Art. 4203 Digital to functional interface module/"2 Wire bus" system

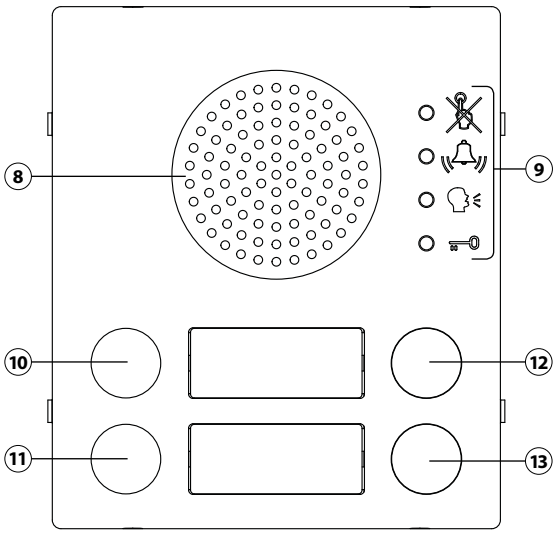


Fig. 1

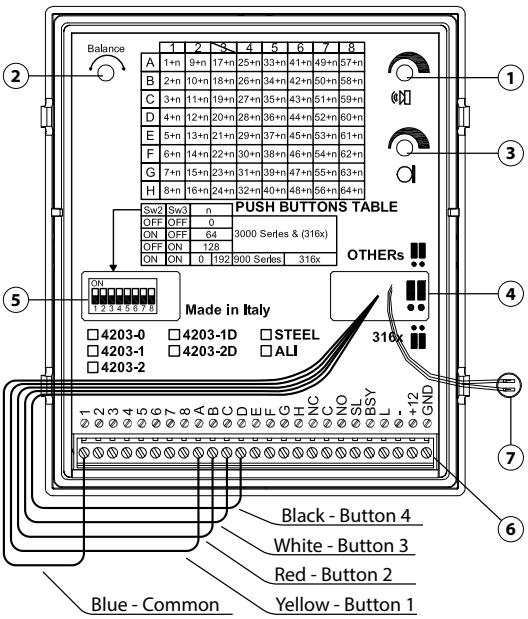


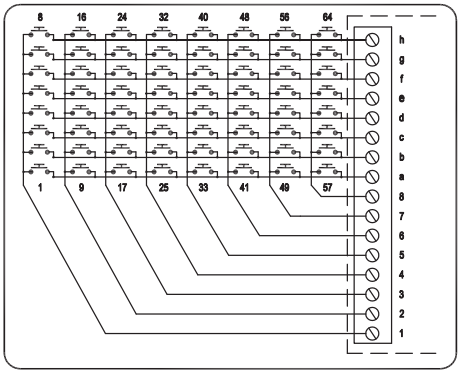
Fig. 2

LEGEND

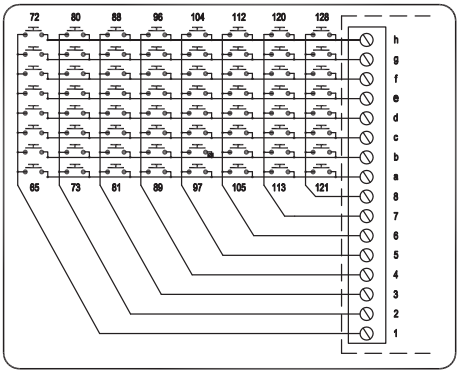
1. Speaker volume adjustment
2. Balance adjustment
3. Microphone volume adjustment
4. System setup jumpers
5. System setup dip-switch
6. Connection terminals
7. Microphone
8. Speaker
9. LEDs for opertation signalling
10. Push button 4 - black wire
11. Push button 3 - white wire
12. Push button 2 - red wire
13. Push button 1 - yellow wire

PUSH BUTTONS CONNECTION

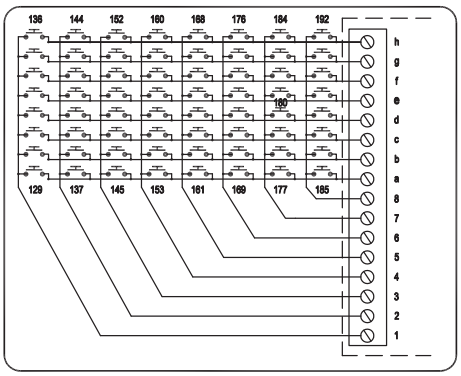
Dip-Switch n°2=OFF n°3=OFF or
Dip-Switch n°2=ON n°3=ON using 900 Series



Dip-Switch n°2=ON n°3=OFF



Dip-Switch n°2=OFF n°3=ON (only up to 180 if set to work with other intercoms models)



Dip-Switch n°2=ON n°3=ON (only when set to work with Art. 3161 intecoms)

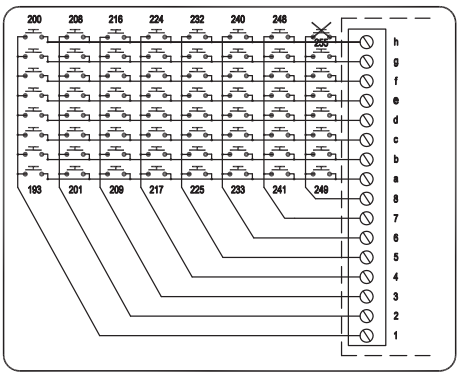
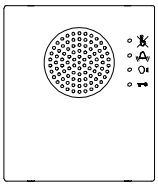
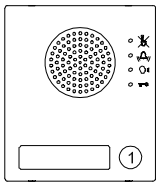


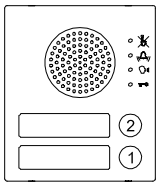
Fig. 3

DESCRIPTION

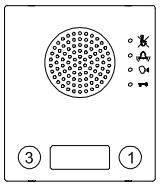
The Art. 4203 unit is a digital front panel based on a **"2 wire" BUS** intercom system that enables the connection of traditional push buttons. This unit is housed in a single 4000 Series module and is available in Mirror Stainless Steel (standard finish) or anodized aluminium (add /A after the product code). It incorporates the functional interface connections from functional to digital and the speaker unit module with 0, 1, 2 or 4 call buttons.
This device enables the connection of up to 64 functional push buttons using standard 4000 Series extension module panels Art. 4842, Art. 4843, Art. 4844, Art. 4845 and relevant double button version Art. 4842D, Art. 4843D, Art. 4844D and Art. 4845D. The push buttons already fitted to the module are to be subtracted from the number of those to be inserted, i.e. 4, 2 or 1 according to the model.
The module built-in buttons, 1, 2 or 4 (Art. 4203-1, Art. 4203-1D or Art. 4203-2 and Art. 4203-2D) as factory presetting are set as 1st ID PHONE or 1st and 2nd or 1st, 2nd 3rd and 4th of the addresses group selected by dip-switches 2 and 3. Operating on the wires carried out from the module, you can set the buttons how you want. If a number of push buttons greater than 64 is required, more Art. 4203 modules can be used to have up to 150 buttons with 900 Series, up to 180 buttons with 3000 Series (except intercom Art. 316x model) and up to 255 with the low cost intercom Art. 316x..All the modules must be assembled using the 4000 Series flush or surface mounting units.
The Art. 4203 can work with 900 Series or 3000 Series or with the new low cost intercom Art. 3161.


Art. 4203

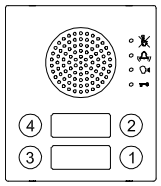

Art. 4203-1



Art. 4203-2



Art. 4203-1D



Art. 4203-2D

OPERATION

Once the Art. 4203 has been programmed and connected correctly, it will generate on each pressing of a push button, a code corresponding to the PHONE ID (address programmed on the 8 way dip-switch inside each telephone) of the telephone being called.

TO CALL A USER

Press the relevant button to call the user: 5 quick beeps will indicate if the system is busy, otherwise the call will be signalled by a slow intermittent acoustic signal until the call is answered, the conversation time expires (programmable time) or the call is interrupted by pressing a push button for a minimum of 2 seconds. A short intermittent acoustic signal indicates that the door is open. If a wrong push button is pressed or if there is no answer, a new call will erase the previous one.

PROGRAMMING

The programming is carried out exclusively through the configuration of the two jumpers and the 8 way dip-switch both accessible from the back of the module. Depending on the 2 jumpers settings, the 8 way Dipswitches have a different function.

WITH THE TWO JUMPERS IN UPPER POSITION "OTHERS" (TO WORK WITH 900 & 3000 SERIES EXCEPT INTERCOM ART. 3161 & ART. 3162), THE 8 WAY DIP-SW ENABLES THE FOLLOWING:

- Program the unit as a Master or a Slave (switch 1);
- Program the 64 push buttons group (switches 2 & 3);
- Program the conversation time (switch 4);
- Program the door opening time (switch 5);
- Program the device number (switches 6,7,8);

CONFIGURATION OF THE UNIT AS A MASTER OR A SLAVE:

Switch	Nr.1	Setting Up
	OFF	= Slave
	ON	= Master (default)

PROGRAMMING OF THE 64 PUSH BUTTONS GROUP:

Switch	Nr.2	Nr.3	Setting Up
	OFF	OFF	= from 1 to 64
	ON	OFF	= from 65 to 128
	OFF	ON	= from 129 to 180
	ON	ON	= from 1 to 64 with 900 Series devices

Switches 2 & 3 define the range of Phone IDs generated by the unit when the call buttons are pressed. For example with dip-switch 2 and 3 both OFF, the push button connected between the Art. 2203 terminals **"1"** and **"a"** generates the **ID PHONE 1** while the same push button, with dip-switch 2 ON and dip-switch 3 OFF, will generate the **PHONE ID 65.** The fourth range of push button groups can be used with the 900 Series intercoms and videointercoms.

PROGRAMMING THE CONVERSATION TIME:

Switch	Nr.4	Setting Up
	OFF	= 1 min
	ON	= 2 min

PROGRAMMING THE DOOR OPENING TIME:

Switch	Nr.5	Setting Up
	OFF	= 2 seconds
	ON	= 6 seconds

PROGRAMMING THE DEVICE NUMBER:

Switch	Nr.6	Nr.7	Nr.8	Setting Up
	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

The device number is used by the digital concierge to show from which entrance calls are made.

PROGRAMMING NOTES (3000 AND 900 SERIES MODE)

In case of a wrong Master/Slave configuration (Dip-switch no.1), the following problems can occur:

a. If the unit should be a Master but is configured as a Slave, the error is signalled by an acoustic intermittent signal until the problem is resolved;

b. If the unit must be Slave but is configured as Master, the impedance of the system will have a lack of balance, causing feedback ("Larsen" effect).

When a system uses a concierge unit Art. 2210-1 the push button combined to the **Phone ID 1** (only with the switches.2 & 3 OFF = ID Group from 1 to 64) is reserved to call the concierge in day or night mode.

WITH THE TWO JUMPERS IN LOWER POSITION "316X" (TO WORK ONLY WITH INTERCOMS ART. 3161 & ART. 3162), THE 8 WAY DIP-SW ENABLES THE FOLLOWING:

- Program the 64 push buttons group (switches 2 & 3);
- Program the number of call rings (switches 4 & 5);
- Program the conversation time (switch 6 & 7);
- Program the door opening time (switch 8);

The switch 1 is not used.

PROGRAMMING THE 64 PUSH BUTTONS GROUP:

Switch	Nr.2	Nr.3	Setting Up
	OFF	OFF	= from 1 to 64
	ON	OFF	= from 65 to 128
	OFF	ON	= from 129 to 192
	ON	ON	= from 193 to 255

PROGRAMMING THE NUMBER OF CALL RINGS:

Switch	Nr.4	Nr.5	Setting Up
	OFF	OFF	= 2
	ON	OFF	= 4
	OFF	ON	= 6
	ON	ON	= 8

PROGRAMMING THE CONVERSATION TIME:

Switch	Nr.6	Nr.7	Setting Up
	OFF	OFF	= 1 min
	ON	OFF	= 2 min
	OFF	ON	= 3 min
	ON	ON	= 4 min

PROGRAMMING THE DOOR OPENING TIME:

Switch	Nr.8	Setting Up
	OFF	= 2 second
	ON	= 6 seconds

SPECIAL APPLICATIONS - SYSTEMS USING BLOCK EXCHANGER ART. 2206N

In all systems using block exchangers Art. 2206N, the main entrance panels which are connected before these exchangers can only be digital type panels because of technical reasons

In case the system operation requires that the digital panel is only enabled to call the switchboard, it is possible to connect as a main panel one or more Art. 4203 (for Art. 4203 instructions) or Art. 8203 (for Art. 8203 instructions) with one single button only as follows:

- Blue wire connected to terminal **"8";**
- Yellow wire connected to terminal **"A";**
- Switch 2 on "OFF";
- Switch 3 on "ON".

Thanks to this configuration the panel can be set as one of the "main" panels and when the button is pressed the call is made directly to the switchboard.

WIRES-BUTTONS TABLE	
Color	**Button**
Blue	Buttons common
Yellow	Button 1
Red	Button 2
White	Button 3
Black	Button 4

LEDS MEANING	
Symbol	**LED meaning**
	The first LED (red), if switched ON, 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 system with multiple entrances).
	The second LED (red), if switched ON, indicates that a call is in progress. The LED will be switched OFF when the call is answered.
	The third LED (yellow), if switched ON, indicates that it is possible to speak. The LED will be switched OFF at the end of conversation (or at the end of the conversation time).
	The fourth LED (green), if switched ON, means that the door lock has been operated. It will be switched OFF at the end of the "door opening" time.

MOUNTING NOTES

We recommend completing the programming of the unit and then connect the extension front panel modules as follows:

- Connect the push buttons common connection to one of the Art. 2203 terminals marked with numbers from **"1"** to **"8",** depending on the PHONE IDs required when pressing the push buttons (for example with the dip-switches 2 and 3 both OFF, connecting the push buttons common to terminal **"1",** will enable the PHONE IDs from 1 to 8 to combine with the push buttons, while connecting the common to terminal **"2"** will enable the PHONE IDs from 9 to 16 and so on refer to **Fig. 2 and Fig. 3 on page 1**);
- Connect each push button of the module to the Art. 2203 terminals marked with the letters from **"a"** to **"h"** depending on the PHONE ID needed to be combined with the push button (for example having dip-switches 2 and 3 both OFF and the push buttons common of the module connected to terminal **"2",** connect the push button to terminal **"a"** to call PHONE ID 9, or **"b"** to call PHONE ID 10 and so on refer to **Fig. 2 and Fig. 3 on page 1**).

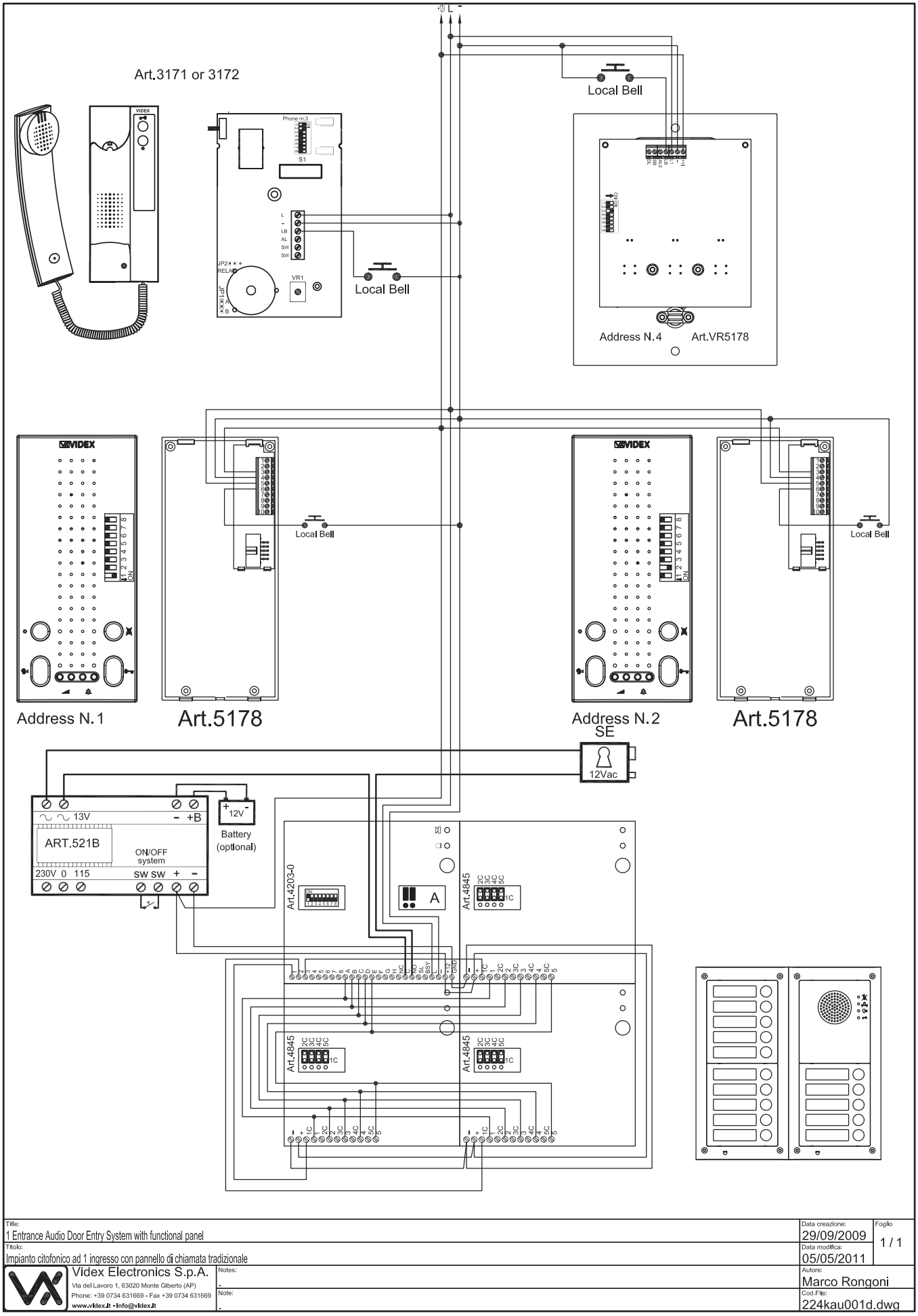
In order to achieve the correct combination between the push buttons and the relevant extensions, it is advisable to refer to the picture at the back of the module for the correct cabling.

The digital concierge cannot be installed on systems using Art. 316X intercoms.

SIGNALS	
Terminal	**Description**
1..8	Button matrix column terminals (commons)
A..H	Button matrix column terminals
NC	Relay normally closed contact
C	Relay common contact
NO	Relay normally open contact
SL	Active low output (active during the call)
BSY	Active low input/output (busy signal)
L	BUS line data input
–	BUS line ground input
+12	+12Vdc power supply input
GND	Power supply ground input

TECHNICAL SPECIFICATIONS

Memory capacity:	up to 64 users
Working voltage:	13 Vdc +/- 10%
Max. absorption:	About 350 mA
Working Temperature:	-10 +50 °C



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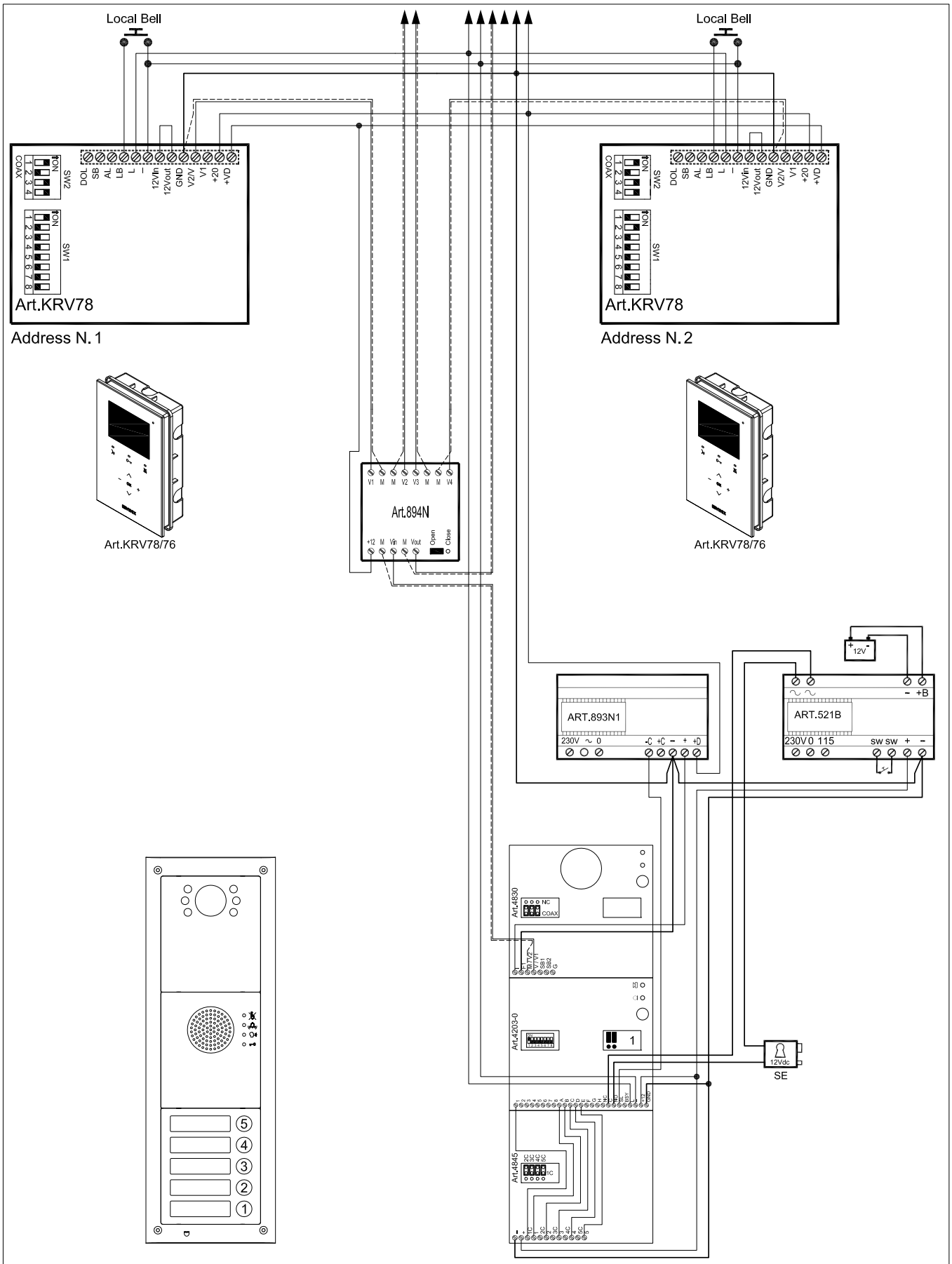

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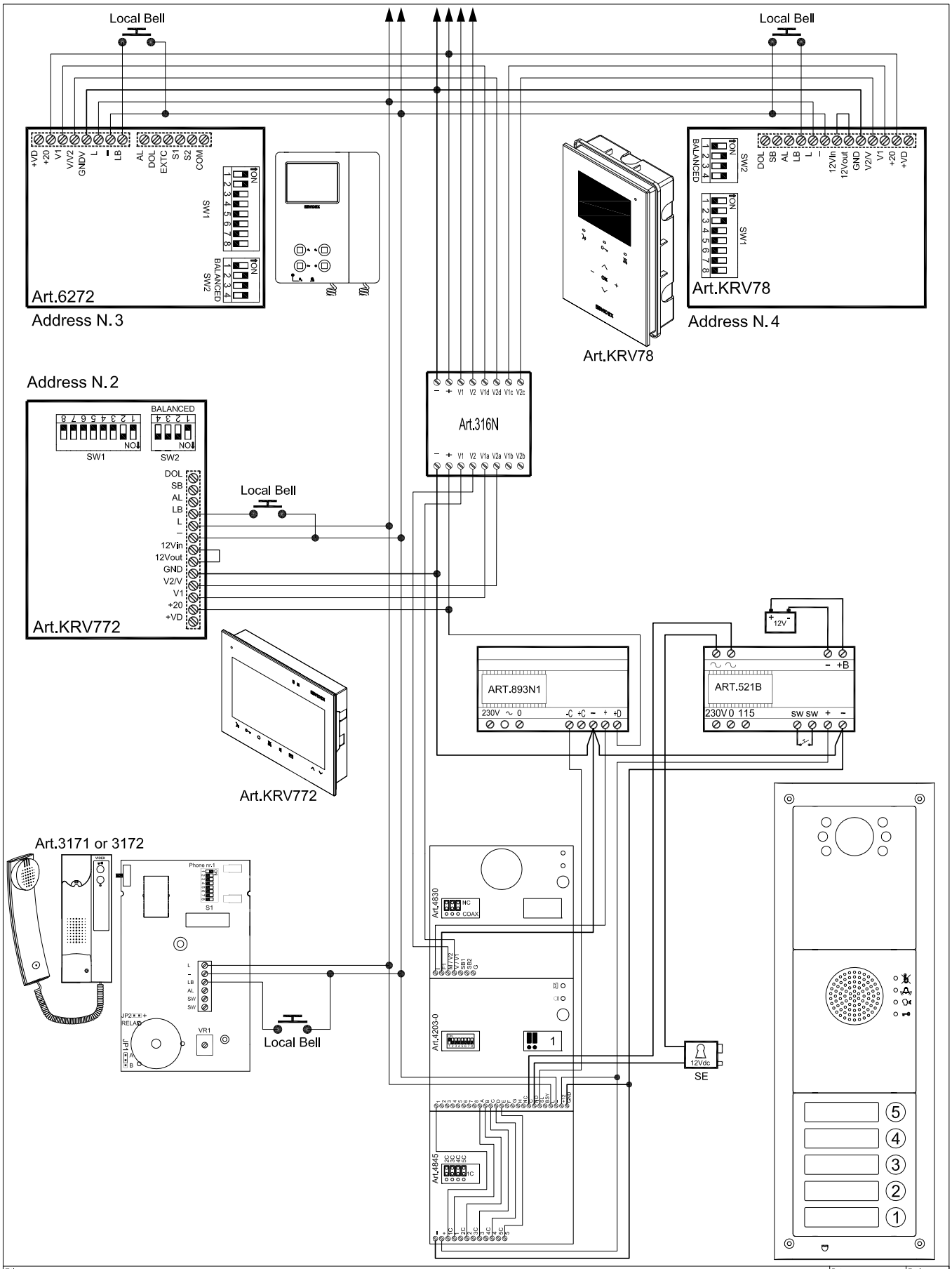

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