Art. 3181 Digital intercom for VX2300 2 Wire System

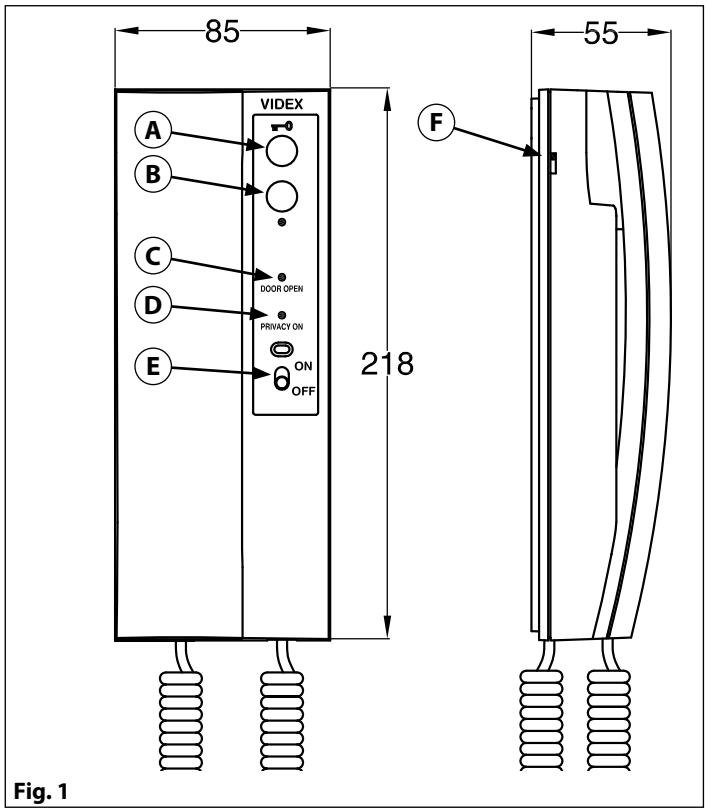


Fig. 1

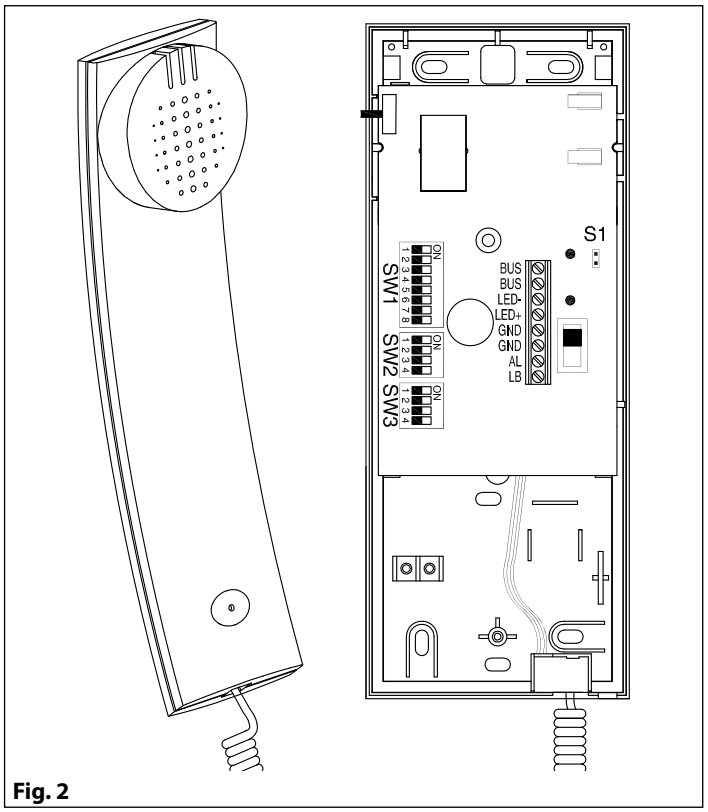


Fig. 2

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" Led's 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, LED'S 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 - DEVICE ADDRESS

SWITCHES STATUS							BINARY CODE – DECIMAL VALUE							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 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)
1	2	3	4		
OFF	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
	ON	OFF			1 hour
	OFF	ON			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)	UNIT EXTENSION (SWITCHES 2,3)
1	2	3	4		
OFF	OFF	OFF		Intercommunication allowed between units (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)
	ON	OFF			2 (slave)
	OFF	ON			3 (slave)
	ON	ON			4 (slave)
ON	OFF	OFF		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)	

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.

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.

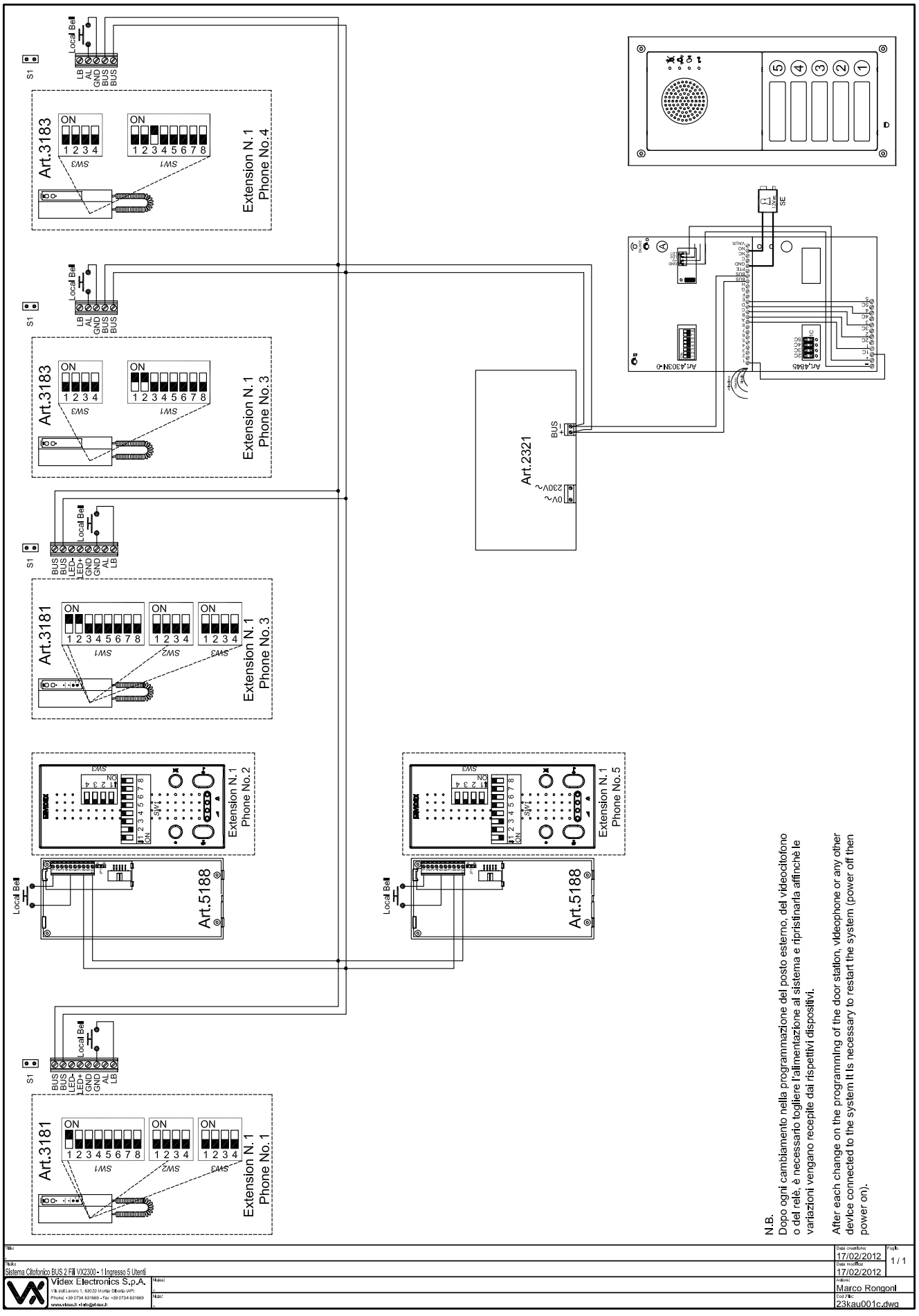
SIGNALS ON CONNECTION TERMINALS	
BUS	BUS connection terminals
BUS	
LED–	Door open LED ground signal input
LED+	Door open LED power supply input (+12Vdc)
GND	Ground signal
GND	Ground signal
AL	Alarm input (not implemented)
LB	Local Bell contact (put a push button between this terminal and the relevant 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 +50°C

Installation diagrams

1 ENTRANCE 5 USERS AUDIO DOOR ENTRY SYSTEM USING FUNCTIONAL TO DIGITAL DOOR PANEL



Notes

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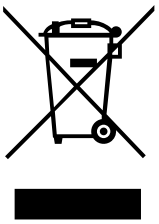

ENG **DISPOSAL**

In accordance with the Legislative Decree no. 49 of 14 March 2014 "Implementation of the Directive 2012/19/EU on waste electrical and electronic equipment (WEEE)".
The crossed-out bin symbol on the equipment or on the packaging indicates that when the product reaches the end of its lifetime, it must be collected separately from mixed municipal waste. The user must, therefore, dispose of the equipment at the end of its lifetime in the suitable waste collection centres or bring it to the retailer during the purchase of a new equipment of equivalent type at the ratio of one-to-one. Furthermore, the user is allowed to dispose of the WEEEs of very small size (domestic appliances without any external dimension exceeding 25 cm (9.84 inches) for free to the retailers, without any purchase obligation. The correct waste disposal of the WEEEs contributes to their reuse, recycling and recovery and avoids potential negative effects on the environment and human health due to the possible presence of dangerous substances within them.

ITA **SMALTIMENTO**

Ai sensi del Decreto Legislativo 14 marzo 2014, n° 49 "Attuazione della direttiva 2012/19/UE sui rifiuti di apparecchiature elettriche ed elettroniche (RAEE)".
Il simbolo del cassonetto barrato riportato sull'apparecchiatura o sulla sua confezione indica che il prodotto alla fine della propria vita utile deve essere raccolto separatamente dagli altri rifiuti urbani misti. L'utente dovrà, pertanto, conferire l'apparecchiatura giunta a fine vita presso gli idonei centri di raccolta differenziata oppure riconsegnarla al rivenditore al momento dell'acquisto di una nuova apparecchiatura di tipo equivalente, in ragione di uno a uno. L'utente ha, inoltre, la possibilità di conferire gratuitamente presso i distributori, senza alcun obbligo di acquisto, per i RAEE di piccolissime dimensioni (per le apparecchiature di tipo domestico con nessuna dimensione esterna superiore a 25 cm).
L'adeguata raccolta differenziata dei RAEE contribuisce al loro riutilizzo, riciclaggio e recupero ed evita potenziali effetti negativi sull'ambiente e sulla salute umana dovuti alla eventuale presenza di sostanze pericolose al loro interno.

FRA **ÉLIMINATION**

Conformément au décret législatif n ° 49 du 14 mars 2014 relatif à l' « Application de la directive 2012/19 / UE relative aux déchets d'équipements électriques et électroniques (DEEE) ».
Le symbole de la poubelle barrée sur l'équipement ou sur son emballage indique que le produit en fin de vie utile doit être collecté séparément des autres déchets municipaux en mélange. L'utilisateur doit donc remettre l'équipement en fin de vie aux centres de collecte appropriés ou le restituer au revendeur lors de l'achat d'un nouveau type d'équipement équivalent, dans le rapport de un à un. De plus, l'utilisateur a la possibilité de conférer gratuitement aux distributeurs, sans aucune obligation d'achat, de très petits DEEE (pour les appareils ménagers sans dimensions extérieures supérieures à 25 cm).
La collecte séparée adéquate des DEEE contribue à leur réutilisation, leur recyclage et leur valorisation et évite les éventuels effets négatifs sur l'environnement et la santé humaine en raison de la présence possible de substances dangereuses dans ceux-ci.

SPA **ELIMINACIÓN**

De conformidad con el Decreto legislativo n. 49 de 14 de marzo 2014 "Aplicación de la Directiva 2012/19/UE relativa a residuos de aparatos eléctricos y electrónicos (RAEE)".
El símbolo del contenedor tachado indicado sobre los aparatos o sobre los embalajes señala que el producto al final de su vida útil debe ser recogido separadamente de otros residuos municipales mezclados. Por tanto, el usuario deberà conferir los aparatos al final de su vida útil en los apropriados centros de recogida selectiva o devolverlos al revendedor al momento de la compra de nuevos aparatos equivalentes, en una relación de uno a uno. Además, el usuario tiene la posibilidad de entregar sin cargo a los distribuidores, sin ninguna obligación de compra, los RAEEs muy pequeños (para electrodomésticos sin dimensiones externas superiores a 25 cm).
La recogida selectiva apropriada de los RAEEs contribuye a su reutilización, reciclaje y valorización y evita potenciales impactos negativos sobre el medio ambiente y la salud humana debidos a la possible presencia de substancias peligrosas dentro de ellos.

NLD **VERWIJDERING**

In overeenstemming met het Wetsbesluit nr. 49 van 14 maart 2015 "Implementatie van de Richtlijn 2012/19/EU inzake afgedankte elektrische en elektronische apparaten (AEEA)".
Het doorgekruiste vuilnisbaksymbool op het apparaat of de verpakking geeft aan dat het product aan het einde van zijn levensduur niet samen met het gewone huisvuil weggegooid mag worden. De gebruiker moet het apparaat aan het einde van zijn levensduur inleveren bij een gepast inzamelpunt of de winkel waar hij een nieuw apparaat van een gelijksoortig type zal kopen. De gebruiker kan tevens AEEA's van een zeer klein formaat (huishoudapparaten met een buitenafmeting kleiner dan 25 cm (9,84 inch)) gratis en zonder enige aankoopverplichting bij handelaars inleveren.
Een juiste verwijdering van AEEA's draagt bij tot hergebruik, recycling en terugwinning, en voorkomt potentiële negatieve effecten op het milieu en de menselijke gezondheid door de mogelijke aanwezigheid van gevaarlijke stoffen.

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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 2014/30/EU (EMC); 2014/35/EU (LVD); 2011/65/EU (RoHS): CE marking 93/68/EEC.

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