60)

Multiple residence system with one entrance panel and one video door entry unit for each flat (apartment).

- (Pgr06) assignment of the SLAVE panels. All the entrance panels, except for one, must be programmed as SLAVE panels, the remaining one as the MASTER panel (only one). The interface Type 69AV/M is to be considered as a SLAVE panel.
  (see page 5.8, 5.27)
- (Pgr07) Without connecting the Master panel, program the ID of the SLAVE panels.
  (see page 5.10, 5.28)
- Connecting and switching on the MASTER panel.
- (Pgr08) in case of push-button (main) entrance panel with supplementary modules, hardware programming of the call buttons.
  (see page 5.8)
- (Pgr10) in case of (main) entrance panel with two rows of buttons, double button programming.
  (see page 5.11)
- Position the video termination jumper of all the video door entry units, except for the last one in the chain, on "A". On the last video door entry unit, position the jumper on "B" or possibly on "C".
- (Pgr01) association of the identification code (ID) of the video door entry units.
  (see page 5.51, 5.53, 5.58, 5.60)

BUS TERMINATION TABLE FOR ELVOX TWO-WIRE SYSTEMS

This note applies to all devices with ELVOX TWO-WIRE technology equipped with the "BUS termination connector", identified on the electronic card with the "ABC" marking and signalled on the wiring diagrams with a "*".
To adjust the video signal insert the jumper on the strip socket connector.
Follow next rule for the correct line adjustment:

- keep the jumper in position "A" if the BUS line "passes through" the device;
- keep the jumper in position "B" if the device is connected to a distributor type 692D, 692D/1 or 692D/2
- in the last device, move the jumper into position "B" in the following cases:
  - the "BUS" line "ends within" the same device (the last device in "pass through" configuration)
  - the video signal of the connected distributors type 692D/1 or 692D/2 is unsatisfactory.
- if the video signal adjustment is unsatisfactory with the jumper in position "B", try position "C".

"A" → NO TERMINATION
"B" → TERMINATION 100 Ohm
"C" → TERMINATION 50 Ohm

(*) On circuit boards bearing the "ABCD" marking instead of "ABC", consider the following correspondences: A = AB; B = BC; C = CD.

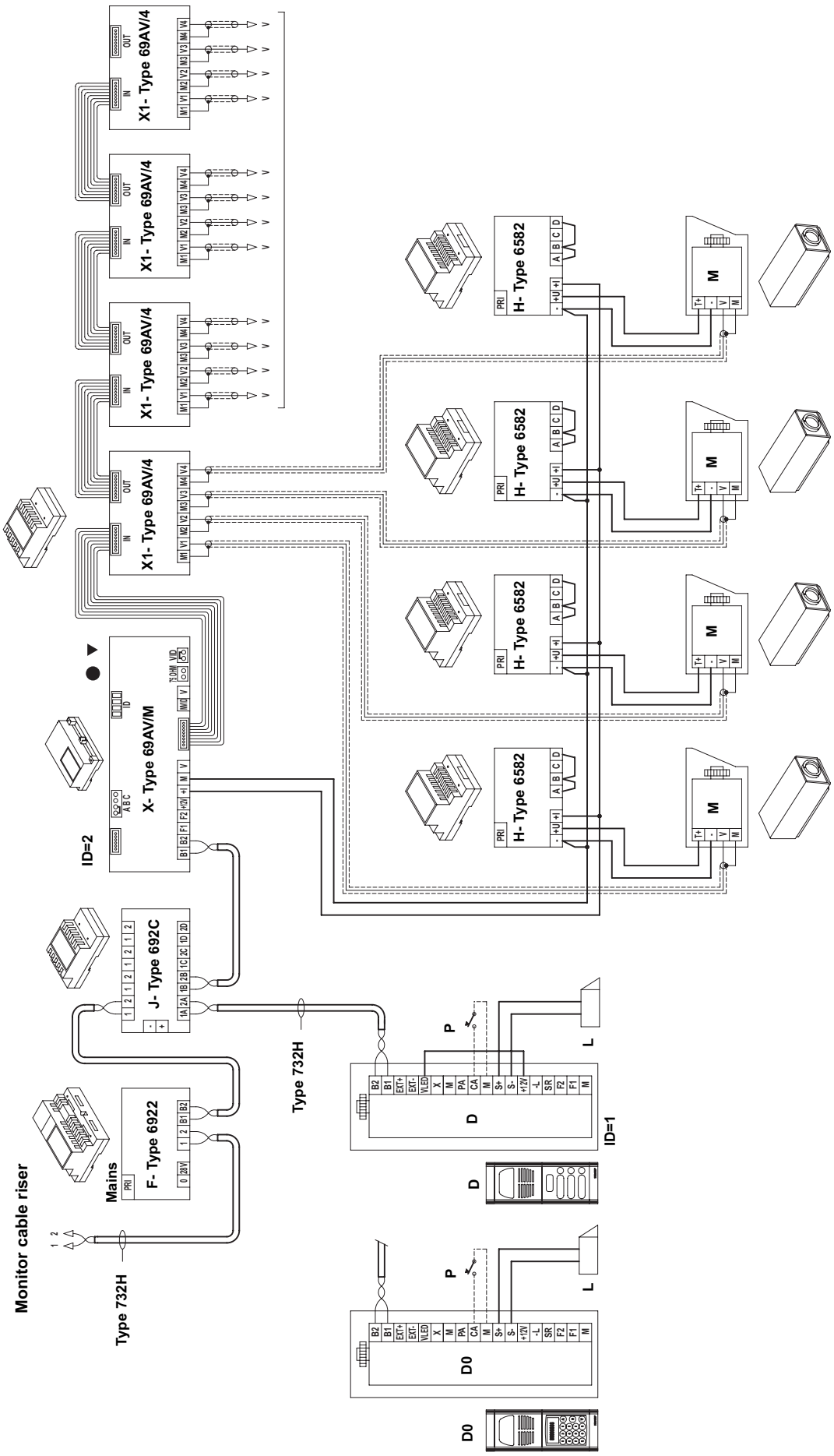
N.B. For 69AV/M

On device Type 69AV/M, insert the jumper on the connector called 75 Ohm if a colour CCTV video camera is connected.

WIRING DIAGRAM:

VIDEO DOOR ENTRY SYSTEM WITH ONE VIDEO ENTRANCE PANEL AND MULTIPLE SUPPLEMENTARY EXTERNAL VIDEO CAMERAS (REF. SI385)

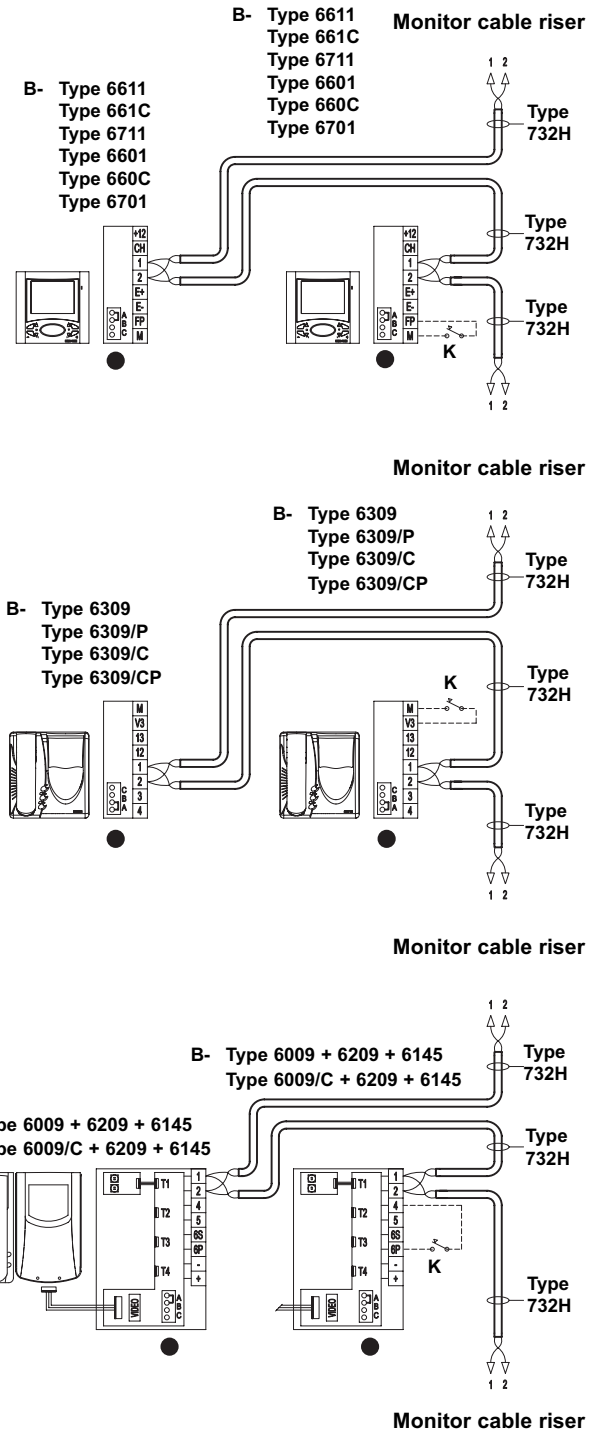
D - VIDEO ENTRANCE PANEL TYPE 89F5/.., 89F5/C..
D0 - VIDEO ENTRANCE PANEL TYPE 89F7, 89F7/C..
F - POWER SUPPLY Type 6922.
H - POWER SUPPLY Type 6582.
J - CONCENTRATOR Type 692C.
L - 12VDC ELECTRIC LOCK
M - B/W OR COLOUR C.C.T.V. CAMERA
P - LOCK RELEASE CONTROL
X - INTERFACE FOR VIDEO CAMERA Type 69AV/M
X1 - SELECTOR FOR 4 VIDEO CAMERAS Type 69AV/4



WIRING DIAGRAM:

VARIANT

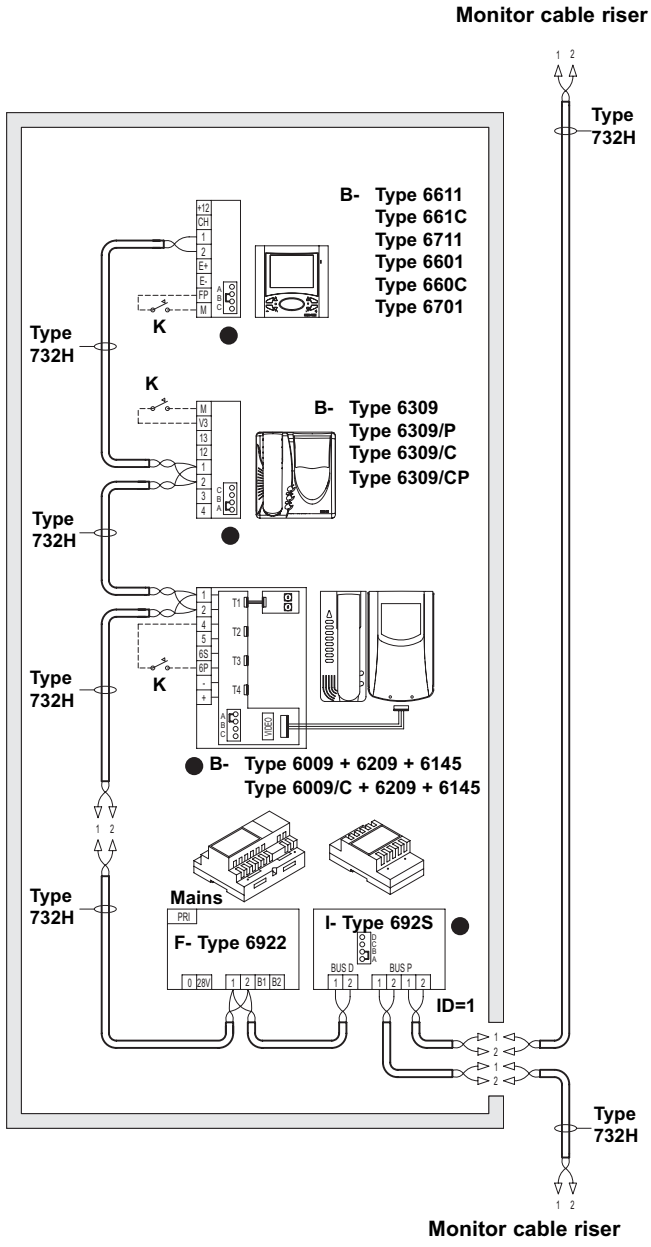
CONNECTION DIAGRAM OF TWO VIDEO DOOR ENTRY UNITS IN PARALLEL ON A SINGLE APARTMENT (REF. SI453)



B - VIDEO INTERPHONE
K - PUSH-BUTTON FOR OUTDOOR CALL

VARIANT

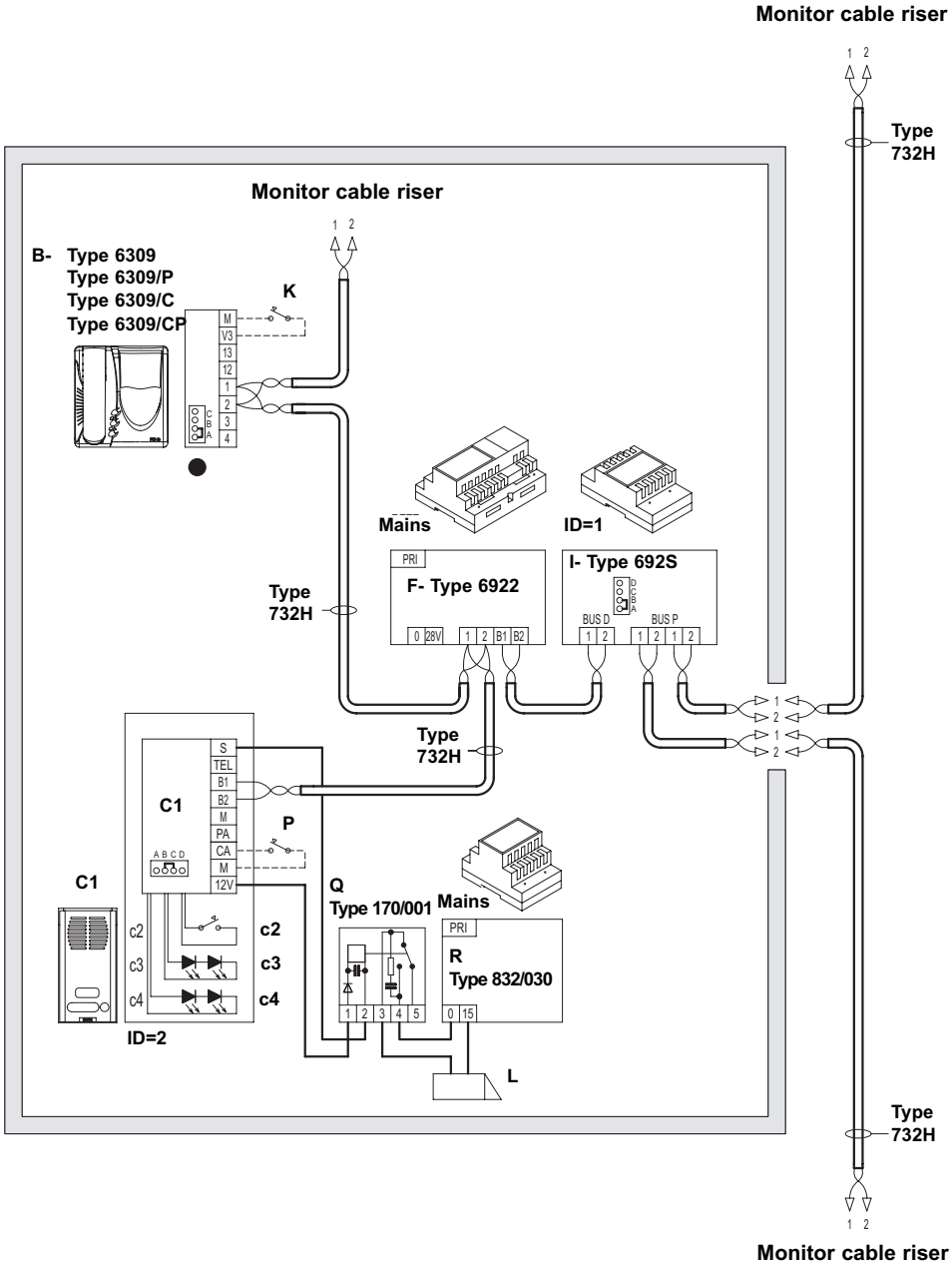
CONNECTION DIAGRAM OF AN INTERCOMMUNICATING VIDEO DOOR ENTRY UNIT ISLAND ON A SINGLE APARTMENT (REF. SI454)



B - VIDEO INTERPHONE
F - POWER SUPPLY Type 6922.
I - SEPARATOR Type 692S.
K - PUSH-BUTTON FOR OUTDOOR CALL

VARIANT

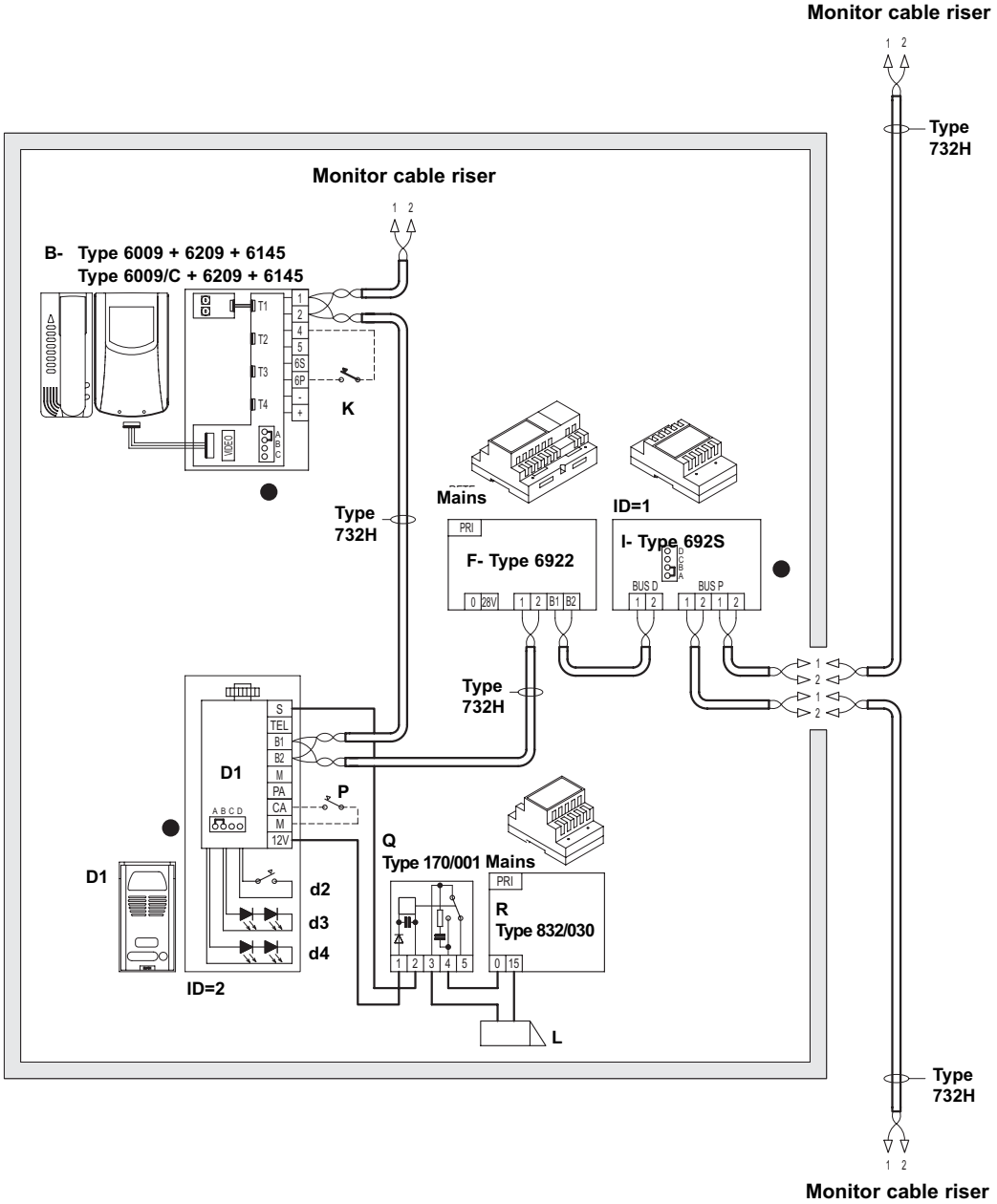
CONNECTION DIAGRAM OF AN APARTMENT WITH AUDIO ENTRANCE PANEL OUTSIDE THE DOOR IN A VIDEO DOOR ENTRY SYSTEM (REF. SI455)



B - VIDEO INTERPHONE
C1 - AUDIO ENTRANCE PANEL OUTSIDE THE DOOR Type 69AU + 81A1
c2 - CALL BUTTON
c3 - NAME TAG LIGHTING LED
c4 - "ENGAGED - PLEASE WAIT" MESSAGE
F - POWER SUPPLY Type 6922.
I - SEPARATOR Type 692S.
K - PUSH-BUTTON FOR OUTDOOR CALL
L - 12VDC ELECTRIC LOCK
P - LOCK RELEASE CONTROL
Q - RELAY Type 170/001.
R - TRANSFORMER Type 832/030.

VARIANT

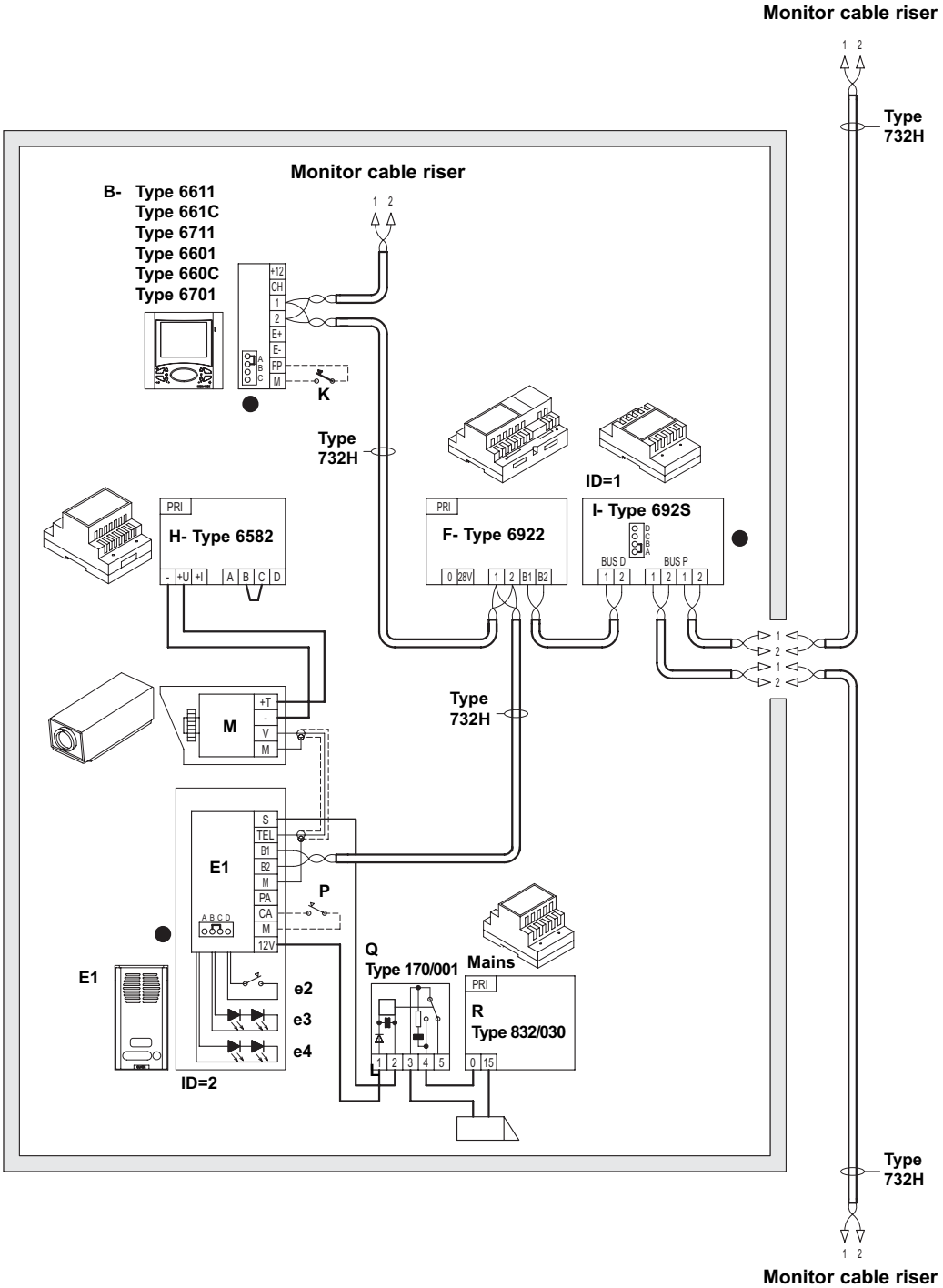
CONNECTION DIAGRAM OF AN APARTMENT WITH VIDEO ENTRANCE PANEL OUTSIDE THE DOOR IN A VIDEO DOOR ENTRY SYSTEM (REF. SI456)



D1 - VIDEO ENTRANCE PANEL OUTSIDE THE DOOR
Type 692U + 81V1
d2 - CALL BUTTON
d3 - NAME TAG LIGHTING LED
d4 - "ENGAGED PLEASE WAIT" MESSAGE
F - POWER SUPPLY Type 6922.
I - SEPARATOR Type 692S.
K - PUSH-BUTTON FOR OUTDOOR CALL
L - 12VDC ELECTRIC LOCK
P - LOCK RELEASE CONTROL
Q - RELAY Type 170/001.
R - TRANSFORMER Type 832/030.

VARIANT

CONNECTION DIAGRAM OF AN APARTMENT WITH AUDIO ENTRANCE PANEL OUTSIDE THE DOOR AND SEPARATE CCTV VIDEO CAMERA IN A VIDEO DOOR ENTRY SYSTEM (REF. SI457)



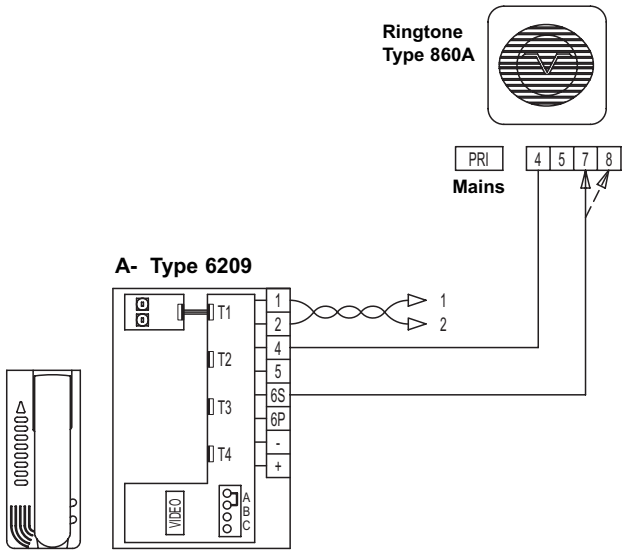
B - VIDEO INTERPHONE
E1 - AUDIO ENTRANCE PANEL OUTSIDE THE DOOR FOR SEPARATE VIDEO CAMERA Type 69AV + 81A1
e2 - CALL BUTTON
e3 - NAME TAG LIGHTING LED
e4 - "ENGAGED - PLEASE WAIT" MESSAGE
F - POWER SUPPLY Type 6922.
I - SEPARATOR Type 692S.
J - CONCENTRATOR Type 692C.
K - PUSH-BUTTON FOR OUTDOOR CALL
L - 12VDC ELECTRIC LOCK
M - B/W OR COLOUR C.C.T.V. CAMERA
P - LOCK RELEASE CONTROL
Q - RELAY Type 170/001.
R - TRANSFORMER Type 832/030.

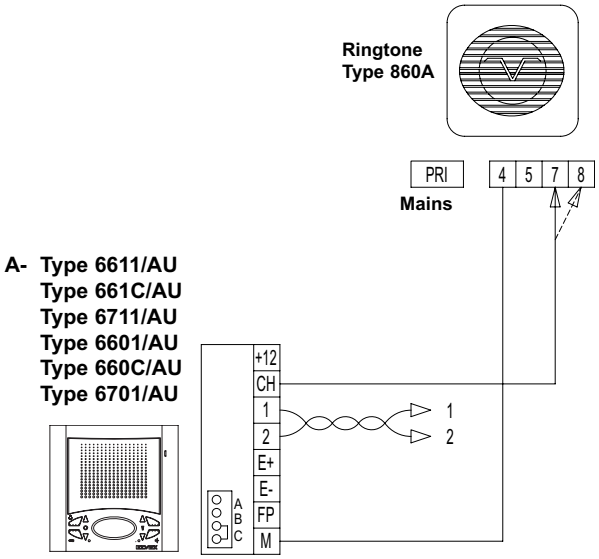
WIRING DIAGRAM:

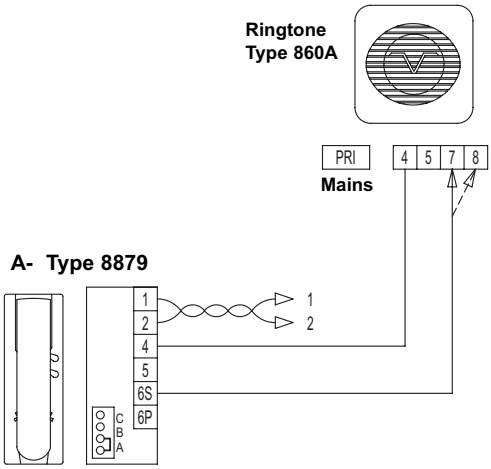
VARIANT

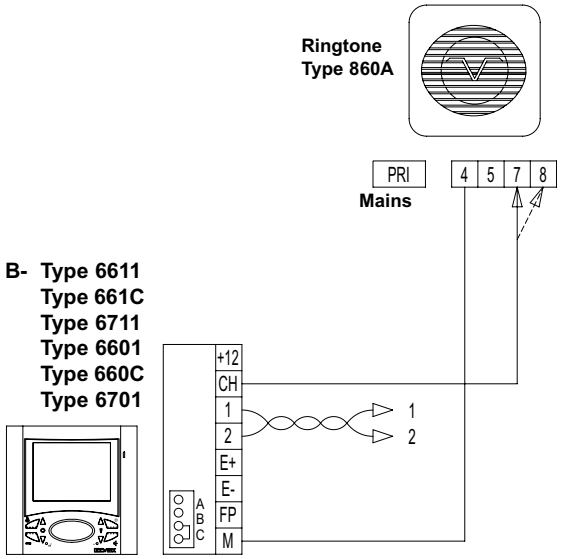
Wiring diagram of additional electronic ringtone type 860A.

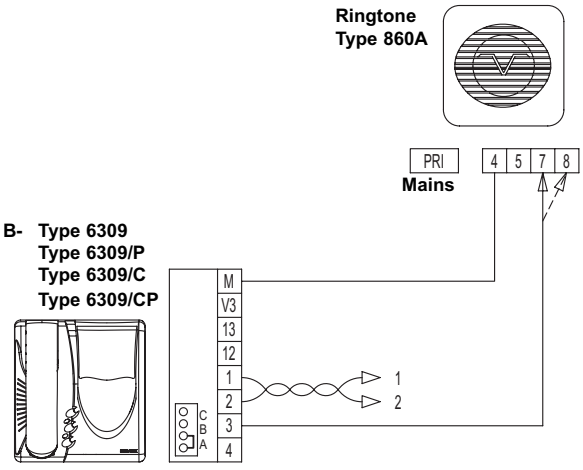
The electronic ringtone type 860A features a two or three-note ringtone connected between terminal 7 and terminal 8. The ringtone must be powered at mains voltage.







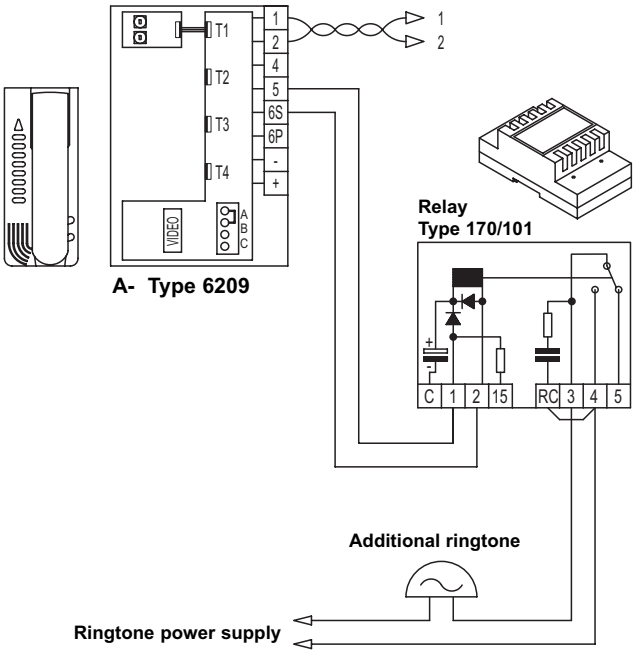




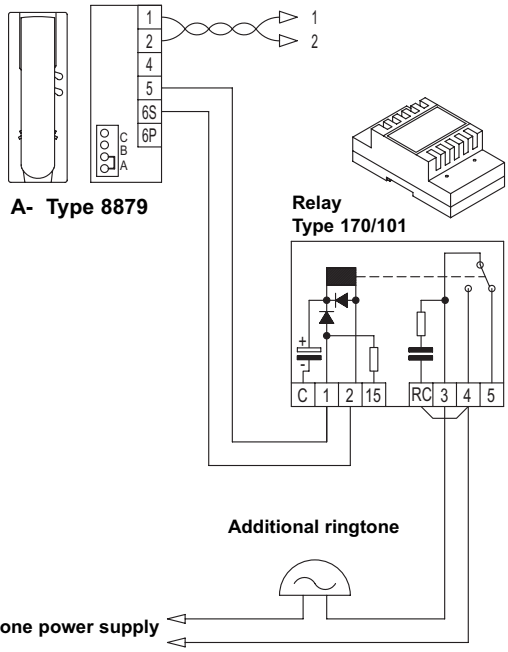
VARIANT

Wiring diagram for additional mechanical doorbells.

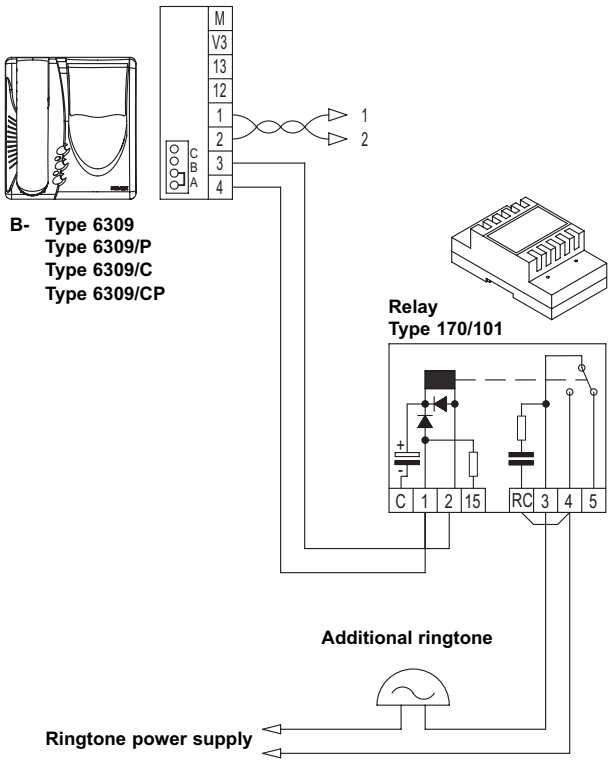
Additional doorbells operating at 12V can be connected by using relay type 170/101 connected as shown in the diagram.



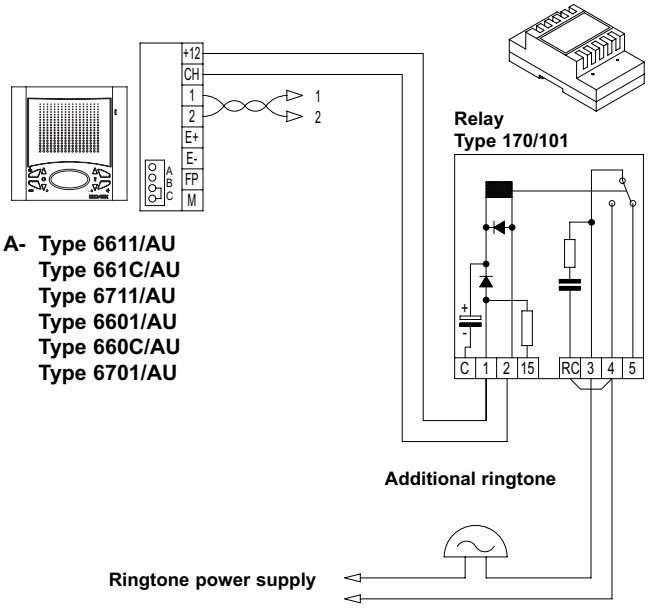
A- Type 6209



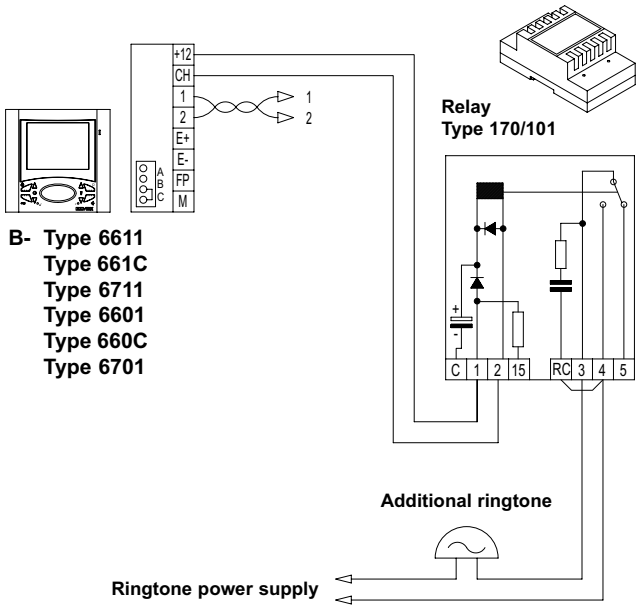
A- Type 8879



B- Type 6309
Type 6309/P
Type 6309/C
Type 6309/CP



A- Type 6611/AU
Type 661C/AU
Type 6711/AU
Type 6601/AU
Type 660C/AU
Type 6701/AU



B- Type 6611
Type 661C
Type 6711
Type 6601
Type 660C
Type 6701

WIRING DIAGRAM:

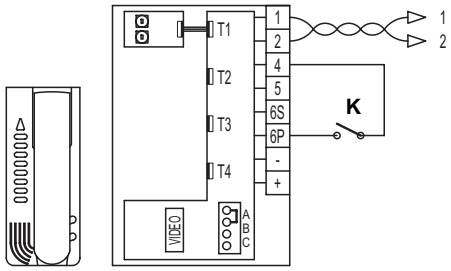
VARIANT

Wiring diagram for door calls

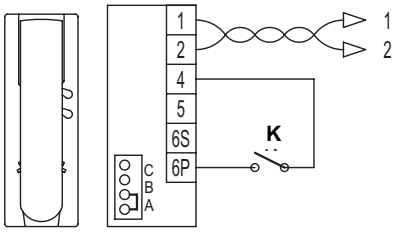
When the door call button is pressed, the audio/video door entry unit sounds with a different tone from the tone generated by a call from the entrance panel or intercommunicating call.

K - Door call push-button

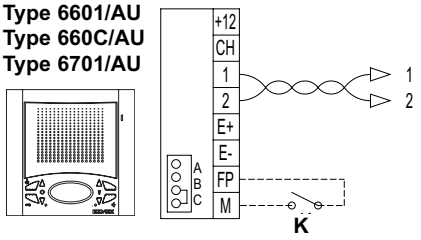
A- Type 6209



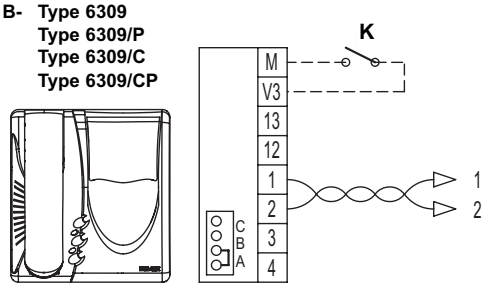
A- Type 8879



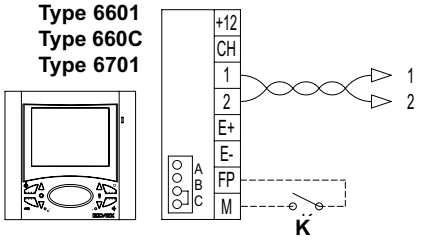
A- Type 6611/AU
Type 661C/AU
Type 6711/AU
Type 6601/AU
Type 660C/AU
Type 6701/AU



B- Type 6309
Type 6309/P
Type 6309/C
Type 6309/CP



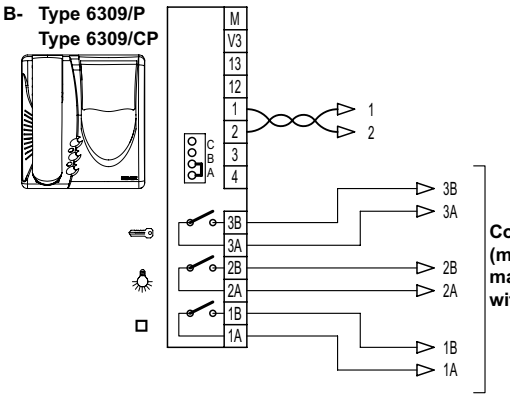
B- Type 6611
Type 661C
Type 6711
Type 6601
Type 660C
Type 6701



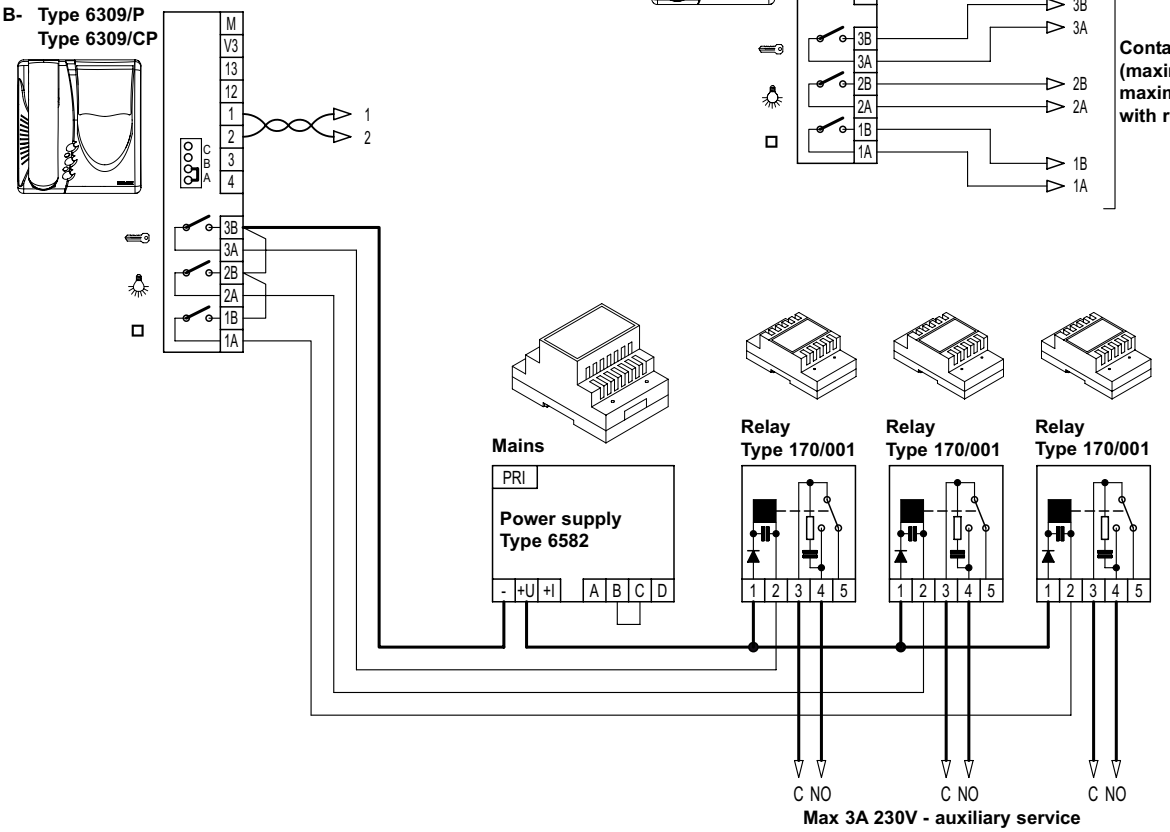
VARIANT

Connection for clean contacts shown controlled by the standard push-buttons of the video door entry unit Type 6309/P - 6309/CP

B- Type 6309/P
Type 6309/CP



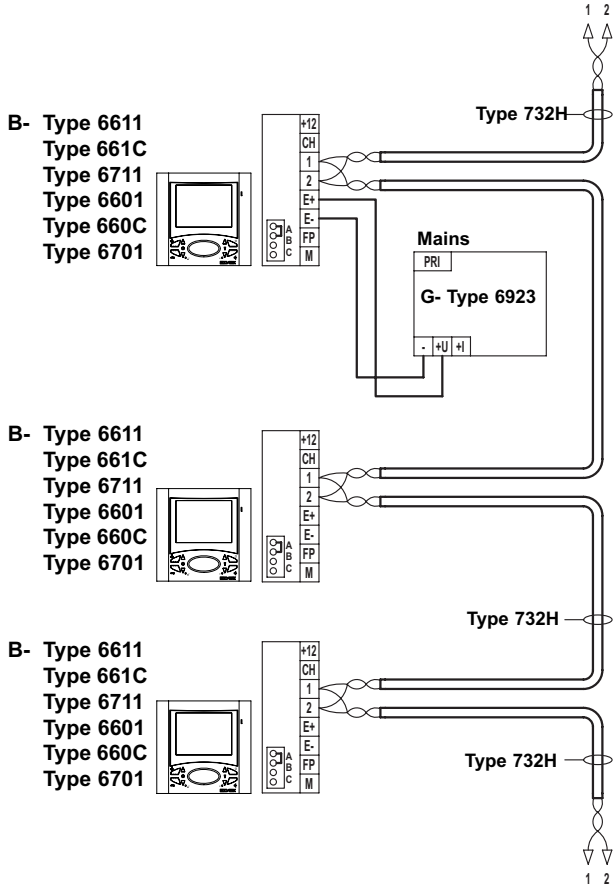
B- Type 6309/P
Type 6309/CP

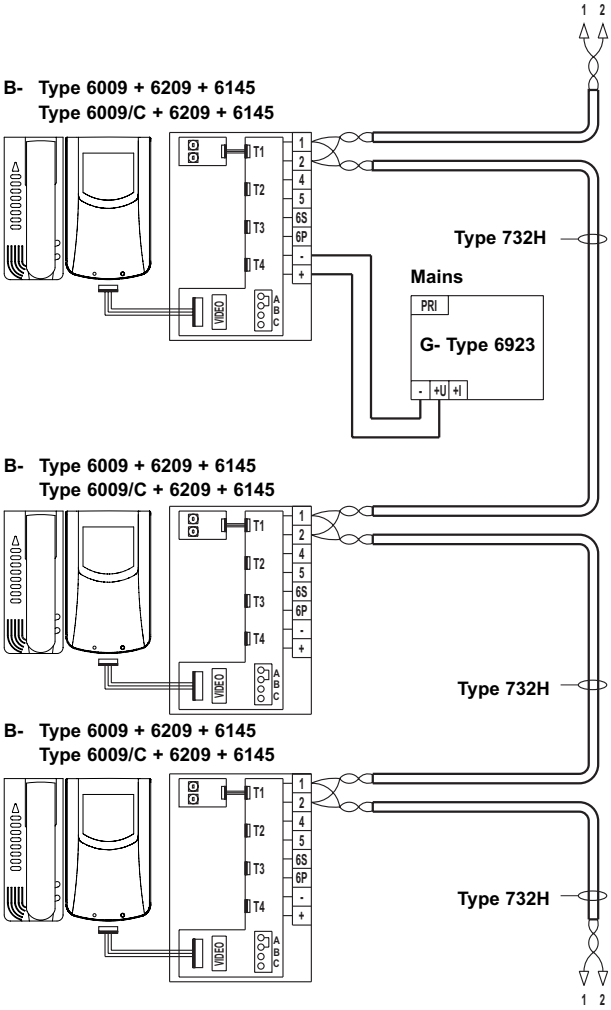


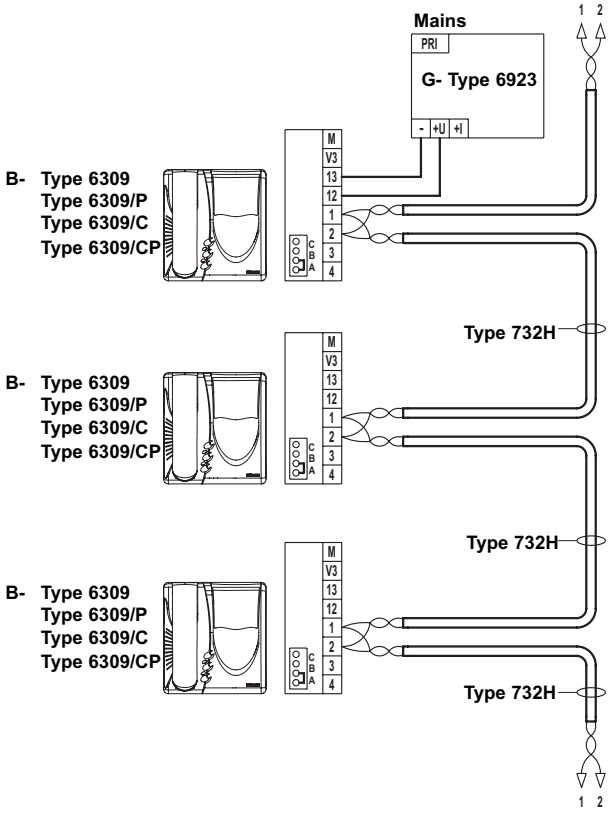
VARIANT

Wiring diagram with simultaneous switch-on of two or more monitors with power supply type 6923.

The power supply unit Type 6922 can simultaneously power one video entrance panel and two monitors Type 6009, 6009/C, 6309, 6309/C, 6309/P, 6309/CP, 6601, 6611, 660C, 661C, 6701, 6711 switched on. With a larger number of monitors switched on simultaneously, additional power supply type 6923 must be used after the 2nd monitor. One power supply type 6923 must be used per additional monitor.







WIRING DIAGRAM:

VARIANT

Connection diagram of supplementary power supply unit Type 6923 for entrance panels.

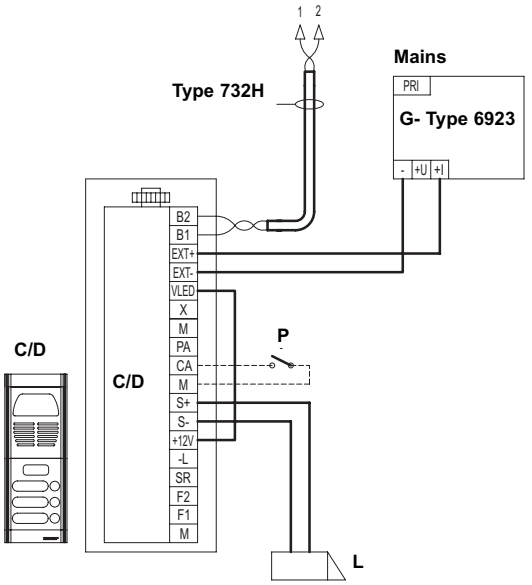
Additional power supply type 6923 is used in support of power supply type 6922 to power the entrance panels.

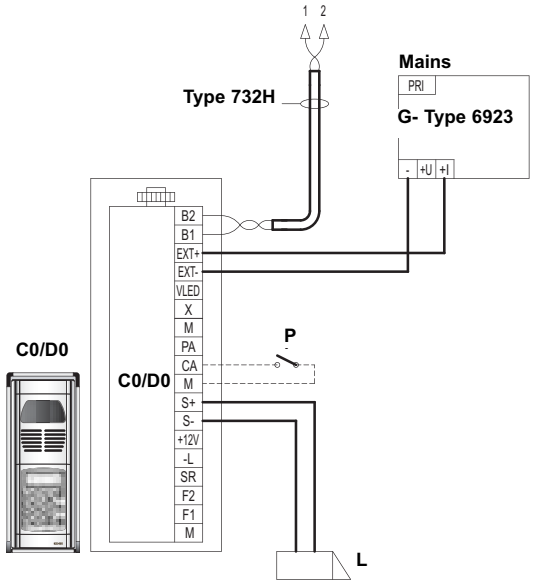
One power supply type 6922 powers up to 3 units simultaneously, after which a power supply type 6923 is required for each added unit (see page 2.8).

Consumption per unit

1 video entrance panel on	= 1	unit
1 audio entrance panel on	= 1/2	unit
1 entrance panel not on/engaged	= 1/4	unit
1 video door entry unit on	= 1	unit
1 concentrator Type 692C	= 1/3	unit
1 active distributor Type 692D/1	= 1/20	unit

Caution: In the case of active distributors, it is not possible to power them separately with the supplementary power supply unit.

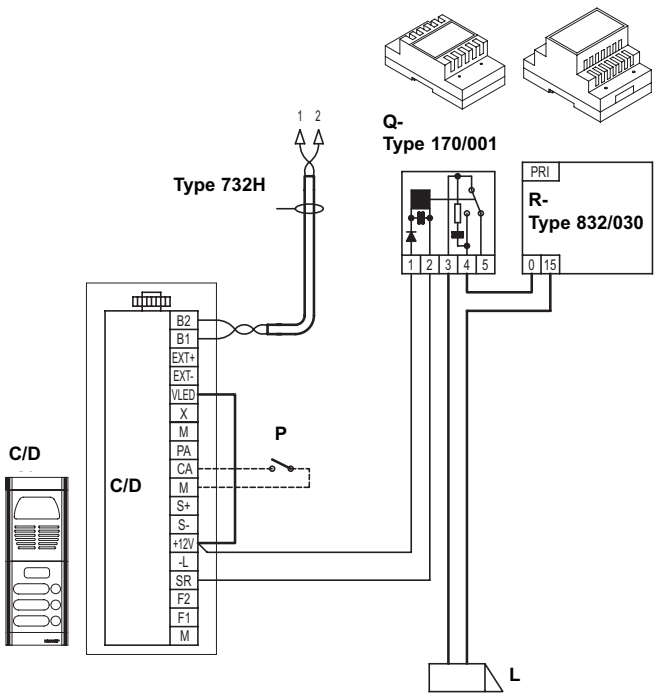


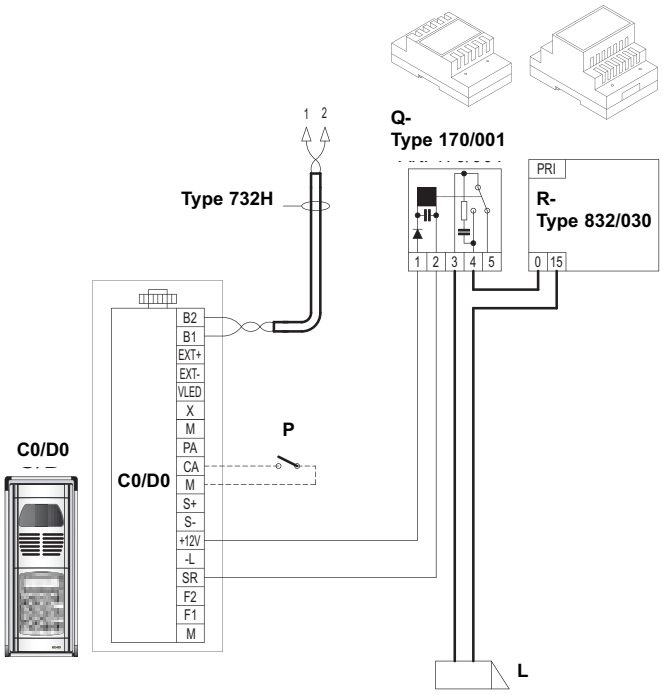


VARIANT

Connection diagram of lock with supplementary power supply unit.

To open high-power locks, an external transformer may be used, which powers the lock by means of a relay type 170/001, connected to terminals +12V/SR of the entrance panel. The lock opening time is the same as that set on terminals S+/S-.



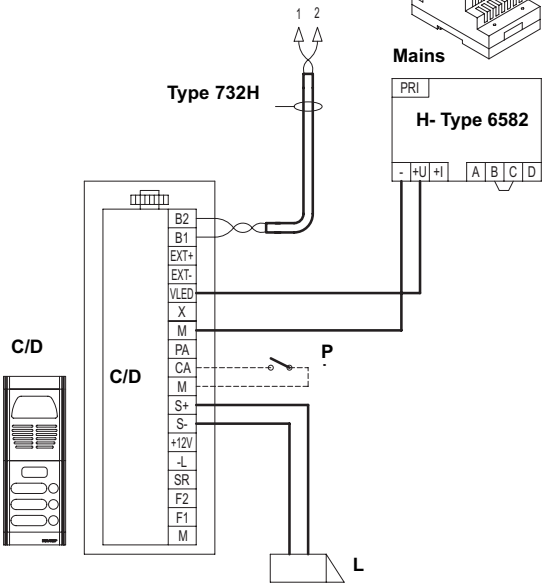


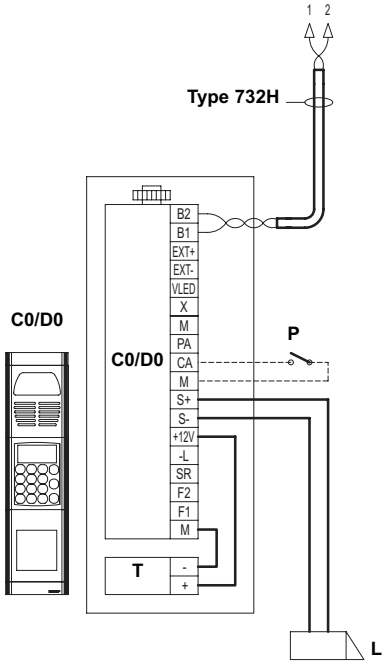
C/C0 - AUDIO ENTRANCE PANEL TYPE 89F3/..., 89F4
D/D0 - VIDEO ENTRANCE PANEL TYPE 89F5/..., 89F5/C.., 89F7, 89F7/C..
G - ADDITIONAL POWER SUPPLY TYPE 6923.
L - 12VDC ELECTRIC LOCK
P - LOCK RELEASE CONTROL
Q - RELAY TYPE 170/001.
R - TRANSFORMER TYPE 832/030.

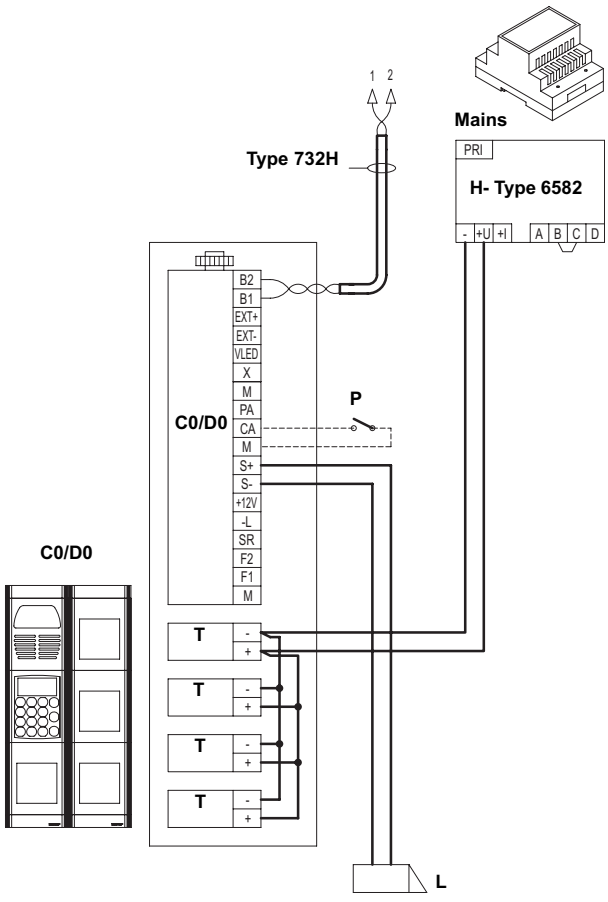
VARIANT

Connection diagram of supplementary power supply unit Type 6582 for entrance panels.

The supplementary power supply unit Type 6582 is used to power the LEDs for lighting the tags when there are more than 4 supplementary modules in the same entrance panel.





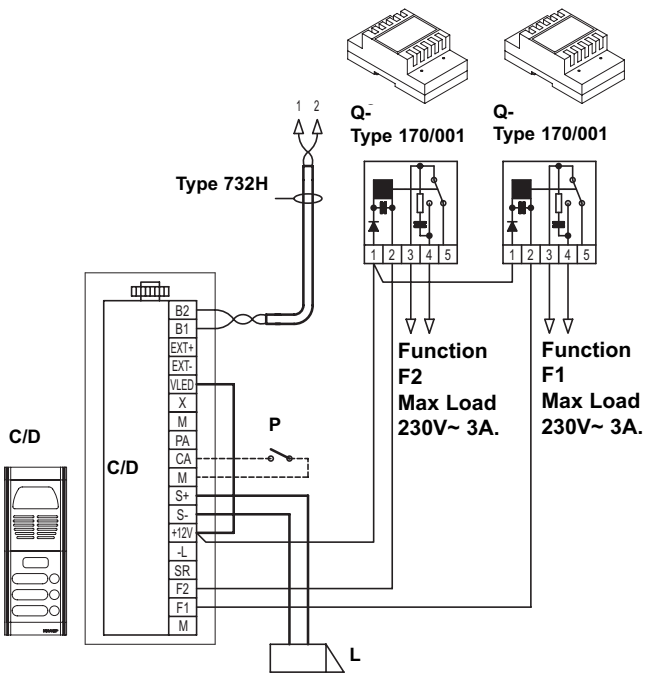


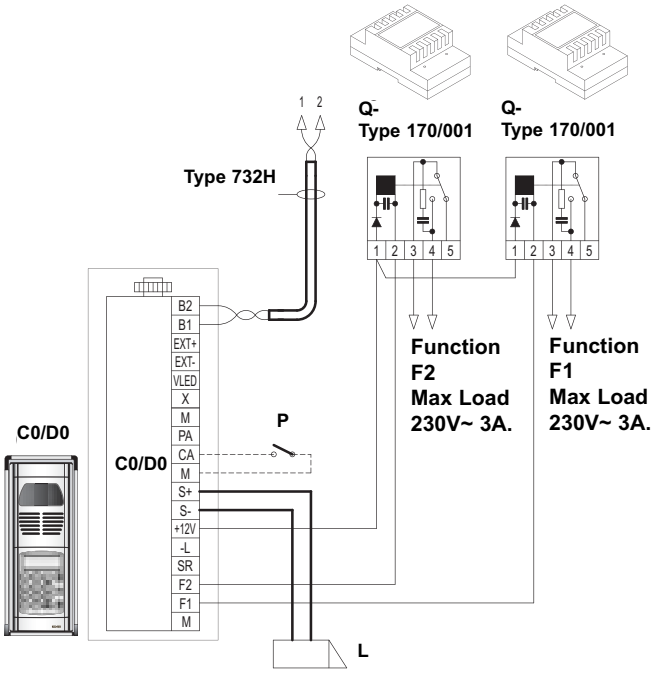
C/C0 - AUDIO ENTRANCE PANEL TYPE 89F3/..., 89F4
D/D0 - VIDEO ENTRANCE PANEL TYPE 89F5/..., 89F5/C.., 89F7, 89F7/C
H - ADDITIONAL POWER SUPPLY TYPE 6582
L - 12VDC ELECTRIC LOCK
P - LOCK RELEASE CONTROL
T - SUPPLEMENTARY MODULES WITH MODULE HOLDERS

VARIANT

Connection of auxiliary functions F1 and F2.

Functions F1 and F2 can be activated from the video and audio door entry units by connecting a relay type 170/001 to terminals F1 and F2 of the entrance panel.

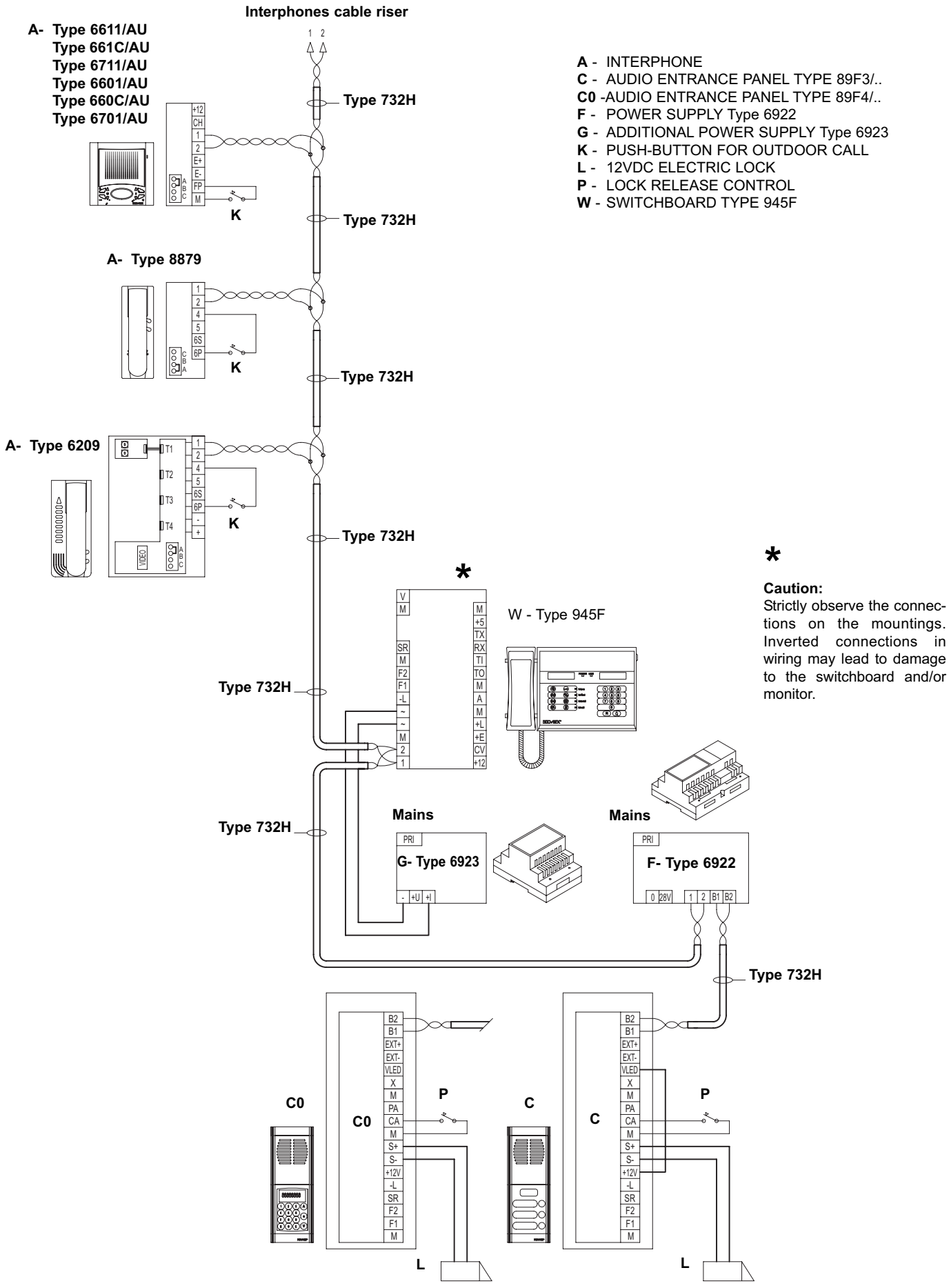




C/C0 - AUDIO ENTRANCE PANEL TYPE 89F3/..., 89F4
D/D0 - VIDEO ENTRANCE PANEL TYPE 89F5/..., 89F5/C.., 89F7, 89F7/C
L - 12VDC ELECTRIC LOCK
P - LOCK RELEASE CONTROL
Q - RELAY TYPE 170/001.

WIRING DIAGRAM:

CONDOMINIUM AUDIO DOOR ENTRY SYSTEM WITH AUDIO DOOR ENTRY UNITS AND PORTER SWITCHBOARD TYPE 945F (REF. SI226)

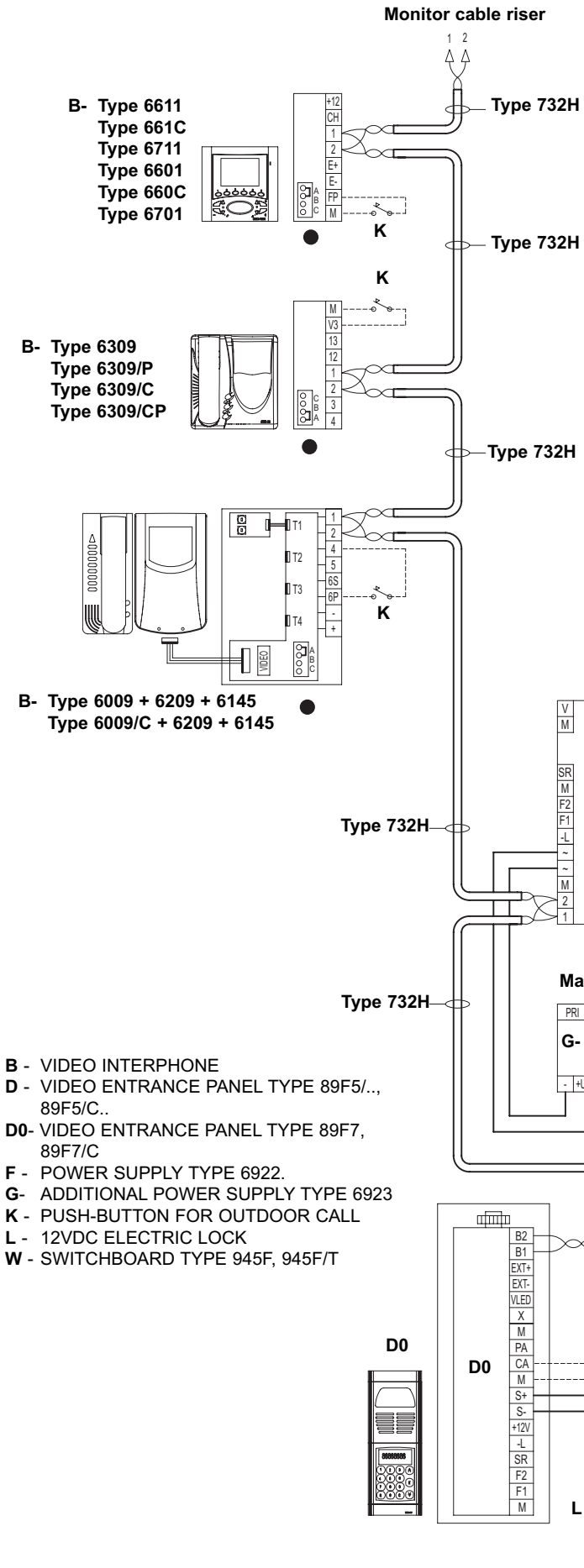


A - INTERPHONE
C - AUDIO ENTRANCE PANEL TYPE 89F3/..
C0 -AUDIO ENTRANCE PANEL TYPE 89F4/..
F - POWER SUPPLY Type 6922
G - ADDITIONAL POWER SUPPLY Type 6923
K - PUSH-BUTTON FOR OUTDOOR CALL
L - 12VDC ELECTRIC LOCK
P - LOCK RELEASE CONTROL
W - SWITCHBOARD TYPE 945F

*

Caution:
Strictly observe the connections on the mountings. Inverted connections in wiring may lead to damage to the switchboard and/or monitor.

CONDOMINIUM VIDEO DOOR ENTRY SYSTEM WITH VIDEO DOOR ENTRY UNITS AND PORTER SWITCHBOARD TYPE 945F (REF. SI227)



B - VIDEO INTERPHONE
D - VIDEO ENTRANCE PANEL TYPE 89F5/.., 89F5/C..
D0- VIDEO ENTRANCE PANEL TYPE 89F7, 89F7/C
F - POWER SUPPLY TYPE 6922.
G- ADDITIONAL POWER SUPPLY TYPE 6923
K - PUSH-BUTTON FOR OUTDOOR CALL
L - 12VDC ELECTRIC LOCK
W - SWITCHBOARD TYPE 945F, 945F/T

BUS TERMINATION TABLE FOR ELVOX TWO-WIRE SYSTEMS

This note applies to all devices with ELVOX TWO-WIRE technology equipped with the “BUS termination connector”, identified on the electronic card with the “ABC” marking and signalled on the wiring diagrams with a “*”.
To adjust the video signal insert the jumper on the strip socket connector. Follow next rule for the correct line adjustment:

- keep the jumper in position “A” if the BUS line “passes through” the device;
- keep the jumper in position “B” if the device is connected to a distributor type 692D, 692D/1 or 692D/2
- in the last device, move the jumper into position “B” in the following cases:
  - the “BUS” line “ends within” the same device (the last device in “pass through” configuration)
  - the video signal of the connected distributors type 692D/1 or 692D/2 is unsatisfactory.
- if the video signal adjustment is unsatisfactory with the jumper in position "B", try position "C".

“A” → NO TERMINATION
“B” → TERMINATION 100 Ohm
“C” → TERMINATION 50 Ohm

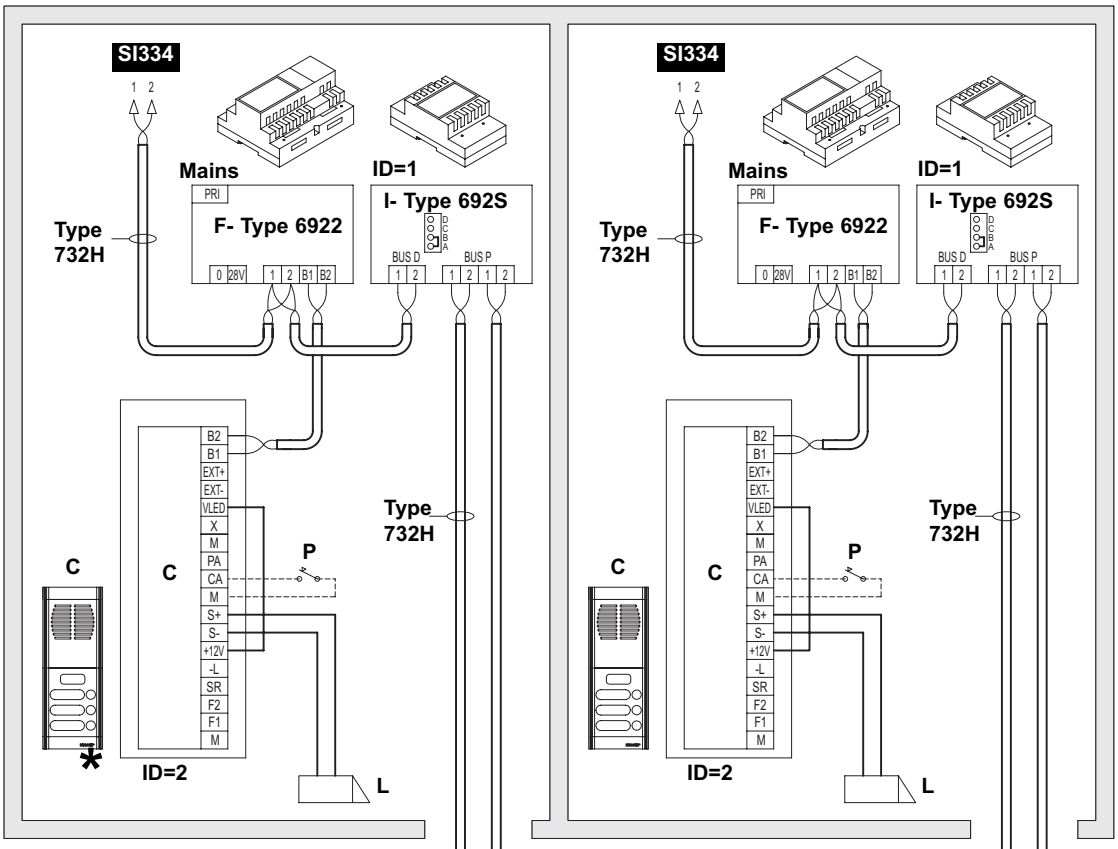
(*) On circuit boards bearing the “ABCD” marking instead of “ABC”, consider the following correspondences: A = AB; B = BC; C = CD.

*

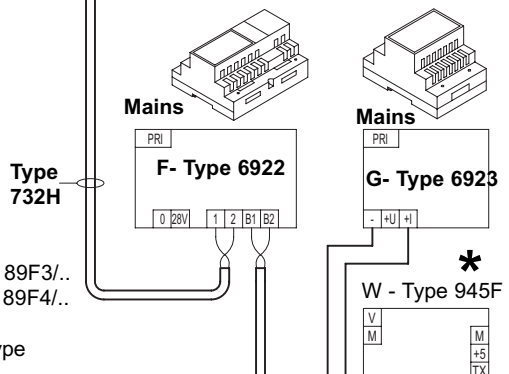
Caution:
Strictly observe the connections on the mountings. Inverted connections in wiring may lead to damage to the switchboard and/or monitor.

WIRING DIAGRAM:

BUILDING COMPLEX AUDIO DOOR ENTRY SYSTEM WITH PORTER SWITCHBOARD, ONE MAIN ENTRANCE PANEL AND ONE SECONDARY ENTRANCE PANEL PER BUILDING. (REF. SI447 + SI334)



*****
Caution:
Strictly observe the connections on the mountings. Inverted connections in wiring may lead to damage to the switchboard and /or monitor.



A - INTERPHONE
C - AUDIO ENTRANCE PANEL TYPE 89F3/..
C0 -AUDIO ENTRANCE PANEL TYPE 89F4/..
F - POWER SUPPLY Type 6922
G - ADDITIONAL POWER SUPPLY Type 6923
K - PUSH-BUTTON FOR OUTDOOR CALL
L - 12VDC ELECTRIC LOCK
P - LOCK RELEASE CONTROL
W - SWITCHBOARD TYPE 945F

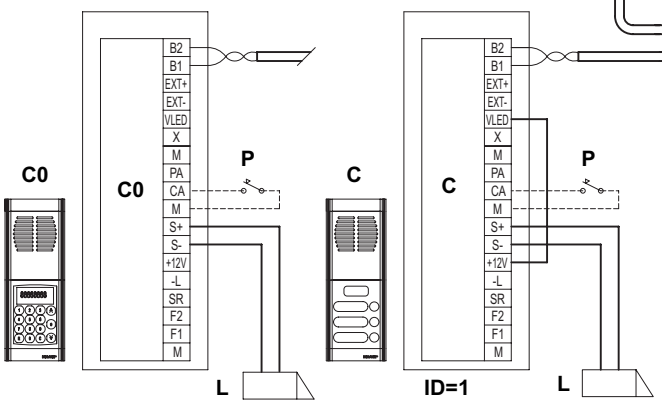
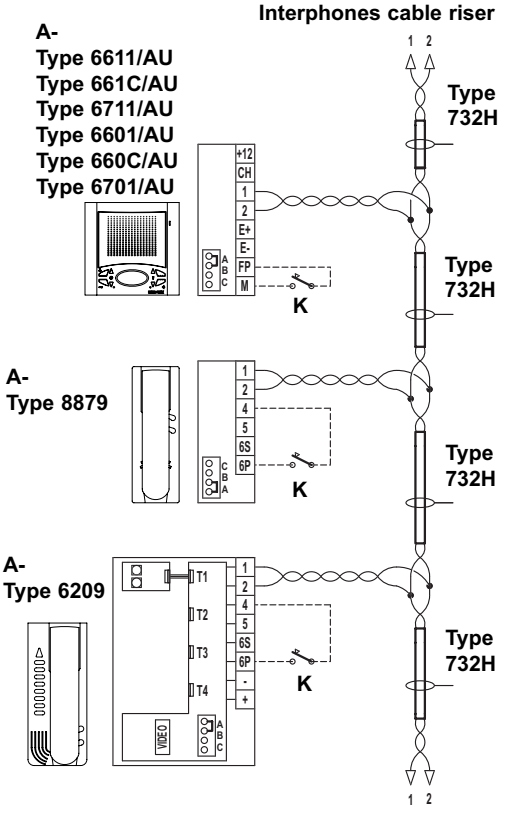
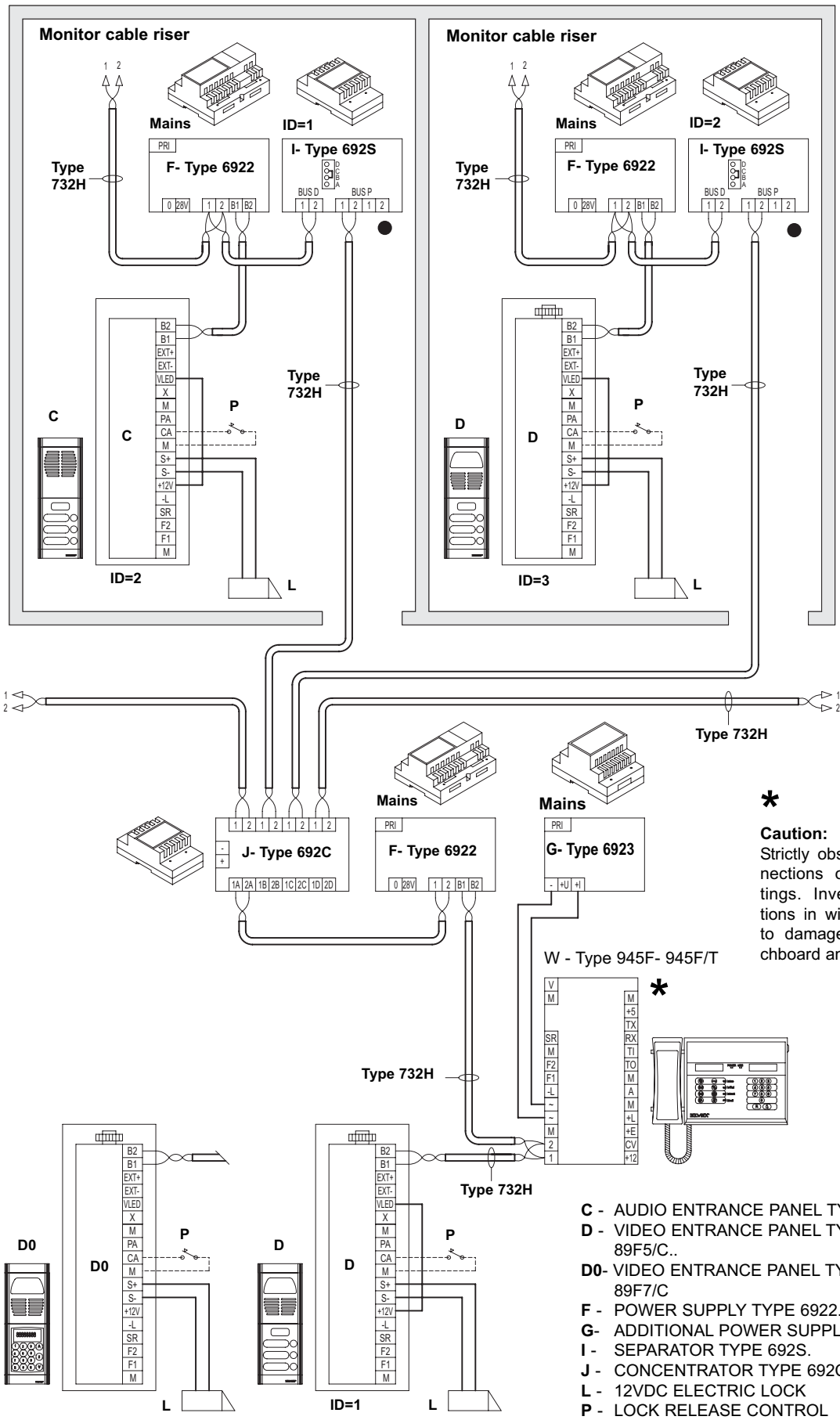


DIAGRAM SI334



BUILDING COMPLEX VIDEO DOOR ENTRY SYSTEM WITH PORTER SWITCHBOARD (REF. SI448)



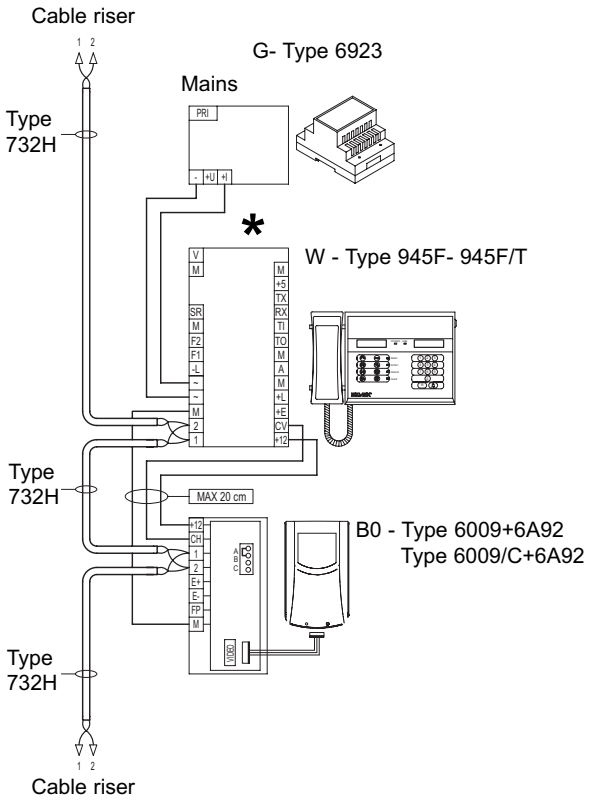
*

Caution:
Strictly observe the connections on the mountings. Inverted connections in wiring may lead to damage to the switchboard and/or monitor.

C - AUDIO ENTRANCE PANEL TYPE 89F3/..
D - VIDEO ENTRANCE PANEL TYPE 89F5/.., 89F5/C..
D0- VIDEO ENTRANCE PANEL TYPE 89F7, 89F7/C
F - POWER SUPPLY TYPE 6922.
G- ADDITIONAL POWER SUPPLY TYPE 6923
I - SEPARATOR TYPE 692S.
J - CONCENTRATOR TYPE 692C.
L - 12VDC ELECTRIC LOCK
P - LOCK RELEASE CONTROL
W - SWITCHBOARD TYPE 945F, 945F/T

WIRING DIAGRAM:

CONNECTION VARIANT FOR PORTER SWITCHBOARD Type 945F WITH MONITOR Type 6009 - 6009/C VIA DESKTOP BASE Type 6A92 (N° SI228)

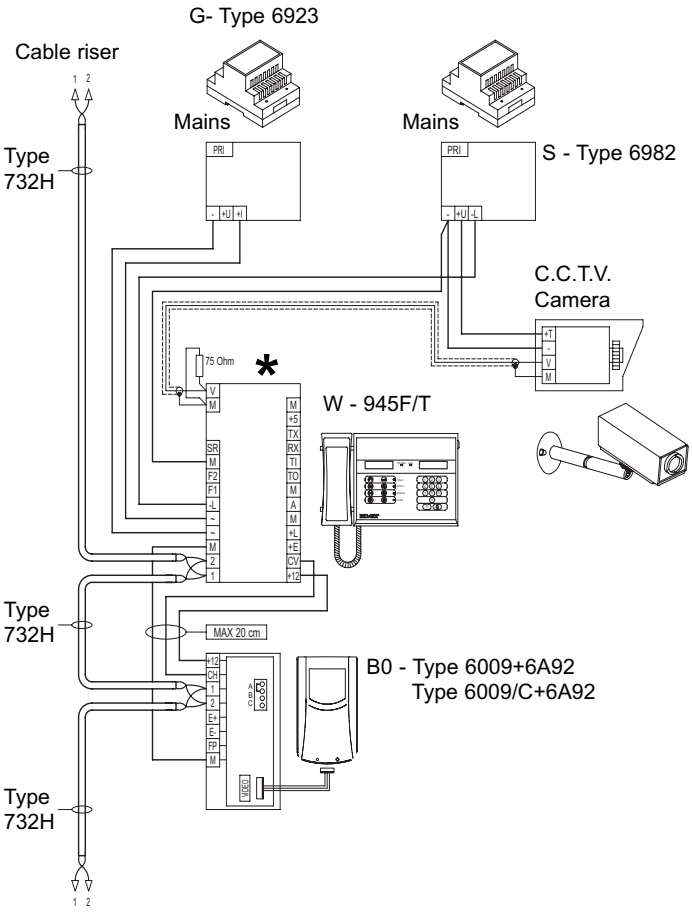


B0 - VIDEO INTERPHONE Type 6009 + 6A92, 6009/C + 6A92
G - ADDITIONAL POWER SUPPLY TYPE 6923
L - 12VDC ELECTRIC LOCK
W - SWITCHBOARD TYPE Type 945F- 945F/T

*

Caution:
Strictly observe the connections on the mountings. Inverted connections in wiring may lead to damage to the switchboard and/or monitor.

CONNECTION VARIANT FOR PORTER SWITCHBOARD Type 945F WITH MONITOR Type 6009 - 6009/C VIA DESKTOP BASE Type 6A92 AND CCTV-TYPE PORTER VIDEO CAMERA (N° SI229)

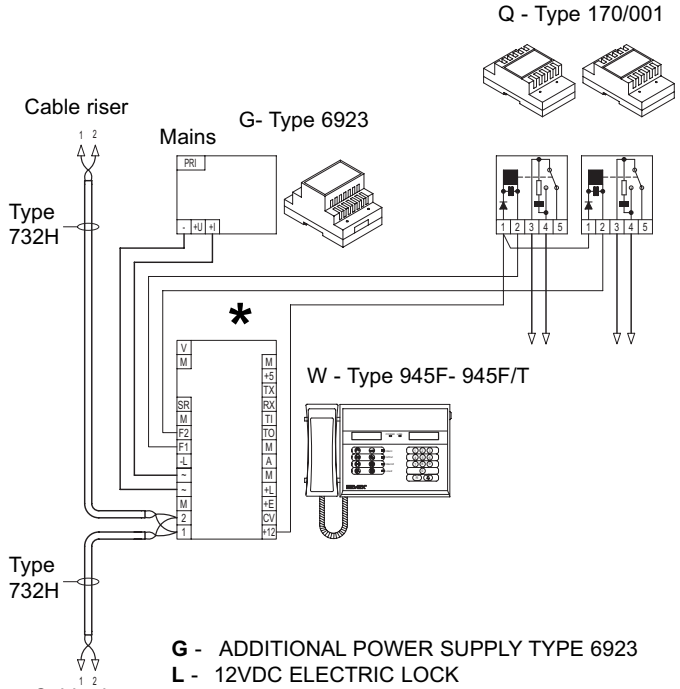


B0 - VIDEO INTERPHONE Type 6009 + 6A92, 6009/C + 6A92
G - ADDITIONAL POWER SUPPLY TYPE 6923
L - 12VDC ELECTRIC LOCK
S - ALIMENTATORE SUPPLEMENTARE Type 6982
W - SWITCHBOARD TYPE 945F/T

*

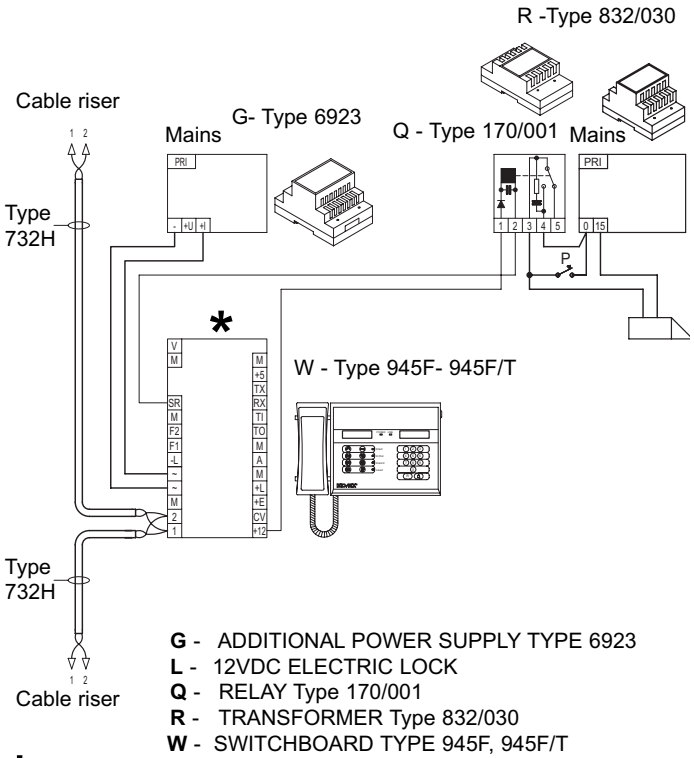
Caution:
Strictly observe the connections on the mountings. Inverted connections in wiring may lead to damage to the switchboard and/or monitor.

CONNECTION VARIANT FOR PORTER SWITCHBOARD Type 945F - 945F/T WITH TWO RELAYS Type 170/001 FOR ACTIVATING TWO AUXILIARY FUNCTIONS "F1-F2" (N° SI230).



G - ADDITIONAL POWER SUPPLY TYPE 6923
L - 12VDC ELECTRIC LOCK
S - ALIMENTATORE SUPPLEMENTARE Type 6982
W - SWITCHBOARD TYPE 945F, 945F/T

CONNECTION VARIANT FOR PORTER SWITCHBOARD Type 945F - 945F/T WITH RELAY Type 170/001 AND TRANSFORMER Type 832/030 TO CONTROL THE ELECTRONIC LOCK (N°. SI231).

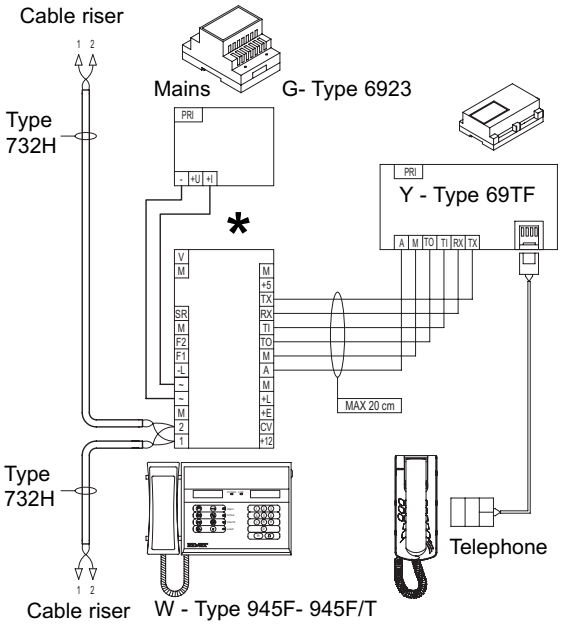


G - ADDITIONAL POWER SUPPLY TYPE 6923
L - 12VDC ELECTRIC LOCK
Q - RELAY Type 170/001
R - TRANSFORMER Type 832/030
W - SWITCHBOARD TYPE 945F, 945F/T

*

Caution:
Strictly observe the connections on the mountings. Inverted connections in wiring may lead to damage to the switchboard and/or monitor.

CONNECTION VARIANT FOR PORTER SWITCHBOARD Type 945F - 945F/T WITH TELEPHONE INTERFACE Type 69TF TO REMOTE THE SWITCHBOARD ON A CORD OR CORDLESS TELEPHONE (NIGHT SERVICE) (N°. SI232).

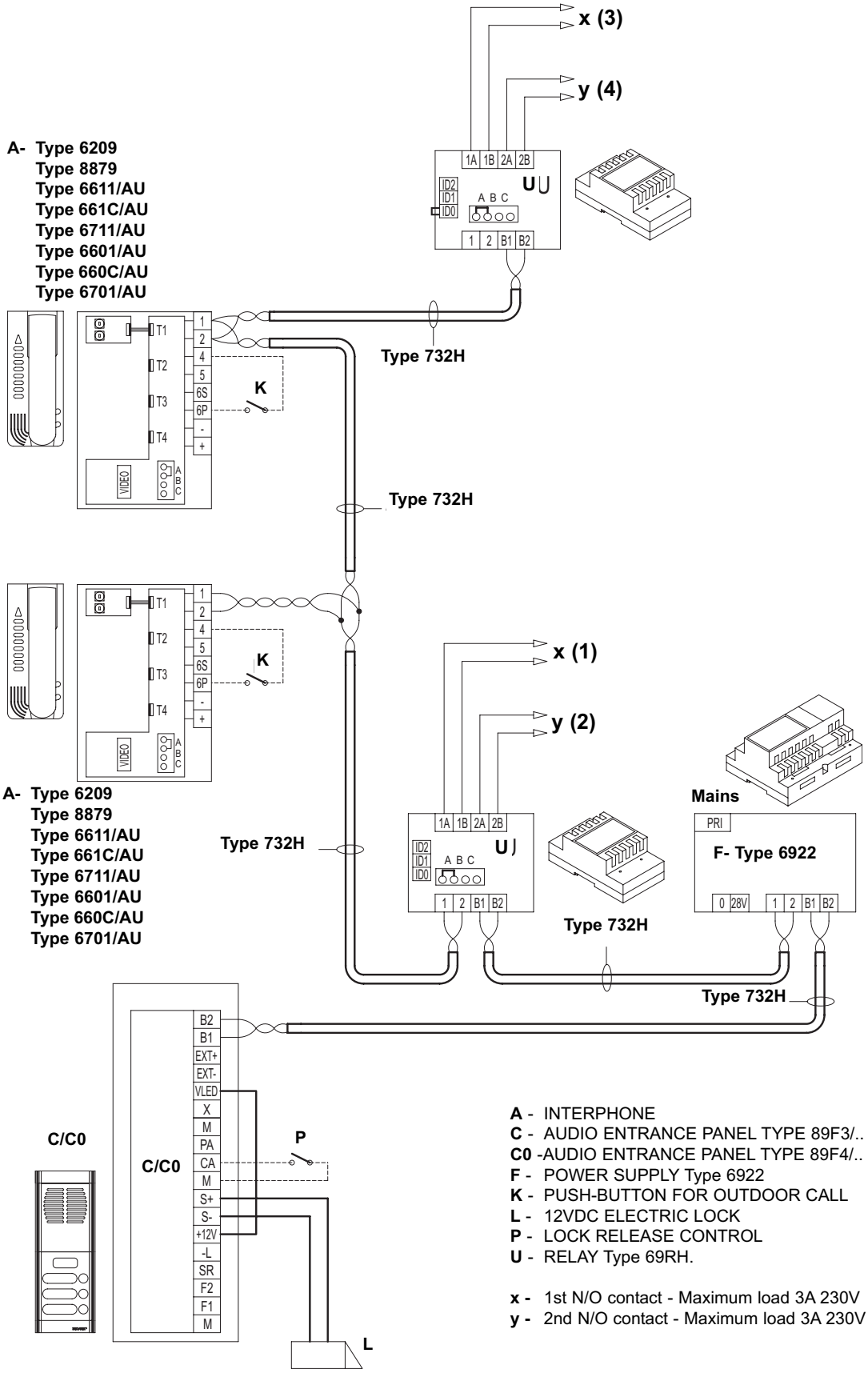


G - ADDITIONAL POWER SUPPLY TYPE 6923
L - 12VDC ELECTRIC LOCK
W - SWITCHBOARD TYPE 945F, 945F/T
Y - INTERFACE Type 69TF

*

Caution:
Strictly observe the connections on the mountings. Inverted connections in wiring may lead to damage to the switchboard and/or monitor.

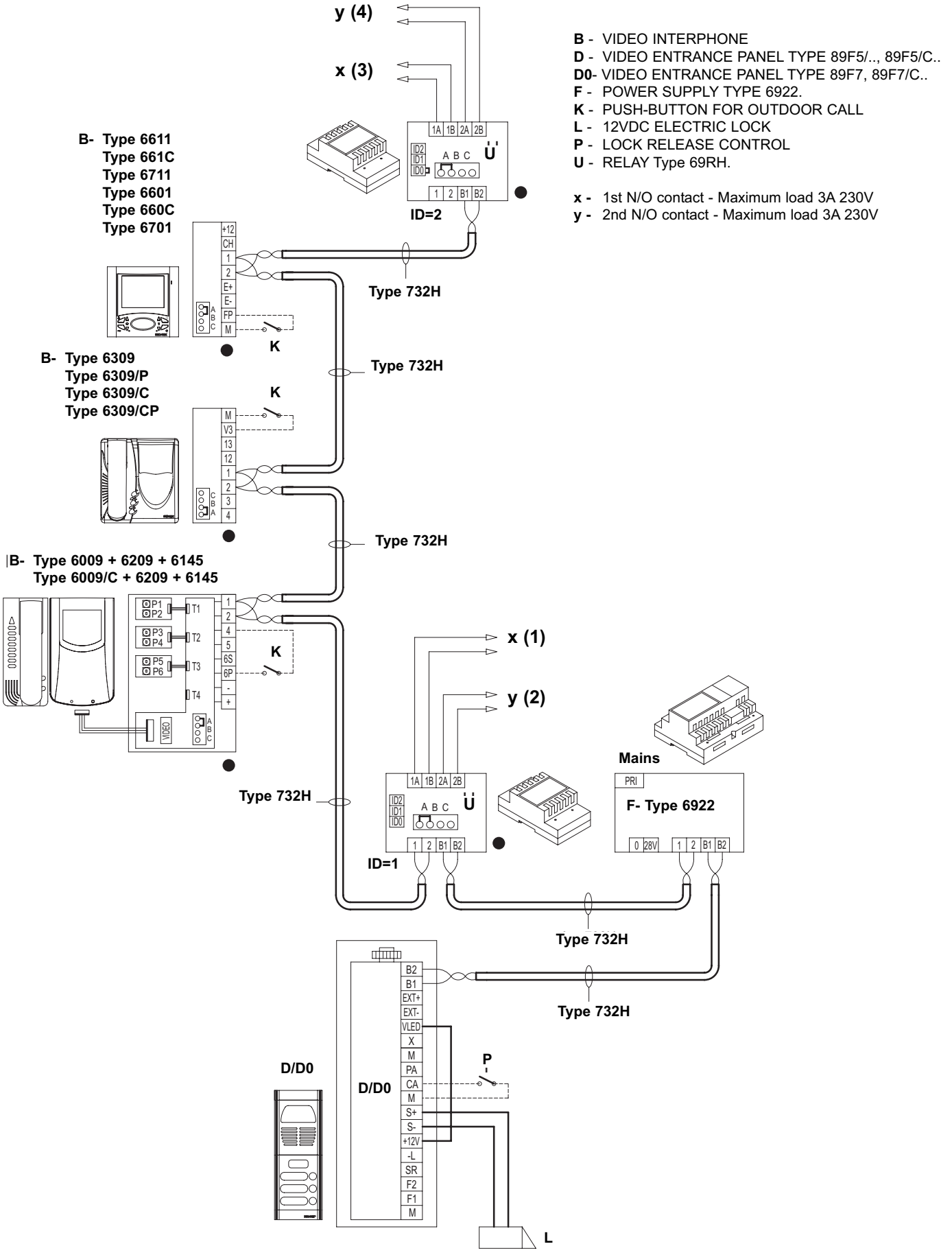
CONNECTION DIAGRAM FOR "ELVOX TWO-WIRE" SIMPLE AUDIO DOOR ENTRY SYSTEM WITH RELAY Type 69RH FOR TWO AUXILIARY SERVICES. (REF. SC5435)



A - INTERPHONE
C - AUDIO ENTRANCE PANEL TYPE 89F3/..
C0 -AUDIO ENTRANCE PANEL TYPE 89F4/..
F - POWER SUPPLY Type 6922
K - PUSH-BUTTON FOR OUTDOOR CALL
L - 12VDC ELECTRIC LOCK
P - LOCK RELEASE CONTROL
U - RELAY Type 69RH.

x - 1st N/O contact - Maximum load 3A 230V
y - 2nd N/O contact - Maximum load 3A 230V

CONNECTION DIAGRAM FOR "ELVOX TWO-WIRE" SIMPLE VIDEO DOOR ENTRY SYSTEM WITH RELAY Type 69RH FOR TWO AUXILIARY SERVICES. (REF. SC5435)



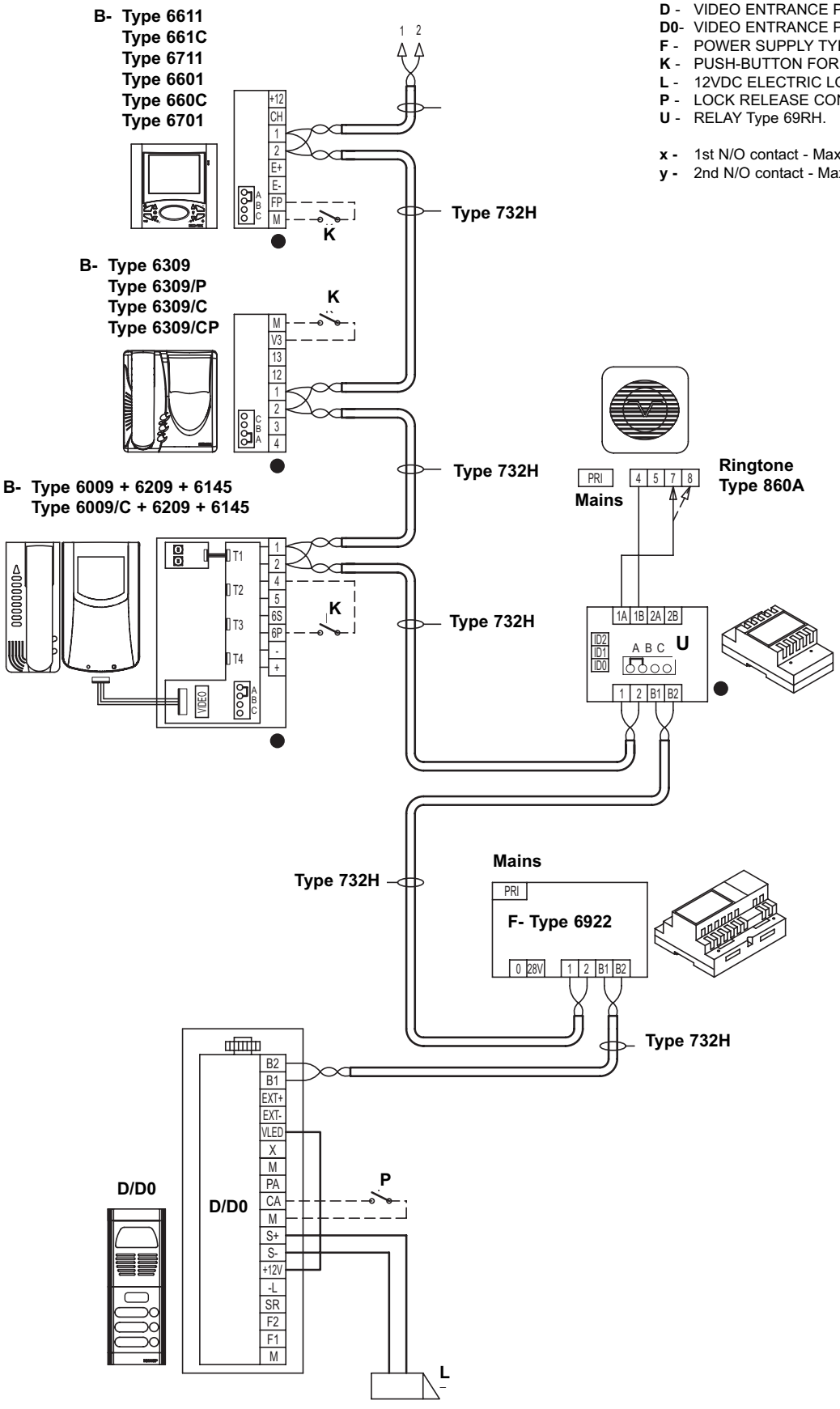
B - VIDEO INTERPHONE
D - VIDEO ENTRANCE PANEL TYPE 89F5/.., 89F5/C..
D0- VIDEO ENTRANCE PANEL TYPE 89F7, 89F7/C..
F - POWER SUPPLY TYPE 6922.
K - PUSH-BUTTON FOR OUTDOOR CALL
L - 12VDC ELECTRIC LOCK
P - LOCK RELEASE CONTROL
U - RELAY Type 69RH.

x - 1st N/O contact - Maximum load 3A 230V
y - 2nd N/O contact - Maximum load 3A 230V

CONNECTION DIAGRAM FOR "ELVOX TWO-WIRE" SIMPLE VIDEO DOOR ENTRY SYSTEM WITH RELAY Type 69RH IN CALL REPEATER MODE FOR EXTERNAL CALL WITH RINGTONE Type 860A.

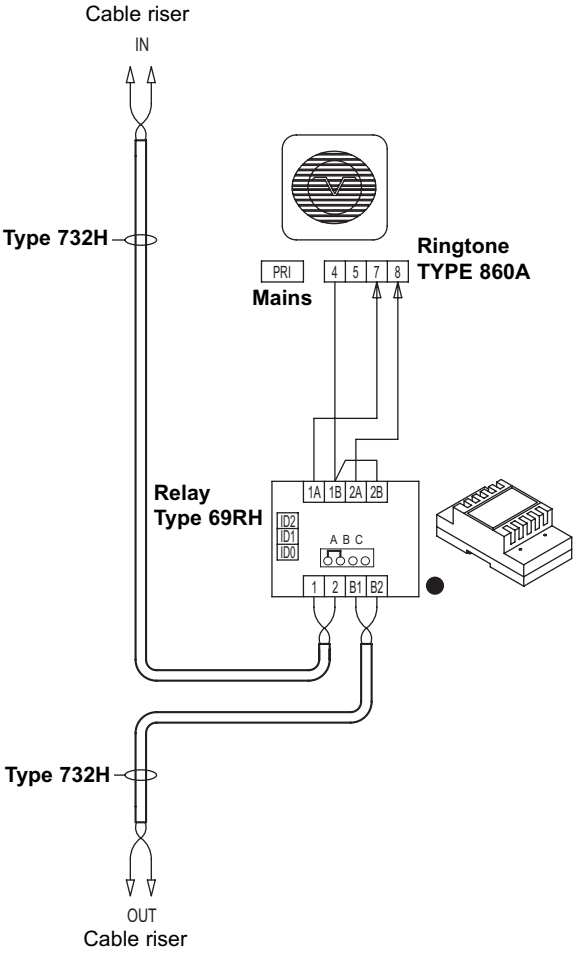
B - VIDEO INTERPHONE
D - VIDEO ENTRANCE PANEL TYPE 89F5/.., 89F5/C..
D0- VIDEO ENTRANCE PANEL TYPE 89F7, 89F7/C..
F - POWER SUPPLY TYPE 6922.
K - PUSH-BUTTON FOR OUTDOOR CALL
L - 12VDC ELECTRIC LOCK
P - LOCK RELEASE CONTROL
U - RELAY Type 69RH.

x - 1st N/O contact - Maximum load 3A 230V
y - 2nd N/O contact - Maximum load 3A 230V



VARIANT

Connection of relay Type 69RH programmed in call repeater mode to repeat the external call and intercommunicating call with two different tones via a supplementary ringtone Type 860A.



VARIANT

Connection of relay Type 69RH programmed in call repeater mode to repeat the external call and intercommunicating call with the same tone via a supplementary ringtone Type 860A.