Art. 4303N Speaker unit module with built-in functional to digital interface

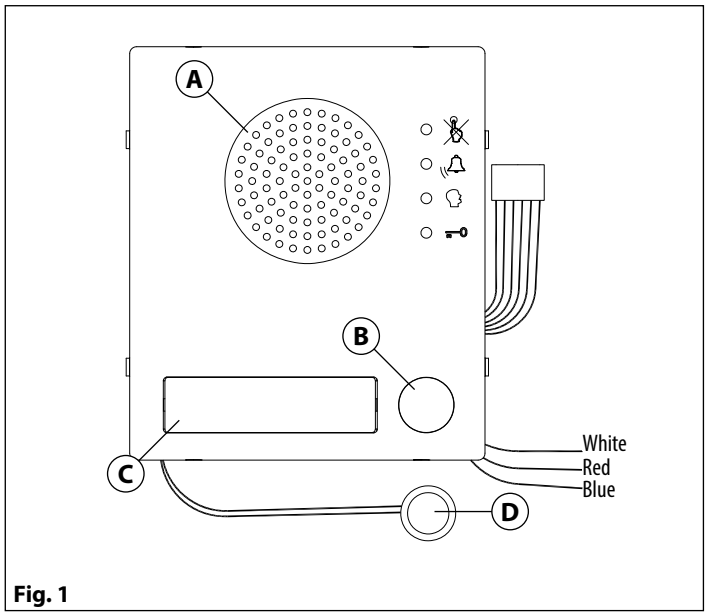


Fig. 1

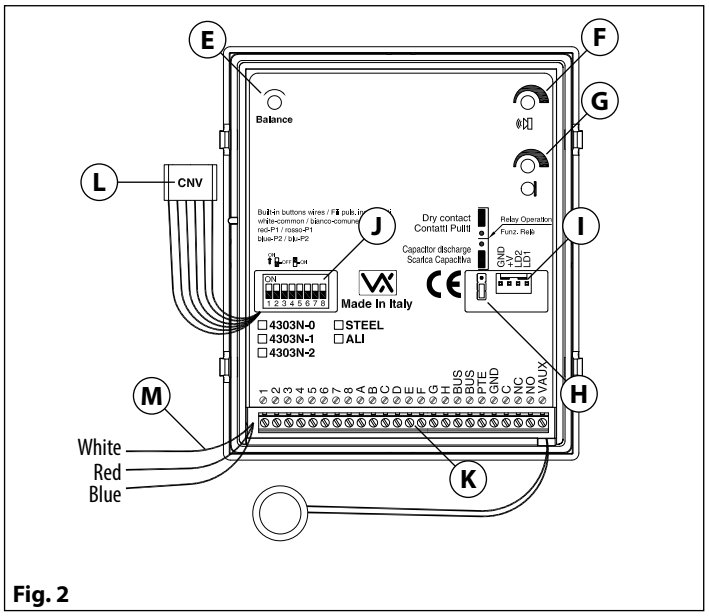


Fig. 2

DESCRIPTION

Functional speaker module for up to 64 traditional call buttons. 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 also operate as capacitor discharge to power directly the electric lock;
- The call buttons from 0 to a maximum of 2 depending on the module version;
- The illumination LEDs for the card name holder.

The module is available in 3 versions according to the number of built-in push buttons.

MODULE DETALIS:

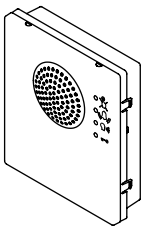
Ⓐ Loudspeaker;
Ⓑ Call push button (0 up to 2 according to the model);
Ⓒ Card name holder;
Ⓓ Microphone;
Ⓔ Balance control;
Ⓕ Loudspeaker volume Control;
Ⓖ Microphone volume control;
Ⓗ Door relay operating mode jumper:
- Lower position for capacitor discharge;
- Upper position for dry contacts;

Ⓘ Connector to supply button expansion modules:
- 3 modules can be connected between LD1 and GND;
- 3 modules can be connected between LD2 and GND;
- +V is 30V output with no current regulation to supply 3 button expansion modules connected in series;

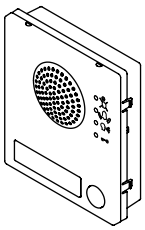
Ⓙ Dip-switch to carry out the following programming:
- Door station ID (switches 1 to 3);
- Door opening time (switch 4);
- Conversation time (switch 5);
- Offset (switch 6);
- Camera selection order (switch 7);
- Art. 2306 block mode (switch 8);

Ⓚ System connection terminals;
Ⓛ CNV connector to link to Art. 4330N camera module;
Ⓜ Wires to configure built-in buttons:
- White = Common;
- Red = P1;
- Blue = P2

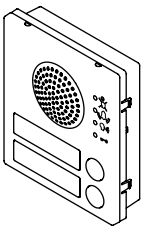
AVAILABLE MODULE VERSIONS



Art. 4303N-0



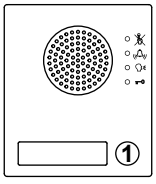
Art. 4303N-1



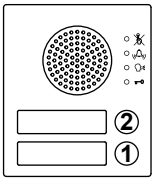
Art. 4303N-2

BUTTONS LAYOUT

As factory preset, built-in buttons are configured to call address 1 or 1 & 2 but the setup may be changed by altering the position of the 3 wires shown in **Fig. 2** with reference **"M"**.



Art. 4303N-1



Art. 4303N-2

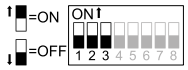
FRONT LEDS SIGNALLING DESCRIPTION	
	When illuminated, indicates that it is not possible to make a call because a call or a conversation is in progress (from the outdoor station from which you are calling or from another outdoor station on systems with multiple entrances). The LED will be off when the system is in stand-by
	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.
	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).
	If illuminated, indicates that the door lock has been released. 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 (2 or 6 seconds);
- Conversation Time (1 or 2 minutes);
- Buttons Matrix start address (1 or 65);
- Default Camera (Art. 4330N or External);
- Door Open Relay operating mode (capacitor discharge or dry contacts).

First 5 settings are carried out through the first 7 switches of the 8 way dip-switch (reference **"J"** on **Fig. 2**) while the 6th setting is carried out through the jumper (reference **"H"** on **Fig. 2**) both accessible from the rear side of the module.

UNIT ID

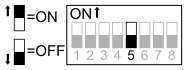


Switches Position			8=OFF	8=ON
1	2	3	ID	ID
OFF	OFF	OFF	1	9
ON	OFF	OFF	2	10
OFF	ON	OFF	3	11
ON	ON	OFF	4	12
OFF	OFF	ON	5	13
ON	OFF	ON	6	14
OFF	ON	ON	7	15
ON	ON	ON	8	16

DOOR OPENING TIME

Switches 4	Seconds
OFF	2
ON	6

CONVERSATION TIME



Switches 5	Minutes
OFF	1
ON	2

MATRIX BUTTON START ADDRESS

Switches 6	Start address
OFF	1
ON	65

MAIN CAMERA*

Switches 7	Main camera
OFF	Art. 4330N
ON	External

DOOR OPEN RELAY OPERATING MODE

Jumper position	Operating mode
Upper	Dry contacts
Lower	Discharge Capacitor**

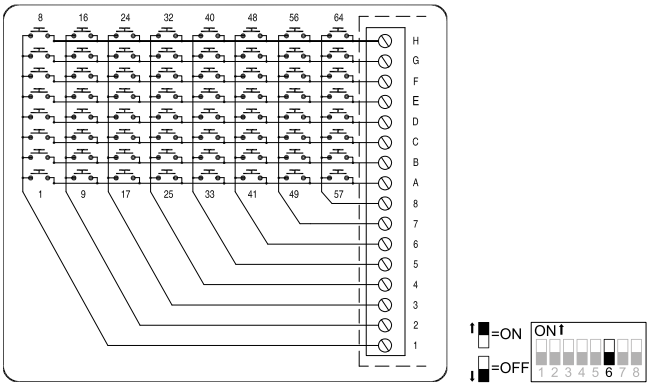
* This setting, when the door station includes the camera module Art. 4330N and a second external camera, establishes which camera is the main camera from which the video signal will come from at the beginning of the call. The video signal can be switched to the secondary camera at any time by pressing the specific button on the videophone or videomonitor.

** When set as capacitor discharge, connect the electric lock between terminals "GND" and "NO".

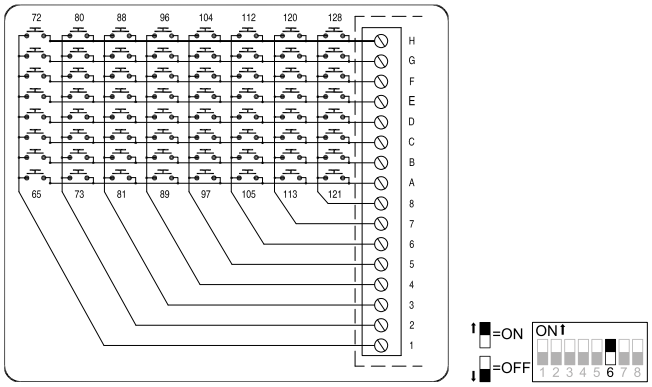
SIGNALS ON SYSTEM CONNECTION TERMINALS				
1	Common terminal for addresses 1..8 (switch 6 = OFF) or 65..72 (switch 6 = ON)	**E**	Addresses 5,13,21,29,37,45,53, 61 (switch 6 = OFF) Addresses 69,77,85,93,101,109,117, 125 (switch 6 = ON)	
2	Common terminal for addresses 9..16 (switch 6 = OFF) or 73..80 (switch 6 = ON)	**F**	Addresses 6,14,22,30,38,46,54, 62 (switch 6 = OFF) Addresses 70,78,86,94,102,110,118, 126 (switch 6 = ON)	
3	Common terminal for addresses 17..24 (switch 6 = OFF) or 81..88 (switch 6 = ON)	**G**	Addresses 7,15,23,31,39,47,55, 63 (switch 6 = OFF) Addresses 71,79,87,95,103,111,119, 127 (switch 6 = ON)	
4	Common terminal for addresses 25..32 (switch 6 = OFF) or 89..96 (switch 6 = ON)	**H**	Addresses 8,16,24,32,40,48,56, 64 (switch 6 = OFF) Addresses 72,80,88,96,104,112,120, 128 (switch 6 = ON)	
5	Common terminal for addresses 33..40 (switch 6 = OFF) or 97..104 (switch 6 = ON)	**BUS**	BUS Connection terminals	
6	Common terminal for addresses 41..48 (switch 6 = OFF) or 105..112 (switch 6 = ON)	**BUS**		
7	Common terminal for addresses 49..56 (switch 6 = OFF) or 113..120 (switch 6 = ON)	**PTE**	Active low input push to exit signal	
8	Common terminal for addresses 57..64 (switch 6 = OFF) or 121..128 (switch 6 = ON)	**GND**	Ground	
A	Addresses 1,9,17,25,33,41,49, 57 (switch 6 = OFF) Addresses 65,73,81,89,97,105,113, 121 (switch 6 = ON)	**C**	Door open relay common contact	**Max 12-24 Vac/dc 3A**
B	Addresses 2,10,18,26,34,42,50, 58 (switch 6 = OFF) Addresses 66,74,82,90,98,106,114, 122 (switch 6 = ON)	**NC**	Door open relay normally closed contact	
C	Addresses 3,11,19,27,35,43,51, 59 (switch 6 = OFF) Addresses 67,75,83,91,99,107,115, 123 (switch 6 = ON)	**NO**	Door open relay normally open contact	
D	Addresses 4,12,20,28,36,44,52, 60 (switch 6 = OFF) Addresses 68,76,84,92,100,108,116, 124 (switch 6 = ON)	**VAUX**	35Vdc power supply input (if used, the module is powered locally and not from the BUS)	

BUTTON MATRIX

The button, when pressed, will generate a call to a specific address according to the terminals to which the button is connected: i.e. a button connected between terminals "2" and "B", when pressed will generate a call to the address 10 if the dip-switch 6= OFF or a call to the address 74 if the switch 6=ON.



SW6 OFF	1	2	3	4	5	6	7	8
A	1	9	17	25	33	41	49	57
B	2	10	18	26	34	42	50	58
C	3	11	19	27	35	43	51	59
D	4	12	20	28	36	44	52	60
E	5	13	21	29	37	45	53	61
F	6	14	22	30	38	46	54	62
G	7	15	23	31	39	47	55	63
H	8	16	24	32	40	48	56	64



SW6 ON	1	2	3	4	5	6	7	8
A	65	73	81	89	97	105	113	121
B	66	74	82	90	98	106	114	122
C	67	75	83	91	99	107	115	123
D	68	76	84	92	100	108	116	124
E	69	77	85	93	101	109	117	125
F	70	78	86	94	102	110	118	126
G	71	79	87	95	103	111	119	127
H	72	80	88	96	104	112	120	128

UNIT SPECIFICATION

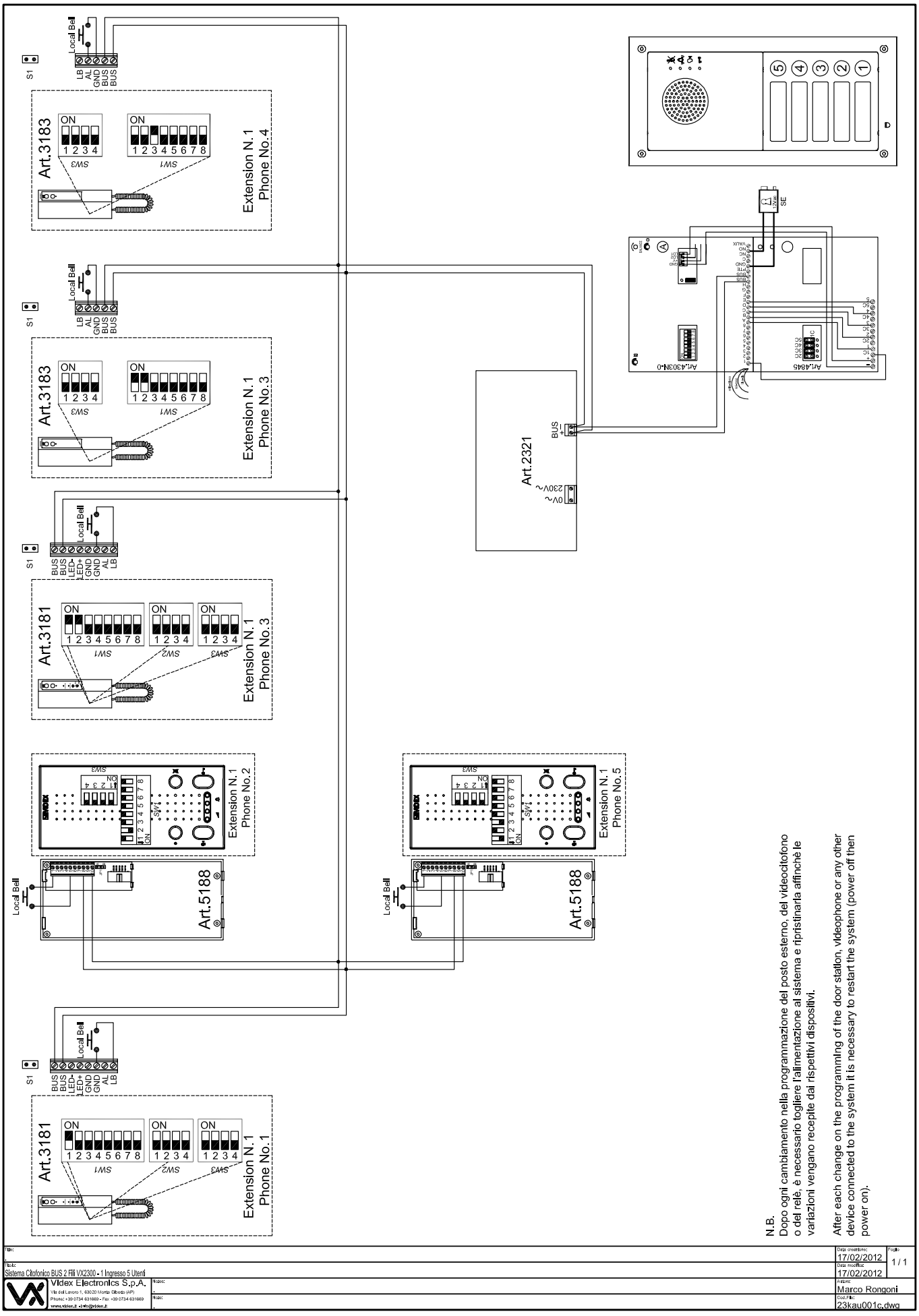
Housing/Mounting: One 4000 Series Module / 4000 Series Modular System
Push Buttons: Yes, from 0 to 2 call buttons according to the model
Programming: Yes, carried out by the 8 way dip-switch located on the rear of the module
Controls: Microphone and Loudspeaker volume trimmers plus balance trimmer
Front plate finishes: Mirror stainless steel (standard), Anodized Aluminium (add /a after the product code) or High Brass (add /HB)
Power Supply: Supplied by the BUS line
Power consumption: Stand-by: 28mA
Operating: 38mA
Working Temperature: -10 +50 °C

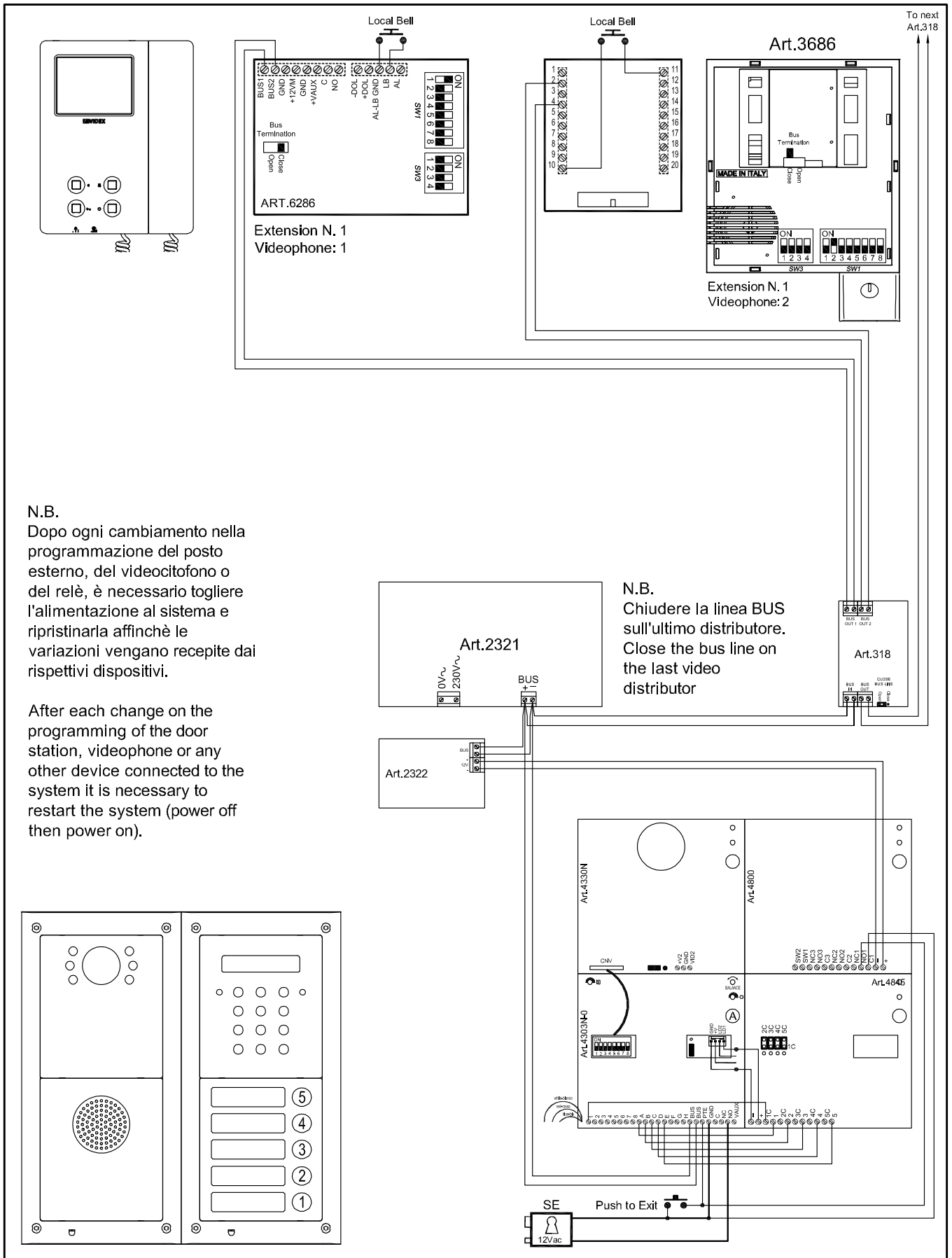
CUSTOMER SUPPORT

All Countries:
VIDEX ELECTRONICS S.P.A.
www.videx.it - technical@videx.it
Tel: +39 0734-631669
Fax: +39 0734-632475

UK Customers:
VIDEX SECURITY LTD
www.videx-security.com
Tech Line: 0191 224 3174
Fax: 0191 224 1559

The product is CE marked demonstrating its conformity and is for distribution within all member states of the EU with no restrictions. This product follows the provisions of the European Directives 2004/108/ECC (EMC); 2006/95/ECC (LVD) and 93/68/ECC (CE marking).


Art.3183
Extension N.1
Phone No.4
Art.3183
Extension N.1
Phone No.3
Art.3181
Extension N.1
Phone No.3
Extension N.1
Phone No.2
Art.5188
Extension N.1
Phone No.5
Art.5188
Art.3181
Extension N.1
Phone No.1
Art.2321
Art.4303N-0
Art.4845
Local Bell
S1
LB
AL
GND
BUS
LED-
LED+
ON
SW1
SW2
SW3
BUS
0V~
230V~
SE
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).
Title:
Sistema Citofonico BUS 2 Fili VX2300 - 1 Ingresso 5 Utenti
Videx Electronics S.p.A.
Via del Lavoro 1, 63020 Monte Giberto (AP)
Phone: +39 0734 631669 - Fax: +39 0734 631669
www.videx.it - info@videx.it
Data creazione: 17/02/2012
Data modifica: 17/02/2012
Foglio 1 / 1
Autore: Marco Rongoni
Cod.File: 23kau001c.dwg

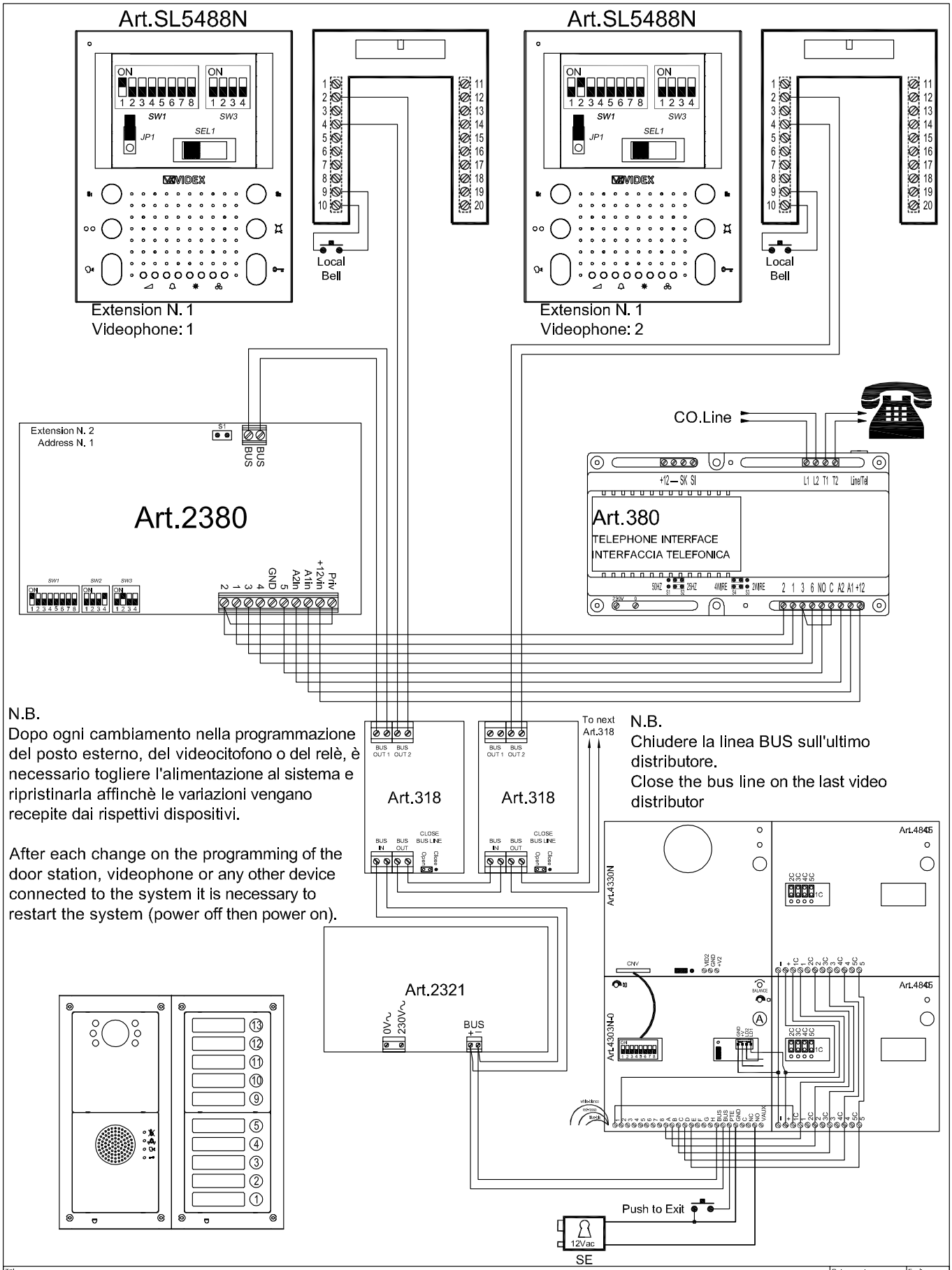


N.B.
Dopo ogni cambiamento nella programmazione del posto esterno, del videocitofono o del relè, è necessario togliere l'alimentazione al sistema e ripristinarla affinchè le variazioni vengano recepite dai rispettivi dispositivi.

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).

N.B.
Chiudere la linea BUS sull'ultimo distributore.
Close the bus line on the last video distributor

Title: VX2300 1 Entrance Video Door Entry System for "n" users using Functional to Digital Interface plus 4800 codelock	Data creazione: 02/12/2014	Foglio 1 / 1
Titolo: .	Data modifica: 02/12/2014	
Videx Electronics S.p.A. Via del Lavoro 1, 63020 Monte Giberto (AP) Phone: +39 0734 631669 - Fax +39 0734 631669 www.videx.it - info@videx.it	Notes: .	Autore: Marco Rongoni
	Notes: .	Cod.File: 23kvd001da.dwg



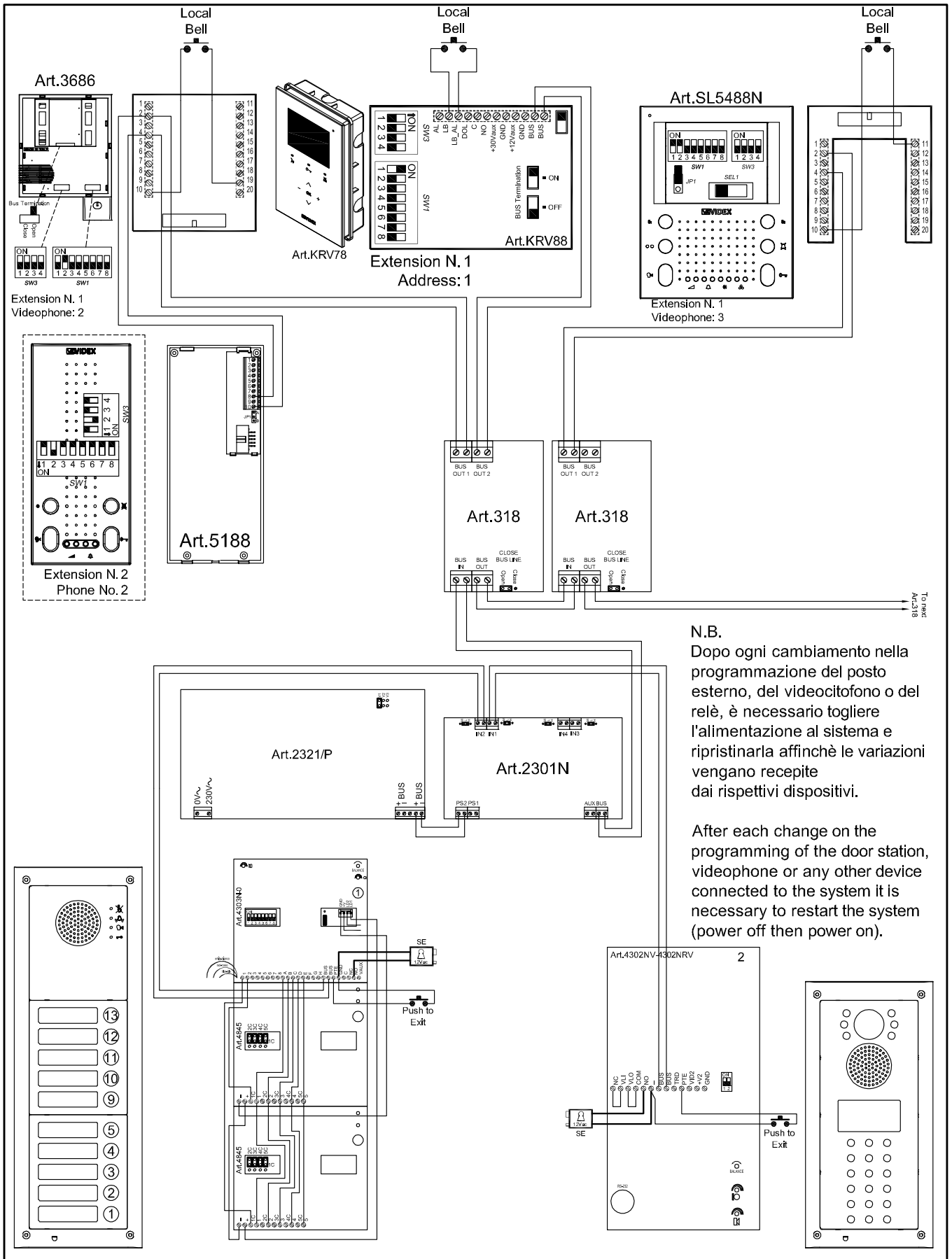
N.B.
Dopo ogni cambiamento nella programmazione del posto esterno, del videocitofono o del relè, è necessario togliere l'alimentazione al sistema e ripristinarla affinchè le variazioni vengano recepite dai rispettivi dispositivi.

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).

N.B.
Chiudere la linea BUS sull'ultimo distributore.
Close the bus line on the last video distributor

Title: VX2300 1 Entrance Video Door Entry System for "n" users using Functional to Digital Interface		Data creazione: 02/12/2014	Foglio 1 / 1
Titolo: .		Data modifica: 02/12/2014	
Videx Electronics S.p.A. Via del Lavoro 1, 63020 Monte Giberto (AP) Phone: +39 0734 631669 - Fax +39 0734 631669 www.videx.it - info@videx.it	Notes: The Art.2380 is in parallel with the videophone 1. When the vieophone 1 is called will ring also the telephone connected to the Art.380 Note: .	Autore: Marco Rongoni	
		Cod.File: 23kvd001ja.dwg	

Art. 4303N Speaker unit module with built-in functional to digital interface



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).

Title: .		Data creazione: 03/12/2014 — Foglio 1 / 1
Title: .		Data modifica: 03/12/2014
Videx Electronics S.p.A. Via del Lavoro 1, 63020 Monte Giberto (AP) Phone: +39 0734 631669 - Fax +39 0734 631669 www.videx.it - info@videx.it	Notes: .	Autore: Marco Rongoni
	Notes: .	Cod.File: 23kav001aa.dwg