Easy Videokit

VIDEX

"2 Wire"
Videokit

Index
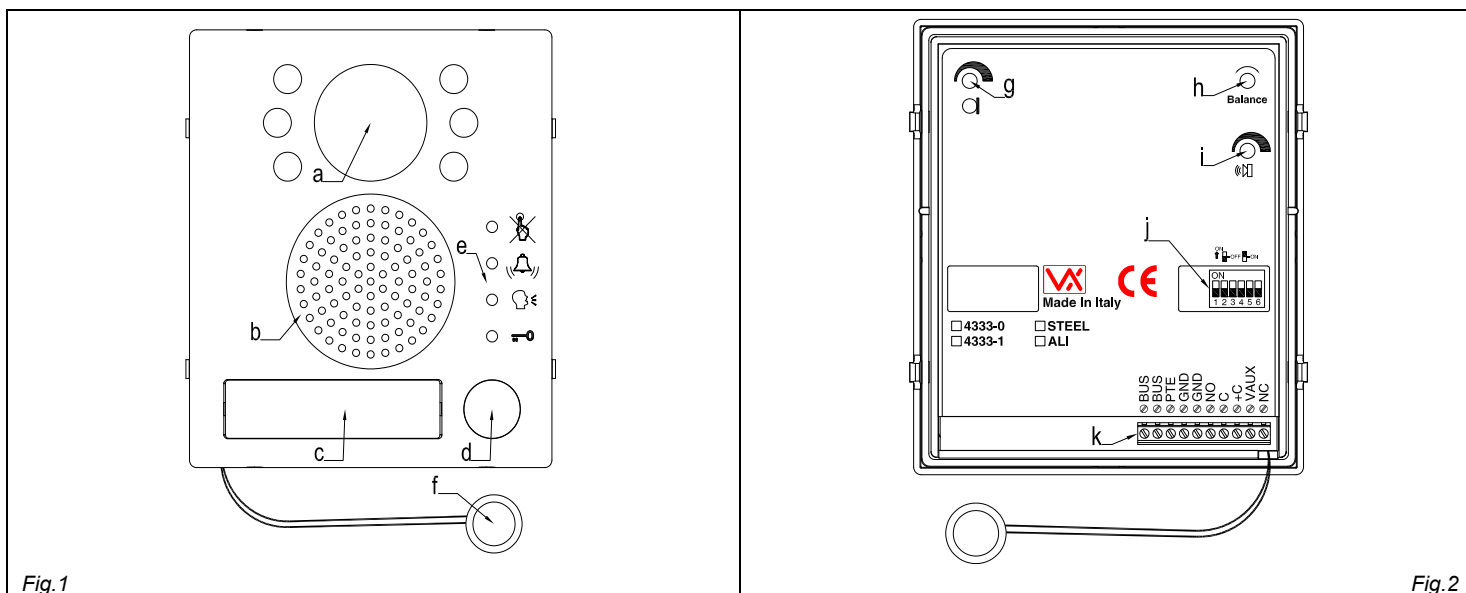
Art.4333   Speaker unit with built-in camera

Fig.1

Fig.2

DESCRIPTION

Speaker unit module with built-in B&W camera with autoiris lens comprised of IR illumination LEDs. According to the speaker unit version it includes one or two call push buttons. The module is available also in colour camera version where the illumination LEDs are white light.
The unit circuitry incorporates :

- The transmitting amplifier with condenser microphone and volume control;
- The receiving amplifier with volume control;
- The audio balance circuit with the "BALANCE" control;
- The enslavement relay to enable the electric lock (3 contacts: common, normally open and normally closed). It can work also as capacitor discharge to supply directly the electric lock;
- The call buttons from 1 to a maximum of 2 depending on the module version;
- The illumination LEDs for the card name holder;
- The camera comprised of illumination LEDs.

Module Details:
a. Camera with illumination LEDs;
b. Loudspeaker;
c. Card name holder;
d. Call push button (1 or 2 according to the model);
e. Operation LEDs
f. Microphone;
g. Microphone volume control;
h. Balance Control;
i. Loudspeaker volume control;
j. Dip-switch to carry out the following programming:
   - Door station ID (switches from 1 to 3);
   - Door opening time (switch 4);
   - Conversation time (switch 5);
k. System connection terminals;

AVAILABLE MODULE VERSIONS
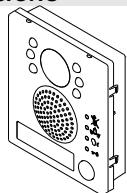
Art.4333-1, 4333-1/color
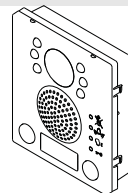
Art.4333-1D, 4333-1D/color

BUTTONS LAYOUT

Art.4333-1, 4333-1/color

Art.4333-1D, 4333-1D/color

FRONT LEDS SIGNALLING DESCRIPTION

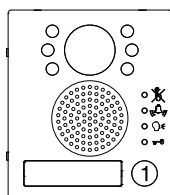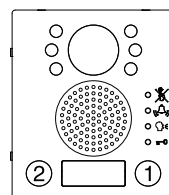| Sign	Description
(bell crossed out)	When illuminated, indicates that it is not possible to make a call because a call or a conversation is in progress (from the outdoor station from which you are calling or from another outdoor station on systems with multiple entrances). The LED will be off when the system is in stand-by
(bell)	If illuminated, indicates that the call from the outdoor station is in progress. The LED will switch OFF when the call is answered or after the programmed number of rings.
(speak)	If illuminated, indicates that it is possible to speak because the call has been answered. The LED will switch OFF at the end of a conversation (or at the end of the conversation time).
(key)	If illuminated, indicates that the door lock has been operated. It will switch OFF at the end of the programmed "door opening" time.

PROGRAMMING

The programming consists of the following settings:
- Unit ID (1..8);
- Door Opening Time (3 or 6 seconds);
- Conversation Time (1 or 2 minutes);
The settings are carried out trough the 6 way dip-switch (reference j on figure 2) accessible from the rear side of the module. The switch 6 is not used.

Unit ID

1	2	3	ID
OFF	OFF	OFF	1
ON	OFF	OFF	2
OFF	ON	OFF	3
ON	ON	OFF	4
OFF	OFF	ON	5
ON	OFF	ON	6
OFF	ON	ON	7
ON	ON	ON	8

Door Opening Time

Switches 4	Seconds
OFF	3
ON	6

Conversation Time

Switches 5	Minutes
OFF	1
ON	2

SIGNALS ON SYSTEM CONNECTION TERMINALS

Terminal	Description	Terminal	Description
BUS	Bus connection terminals	NO	Door open relay normally open contact
BUS		C	Door open relay normally closed contact
PTE	"Push to exit" active low input	+C	Electric lock capacitor discharge output
GND	Ground	VAUX	35Vdc power supply input (if used, the module is powered locally and not from the BUS)
GND	Ground	NC	Door open relay normally closed contact

To use the electric lock with capacitor discharge, make a short between "C" and "+C" then connect the electric lock between terminals "NO" and "GND".

UNIT SPECIFICATION

Housing/Mounting	One 4000 Series Module / 4000 Series Modular System
Push Buttons	Yes, from 0 to 2 call buttons according to the model
Programming	Yes, carried out by the 6 way dip-switch located on the rear of the module
Controls	Microphone and Loudspeaker volume trimmers plus balance trimmer
Front plate Finishes	Mirror stainless steel (standard) and Anodized aluminium (add /a after the product code)
Power Supply	Supplied by the BUS line
Working Temperature	-10 +50°C

CUSTOMER SUPPORT INFORMATION

Art.125 Call expansion module

Connect to "PTE" terminal of Art.4333
Collegare al morsetto "PTE" dell'Art.4333

Connect to "GND" terminal of Art.4333
Collegare al morsetto "GND" dell'Art.4333

Black
Nero

Red
Rosso

Connect to "1C" terminal
of Art.4842, 4843, 4844 or 4845
Collegare al morsetto "1C"
dell'Art.4842, 4843, 4844 o 4845

Connect to terminal "1" of the button expansion module
Collegare al morsetto "1" del modulo d'espansione pulsantiera

Connect to terminal "2" of the button expansion module
Collegare al morsetto "2" del modulo d'espansione pulsantiera

Connect to terminal "3" of the button expansion module
Collegare al morsetto "3" del modulo d'espansione pulsantiera

Connect to terminal "4" of the button expansion module
Collegare al morsetto "4" del modulo d'espansione pulsantiera

Connect to terminal "5" of the button expansion module
Collegare al morsetto "5" del modulo d'espansione pulsantiera

Fig.1

DESCRIPTION

This module must be used in combination with speaker units Art.4333 with firmware release 2.0 or higher. The module, in combination with standard 4000 series button expansion modules (Art.4842, 4843, 4844 and 4845), allows to add up to 5 call buttons to the call buttons built-in the speaker unit to reach a maximum of 7 call buttons. To supply the LED of the button expansion modules make the connection as shown in figure 1.

UNIT SPECIFICATION

Housing/Mounting	*5 resistors module / fix to button expansion module*
Push Buttons	*N/A*
Programming	*N/A*
Controls	*N/A*
Power Supply	*N/A*
Working Temperature	*-10 +50ºC*

CUSTOMER SUPPORT INFORMATION

Art.3181 Digital intercom for VX2300 2 Wire System

Fig.1

Fig.2
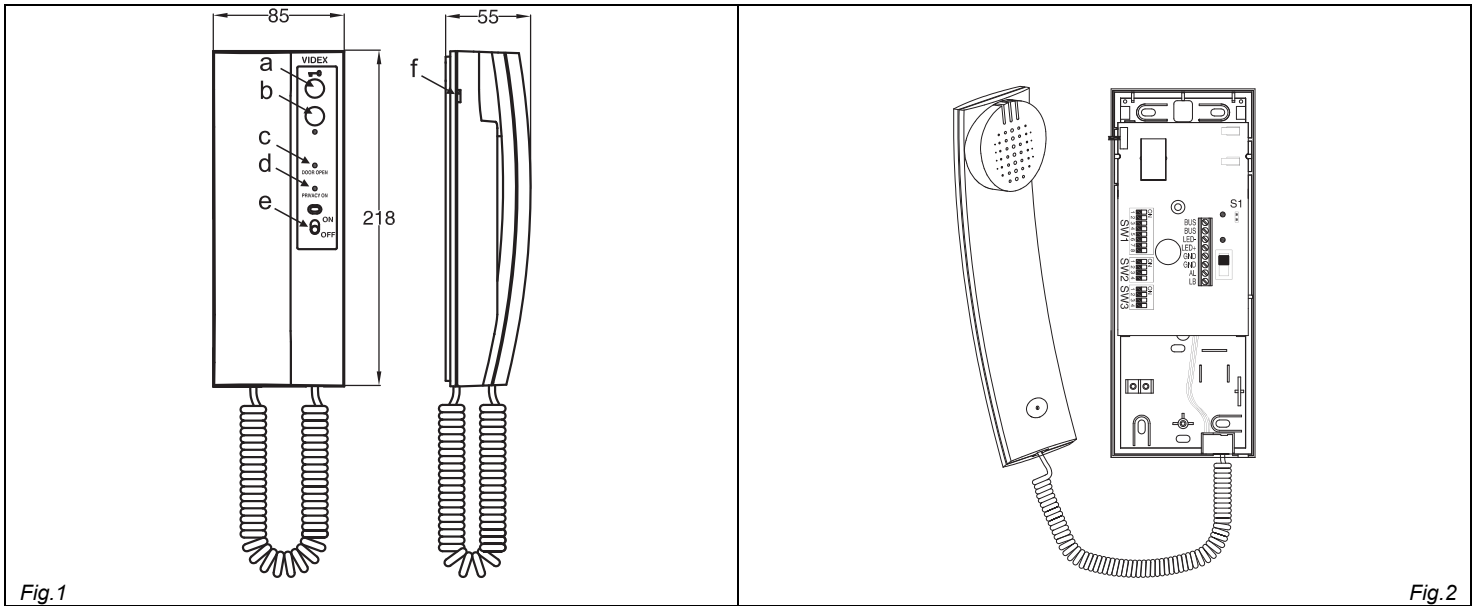
DESCRIPTION

Intelligent intercom with "door open/intercommunicating call" push button (key), bus relay (Art.2305) activation button (dot), "privacy ON-OFF" switch, "door open" and "privacy on" LEDs and call tone volume control (3 levels). To reduce bus current all apartment devices are in a sleep mode when not used. In case a user forgot to replace the handset, each operation must be executed within 10 seconds of lifting the handset otherwise the handset returns to its sleep state. To then perform an operation it would be necessary to hang up the handset and pick it up again.

PUSH BUTTONS, LEDS AND CONTROLS (FIG.1)

a	Door open push button – Intercommunicating call. For an intercommunicating call, pick up the handset and press as many times as the extension or address value to call (see SW3 Intercommunication Settings).
b	Activate bus relay board Art.2305 push button. To activate a bus relay pick up the handset and press as many times as the address value of the relay.
c	Door Open LED. Switched ON if the door is open. Its operation depends on additional connections.
d	Privacy ON LED. Switched ON when the privacy service is active
e	Privacy ON-OFF switch. The privacy duration time can be programmed. If the intercom is programmed for a specific privacy duration, after the service is enabled to "ON" (red LED ON), the service will automatically turn off when the time expires.
f	Call tone volume control (3 levels)

DIP-SWITCHES AND JUMPERS (FIG.2)

SW1	Switches from 1 to 7 are used for unit address (from 1 to 127 binary coded). Last switch (8) is not used
SW2	Switches 1,2 and 3 are used to set privacy duration time. Switch 4 is not used.
SW3	Switches 1,2 and 3 are used to for intercommunication settings. Switch 4 is not used.
S1	Impedance terminator. The jumper must be normally closed. When more videophones/intercoms are connected in parallel (from a peripheral to another and so on until the last) the jumper must be open for all the intercoms except for the last following the connection order.

PROGRAMMING

After each programming operation carried out through dip-switches or jumpers it is necessary to temporary disconnect the phone from the BUS or from the power supply if locally powered.

SW1 – INTERCOM ADDRESS

Switches Status							Binary Code – Decimal Value							Decimal Code
7	6	5	4	3	2	1	64	32	16	8	4	2	1	
OFF	OFF	OFF	OFF	OFF	OFF	ON	0	0	0	0	0	0	1	1
OFF	OFF	OFF	OFF	OFF	ON	OFF	0	0	0	0	0	1	0	2
OFF	OFF	OFF	OFF	OFF	ON	ON	0	0	0	0	0	1	1	3
OFF	OFF	OFF	OFF	ON	OFF	OFF	0	0	0	0	1	0	0	4
OFF	ON	OFF	OFF	ON	OFF	ON	0	1	0	0	1	0	1	37
ON	ON	OFF	OFF	OFF	ON	ON	1	1	0	0	0	1	1	99

The table above shows how to set the address of the phone. Considering that ON = 1 and OFF = 0, multiply each digit for the relevant decimal weight then add values obtained to get the address: E.g. as highlighted in the table OFF,ON,OFF,OFF,ON, OFF,ON in binary is equal to 0100101 then adding each digit for the relevant decimal weight you obtain the address 37.

Note

The maximum number of units allowed is 100 but the address of each unit can be a value between 1 and 127

SW2 – PRIVACY DURATION TIME

Switches Status				Privacy Mode (switch 1)	Privacy Duration (switches 2,3)
4	3	2	1		
	OFF	OFF		The privacy duration time is set by switches 2 and 3. When enabled the privacy service will be disabled when the set time expires or the switch is moved back to off.	15 minutes
	OFF	ON	OFF		1 hour
	ON	OFF			4 hours
	ON	ON			8 hours
			ON	No privacy time expiration: the privacy service is enabled or disabled only by the slide switch.	

SW3 – INTERCOMMUNICATION SETTINGS

Switches Status				Intercommunication Mode (switch 1)	Videophone Extension (switches 2,3)
4	3	2	1		
	OFF	OFF		*Intercommunication allowed between videophones (same unit address) inside the same flat. To call an extension pick up the handset then press the "door open" button as many times as the extension value (Eg. extension 2 two times, 3 three times etc).* **Each intercom/videophone in the same apartment must have a different extension address, the master address must always be set except when one of the intercom/videophone is set for apartment intercommunication (i.e. in a 3 intercom/videophone installation, one of the intercom/videophone must have the extension address 1 while the others must have different addresses)**	1 (master)
	OFF	ON	OFF		2 (slave)
	ON	OFF			3 (slave)
	ON	ON			4 (slave)
	OFF	OFF	ON	*Intercommunication allowed between videophones (different apartment). To call an extension pick up the handset then press the "door open" button as many times as the address value (Eg. extension 10 ten times, 12 twelve times etc)*	

On installations where there are more than one intercom/videophone in the same apartment and intercommunication between different apartments is required, only one intercom/videophone may be set with this function (SW3.1=ON, SW3.2=OFF, SW3.3=OFF). The other intercom/videophones in the apartment must be set for local intercommunication with extension addresses "2-4" (slaves). From the intercom/videophone set for intercommunication with other apartments it will be not possible to intercommunicate within the apartment but slave extensions 2-4 will be able to intercommunicate with each other.

NUMBER OF RINGS

The number of rings can be set to 3 (factory preset) or 6.
To change the number of rings proceed as follow:
- Disconnect the power supply from the system;
- Short the terminals "LB" and "GND";
- Reconnect the power supply to the system checking the privacy on LED and then remove the short between terminals "LB" and "GND";
- The number of LED flashes will be 1 for 3 rings or 2 for 6 rings.
Each time this operation is carried out the number of rings is switched between the values 3 and 6.

SIGNALS ON CONNECTION TERMINALS

Signal	Description
BUS	Bus contacts
BUS	
LED-	Door open LED ground signal input
LED+	Door open LED power supply input (+12Vdc)
GND	Ground signal
GND	Ground signal
AL	Alarm input (not implemented)
LB	Local Bell contact (put a push button between this terminal and the relevant GND terminal)

SPECIFICATION

Housing/Mounting	3000 Series Intercoms / direct wall mounting
Push Buttons	Yes, two
Programming	Yes, carried out by the dip-switches inside the intercom
Controls	Call tone volume and privacy ON-OFF switch
Power Supply	Supplied by the BUS line
Working Temperature	-10 +50ºC

CUSTOMER SUPPORT INFORMATION

Art.3381   Digital videophone for VX2300 2 Wire System

Fig.1

Open / Close — SW

Fig.2
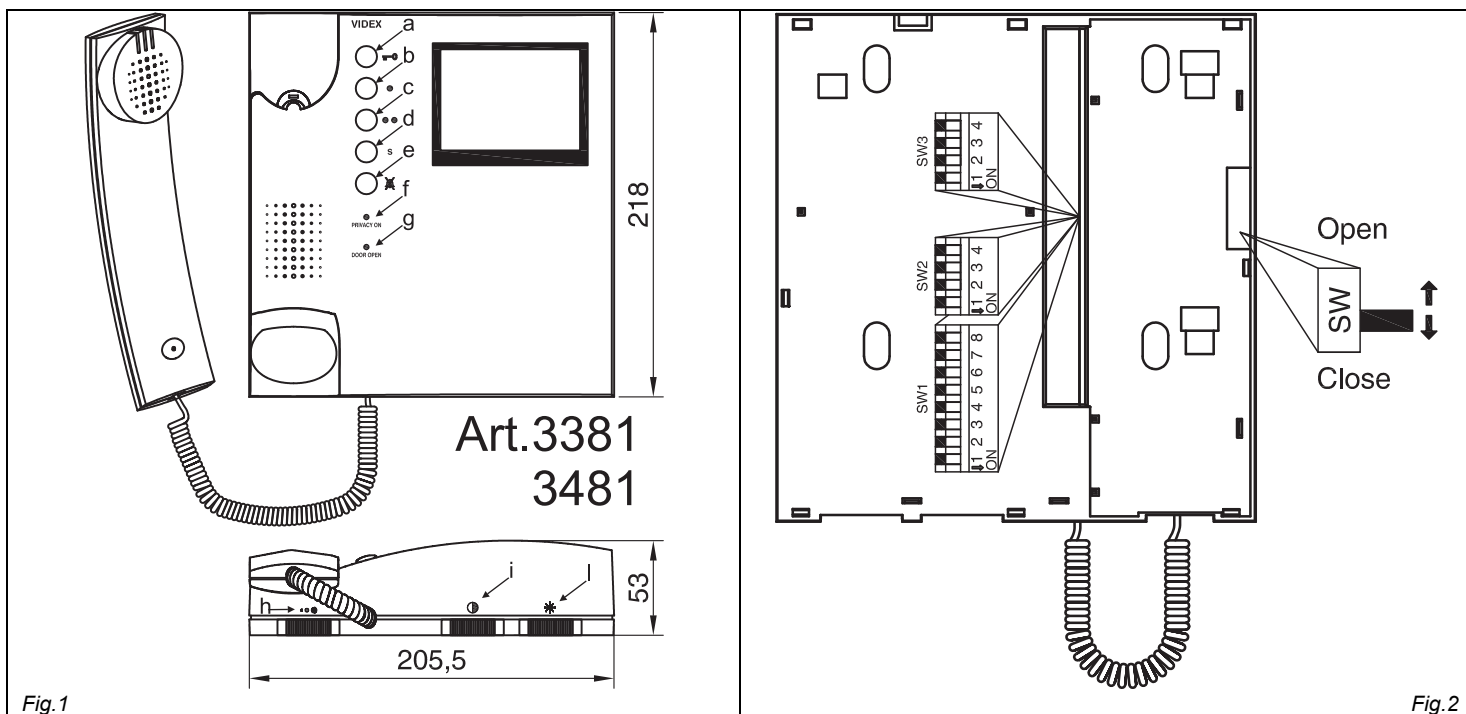
DESCRIPTION

Intelligent videophone with 4" flat screen B&W monitor with "door open" and "camera recall" push buttons, bus relay enable button, service button, "privacy ON-OFF" button plus "privacy on" and "door open" LEDs. Controls: 3 levels of call tone volume (both main and local) plus contrast and brightness. The videophone is available also in colour version Art.3481 which uses a 3,5" active matrix LCD monitor. To reduce bus current all apartment devices are in a sleep mode when not used. In case a user forgot to replace the handset, each operation must be executed within 10 seconds of lifting the handset otherwise the handset returns to its sleep state. To then perform an operation it would be necessary to hang up the handset and pick it up again.

PUSH BUTTONS, LEDS AND CONTROLS (FIG.1)

a	Door open push button – Intercommunicating call. For an intercommunicating call, pick up the handset and press as many times as the extension or address value to call (see SW3 Intercommunication Settings).
b	Camera recall push button. Pick up the handset and press as many times as the DEVICE N. of the door station to switch on.
	If the door station uses the Art.4303N plus the Art.4330N, pressing this button during a conversation switches the video signal coming from the camera module to the video signal coming from the camera module input for external camera.
c	Activate bus relay board Art.2305 push button. To activate a bus relay pick up the handset and press as many times as the address value of the relay.
d	Service push button.
e	Privacy ON-OFF push button. The privacy duration time can be programmed.
f	Privacy ON LED. Switched ON when the privacy service is active.
g	Door Open LED. Switched ON if the door is open. Its correct operation depend from correct connection (terminals 1 and 18)
h	Call tone volume control (3 levels)
i	Contrast control (left decrease, right increase)
l	Brightness control (left decrease, right increase)

DIP-SWITCHES AND SWITCHES (FIG.2)

SW1	Switches from 1 to 7 are used for unit address (from 1 to 127 binary coded). Last switch (8) is not used
SW2	Switches 1,2 and 3 are used to set privacy duration time. Switch 4 is not used.
SW3	Switches 1,2 and 3 are used for intercommunication settings. Switch 4 is used to set the slave mode.
SW	Impedance terminator. The standard position is "close". When more videophones are connected in parallel (from a videophone to another and so on until the last) it must be set to "open" for all the videophones except for the last following the connection order.

PROGRAMMING

After each programming operation carried out through dip-switches or jumpers it is necessary to temporary disconnect the videophone from the BUS or from the power supply if locally powered.

NUMBER OF RINGS

The number of rings can be set to 3 (factory preset) or 6.
To change the number of rings proceed as follow:
- Unplug the flat cable from the pcb connection board;
- Put in short the terminals 13 and 14;
- Plug-in the flat cable checking the privacy on LED and remove the short between terminals 13 and 14;
- The number of LED flashes will be 1 for 3 rings or 2 for 6 rings.
Each time this operation is carried out the number of rings is switched between the values 3 and 6.

SW1 – VIDEOPHONE ADDRESS

Switches Status							Binary Code – Decimal Weight							Address
7	6	5	4	3	2	1	64	32	16	8	4	2	1	
OFF	OFF	OFF	OFF	OFF	OFF	ON	0	0	0	0	0	0	1	1
OFF	OFF	OFF	OFF	OFF	ON	OFF	0	0	0	0	0	1	0	2
OFF	OFF	OFF	OFF	OFF	ON	ON	0	0	0	0	0	1	1	3
OFF	OFF	OFF	OFF	ON	OFF	OFF	0	0	0	0	1	0	0	4
OFF	ON	OFF	OFF	ON	OFF	ON	0	1	0	0	1	0	1	37
ON	ON	OFF	OFF	OFF	ON	ON	1	1	0	0	0	1	1	99

The table above shows how to set the address of the videophone. Considering that ON = 1 and OFF = 0, multiply each digit for the relevant decimal weight then sum values obtained to get the address: E.g. as highlighted in the table OFF,ON,OFF,OFF,ON, OFF,ON in binary is equal to 0100101 then multiplying each digit for the relevant decimal weight you obtain the address that is 37.

Note
The maximum number of units allowed is 100 but the address of each unit can be a value between 1 and 127.

SW2 – PRIVACY DURATION TIME

| Switches Status				Privacy Mode (switch 1)	Privacy Duration (switches 2,3)
4	3	2	1		
	OFF	OFF		The privacy duration time is set by switches 2 and 3. When enabled the privacy service is disable when the time set expires or the relevant button is pressed again.	15 minutes
	OFF	ON	OFF		1 hour
	ON	OFF			4 hours
	ON	ON			8 hours
			ON	No privacy time expiration: the privacy service is enabled or disabled only by the privacy button.	

SW3 – INTERCOMMUNICATION SETTINGS

Switches Status				Intercommunication Mode (switch 1)	Videophone Extension (switches 2,3)
4	3	2	1		
	OFF	OFF		Intercommunication between videophones in the same apartment. To call an extension pick up the handset then press the "door open" button as many times as the extension (Eg. extension 2 two times, 3 three times etc). **Each intercom/videophone must have a different extension address, the master address must always be set (i.e. in a 3 intercom/videophone installation, one of the intercom/videophone must have the extension address 1 while the others must have different addresses included from 2 to 4)**	1 (Master)
	OFF	ON	OFF		2 (Slave)
	ON	OFF			3 (Slave)
	ON	ON			4 (Slave)
	OFF	OFF	ON	Intercommunication between videophones in different apartments. To call an extension pick up the handset then press the "door open" button as many times as the address (Eg. extension 10 ten times, 12 twelve times etc)	
Slave Mode (switch 4) for Extensions 2, 3 and 4					
OFF	Factory preset, during a call the slave videophones will only ring while the master will also show the video picture). The picture will only appear on the slave when answered.				
ON	During a call, the videophone will ring and show the video picture: in this case the videophone must be powered locally using an Art.2321 and connecting BUS+ to "Vin" (9) and BUS- to "–" (10).				

NOTE: Extension 1 is mandatory. On systems with more than one device in an apartment, each device must have a unique extension ID.

On installations where there are more than one intercom/videophone in the same apartment and intercommunication between different apartments is required, only one intercom/videophone may be set with this function (SW3.1=ON, SW3.2=OFF, SW3.3=OFF). The other intercom/videophones in the apartment must be set for local intercommunication with extension addresses "2-4" (slaves). From the intercom/videophone set for intercommunication with other apartments it will be not possible to intercommunicate within the apartment but slave extensions 2-4 will be able to intercommunicate with each other.

VIDEOPHONE CONNECTION BOARD ART.3980

As 3000 series videophones also this version uses the Art.3980 connection board.

R1 ✻
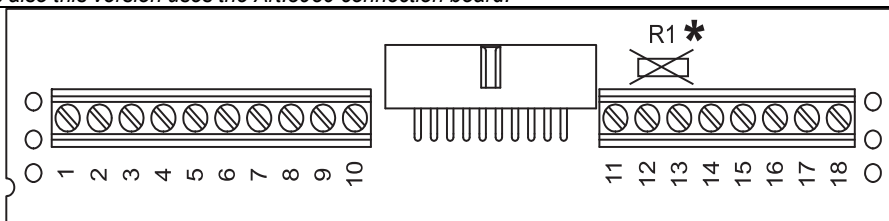
✻ Remove R1 resistor

Fig.3

SIGNALS ON TERMINALS OF ART.3980 CONNECTION BOARD

Terminal	Signal	Description
1	-LD	Door open LED ground signal input
2	AL	Alarm input (not implemented)
3	S	Contacts for "S" service push button. Linked together when the button is pressed
4	S	
5	GND	Ground signal
6		
7		
8		
9	Vin	Auxiliary power supply input (for local power supply)
10	-	
11	BUS	Bus contacts
12	BUS	
13	-	Local bell contacts
14	LB	
15		
16		
17		
18	+LD	Door open LED power supply (12Vdc)

SPECIFICATION

Housing/Mounting	3000 Series Videophones / mounting plate plus connection board
Push buttons	Yes, 5
Programming	Yes, carried out by the dip-switches located on the rear of the videophone
Controls	Call tone volume, contrast and brightness
Power Supply	Supplied by the BUS line
Working Temperature	-10 +50 ºC

CUSTOMER SUPPORT INFORMATION
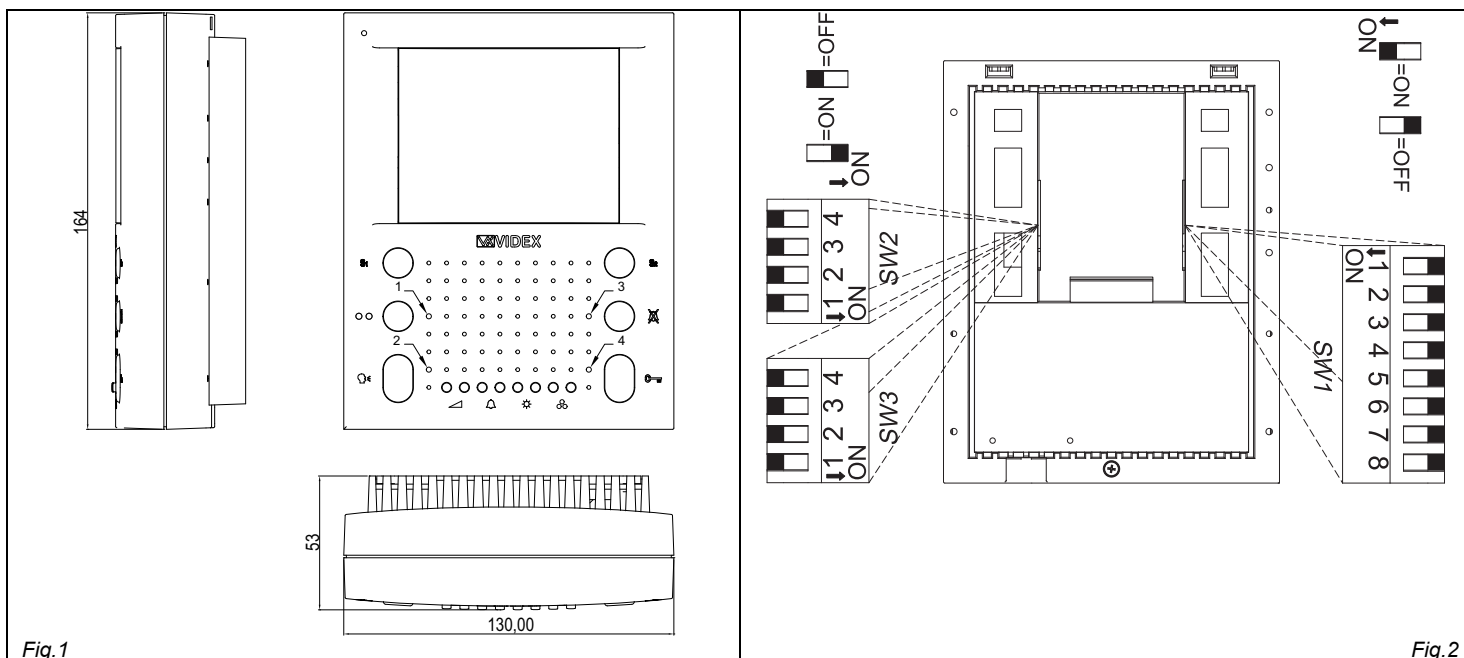
Art.5488   Hands Free Videomonitor for VX2300

Fig.1

Fig.2

DESCRIPTION

An intelligent Hands-free (surface or flush mounting) video monitor employing a colour 3.5" active matrix LCD display, with push buttons for "door open/intercommunicating call", "answer/camera recall", "privacy on/off", "BUS relay activation" and 2 service buttons plus 4 LED's associated with 4 main buttons. In addition to the above the unit has controls for loudspeaker volume, call tone volume, brightness and hue with programmable number of rings, privacy duration and intercommunication mode.

PUSH BUTTONS, LEDS AND CONTROLS (FIG.1)	
S1	Service push button - When pressed, shorts terminal "S1" to terminal "GND" (ground).
● ●	Bus Relay Button to Activate bus relay board Art.2305. To activate a bus relay press as many times as the address value of the relay.
🗣	Answer button - On an incoming call, operation of this button allows the user to answer and converse with the visitor. LED 2 will illuminate.
	Camera recall button - Press as many times as the DEVICE N. of the door station to switch on.
	Switch off button - With the system switched on (monitor on), momentary operation of the button will switch the video monitor off. The videomonitor will also automatically switch off after a time delay if the button is not pressed. LED 2 will switch off.
	Simplex button - Pressing and holding the button for more than 3 seconds will switch the videomonitor into SIMPLEX speech mode. Press and hold the button to speak to the caller (LED 2 will flash rapidly), release the button to listen (LED 2 will flash slowly). If the button is not pressed for 10 seconds the videomonitor will switch off. The videomonitor will revert to duplex speech when another call is made.
S2	When pressed, shorts terminal "S2" to Terminal "GND" (ground).
🔔	Privacy on-off button: − If the monitor is switched on, press and keep pressed this button for more than 3 seconds to enable/disable the service. The relative LED will illuminate when the privacy service is enabled. − If the monitor is switched off, keep this button pressed together with the "speak" button 🗣 until the privacy LED switches ON.
	Camera select button - With a conversation in progress, press to switch from door station camera to external camera (requires Art.4330N and external camera) and viceversa.
0🔑	Intercommunicating call button - For an intercommunicating call, when the videomonitor is in stand-by, press as many times as the extension or address value to call.
	Door open button - During a call, operation of this button will activate the "door open" relay (NO1, NC1, COM1). LED 4 will illuminate if terminal 6 has been connected to a door contact.
1	LED for programming purposes
2	LED relating to the operation of the answer/switch off/camera recall/simplex button
3	LED relating to the operation of privacy button
4	LED relating to the operation of door open button(powered from the connection terminal "6" of Art.5980)
◢	Loudspeaker volume control
🔔	Call tone volume control
✷	Brightness control
⠿	Colour intensity control

PROGRAMMING

The videomonitor setup consists of the following settings:
- Number of Rings;
- Melody selection;
- Unit address (1..127, switches 1 to 7 of SW1);
- Bus Termination (open or close, switch 8 of SW1);
- Intercommunication mode (between apartments or within apartment switch 1 of SW3);
- Extension address (1..4, switches 2,3 of SW3);
- Slave mode (switch 4 of SW3);
- Privacy duration (switches 1,2 and 3 of SW2)

The programming of the number of rings and melody are carried out through the videomonitor push buttons , all other settings are carried out on the three dip-switch banks (SW1, SW2 and SW3) on the rear side of the video monitor.

Except the number of rings programming, it is necessary to remove temporary the power supply after making any other programming changes.

NUMBER OF RINGS AND MELODY SELECTION

First of all make a camera recall to switch on the unit then proceed with the programming operation.To alter the number of rings and select the melody, the videomonitor must be in program mode. This is achieved by operating the two following buttons at the same time (left button of the volume control and the right button of the colour intensity control) see Fig.1A 8 small buttons towards the bottom of the face plate (far left button and far right button together). When the programming mode is entered LED 1 (Fig.1A) starts flashing. This will automatically reset after 20 seconds of idle time.

Number of rings
- When in the programming mode press and hold the "🔔" button, LED 1 will stop flashing and LED 3 (Fig.1A) will start to flash showing the number of rings (each flash = 1 ring i.e. 6 flashes = 6 rings)
- Once the value of rings has been reached release the "🔔" button.
- Wait approx 10 seconds for LED 1 to stop flashing to signal that the new value is stored and program mode has exited.

Melody selection
- When in the programming mode, press left or right call tone volume control buttons 🔔 (press the left button to navigate backward or the right button to navigate forward in the melodies selection menù) until the videomonitor plays the selected melody (during the melody play the LED1 stops flashing);
- Before press again one of the two buttons to select previous (left button) or next (right button) melody, wait for LED1 starts flashing again then press and hold pressed one button until the selected melody is played;
- Once reached the required melody, Wait approx 10 seconds for LED 1 to stop flashing to signal that the new value is stored and program mode has exited.

Notes
The second melody increases its volume at each ring: first ring starts at minimum volume level up to the maximum volume level on the last ring. Are available 4 levels of volume: if are set 6 rings, the fourth, the fifth and the sixth will be emitted at the maximum volume level.

## VIDEOMONITOR ADDRESS – SW1.1..7

The table above shows how to set the address of the videophone. Considering that ON = 1 and OFF = 0, multiply each digit for the relevant decimal weight then sum values obtained to get the address: E.g. as highlighted in the table OFF,ON,OFF,OFF,ON, OFF,ON in binary is equal to 0100101 then multiplying each digit for the relevant decimal weight you obtain the address that is 37.

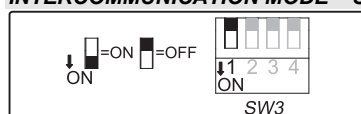| Switches Status							Binary Code – Decimal Weight							Address
7	6	5	4	3	2	1	64	32	16	8	4	2	1	
OFF	OFF	OFF	OFF	OFF	OFF	ON	0	0	0	0	0	0	1	1
OFF	OFF	OFF	OFF	OFF	ON	OFF	0	0	0	0	0	1	0	2
OFF	OFF	OFF	OFF	OFF	ON	ON	0	0	0	0	0	1	1	3
OFF	OFF	OFF	OFF	ON	OFF	OFF	0	0	0	0	1	0	0	4
OFF	ON	OFF	OFF	ON	OFF	ON	0	1	0	0	1	0	1	37
ON	ON	ON	ON	ON	ON	ON	1	1	1	1	1	1	1	127

Note
The maximum number of units allowed is 100 but the address of each unit can be a value between 1 and 127.

BUS TERMINATION - SW1.8
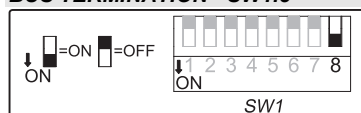
The factory preset for this switch is ON: termination enabled. In case of more units (intercoms, videophones or video monitors) in a parallel connection (bus wires are connected to the terminals of the first unit then from this to the second and so on up to 4 units max) switch 8 must be set to ON only for the last unit in the chain while on all other units must be set to OFF (bus termination disabled).

INTERCOMMUNICATION MODE – SW3.1

This switch establishes the intercommunication mode: in OFF position (default) intercommunication is between units in the same apartment (same addresses but different extension); in ON position the intercommunication is between units in different apartments (different addresses).

On installations where there are more than one intercom/videophone in the same apartment and intercommunication between different apartments is required, only one intercom/videophone may be set with this function (SW3.1=ON, SW3.2=OFF, SW3.3=OFF). The other intercom/videophones in the apartment must be set for local intercommunication with extension addresses "2-4" (slaves). From the intercom/videophone set for intercommunication with other apartments it will be not possible to intercommunicate within the apartment but slave extensions 2-4 will be able to intercommunicate with each other.

EXTENSION NO – SW3.2..3

If the intercommunication between apartments is enabled (switch 1 of SW3 = ON) leave these two switches in default position (both to OFF). Otherwise, if the intercommunication is between the same apartment (switch 1 of SW3 = OFF), set the extension addresses starting always from 1. During the external call, all video monitors in the same flat will ring but the video will be shown only from the videomononitor with extension address 1.

2	3	Extension No.
OFF	OFF	1 (default, master)
ON	OFF	2 (slave)
OFF	ON	3 (slave)
ON	ON	4 (slave)

=ON =OFF

ON

1 2 3 4
ON
SW3

SLAVE MODE - SW3.4

=ON =OFF

ON

1 2 3 4
SW3
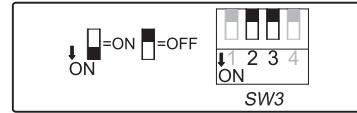
This set up concerns the answering mode of the video monitor when there is more than one unit (max 4) in the same apartment. OFF (default) = during a call, only the video monitor with extension 1 (master) will show the video. ON = the video monitor will be switched on independently of the extension address: in this case the video monitor must be supplied locally using a power supply Art.2321 and connecting respectively BUS+ to terminal 14 and BUS- to terminal 11 of the pcb connection board provided with the Art.5980.

PRIVACY UNLIMITED – SW2.1

=ON =OFF

ON

1 2 3 4
ON
SW2
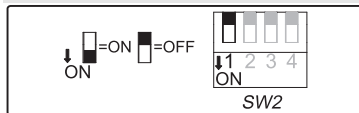
If this switch is set to OFF (default), the privacy duration is defined by switches 2 and 3.If this switch is set to ON, the privacy duration is unlimited and the service can be enabled or disabled only by the privacy button.

PRIVACY DURATION – SW2.2..3

This set up requires that switch 1 is set to OFF.

2	3	Duration
OFF	OFF	15 minutes
ON	OFF	1 hour
OFF	ON	4 hours
ON	ON	8 hours

=ON =OFF

ON

1 2 3 4
ON
SW2
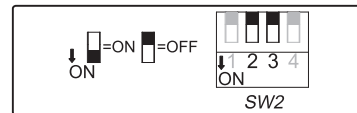
VIDEOMONITOR CONNECTION BOARD ART.5980
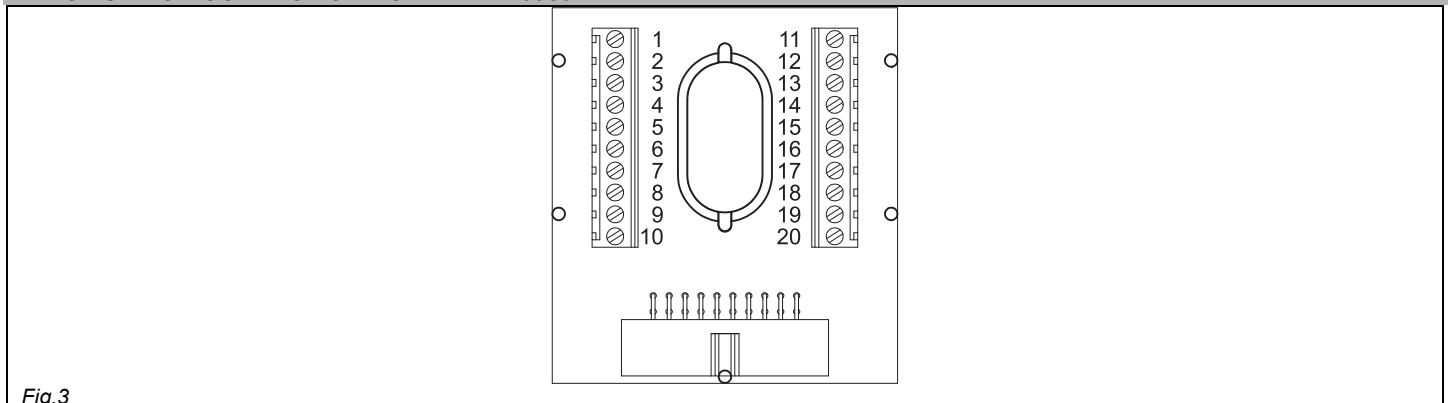
Fig.3

SIGNAL ON CONNECTION TERMINALS

Terminal	Signal	Description
1	GND	Ground
2	BUS1	Bus input
3		
4	BUS2	Bus input
5	S1	Terminal controlled by the **S1** button, close to **GND** until the button is pressed
6	LED	Auxiliary LED power supply input (12Vdc)
7	S2	Terminal controlled by the **S2** button, close to **GND** until the button is pressed
8	GND	Ground
9	GND	Ground
10	LB	Local bell input (active low)
11	GND	Ground
12		
13		
14	+VAUX	Auxiliary power supply input (to be used when the switch 4 of SW3 is set to ON)
15		
16		
17		
18	AL	Alarm input (not implemented yet)
19		
20		

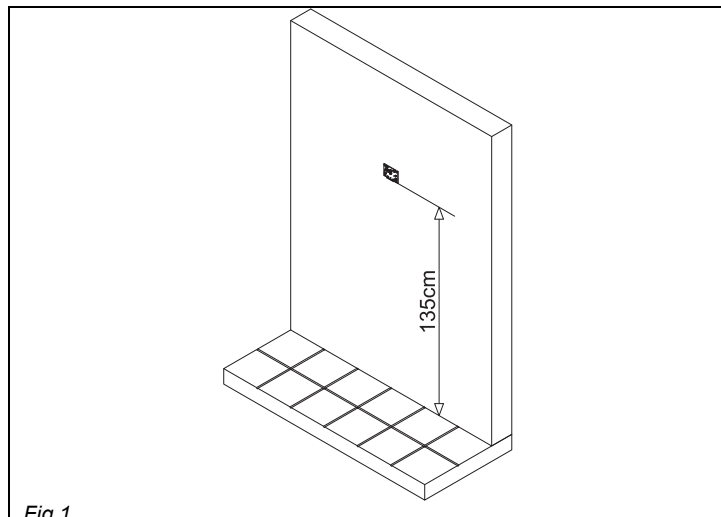**VIDEX**®

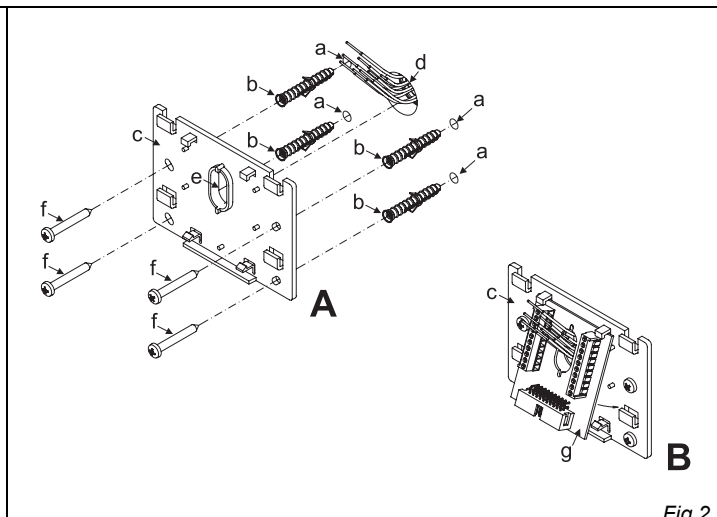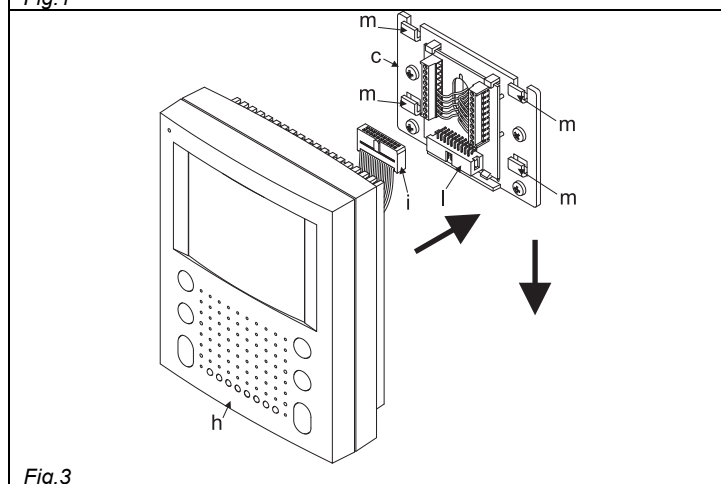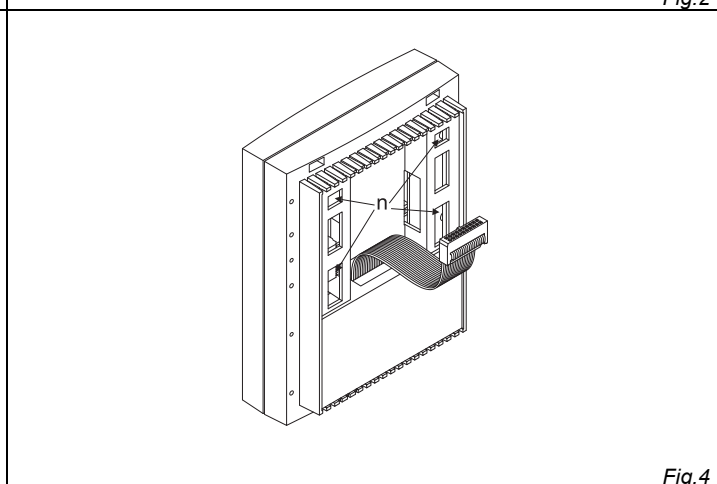## VIDEOMONITOR WALL MOUNTING INSTRUCTIONS

Fig.1

A

B

Fig.2

Fig.3

Fig.4

- Cables must be fed through the opening "e" (Fig. 2A) of the mounting plate "c", which should be fitted approximately 135cm from finished floor level as shown in Fig 1;
- Place the mounting plate "c" against the wall feeding the wire group "d" through opening "e" of the mounting plate and mark the fixing holes "a" (Fig. 2A)
- Drill the fixing holes "a", insert the wall plugs "b" then with the cables threaded through opening "e" fix the mounting plate "c" to the wall with the 4 screws provided "f" (Fig. 2A).
- Hook the pcb connection board "g" to the mounting plate "c"as shown in Fig2B and connect the wires (using the screwdriver provided) to the terminals as shown in the diagram provided;
- Once the wires are connected, hook the videophone "h" to the Mounting plate "c" as shown in Fig. 3.
  • Connect the Plug "I" on the ribbon cable from the videophone to the plug "I" on the PCB connection board "g";
  • Place the videophone "h" against the 4 hooks "m" on the mounting plate "c" (in line with the 4 openings "n" on the rear side of the videophone Fig. 4) and push down as suggested by the pointers in Fig. 3, the videophone will lock into place;
- To remove the videophone, hold it firmly and push the unit in an upward direction until the videophone "h" unlocks from the mounting plate "c".

SPECIFICATION

Housing/Mounting	5000 Series Videophones / mounting plate plus connection board
Push buttons	Yes, 6
Programming	Yes, carried out by the dip-switches located on the rear of the videophone
Controls	Loudspeake and call tone volume, brightness and hue
Power Supply	Supplied by the BUS line
Working Temperature	-10 +50 ºC

CUSTOMER SUPPORT INFORMATION

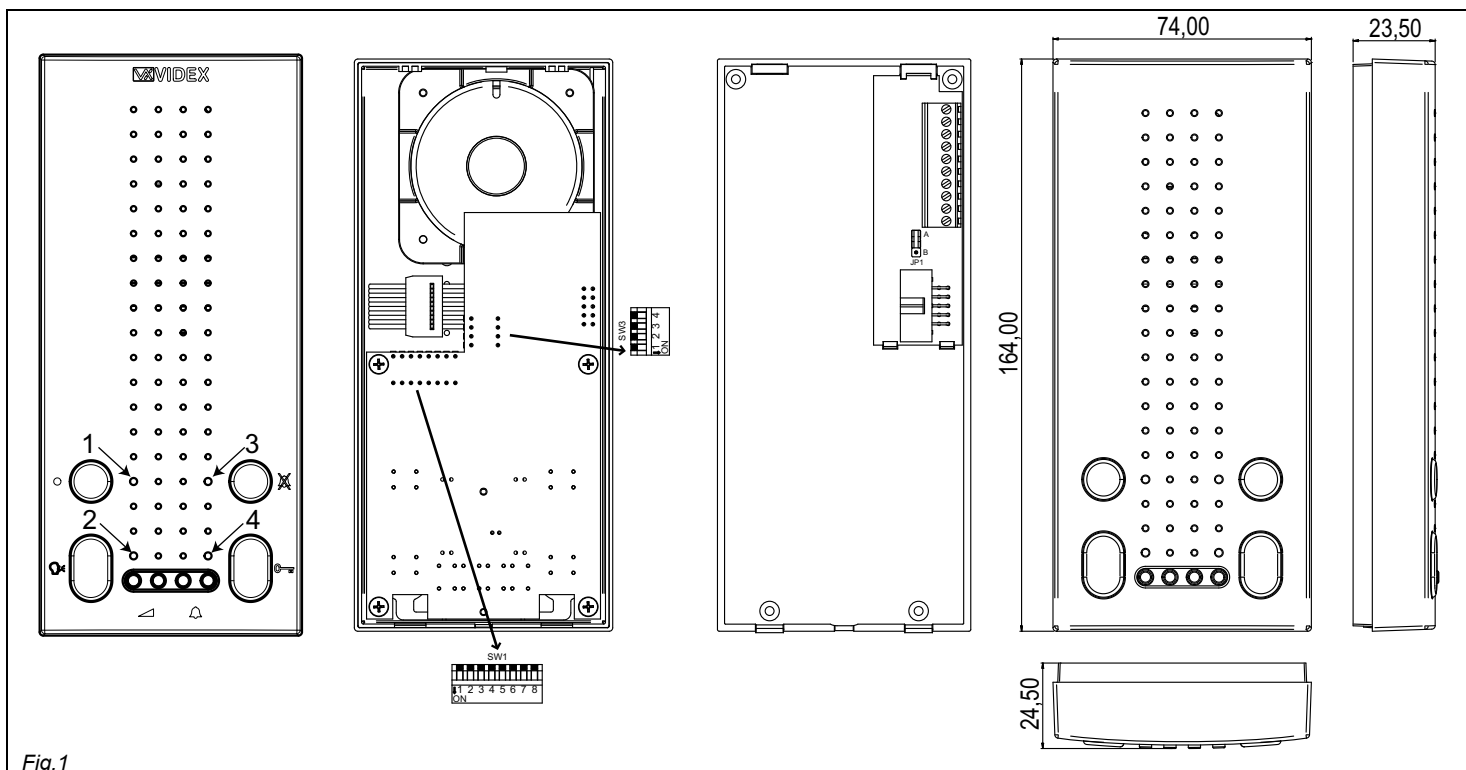# Art.5188   Hands Free Intercom for VX2300

Fig.1

DESCRIPTION

	PUSH BUTTONS, LEDS AND CONTROLS (FIG.1)
●	Bus Relay Button to Activate bus relay board Art.2305. To activate a bus relay press as many times as the address value of the relay.
🗣	*Answer button* - On an incoming call, operation of this button allows the user to answer and converse with the visitor. LED 2 will illuminate.
	Camera recall button - Press as many times as the DEVICE N. of the door station to switch on.
	Switch off button - With the system switched on, momentary operation of the button will switch the unit off. The intercom will also automatically switch off after a time delay if the button is not pressed. LED 2 will switch off.
	Simplex button - Pressing and holding the button for more than 3 seconds will switch the intercom into SIMPLEX speech mode. Press and hold the button to speak to the caller (LED 2 will flash rapidly), release the button to listen (LED 2 will flash slowly). If the button is not pressed for 10 seconds the intercom will switch off. The intercom will revert to duplex speech when another call is made.
✖	*Privacy on-off button:* − If the unit is switched on, press and keep pressed this button for more than 3 seconds to enable/disable the service. The relative LED will illuminate when the privacy service is enabled. − If the unit is switched off, keep this button pressed together with the "speak" button 🗣 until the privacy LED switches ON.
0⎯	*Intercommunicating call button* - For an intercommunicating call, when the intercom is in stand-by, press as many times as the extension or address value to call.
	Door open button - During a call, operation of this button will activate the "door open" relay (NO1, NC1, COM1). LED 4 will illuminate if terminal 6 has been connected to a door contact.
1	Programming LED
2	LED relating to the operation of the answer/switch off/camera recall/simplex button
3	LED relating to the operation of privacy button
4	LED relating to the operation of door open button(powered from the connection terminal "2" & GND "1" on the connection board)
◢	Loudspeaker volume control
🔔	Call tone volume control

PROGRAMMING

The intercom setup consists of the following settings:
- *Number of Rings;*
- *Privacy duration;*
- *Melody selection;*
- *Unit address (1..127, switches 1 to 7 of SW1);*
- *Intercommunication mode (between apartments or within apartment switch 1 of SW3);*
- *Extension address (1..4, switches 2,3 of SW3);*
- *Bus Termination (JP1 jumper on connection board);*

The programming of the number of rings, melody and privacy duration are carried out through the intercom push buttons , all other settings are carried out on the two dip-switch banks (SW1 and SW3) on the rear side of the video monitor. The BUS termination depends on the position of JP1 on the connection board.

Except for when programming the number of rings, it is necessary to temporarily remove the power supply from the unit after making programming changes.

NUMBER OF RINGS, PRIVACY DURATION AND MELODY SELECTION

First of all make a recall to switch on the unit then proceed with the programming operation. To alter the number of rings and select the melody, the intercom must be in program mode. This is achieved by pressing the two following buttons at the same time (left button of the volume control and the right button of the call tone volume control) see Fig.1.When the programming mode is entered LED 1 (Fig.1) starts flashing. This will automatically reset after 20 seconds of idle time.

Number of rings

- When in the programming mode press and hold the "🕭" button, LED 1 will stop flashing and LED 3 (Fig.1) will start to flash showing the number of rings (each flash = 1 ring i.e. 6 flashes = 6 rings)
- Once the value of rings has been reached release the "🕭" button.
- Wait approx 10 seconds for LED 1 to stop flashing to signal that the new value is stored and program mode has exited.

Privacy duration

- When in the programming mode press and hold the "✗" button, LED 1 will stop flashing and LED 3 (Fig.1) will start to flash showing the number of times the button is pressed (each flash = 15 minutes i.e. 8 flashes = 2 hours)
- Once the duration required has been reached release the "✗" button.
- Wait approx 10 seconds for LED 1 to stop flashing to signal that the new value is stored and program mode has exited.

Melody selection

- When in the programming mode, press left or right call tone volume control buttons 🔔 (press the left button to navigate backward or the right button to navigate forward through the melodies selection menù) After each press, the melody will be played (during the melody play the LED1 stops flashing);
- Before pressing again one of the two buttons to select previous (left button) or next (right button) melody, wait for LED1 to start flashing again then press and hold one button until the selected melody is played;
- Once the required melody is reached, Wait approx 10 seconds for LED 1 to stop flashing to signal that the new value is stored and program mode has exited.

Notes

The second melody increases its volume at each ring: first ring starts at minimum volume level and adjusts up to the maximum volume level on the last ring. There are 4 volume levels: Rings after this will all play at full volume.

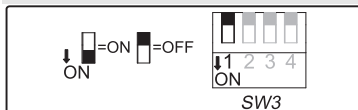### INTERCOM ADDRESS – SW1.1..7

The table above shows how to set the address of the videophone. Considering that ON = 1 and OFF = 0, multiply each digit for the relevant decimal weight then add values obtained to get the address: E.g. as highlighted in the table OFF,ON,OFF,OFF,ON, OFF,ON in binary is equal to 0100101 then multiplying each digit for the relevant decimal weight you obtain the address that is 37.

Switches Status							Binary Code – Decimal Weight							Address
7	6	5	4	3	2	1	64	32	16	8	4	2	1	
OFF	OFF	OFF	OFF	OFF	OFF	ON	0	0	0	0	0	0	1	1
OFF	OFF	OFF	OFF	OFF	ON	OFF	0	0	0	0	0	1	0	2
OFF	OFF	OFF	OFF	OFF	ON	ON	0	0	0	0	0	1	1	3
OFF	OFF	OFF	OFF	ON	OFF	OFF	0	0	0	0	1	0	0	4
OFF	ON	OFF	OFF	ON	OFF	ON	0	1	0	0	1	0	1	37
ON	ON	ON	ON	ON	ON	ON	1	1	1	1	1	1	1	127

Note

The maximum number of units allowed is 100 but the address of each unit can be a value between 1 and 127.
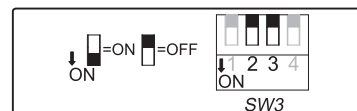Set switch 8 to OFF position.

INTERCOMMUNICATION MODE – SW3.1

This switch establishes the intercommunication mode: in OFF position (default) intercommunication is between units in the same apartment (same addresses but different extension); in ON position the intercommunication is between units in different apartments (different addresses).

On installations where there are more than one intercom/videophone in the same apartment and intercommunication between different apartments is required, only one intercom/videophone may be set with this function (SW3.1=ON, SW3.2=OFF, SW3.3=OFF). The other intercom/videophones in the apartment must be set for local intercommunication with extension addresses "2-4" (slaves). From the intercom/videophone set for intercommunication with other apartments it will be not possible to intercommunicate within the apartment but slave extensions 2-4 will be able to intercommunicate with each other.

EXTENSION NO – SW3.2..3

If the intercommunication between apartments is enabled (switch 1 of SW3 = ON) leave these two switches in default position (both to OFF). Otherwise, if the intercommunication is between the same apartment (switch 1 of SW3 = OFF), set the extension addresses starting always from 1.

2	3	Extension No.
OFF	OFF	1 (default, master)
ON	OFF	2 (slave)
OFF	ON	3 (slave)
ON	ON	4 (slave)

Notes: Set switch "4" to OFF position.

BUS LINE TERMINATION JP1

The factory preset for this jumper is "A" position: termination enabled. In case of more units (intercoms, videophones or video monitors) in a parallel connection (bus wires are connected to the terminals of the first unit then from this to the second and so on up to 4 units max) JP1 must be set to A position only for the last unit in the chain while on all other units must be set to B position (bus termination disabled). In case of units of different type, videophones, video monitor, hands free or standard intercoms etc. remains fixed the rule that the bus termination must be enabled only on the last unit in order of connection.

INTERCOM CONNECTION BOARD
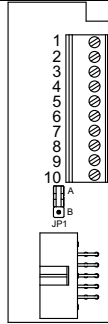
Fig.2

SIGNAL ON CONNECTION TERMINALS

Terminal	Signal	Description
1	GND	*Ground*
2	LED	*Auxiliary LED +12Vdc Input*
3		
4		
5	LB	*Local bell active low input*
6	AL	*Alarm input (not implemented yet)*
7		
8	BUS2	*Bus input*
9		
10	BUS1	*Bus input*

ART.5188 INTERCOM WALL MOUNTING INSTRUCTIONS
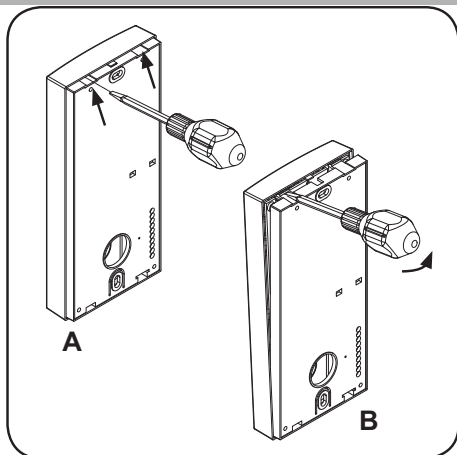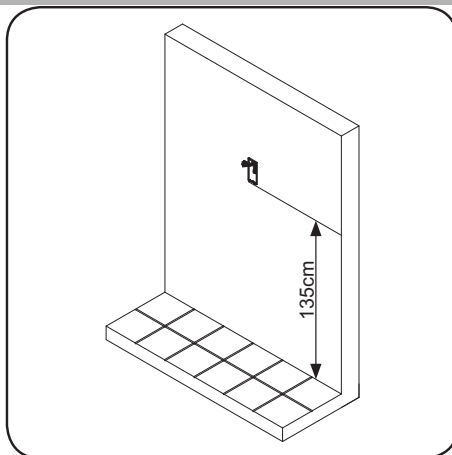
Fig.1

Fig.2
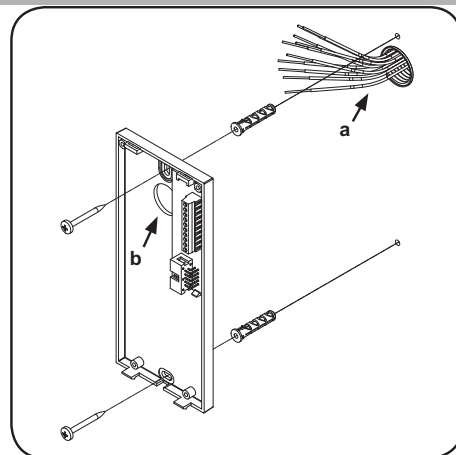
Fig.3
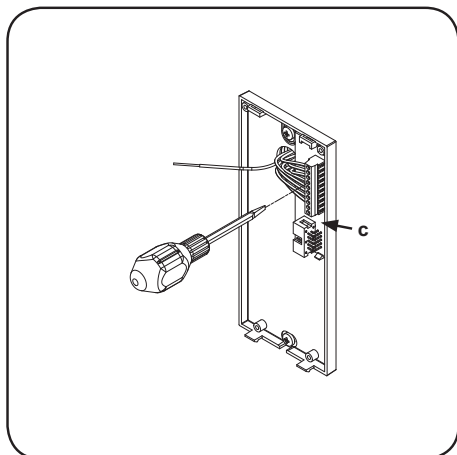
Fig.4
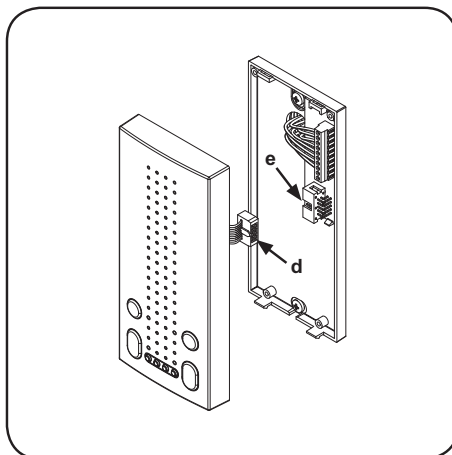
Fig.5
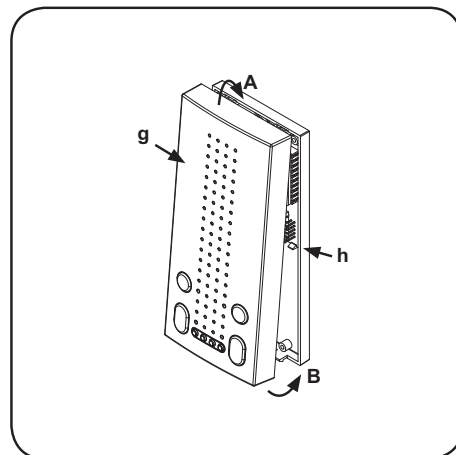
Fig.6

− As shown in Fig 1, looking at the rear of the intercom, insert the tip of a flat blade screwdriver into one of the two openings (Fig **1A**) then slightly move the screwdriver in an upward direction to release the front from the back plate and opening the intercom unit (Fig **1B**).Take care! The back plate of the intercom houses the pcb connection board which is normally connected to the pcb in the front of the intercom by the ribbon cable, the ribbon cable should not be connected when first opened.

− Place the back plate of the intercom against the wall at approximately 135cm (Fig 2) above finished floor level, then mark the fixing holes taking into account that the cable group "**a**" must feed into the opening "**b**" (Fig 3).

− As shown in figure 3, fix the back plate of the intercom to the wall feeding the cable group "**a**" through opening "**b**".

− Using a flat blade screwdriver connect the wires to the pcb connection board "**c**" as shown in Figure 4, according to the installation diagram provided.

− Connect ribbon cable plug "**d**" from the front plate into plug "**e**" on the pcb connection board as shown in Figure 5.

− Close the intercom by hooking the front plate "**g**" to the back plate "**h**" as described below:

▪ Hook the top of the front plate "**g**" to the top of the back plate as shown by pointer "**A**" in Figure 6.

▪ Move the lower side of the front plate "**g**" towards the back plate"**h**" and press until the unit locks into the back plate of the intercom.

To open the intercom once installed, firmly grasp the bottom sides of the front plate cover, pull forward in an upward direction to separate the front cover from the back plate as in Figure 6.

NB. Please take care when opening to avoid damage, remember that the ribbon cable connects the front plate to the back plate connector pcb.

SPECIFICATION

Housing/Mounting	5000 Series Intercoms / direct wall mount
Push buttons	Yes, 4
Programming	Yes, carried out by the dip-switches located on the rear of the videophone
Controls	Loudspeaker and call tone volume
Power Supply	Supplied by the BUS line
Working Temperature	-10 +50 ºC

CUSTOMER SUPPORT INFORMATION
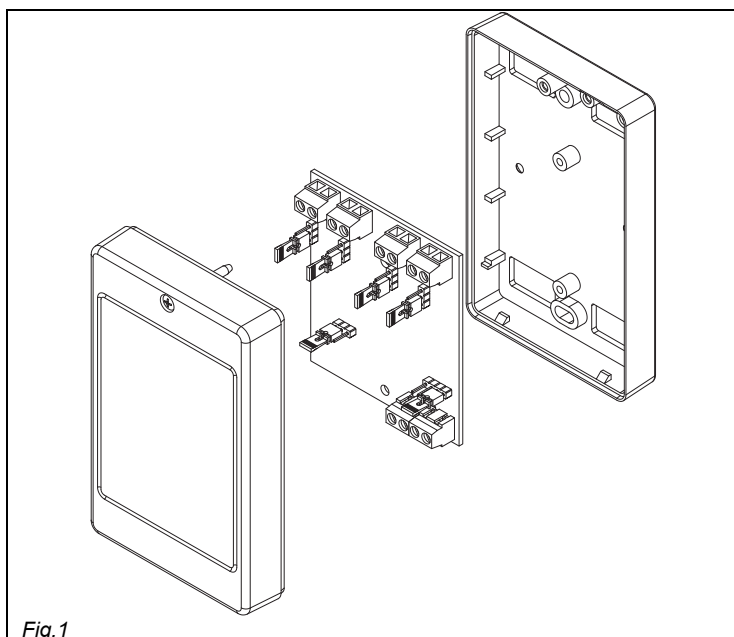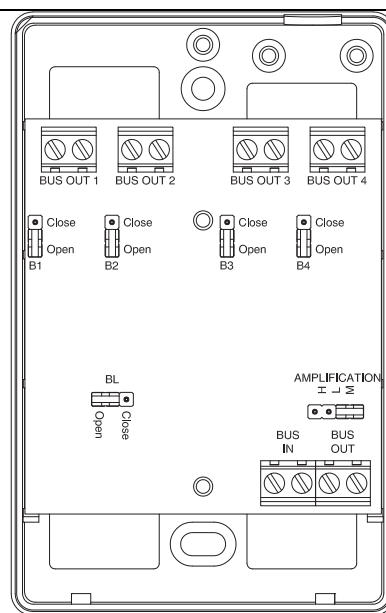
Art.317   Four way distribution box

Fig.1

Fig.2

DESCRIPTION

The unit distributes the bus signal to 4 outputs linked to videophones or intercoms. The distributor has 3 amplification levels (low, medium and high), the amplification only effects the 4 outputs and not the loop through output. The Art.317 also includes a bus isolation feature which isolates the Art.317 from the rest of the bus if there is a short on one of its outputs. This prevents a short in any one apartment compromising the whole system.

CONNECTION TERMINALS AND JUMPERS

Terminal/Jumper	Description
BUS IN	Bus input terminals
BUS OUT	Bus output terminals (loop through to next distributor)
BUS OUT 1	Videophone/Intercom bus output 1
BUS OUT 2	Videophone/Intercom bus output 2
BUS OUT 3	Videophone/Intercom bus output 3
BUS OUT 4	Videophone/Intercom bus output 4
B1	Close/Open bus output jumper for BUS OUT 1. Move to close when BUS OUT 1 is not used.
B2	Close/Open bus output jumper for BUS OUT 2. Move to close when BUS OUT 2 is not used.
B3	Close/Open bus output jumper for BUS OUT 3. Move to close when BUS OUT 3 is not used.
B4	Close/Open bus output jumper for BUS OUT 4. Move to close when BUS OUT 4 is not used.
BL	Close/Open bus through output jumper. If the distributor is the last in line move to close otherwise leave open.
AMPLIFICATION	Set the required level of amplification choosing between low, medium and high

SPECIFICATION

Housing/Mounting	Plastic box 70x110x30mm / direct wall mounting
Push Buttons	N/A
Programming	N/A
Controls	Outputs amplification (3 levels)
Power Supply	Supplied by the BUS line
Working Temperature	-10 +50°C

CUSTOMER SUPPORT INFORMATION
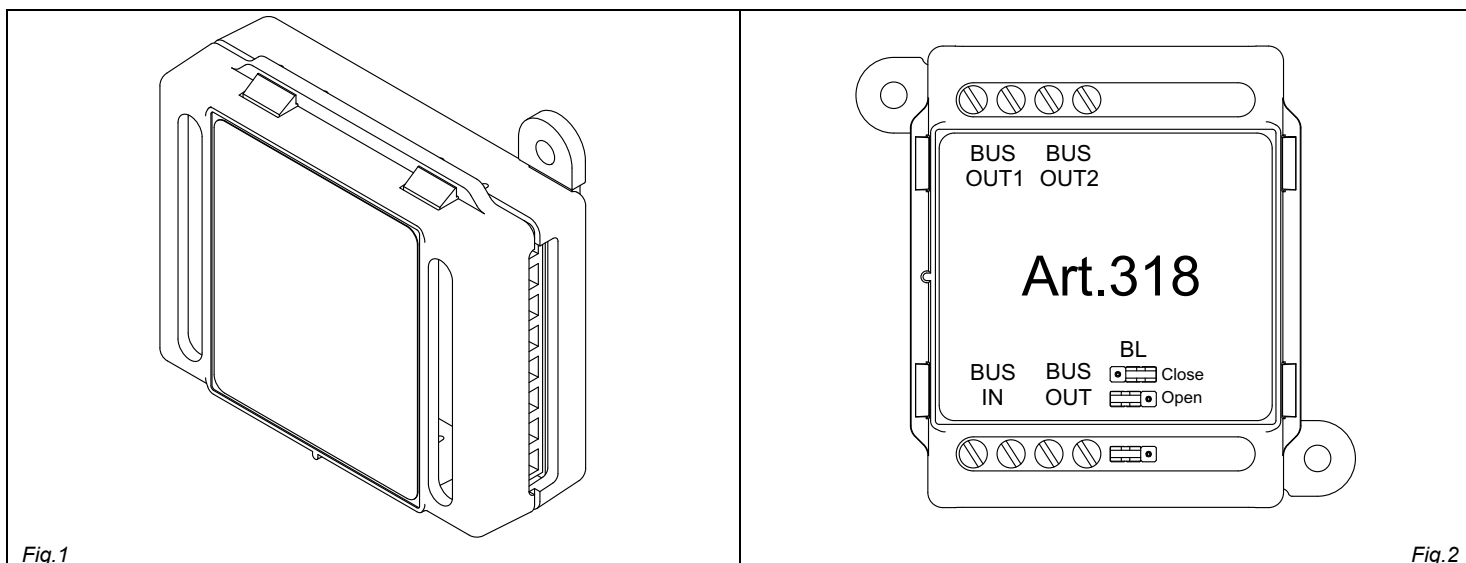
Art.318   Two way passive distribution box

Fig.1

Fig.2

DESCRIPTION

The unit distributes the bus signal to 2 outputs linked to videophones or intercoms. It is a passive distributor, so there is no possibility to adjust the video amplification. The device is suitable for small systems with a maximum distance between door panel and the last monitor of 70 metres.

CONNECTION TERMINALS AND JUMPERS

Terminal/Jumper	Description
BUS IN	Bus input terminals
BUS OUT	Bus output terminals (to next distrbutor)
BUS OUT 1	Videophone/Intercom bus output 1
BUS OUT 2	Videophone/Intercom bus output 2
BL	Close/Open bus output jumper. If the distributor is the last move to close otherwise leave open.

SPECIFICATION

Housing/Mounting	Plastic box 50x60x20mm / direct wall mounting
Push Buttons	N/A
Programming	N/A
Controls	N/A
Power Supply	Supplied by the BUS line
Working Temperature	-10 +50ºC

CUSTOMER SUPPORT INFORMATION
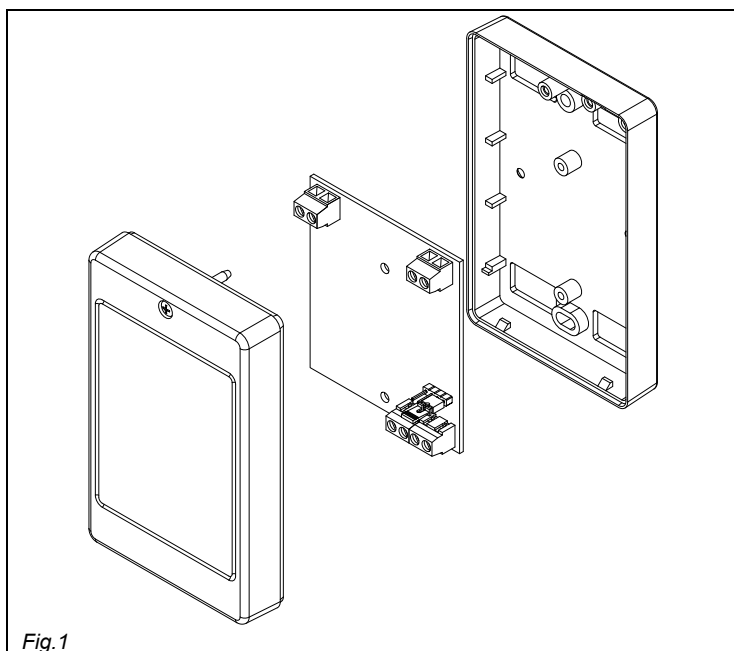
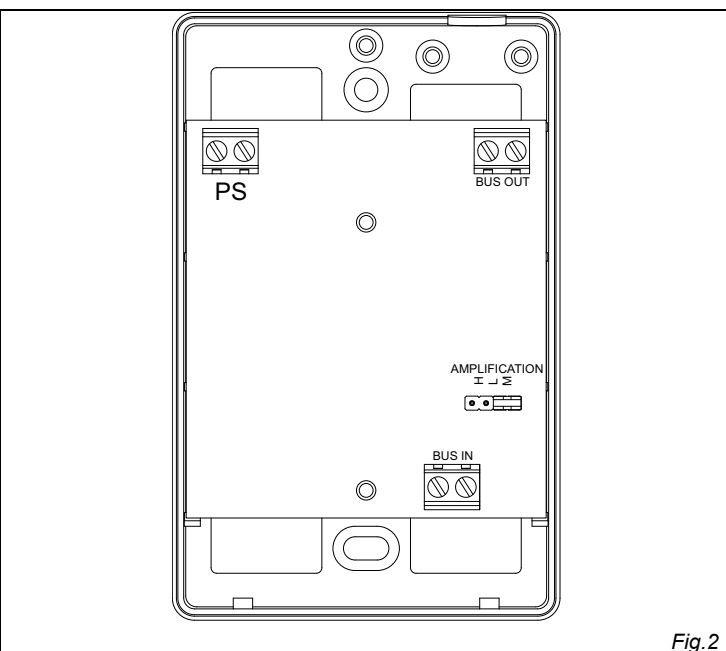# Art.2315 BUS booster and video signal amplifier

Fig.1

Fig.2

DESCRIPTION

The Art.2315 restores the voltage levels of the BUS line and amplifies the video signal (3 levels: H=high, M=medium and L=low). The BUS line must be interrupted and connected to the BUS-IN input, then the signal from the **BUS-OUT** will be amplified. Connect to the PS input a power supply Art.2321.
We suggest the use of the BUS booster in installations which are not using the VIDEX CM2 cable and it is necessary to reach large cables distances. (i.e. Using CAT5, distances greater than 70m).

CONNECTION TERMINALS AND JUMPERS

Terminal/Jumper	Description
BUS IN	BUS line input
BUS OUT	BUS line output
PS	Power supply input (use Art.2321)
AMPLIFICATION	Video signal amplification, 3 levels = high, medium and low

SPECIFICATION

Housing/Mounting	Plastic box 50x60x20mm / direct wall mounting
Push Buttons	N/A
Programming	N/A
Controls	Video signal amplification (3 levels)
Power Supply	Requires local 2321 PSU.
Working Temperature	-10 +50°C

CUSTOMER SUPPORT INFORMATION

Art.2301N Entrances exchanger for VX2300 digital systems

Fig.1

Fig.2
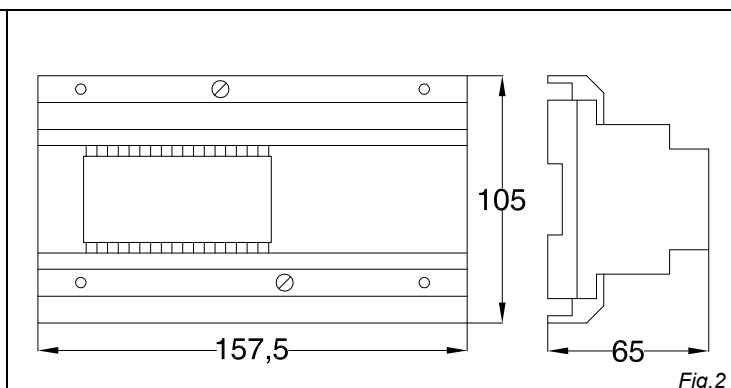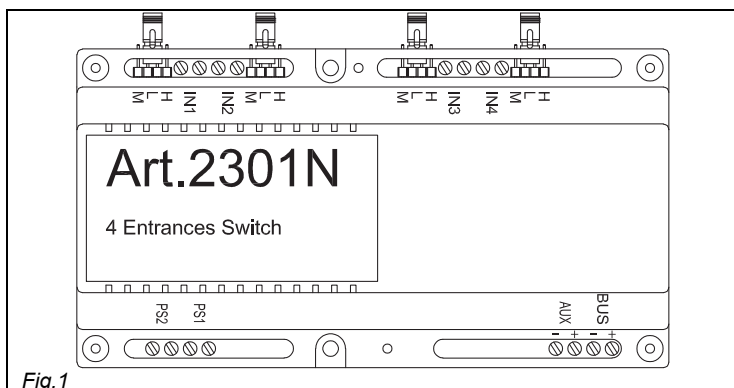
DESCRIPTION

This unit is required for systems with 2 or more entrances (4 maximum). The Art.2301N has 4 inputs (IN1..IN4) each with adjustable amplification ("L" = low, "M" = medium and "H" = high) to compensate for different door station distances. The AUX input enables a second 2301N device to be connected to expand the system up to 8 entrances. *When connecting 2x2301N the polarity of the bus between the Art.2301N's must be observed. When connecting 2x2301N's the BUS output of the first exchanger must be linked to the AUX input of the second exchanger and then onto the apartments. The polarities are not relevant if there is only one 2301N.*
The power supply inputs are PS1 and PS2. The Art.2321/P with its jumper set to V2 should be used. For systems with up to 4 entrances and 50 video-phones only one power supply is required connected to PS1. For larger systems connect a power supply to each of the two inputs (PS1 & PS2).
When 2x2301N, the 2x2321/P power supplies only connect to the 2301N at which the AUX connection is used. (The one supplying the apartments).

CONNECTION TERMINALS AND JUMPERS

Terminal/Jumper	Description
BUS-	BUS Output (observe the polarities only when linked to the AUX input of a second 2301N)
BUS+	
AUX-	Auxiliary BUS input to carry out systems up to 8 entrances linking together two 2301N (observe the polarities when connecting the BUS output of the first exchanger to the AUX of the second BUS- with AUX- and BUS+ with AUX+)
AUX+	
IN1	Door station input 1 (the signal may be amplified by the relative jumper – L=Low, M=Medium and H=High)
IN2	Door station input 2 (the signal may be amplified by the relative jumper – L=Low, M=Medium and H=High)
IN3	Door station input 3 (the signal may be amplified by the relative jumper – L=Low, M=Medium and H=High)
IN4	Door station input 4 (the signal may be amplified by the relative jumper – L=Low, M=Medium and H=High)
PS1	Power Supply input 1 (use Art.2321/P set to V2 voltage level)
PS2	Power Suppy input 2 (use Art.2321/P set to V2 voltage level)

SPECIFICATION

Housing/Mounting	*9 Module A Type DIN box / DIN Bar or directly to the wall*
Push Buttons	*N/A*
Programming	*N/A*
Controls	*Signal amplification on 3 levels for each bus input*
Power Supply	*From specific power supply or from the bus*
Working Temperature	*-10 +50ºC*

CUSTOMER SUPPORT INFORMATION

Art.2305 Extension Relay for VX2300 digital systems

Fig.1

Fig.2
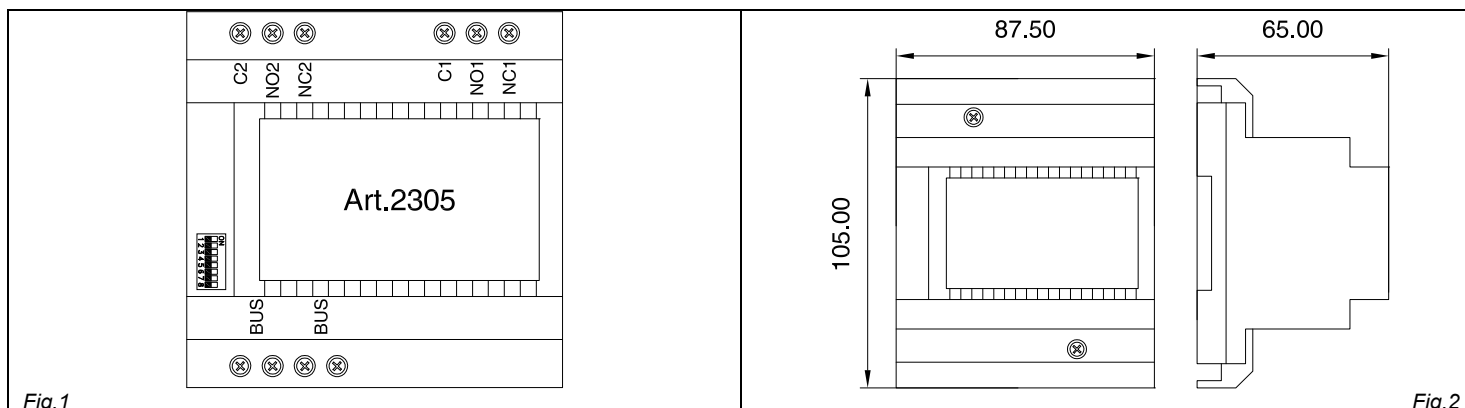
DESCRIPTION

This unit can be connected directly to the bus and has two operating modes: general purpose extension relay and apartment extension relay for additional sounders. As general purpose extension relay, the built-in relays are controlled by the relevant button of the intercom or videophone while as extension sounder relay, relay one will operate on each ring and relay two will operate for the duration of the call.

CONNECTION TERMINALS & DIP-SWITCHES

Terminal/Jumper	Description
BUS	Input/Output bus connection terminals
BUS	Input/Output bus connection terminals
C2	Relay 2 common contact
NO2	Relay 2 normally open contact
NC2	Relay 2 normally closed contact
C1	Relay 1 common contact
NO1	Relay 1 normally open contact
NC1	Relay 1 normally closed contact
DIP-SW	8 way dip-switch to set the relay operating mode

PROGRAMMING

The operating mode is set by switch 8 as shown below. Note: After making changes to the dip-switch settings it is necessary to disconnect it from the bus (or power the system down) and then reconnect before the changes will take affect.

GENERAL PURPOSE EXTENSION RELAY – SWITCH 8 = OFF

When the unit is set as general purpose extension relay, switches 1 to 6 are used to set the relays addresses and activation times.

Switches		Relay 1,2	Switches		Relay 1	Switches		Relay 2
1	2	Addresses	3	4	Time	5	6	Time
OFF	OFF	1,2	OFF	OFF	2 seconds	OFF	OFF	2 seconds
ON	OFF	3,4	ON	OFF	4 seconds	ON	OFF	4 seconds
OFF	ON	5,6	OFF	ON	16 seconds	OFF	ON	16 seconds
ON	ON	7,8	ON	ON	32 seconds	ON	ON	32 seconds

Switch 7 is not used.

For example if switch 1 is set to ON and switch 2 is set to OFF (addresses 3 & 4), pressing the "dot" button on the intercom (or "double dot" on the videophone) 3 times will operate relay one while pressing 4 times will operate relay two.

EXTENSION SOUNDER RELAY – SWITCH 8 = ON

When the unit is set in this mode, switches from 1 to 7 (8 is not used but set to on) are used to set the address of the unit: the address of the unit is set to the same address as the videophone or intercom it that apartment (refer to intercom/videophone SW1 settings).

When the apartment is called, relay 1 will operate 4 times (once for each ring) while relay 2 will energise for the duration of the call (Approx. 60 seconds). The relays revert to the de-energised state if the call is cancelled or the user ends the call.

SPECIFICATION

Housing/Mounting	5 Module A Type DIN box / DIN bar or directly to the wall
Push Buttons	N/A
Programming	Yes, carried out by the 8 way dip-switch
Controls	N/A
Power Supply	from the bus
Working Temperature	-10 +50ºC
Dry contacts relay	Max 24Vac/dc 5A

CUSTOMER SUPPORT INFORMATION

Art.2380   Interface "2 Wire" to "4+1" audio system

Art.2380
Interface "2 Wire" bus to "4+1" audio system

Fig.1   *Fig.2*
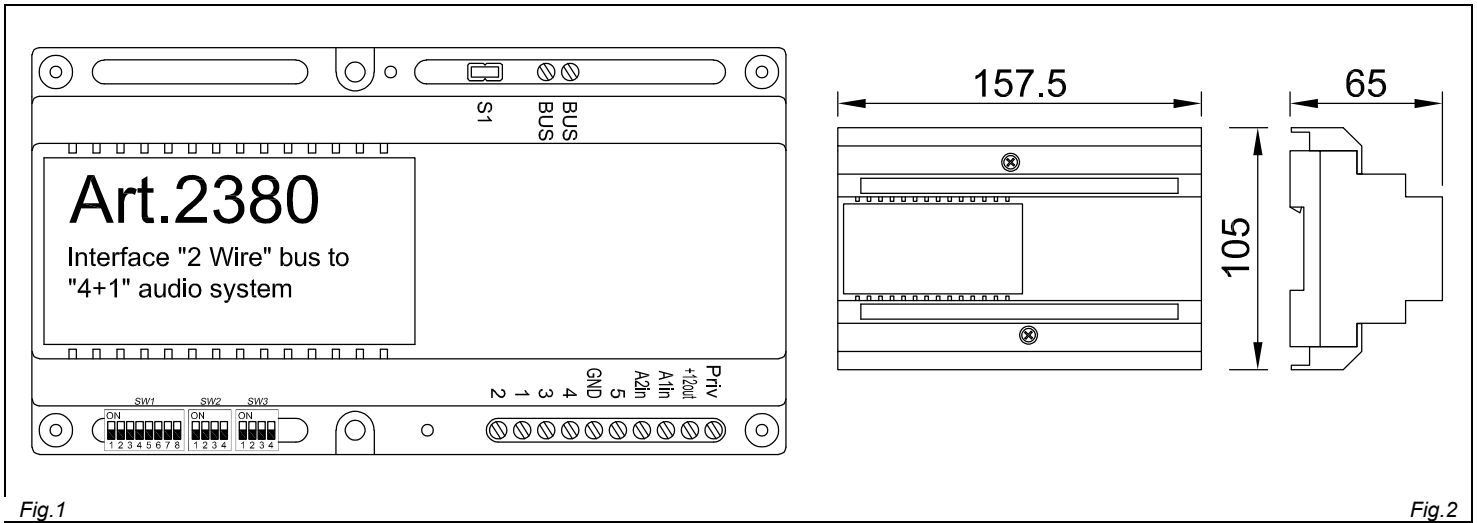
DESCRIPTION

Interface to connect 4+ 1 audio devices to the VX2300 "2 Wire" Bus (For example the Art380 telephone interface or the Art275 PABX interface) Using the items listed above (380, 275) it is possible to use a conventional household telephone as a standard intercom.
The operating mode of the telephone depends on the connected device and on the connections made, refer to the instructions of the Art.380 or Art275.

DIP-SWITCHES AND JUMPERS (FIG.1)	
SW1	Switches from 1 to 7 are used for unit address (from 1 to 127 binary coded). Last switch (8) is not used
SW2	Switches 1,2 and 3 are used to set privacy duration time. Switch 4 is used to set the "Priv" signal operating mode
SW3	Switches 1,2 and 3 are used for intercommunication settings. Switch 4 is not used
S1	Impedance terminator. The jumper must be normally closed. When more videophones/intercoms are connected in parallel (from a peripheral to another and so on until the last) the jumper must be open for all the intercoms except for the last following the order of connection.

PROGRAMMING

After each programming operation carried out through dip-switches or jumpers it is necessary to temporary disconnect the device from the BUS or from the power supply if locally powered.

SW1 – DEVICE ADDRESS

			Switches Status						Binary Code – Decimal Value					Decimal Code
7	6	5	4	3	2	1	64	32	16	8	4	2	1	
OFF	OFF	OFF	OFF	OFF	OFF	ON	0	0	0	0	0	0	1	1
OFF	OFF	OFF	OFF	OFF	ON	OFF	0	0	0	0	0	1	0	2
OFF	OFF	OFF	OFF	OFF	ON	ON	0	0	0	0	0	1	1	3
OFF	OFF	OFF	OFF	ON	OFF	OFF	0	0	0	0	1	0	0	4
OFF	ON	OFF	OFF	ON	OFF	ON	0	1	0	0	1	0	1	37
ON	ON	OFF	OFF	OFF	ON	ON	1	1	0	0	0	1	1	99

The table above shows how to set the address of the device. Considering that ON = 1 and OFF = 0, multiply each digit for the relevant decimal weight then sum the values obtained to get the address: E.g. as highlighted in the table OFF,ON,OFF,OFF,ON, OFF,ON in binary is equal to 0100101 then multiplying each digit for the relevant decimal weight you obtain the address that is 37.

Note
The maximum number of units allowed is 100 but the address of each unit can be a value between 1 and 127.

SW2 – PRIVACY DURATION TIME

Switches Status				Privacy Mode (switch 1)	Privacy Duration (switches 2,3)
4	3	2	1		
	OFF	OFF		*The privacy duration time is set by switches 2 and 3. After the privacy service is enabled, it is disable when the set time expires or the relevant button is pressed again.*	15 minutes
	OFF	ON	OFF		1 hour
	ON	OFF			4 hours
	ON	ON			8 hours
			ON	*No privacy time expiration: the privacy service is enabled or disabled only by the relevant button.*	
OFF				*The "Priv" terminal works as an open collector output to signal the status of the privacy service. When the service is enabled the "Priv" output shorts to ground.*	
ON				**This mode must be set when the Art.2380 is connected in parallel (with the same address) to one or more intercoms/videophones. Make a link between terminals "Priv" and "2".**	

SW3 – INTERCOMMUNICATION SETTINGS

Switches Status				Intercommunication Mode (switch 1)	Extension (switches 2,3)
4	**3**	**2**	**1**		
	OFF	OFF		Intercommunication allowed between videophones (same unit address) inside the same flat. To call an extension pick up the handset then press the "door open" button as many times as the extension value is (Eg. extension 2 two times, 3 three times etc). **If there are more videophones/intercoms connected in parallel, one at least must be set with switches 2 and 3 to OFF**	1
	OFF	ON	OFF		2
	ON	OFF			3
	ON	ON			4
	OFF	OFF	ON	Intercommunication allowed between videophones (different unit address) inside different flats. To call an extension pick up the handset then press the "door open" button as many times as the address value is (Eg. extension 10 ten times, 12 twelve times etc)	

SIGNALS ON CONNECTION TERMINALS

Signal	Description
BUS	BUS connection terminals
BUS	
2	Speech line in
1	Speech line out
3	Speech ground
4	Call output
GND	Ground
5	Active low input "door open" command
A2in	Auxiliary active low input 2. When active (0V) switches the status of privacy service.
A1in	Auxiliary active low input 1. When active (0V) the relay with address 1 of the Art.2305 if installed in the system will activate.
+12Vout	+12Vdc Output
Priv	With SW2.4 = OFF, it works as an open collector output that signals the privacy service status. Internal link to ground when the privacy service is active.
	With SW2.5 = ON, required setting when the Art.2380 is in a parallel (same address) connection with other devices it must be linked to terminal two.

SPECIFICATION

Housing/Mounting	9 Module A Type DIN box
Push Buttons	N/A
Programming	Yes, carried out through dip-switches
Controls	N/A
Power Supply	Supplied from the BUS
Working Temperature	-10 +50ºC

CUSTOMER SUPPORT INFORMATION
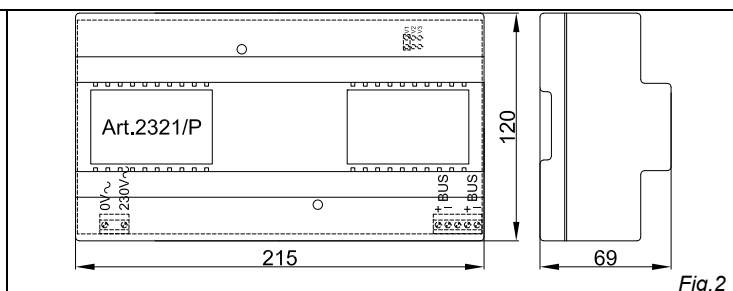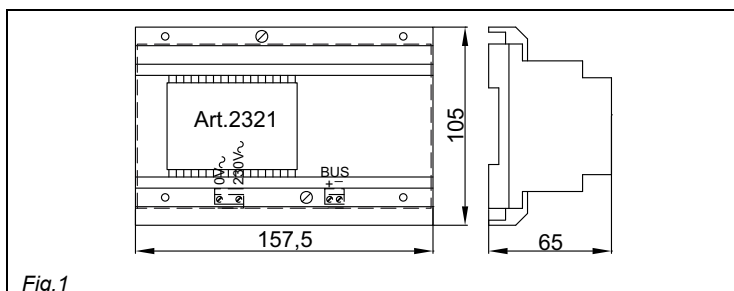
Art.2321-2321/P Power supplies for VX2300

Fig.1

Fig.2

DESCRIPTION

These two units are specific power supplies for VX2300 digital system. The 2321 can be used for systems with 1 entrance up to 20 users while the 2321/P is for systems with more than 1 entrance and up to 100 users.

CONNECTION TERMINALS AND JUMPERS

Terminal/Jumper	Description
0	Mains input
~230V	
BUS +	BUS terminals
BUS -	
BUS +	BUS terminals (only Art.2321/P)
BUS -	
V1	Jumper to adjust the output voltage (only Art.2321/P). V1=Low, V2=Medium, V3=Maximum. Set to maximum (V3) when the unit is used together with 2301N, otherwise leave in a low or medium position
V2	
V3	

CONNECTION TO MAINS AND POWER SUPPLY MOUNTING INSTRUCTIONS

The system must be installed according to national rules in force, in particular we recommend to:
- Connect the system to the mains through an all-pole circuit breaker which shall have contact separation of at least 3mm in each pole and shall disconnect all poles simultaneously;
- The all-pole circuit breaker shall be placed for easy access and the switch shall remain readily operable.

POWER SUPPLY INSTALLATION

- Remove the terminal side covers by unscrewing the retaining screws;
- Fix the power supply to a DIN bar or directly to the wall using two expansion type screws;
- Switch off the mains using the circuit breaker mentioned above and then make the connections as shown on the installation diagrams;
- Check the connections and secure the wires into the terminals;
- Replace the terminal covers and fix them using the relevant screws;
- When all connections are made, restore the mains.

SPECIFICATION

Housing/Mounting	9 Module A Type DIN box (Art.2321) – 15 Module A Type DIN box (Art.2321/P) / DIN Bar or directly to the wall
Push Buttons	N/A
Programming	N/A
Controls	Voltage amplification (3 levels)
Power Supply	230Vac
Working Temperature	-10 +50ºC

CUSTOMER SUPPORT INFORMATION

Art.2322 Power supply converter from BUS line to 12 Vdc
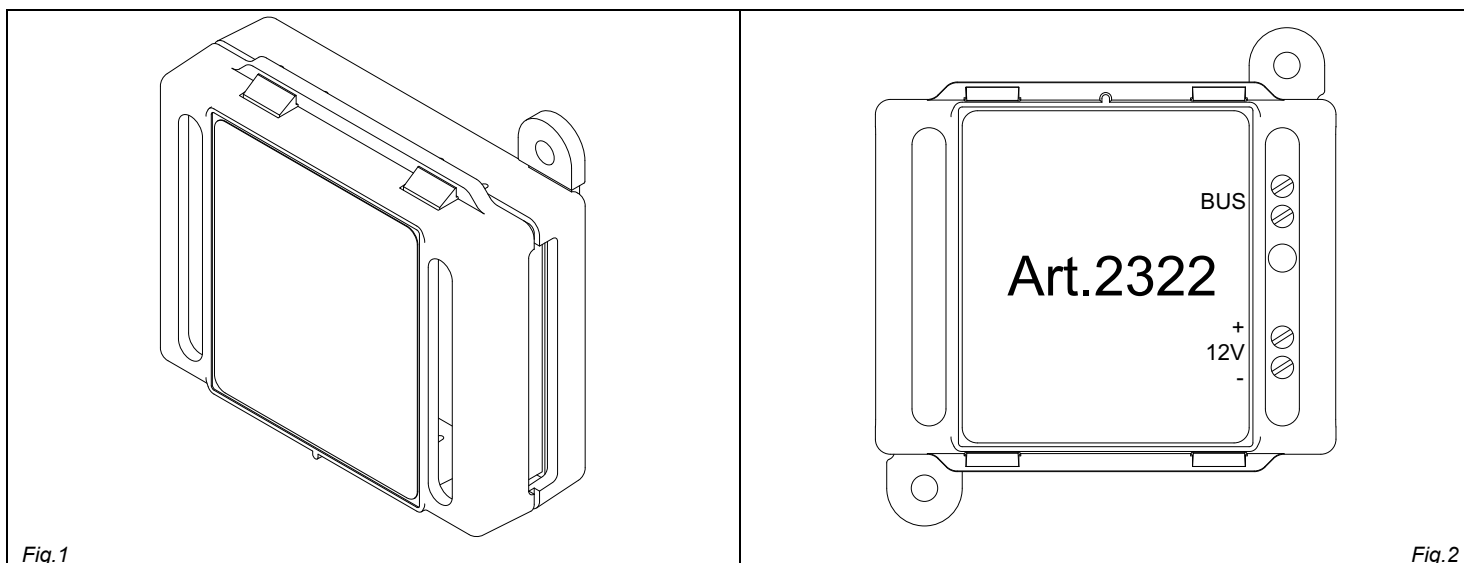
Fig.1

Fig.2

DESCRIPTION

When this unit is connected to the BUS line it generates a +12Vdc – 100mA power source. This unit can be used to supply peripherals such as the Art.4800 without the need for an additional power supply. Please note: The peripherals must not require more than 100mA.

CONNECTION TERMINALS	
Terminal/Jumper	**Description**
BUS	BUS line inputs
BUS	
12V+	12Vdc – 100mA output
12V- (0V)	

SPECIFICATION

Housing/Mounting	Plastic box 50x60x20mm / direct wall mounting
Push Buttons	N/A
Programming	N/A
Controls	N/A
Power Supply	Supplied by the BUS line
Working Temperature	-10 +50ºC

CUSTOMER SUPPORT INFORMATION

General Directions for Installation

CABLE TYPES AND CROSS SECTIONAL AREAS

The VX2300 digital system can use several types of cables but depending on their specification will allow different distances up 400 meters maximum. We do not recommend the use of shielded cables because of the high eddy capacitance. It is also not advised to double up on cables as this will also increase the capacitance. The following table specifies values of resistance, capacitance and maximum distances achievable for several types of cables (capacitance and resistance values are referring to 100 metres of cable).

Cable Type	Section (mm^2)	Resistance (Ohm)	Capacity (nF)	*Maximum Distance (meters)
VIDEX CM2	0.75	3.2	8	200m
CAT5 UTP/CW1308	0.22	8	4.9	70m
Std Telephone Cable	0.28	6.5	5.5	100m
**Two wire	0.8 / 1	2	6.5	70m

*   Between the power supply and the furthest door station or between the power supply and the furthest videophone.
** In case of projects where it is necessary to reuse existing cables that could be cabled together with mains or other power cables, check in advance the practicability of the system: if the system cables are cabled together with mains or other power cables, the system is directly exposed to electromagnetic interference that may cause noises on audio/video and lost of functionality over digital communications.

In case of use of cables not in conformity with above specification it is possible to experience deterioration of digital and video signals. We suggest to use twisted cables with maximum resistance of 10 Ohm/100m for each wire (between the farthest door station and the farthest videophone) and maximum capacitance of 40nF (this value must be computed considering all the cables used in the system; the capacitance/metres value is normally specified on the cable package or directly on the cable).

BUS DEVICES SETUP AND VIDEO DISTRIBUTION

– Any device on the system (door station, intercom, videophone, relay etc.) for which the programming is carried out through one or more dip-switches, to store the new setup, must be disconnected from the power supply for 1 minute at least.
– When you have more than one device in the same apartment, all the devices must be connected to the same video distributor (Art.317): this means that you cannot use two video distributors Art.318 for one apartment where you have 4 videophones/intercoms.

HOW TO CONNECT LOCAL POWER SUPPLY

The drawing below shows how to connect a local power supply when required (i.e. when you have 4 videophones with the same address that must be switched on at the same time). In both cases switch 4 of SW3 must be set to the ON position.
NOTE ! OBSERVE CONNECTION POLARITIES AS SHOWN IN THE DIAGRAM BELOW.

Art.3381

SW3

SW2

SW1

Art.3980

Open

Bus Termination

Close

Local Bell

Extension N.
Videophone N. 1

Art.2321

0V~
230V~

BUS
+ −

N.B.
Dopo ogni cambiamento nella programmazione del posto esterno, del videocitofono o del relè, è necessario togliere l'alimentazione al sistema e ripristinarla affinchè le variazioni vengano recepite dai rispettivi dispositivi.

After each change on the programming of the door station, videophone or any other device connected to the system it is necessary to restart the system (power off then power on).

BALANCE

Art.4333-1

(A)

ON
1 2 3 4 5 6

BUS
BUS
PTE
GND
GND
NO
C
+C
VAUX
NC

Push to Exit

12Vac

SE

Title: .		Data creazione: 19/07/2008	Foglio
Titolo: .		Data modifica: 08/04/2009	1 / 1

Art.5488

Extension N.
Videophone N. 1

to Art.5488

Local
Bell

N.B.
Dopo ogni cambiamento nella programmazione
del posto esterno, del videocitofono o del relè, è
necessario togliere l'alimentazione al sistema e
ripristinarla affinchè le variazioni vengano
recepite dai rispettivi dispositivi.

After each change on the programming of the
door station, videophone or any other device
connected to the system it is necessary to
restart the system (power off then power on).

Art.2321

0V~
230V~

BUS
+ -

Art.4333-1

BALANCE

(A)

ON
1 2 3 4 5 6

BUS
BUS
PTE
GND
GND
NO
C
+C
VAUX
NC

Push to Exit

12Vac

SE

Title: CESVK-1/ECLIPSE	Data creazione: 19/07/2008	Foglio
Titolo:	Data modifica: 08/04/2009	1 / 1

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Note:

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Art.3381

SW3
1 2 3 4 ON

SW2
1 2 3 4 ON

Open
Bus Termination
Close

SW1
1 2 3 4 5 6 7 8 ON

Art.3980

1 2 3 4 5 6 7 8 9 10

11 12 13 14 15 16 17 18

Extension N.1
Videophone N.1

Local Bell

Art.3381

SW3
1 2 3 4 ON

SW2
1 2 3 4 ON

Open
Bus Termination
Close

SW1
1 2 3 4 5 6 7 8 ON

Art.3980

1 2 3 4 5 6 7 8 9 10

11 12 13 14 15 16 17 18

Extension N.1
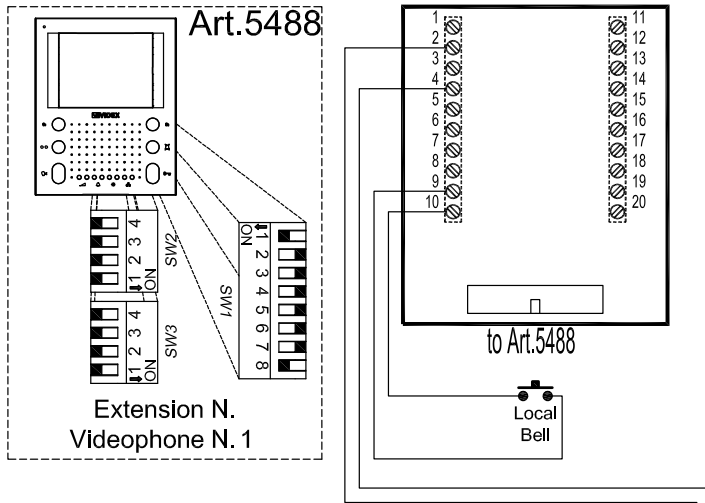Videophone N.2

Local Bell

N.B.
Dopo ogni cambiamento nella programmazione del posto esterno, del videocitofono o del relè, è necessario togliere l'alimentazione al sistema e ripristinarla affinchè le variazioni vengano recepite dai rispettivi dispositivi.

After each change on the programming of the door station, videophone or any other device connected to the system it is necessary to restart the system (power off then power on).
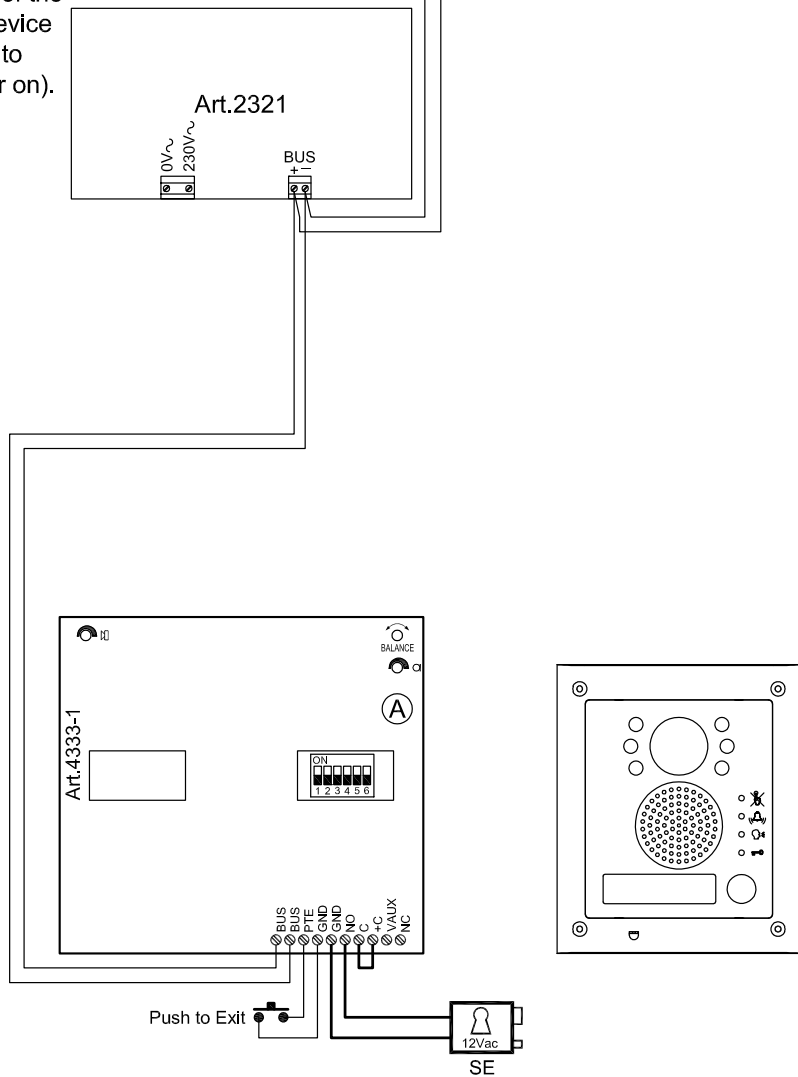
Art.2321

0V~ 230V~

BUS
+ −

Art.4333-1D

BALANCE

(A)

ON
1 2 3 4 5 6

BUS BUS PTE GND GND NO C +C VAUX NC

Push to Exit

12Vac

SE

Art.5488

Art.5488

Local Bell

Local Bell

to Art.5488

to Art.5488

Extension N.1
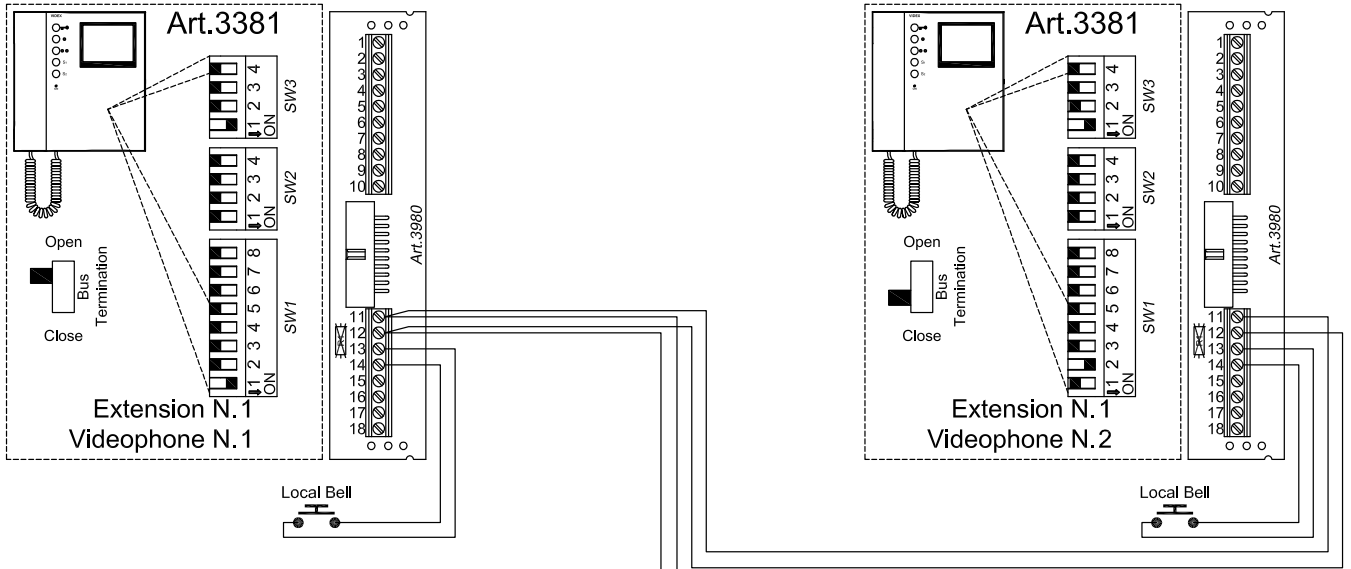Videophone N.1

Extension N.1
Videophone N.2

N.B.
Dopo ogni cambiamento nella programmazione
del posto esterno, del videocitofono o del relè, è
necessario togliere l'alimentazione al sistema e
ripristinarla affinchè le variazioni vengano
recepite dai rispettivi dispositivi.

After each change on the programming of the
door station, videophone or any other device
connected to the system it is necessary to
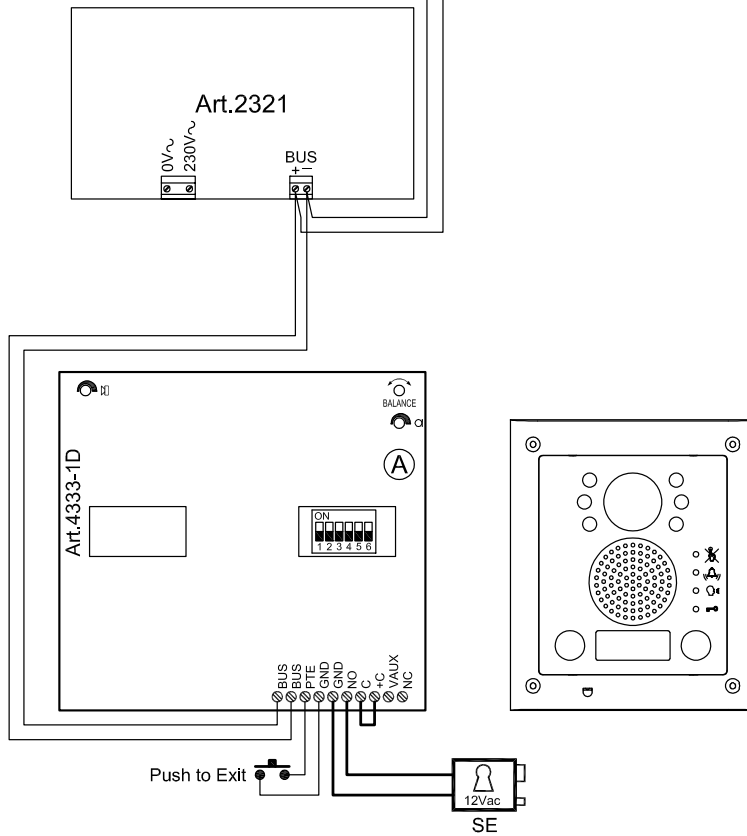restart the system (power off then power on).

Art.2321

0V~
230V~

BUS
+ —

Art.4333-1D

BALANCE

(A)

ON
1 2 3 4 5 6

BUS
BUS
PTE
GND
GND
NO
+C
VAUX
NC

Push to Exit

12Vac

SE

To videophones 6 and 7
Ai videocitofoni 6 e 7

Art.318

Art.3381

SW3
SW2
SW1
Open
Bus Termination
Close
Art.3980
Extension N. 1
Videophone N. 4
Local Bell

Art.3381

SW3
SW2
SW1
Open
Bus Termination
Close
Art.3980
Extension N. 1
Videophone N. 5
Local Bell

Art.5488

SW2
SW1
SW3
Extension N. 1
Videophone N. 3

to Art.5488
Local Bell

Art.3381

SW3
SW2
SW1
Open
Bus Termination
Close
Art.3980
Extension N. 1
Videophone N. 1
Local Bell

Art.2321
0V~
230V~
BUS

Art.317
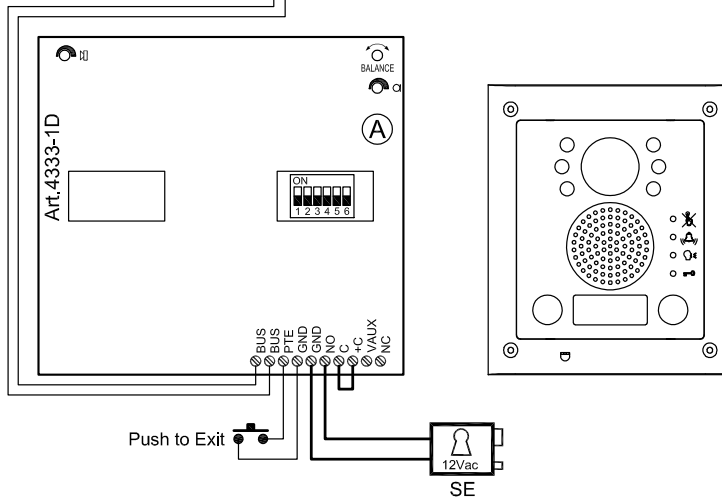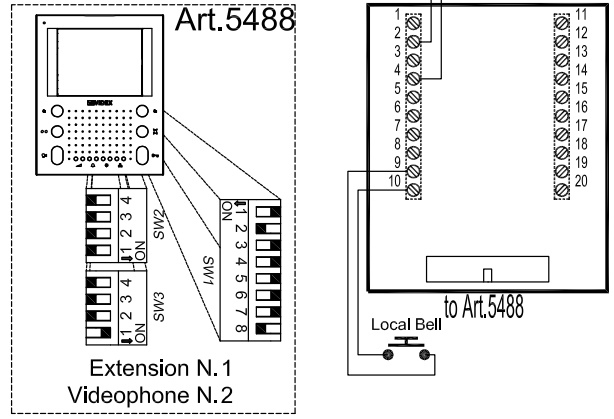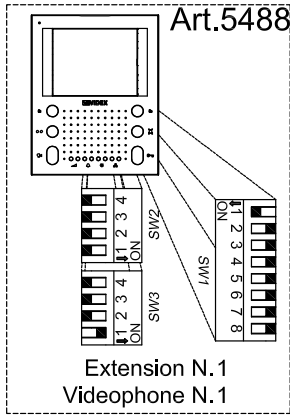BUS OUT 1
BUS OUT 2
BUS OUT 3
BUS OUT 4
CLOSE BUS LINE
OUT

N.B.
Dopo ogni cambiamento nella programmazione del posto esterno, del videocitofono o del relè, è necessario togliere l'alimentazione al sistema e ripristinarla affinchè le variazioni vengano recepite dai rispettivi dispositivi.

After each change on the programming of the door station, videophone or any other device connected to the system it is necessary to restart the system (power off then power on).
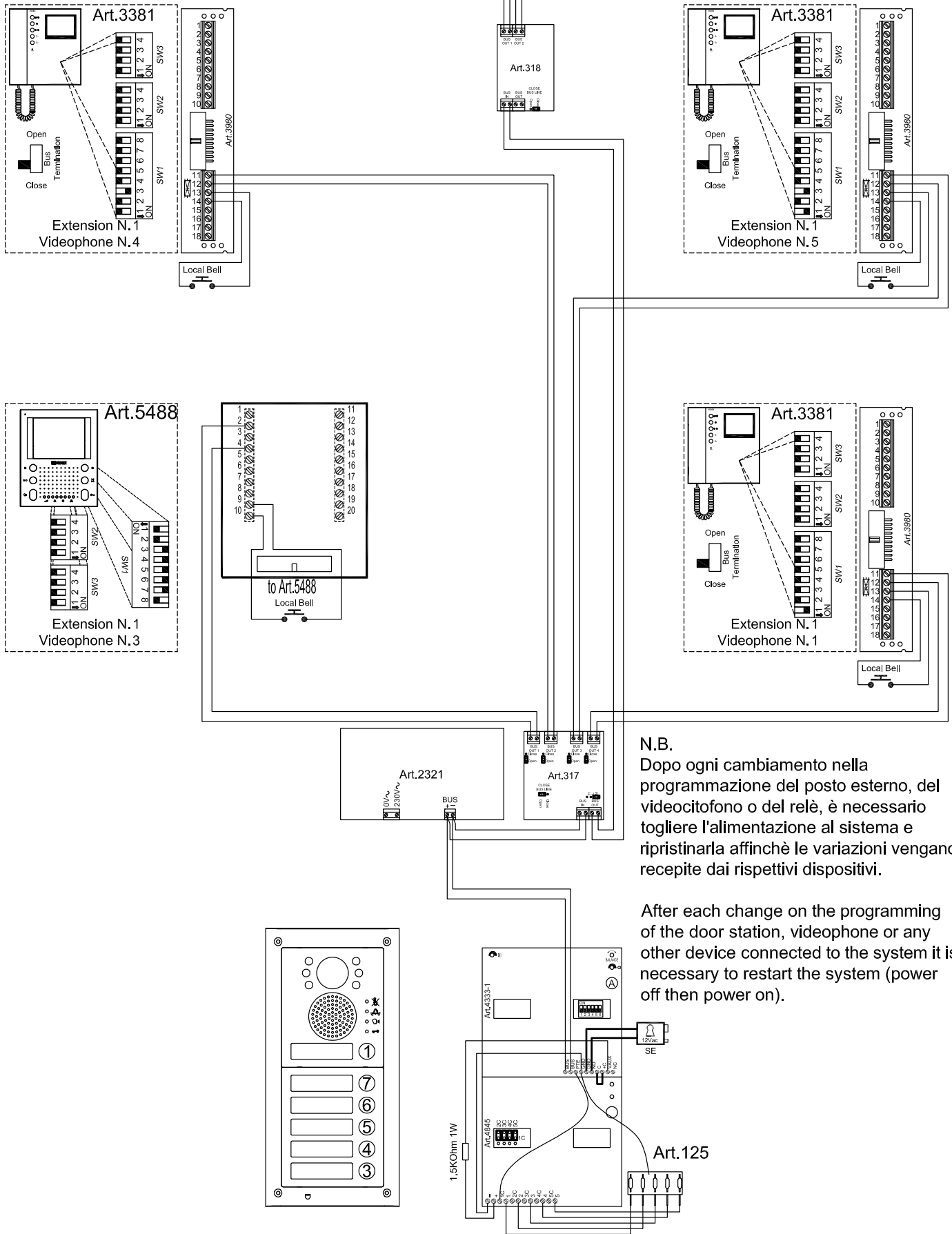
Art.4333-1

12Vac
SE

1,5KOhm 1W

Art.4845

Art.125

①
⑦
⑥
⑤
④
③

Art.3381

SW3

SW2

Open

Bus Termination

Close

SW1

Extension N.1
Videophone N.1

Art.3980

Local Bell

Art.3381

SW3

SW2

Open

Bus Termination

Close

SW1

Extension N.1
Videophone N.2

Art.3980

Local Bell

N.B.
Dopo ogni cambiamento nella programmazione del posto esterno, del videocitofono o del relè, è necessario togliere l'alimentazione al sistema e ripristinarla affinchè le variazioni vengano recepite dai rispettivi dispositivi.

After each change on the programming of the door station, videophone or any other device connected to the system it is necessary to restart the system (power off then power on).
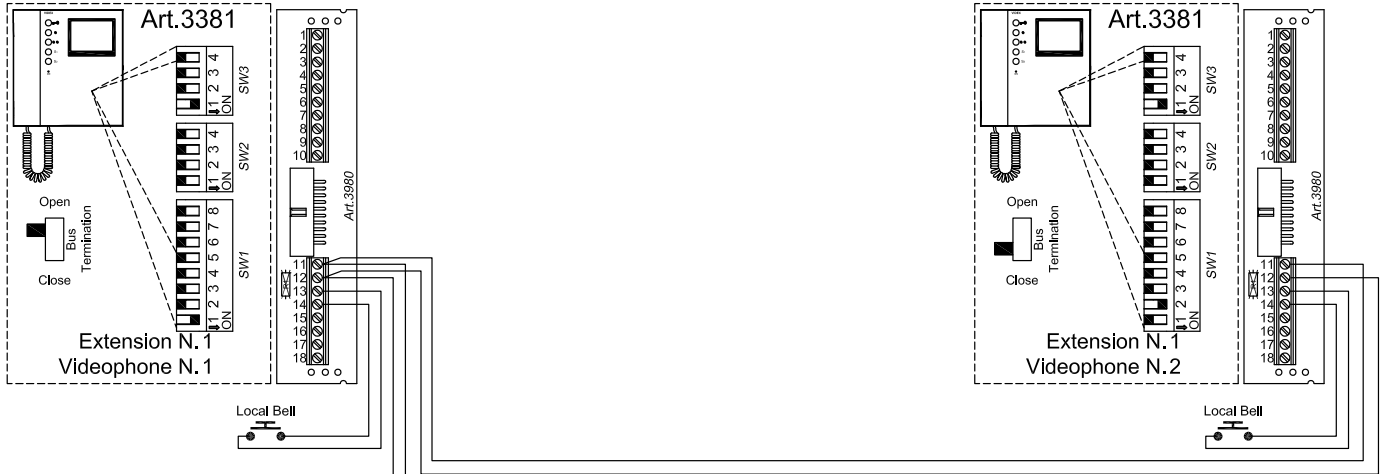
Fare attenzione alle polarità della connessione tra alimentatore e scambiatore
Take care to the polarity between the power supply and the exchanger

IN2 IN1   IN4 IN3

Art.2321

Art.2301N

0V~
230V~

BUS
+ -

PS2 PS1

AUXBUS

BALANCE

Art.4333-1D

①

Push to Exit

ON
1 2 3 4 5 6

12Vac
SE

BUS BUS PTE GND GND NO C +C VAUX NC

BALANCE

Art.4333-1D

②

Push to Exit

ON
1 2 3 4 5 6

12Vac
SE

BUS BUS PTE GND GND NO C +C VAUX NC

Title: ESVK/CESVK-2 with additional door station and entrances exchanger.	Data creazione: 23/10/2008	Foglio
Titolo: ESVK/CESVK-2 con posto esterno addizionale e scambiatore di ingressi	Data modifica: 25/11/2009	1 / 1

Videx Electronics S.p.A.
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Phone: +39 0734 631669 - Fax +39 0734 631669
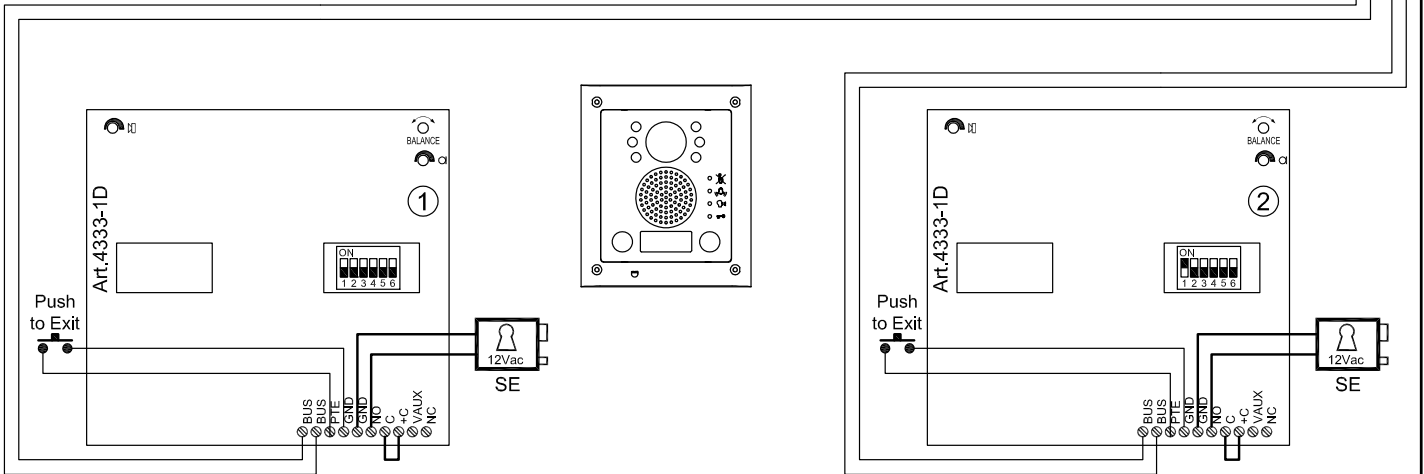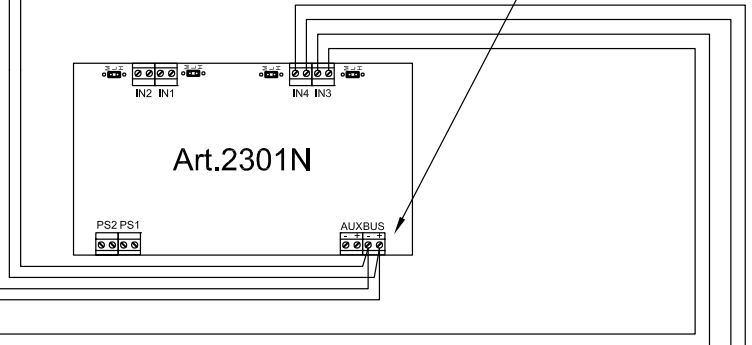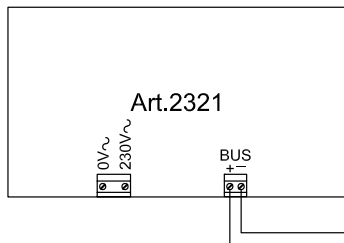www.videx.it - info@videx.it

Notes:
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Note:
.

Autore:
Marco Rongoni

Cod.File:
spesvk005.dwg

Art.2321

Art.2321

Art.2321

Art.3381

Art.3381

Art.3381

Art.3381

SW3
SW2
SW1
Open
Bus Termination
Close
Art.3980

Extension N. 1
Videophone N. 1

Extension N. 2
Videophone N. 1

Extension N. 3
Videophone N. 1

Extension N. 4
Videophone N. 1

Local Bell
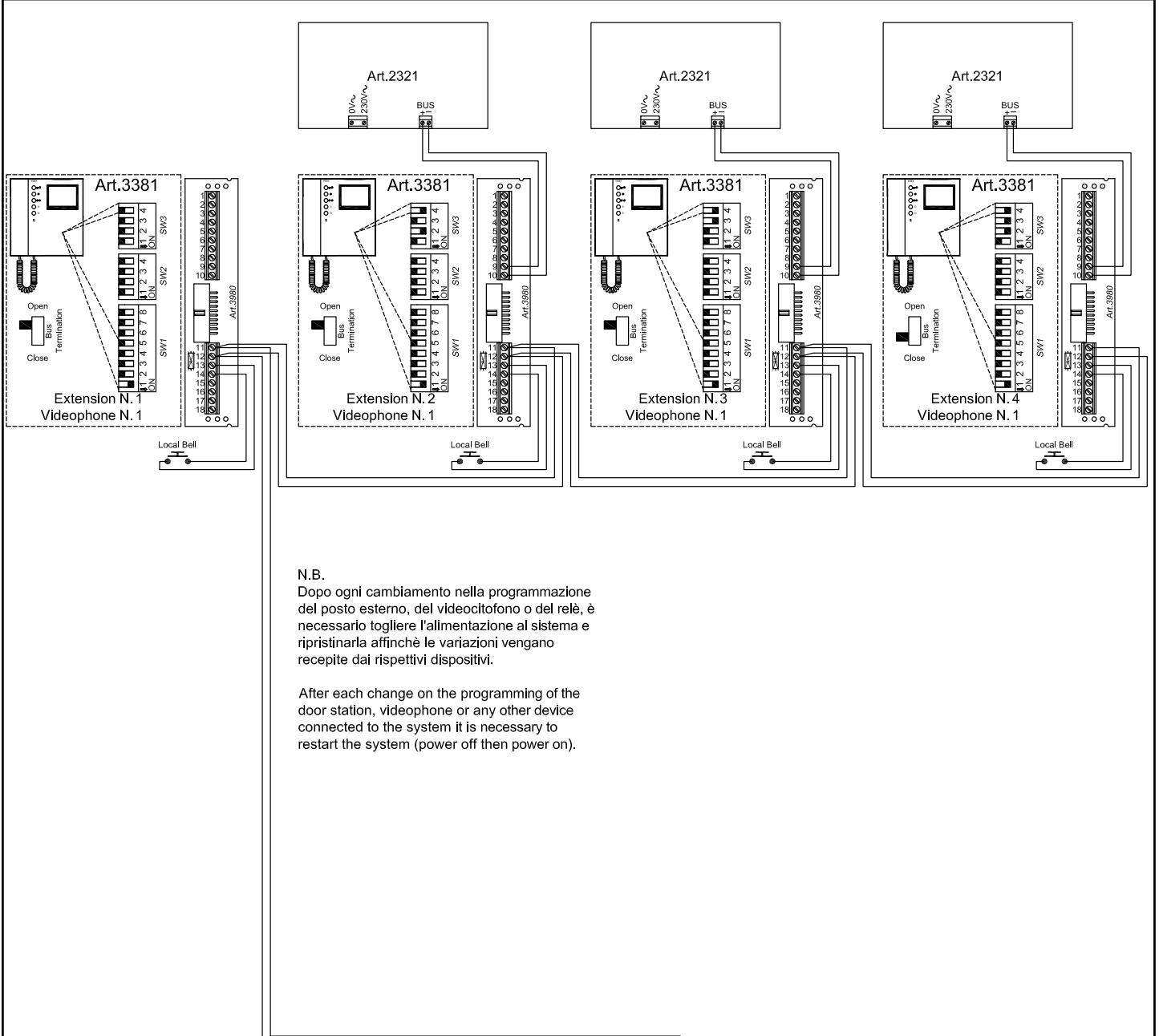
N.B.
Dopo ogni cambiamento nella programmazione del posto esterno, del videocitofono o del relè, è necessario togliere l'alimentazione al sistema e ripristinarla affinchè le variazioni vengano recepite dai rispettivi dispositivi.

After each change on the programming of the door station, videophone or any other device connected to the system it is necessary to restart the system (power off then power on).

Art.2321

Art.4333-1

Push to Exit

12Vac
SE

| | | Data creazione 19/07/2008 | Foglio 1 / 1 |

Title: ESVK-1 with 3 additional videophones and 3 additional power supplies
Titolo: ESVK-1 con 3 videocitofoni addizionali e 3 alimentatori addizionali

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Data modifica 08/04/2009
Autore Marco Rongoni
Cod.File esvk006.dwg

Notes: The additional power supplies are required to switch on all the videophones during the call
Note: Gli alimentatori addizionali sono richiesti per accendere contemporaneamente alla chiamata tutti i videocitofoni

PrtCode:ESVK_ENG_1.6.doc – Pag.36/44   25/11/2009   Rev.1.6

Art.3381

SW3

SW2

Open

Bus
Termination

Close

SW1

Extension N. 1
Videophone N. 1

Art.3980

S1

BUS
BUS
LED-
LED+
GND
GND
AL
LB

Art.3181

SW1

SW2

SW3

Extension N. 2
Intercom N. 1

Local Bell

N.B.
Dopo ogni cambiamento nella programmazione del posto esterno, del videocitofono o del relè, è necessario togliere l'alimentazione al sistema e ripristinarla affinchè le variazioni vengano recepite dai rispettivi dispositivi.
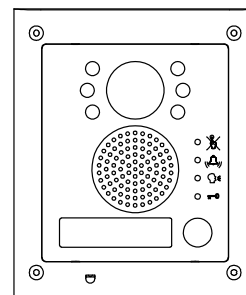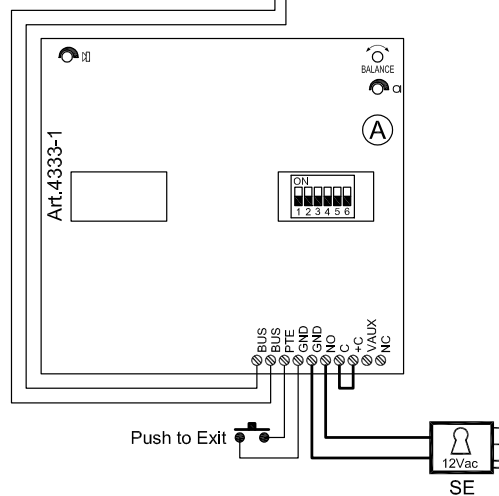
After each change on the programming of the door station, videophone or any other device connected to the system it is necessary to restart the system (power off then power on).

Art.2321

0V~
230V~

BUS
+ −

Art.4333-1

BALANCE

ON
1 2 3 4 5 6

(A)

BUS
BUS
PTE
GND
GND
NO
C
+C
VAUX
NC

Push to Exit

12Vac

SE

Art.5488

Extension N. 1
Videophone N. 1

to Art.5488

Local
Bell

Art.3181

S1

BUS
BUS
LED-
LED+
GND
GND
AL
LB

Extension N. 2
Intercom N. 1

Art.2321

0V~
230V~

BUS
+ −

N.B.
Dopo ogni cambiamento nella programmazione del posto esterno, del videocitofono o del relè, è necessario togliere l'alimentazione al sistema e ripristinarla affinchè le variazioni vengano recepite dai rispettivi dispositivi.
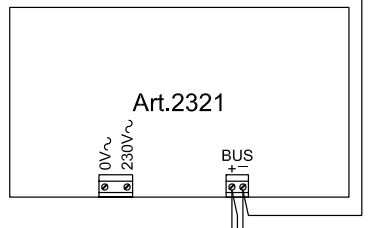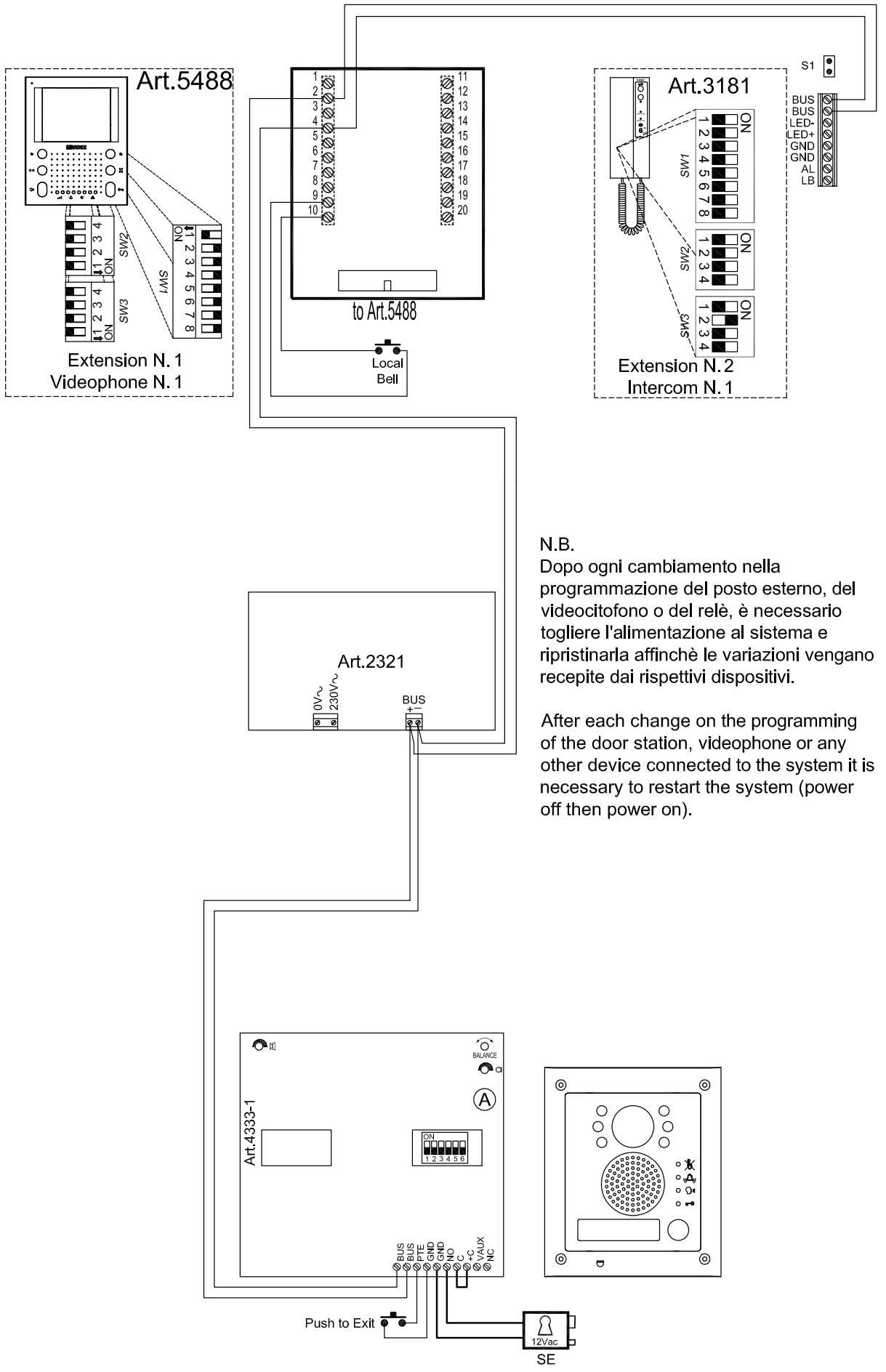
After each change on the programming of the door station, videophone or any other device connected to the system it is necessary to restart the system (power off then power on).

BALANCE

Art.4333-1

(A)

ON
1 2 3 4 5 6

BUS
BUS
PTE
GND
GND
C
NO
+C
VAUX
NC

Push to Exit

12Vac
SE

Art.3381

SW3
SW2
SW1

Art.3980

Open
Close
Bus Termination

Extension N.1
Videophone N.1

Local Bell

Art.3381

SW3
SW2
SW1

Art.3980

Open
Close
Bus Termination

Extension N.2
Videophone N.1

Local Bell

N.B.
Dopo ogni cambiamento nella programmazione del posto esterno, del videocitofono o del relè, è necessario togliere l'alimentazione al sistema e ripristinarla affinchè le variazioni vengano recepite dai rispettivi dispositivi.

After each change on the programming of the door station, videophone or any other device connected to the system it is necessary to restart the system (power off then power on).
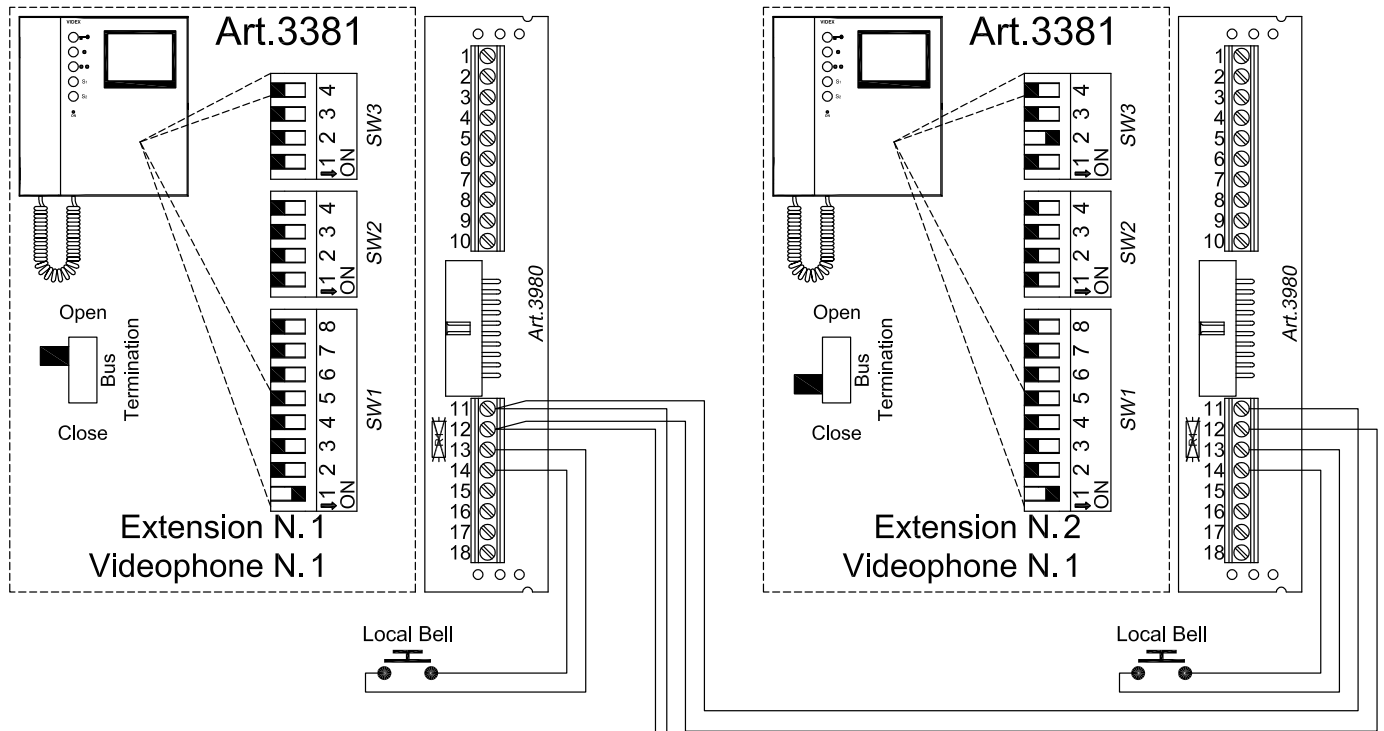
Art.2321

0V~ 230V~

BUS
+ —

Art.4333-1

BALANCE

ON
1 2 3 4 5 6

Push
to Exit

12Vac
SE

BUS BUS PTE GND GND NO C +C VAUX NC

Art.5488

Extension N.1
Videophone N.1

to Art.5488

Local Bell

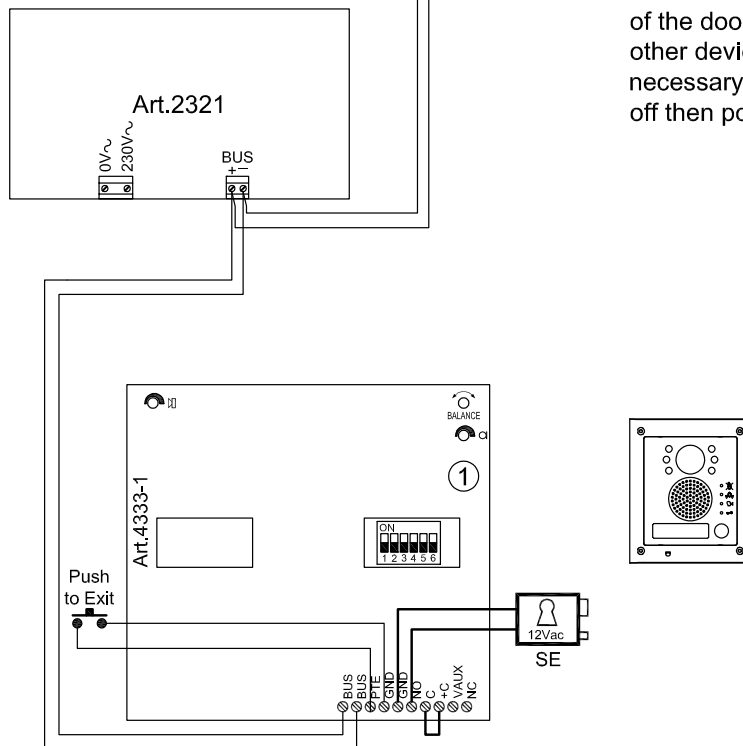Art.5488

Extension N.2
Videophone N.1

to Art.5488

Local Bell

N.B.
Dopo ogni cambiamento nella programmazione del posto esterno, del videocitofono o del relè, è necessario togliere l'alimentazione al sistema e ripristinarla affinchè le variazioni vengano recepite dai rispettivi dispositivi.
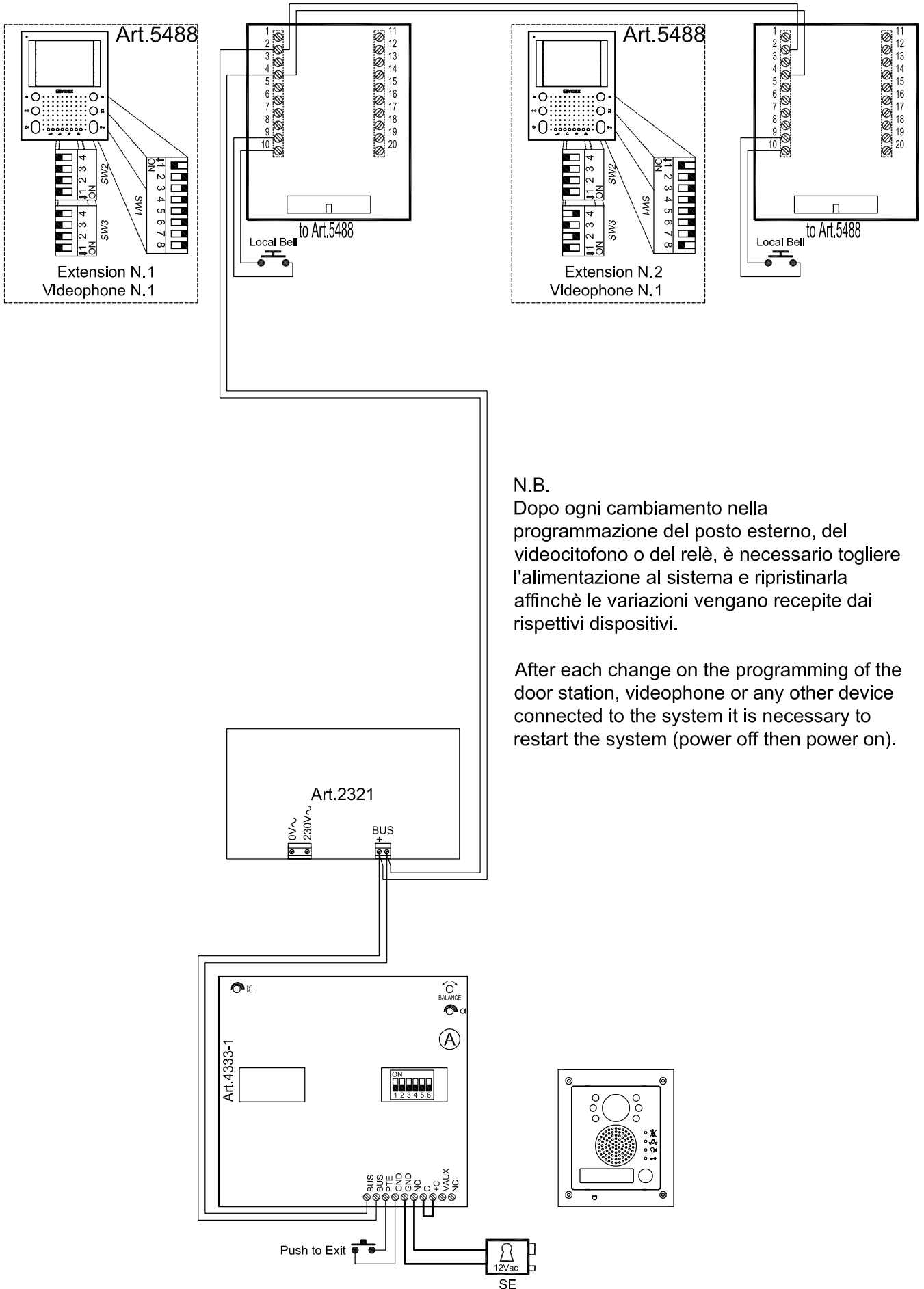
After each change on the programming of the door station, videophone or any other device connected to the system it is necessary to restart the system (power off then power on).

Art.2321

0V~
230V~

BUS
+ −

Art.4333-1

BALANCE

(A)

ON
1 2 3 4 5 6

BUS BUS PTE GND NO GND C +C VAUX NC

Push to Exit

12Vac
SE

Title:
CESVK-1/ECLIPSE, CESVK-1S/ECLIPSE with additional monitor (setup to switch one at the same time both videophones)
Titolo:
CESVK-1/ECLIPSE, CESVK-1S/ECLIPSE con monitor addizionale (Impostazioni per accensione simultanea di entrambi i monitor)

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Notes:
—
Notes:
—

Data creazione: 29/07/2009
Data modifica: 11/11/2009
Autore: Marco Rongoni
Cod.File: cesvk011a.dwg
Foglio 1/1

Art.3381

SW3

SW2

Open

Bus Termination

Close

SW1
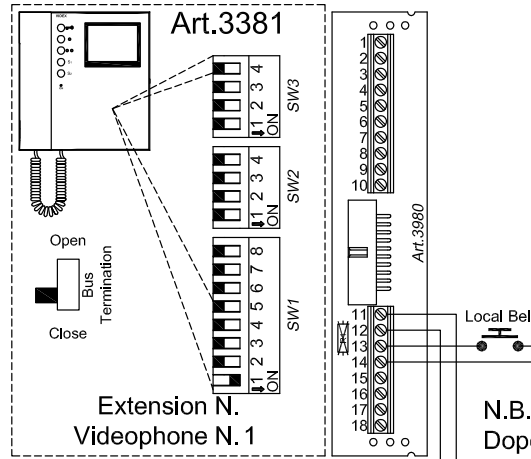
Extension N.
Videophone N. 1

Art.3980

Local Bell

N.B.
Dopo ogni cambiamento nella
programmazione del posto esterno, del
videocitofono o del relè, è necessario
togliere l'alimentazione al sistema e
ripristinarla affinchè le variazioni
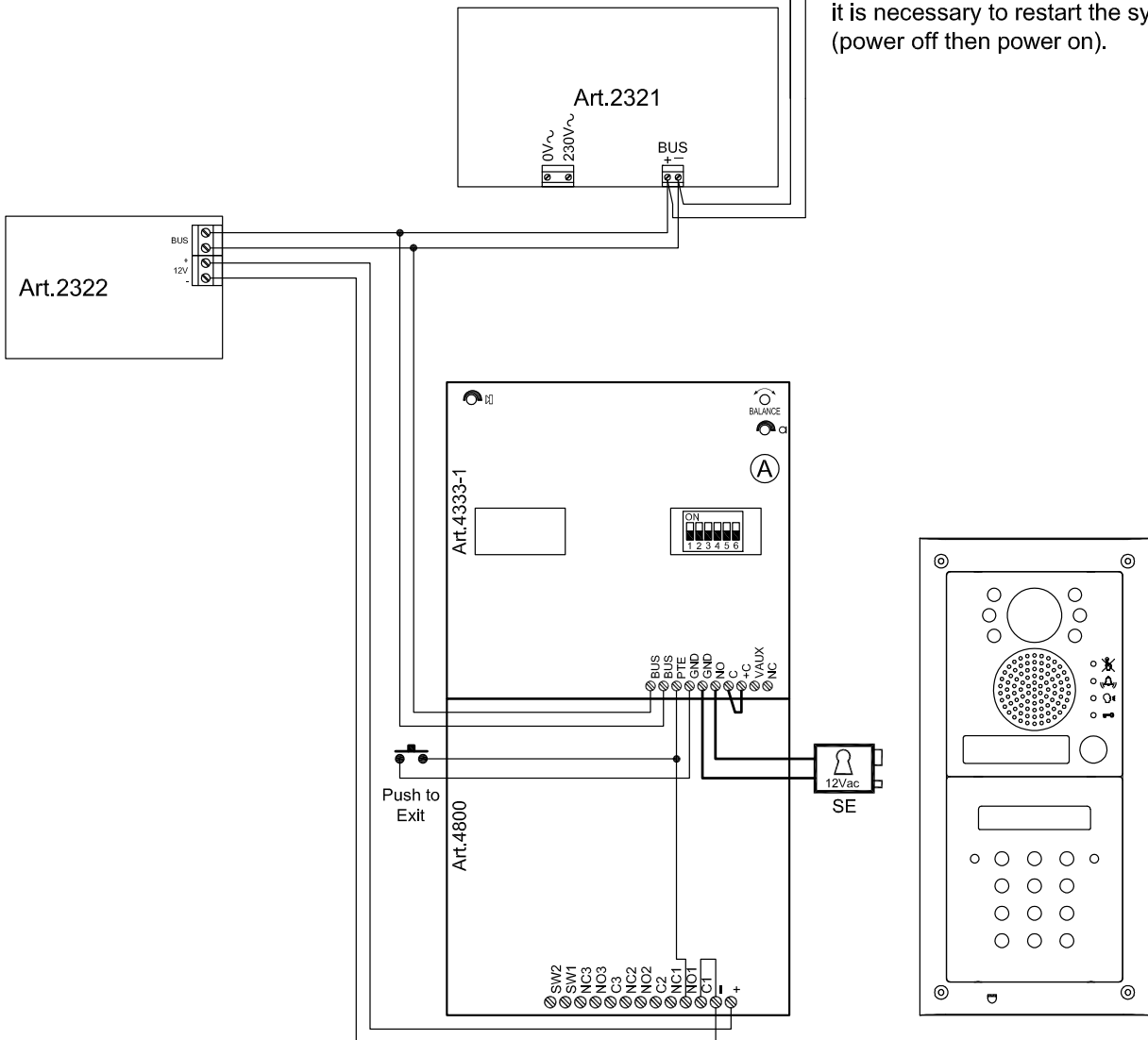vengano recepite dai rispettivi
dispositivi.

After each change on the programming
of the door station, videophone or any
other device connected to the system
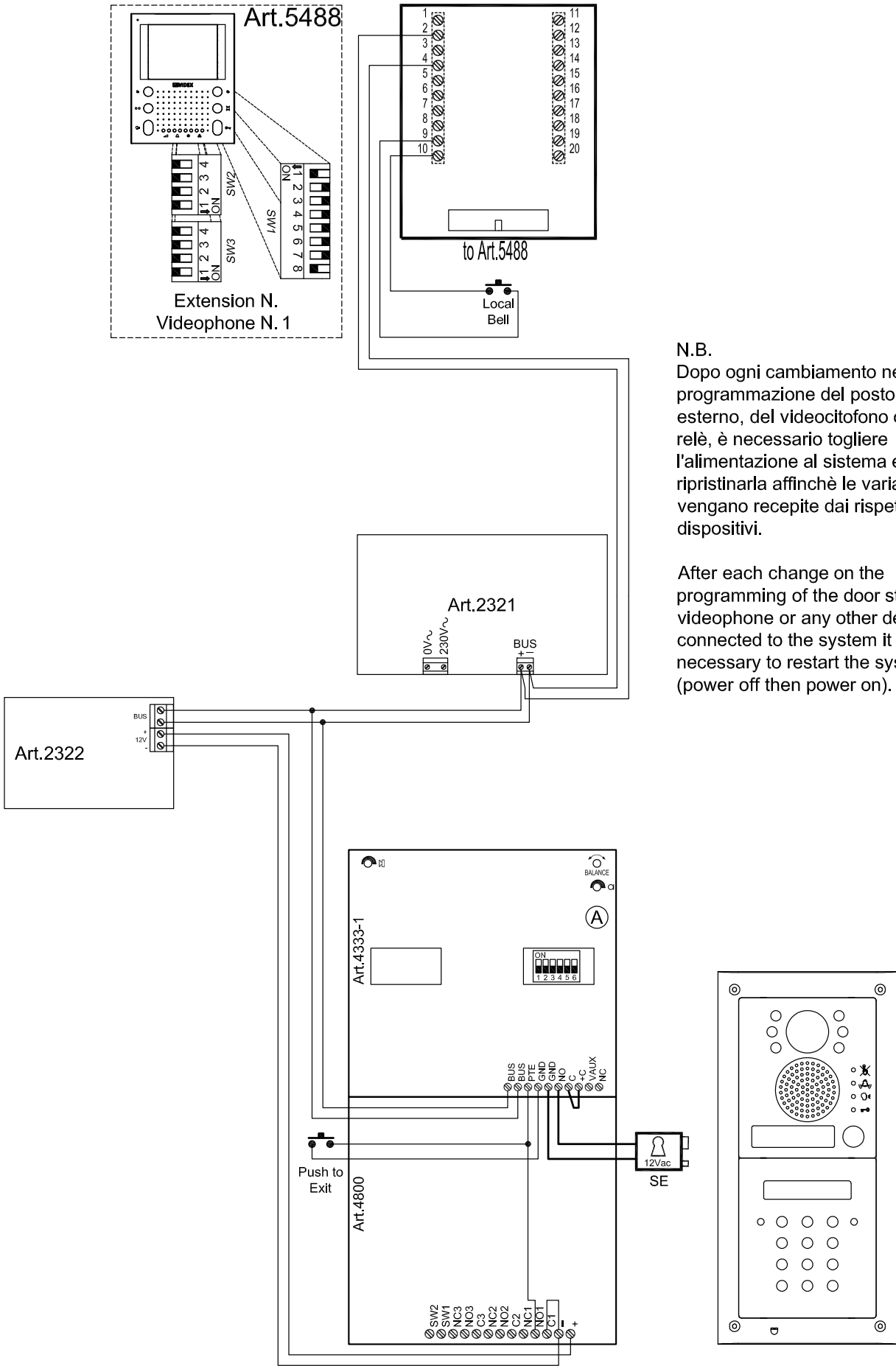it is necessary to restart the system
(power off then power on).

Art.2321

0V~
230V~

BUS
+ -

Art.2322

BUS
+
12V

Art.4333-1

BALANCE

(A)

ON
1 2 3 4 5 6

BUS BUS PTE GND GND NO C +C VAUX NC

Push to
Exit

Art.4800

12Vac
SE

SW2 SW1 NC3 NO3 C3 NC2 NO2 C2 NC1 NO1 C1 - +

Art.5488

Extension N.
Videophone N. 1

to Art.5488

Local
Bell

N.B.
Dopo ogni cambiamento nella programmazione del posto esterno, del videocitofono o del relè, è necessario togliere l'alimentazione al sistema e ripristinarla affinchè le variazioni vengano recepite dai rispettivi dispositivi.

After each change on the programming of the door station, videophone or any other device connected to the system it is necessary to restart the system (power off then power on).

Art.2321

0V~
230V~

BUS
+ –

Art.2322

BUS
+
12V
–

Art.4333-1

BALANCE

(A)

ON
1 2 3 4 5 6

BUS
BUS
PTE
GND
GND
NO
C
+C
VAUX
NC

12Vac
SE

Push to
Exit

Art.4800

SW2
SW1
NC3
NO3
C3
NO2
C2
NC1
NO1
C1
–
+

⊽⊽ VIDEX

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Fax: +45 39 27 77 75
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