

Fig. 1 Art. KRA76

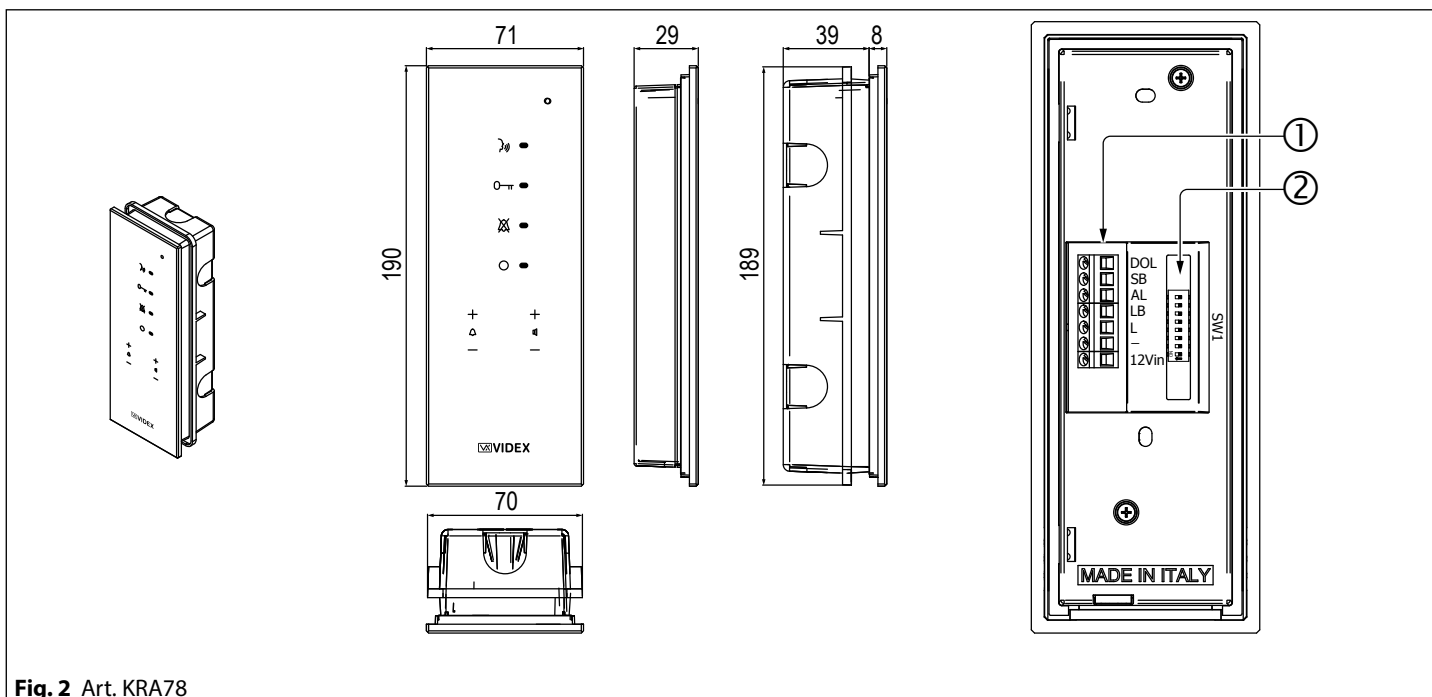


Fig. 2 Art. KRA78

DESCRIPTION

Intelligent Hands free intercom for the VX2200 digital system with touch sensitive buttons for “door open/concierge call”, “answer/camera recall”, “privacy” and “service” plus 4 buttons for volume adjustment and programming plus 4 LEDs related to the intercom operation. For the surface version only (Art. KRA76), a handset can also be used in addition to the handsfree mode.

The following programmable options are available:







- Call tone volume.
- Speech volume.
- Intercom address (from 1 to 180).
- Privacy duration (from 30 minutes to 20 hours or unlimited).
- Call melodies (9 available).
- Number of rings (from 1 to 9).
- Intercommunication mode/ Extension ID (from firmware release 2.0 and later).

Additionally the Kristallo has an input for local door bell and alarm.

LEGEND

- ① Connection terminals
- ② 8 way dip switch bank to set videophone address

PUSH BUTTONS AND CONTROLS

	<ul style="list-style-type: none"> • Press this button during an incoming call to open the speech in half duplex mode allowing free speech with the caller in both directions (The related LED will illuminate). • During a conversation, momentary operation of this button will end the call. The LED next to the button will switch off. The system will automatically switch off when the conversation time expires. • Press and hold this button (more than 1 second), during an incoming call or a conversation in progress, to allow the user to answer a call from a visitor at the door station in SIMPLEX speech mode (The related LED will flash rapidly): releasing the button will allow the user to listen to the visitor (The LED will flash slowly). Press and hold the button when you talk to the visitor and release the button when you listen to the visitor. • When the system is in standby, (No calls on the system) operation of this button will open the speech to the door station (Only when the recall facility is enabled). The related LED will illuminate. Press as many time as the ID value of the door panel to connect to.
	<ul style="list-style-type: none"> • During a conversation, operation of this button will release the door from where the call originated. This will be confirmed by an acoustic tone. If terminal "DL" is connected, the "door open" LED next to the button will also be illuminated. • When the system is in stand-by, a button press will book a call to the concierge (If available)
	<ul style="list-style-type: none"> • When the system is in stand-by, press this button to enable the service for the programmed time: the related LED will illuminate to signal the service enabled. During an incoming call, with the service enabled, the device does not emit any acoustic signal. The service is disabled when the programmed time expires or pressing again the button. • When the system is in stand-by, keep pressed this button until the unit emit a beep and the related LED switches ON to enter to privacy duration programming menu.
	<p>Press this button to enable the active low output "SB" for 2 seconds. The related LED illuminates and the intercom emits two beep.</p>
	<p>When the system is in stand-by, press "+" or "-" (the intercom emits a beep) to increase or decrease the volume level of the call tone: two short beeps signal the maximum or minimum level reached.</p>
	<p>When intercom is in conversation, press "+" or "-" (the intercom emits a beep) to increase or decrease the volume level of the speech: two short beeps signal the maximum or minimum level reached.</p>

OPERATION

DURING STAND-BY

Intercommunication

Press the right "+" button as many time (1 to 9) as the PHONE ID or the EXT. ID (depending on the intercommunication mode i.e. In the same apartment or between different apartments) of the videophone/intercom to call. The "}" LED will flash with every press.

RECEIVING A CALL

During a call:

- To answer in hands free mode press the "}" button (or pick up the handset on model Art. KRA76);

DURING THE CONVERSATION

During the conversation:

- To switch from hands free to push to talk mode, keep pressed the "}" until the related LED starts to flash slowly. Keep pressed the "}" button to talk to the visitor (the LED flashes quickly) and release the button (the LED flashes slowly) to listen to the visitor;
- To open the door press the "O—TT" button;
- To enable the secondary service keep pressed the "O" button until the confirmation is received.

UNIT INITIALIZATION

TO RESTORE FACTORY PRESET

Make a link between the "LB" and "-" terminals, power up the system and wait until } LED flashes once then remove the link.

Factory default settings:

- The melody volume "△" (factory preset medium level);
- The speech volume "🔊" (factory preset medium level);
- The melody (factory preset 1);
- The number of rings (factory preset 6);
- The privacy duration (factory preset never ending);

- The intercommunication mode (factory preset extension ID 1 intercommunication inside the same apartment)

TO ENABLE ENTRANCE RECALL FUNCTION

Make a link between "AL" and "-". Power up the system and wait until "LED" flashes twice then remove the link (to disable the feature follow the same procedure, the LED "LED" will flash only once).

Now, when the system is in standby (No calls on the system), operation of "LED" button will open the speech to the door station. The related LED will illuminate. Press as many time as the ID value of the door panel to connect to (i.e. to open the speech to the door panel with ID 3, press 3 times the button "LED").

PROGRAMMING

Before connecting the intercom to the system, it is important to set the intercom address by the 8 way dip-switch on the back of the unit. All other programming must be made with the intercom connected, powered and in stand-by.

INTERCOM ADDRESS SETUP SW1 (PHONE ID)

Each device must be addressed in binary (PHONE ID) using the 8 way dipswitches located on the rear of the unit. Each switch correspond to one bit which can have a value 0 (OFF) or 1 (ON). Each bit corresponds to a decimal weight depending on the position: Switch 1 = decimal 1, 2=2, 3=4, 4=8, 5=16, 6=32, 7=64, 8=128. I.E. to set the address 37, put switches 1, 3 and 6 on (1+4+32=37).

SWITCHES								DECIMAL WEIGHT								ADDRESS
8	7	6	5	4	3	2	1	128	64	32	16	8	4	2	1	
OFF	OFF	OFF	OFF	OFF	OFF	OFF	ON	0	0	0	0	0	0	0	1	1
OFF	OFF	OFF	OFF	OFF	OFF	ON	OFF	0	0	0	0	0	0	1	0	2
OFF	OFF	OFF	OFF	OFF	OFF	ON	ON	0	0	0	0	0	0	1	1	3
OFF	OFF	OFF	OFF	OFF	ON	OFF	OFF	0	0	0	0	0	1	0	0	4
OFF	OFF	ON	OFF	OFF	ON	OFF	ON	0	0	1	0	0	1	0	1	37
ON	OFF	ON	ON	OFF	ON	OFF	OFF	1	0	1	1	0	1	0	0	180

TO SET THE MELODY (9 AVAILABLE)

- Keep pressed the button "-" (loudspeaker minus "LED") until the service LED illuminates: the intercom play the current melody followed by a beep at the end;
- To listen and select another melody, press again the same button "-" (a beep signals the end of play);
- When the required melody is reached, wait for the exit from melody programming to store the selected melody: the unit emits a double beep and the LED switches off.

TO SET THE NUMBER OF RINGS (FROM 1 TO 9)

- Keep pressed the button "+" (loudspeaker plus "LED") until the service LED illuminates and the intercom emits a beep;
- Press the button "+" as many times as the number of rings to be set (each time the button is pressed the unit emits a beep);
- Once the required number is reached, wait for the exit from programming to store the new value: the unit emits a double beep and the LED switches off.

TO SET PRIVACY DURATION (FROM 30 MINUTES TO 20 HOURS OR NEVER ENDING)

- Keep pressed the button "X" until the related LED illuminates and the intercom emits a beep;
- To set never ending, wait the exit from programming without pressing any button otherwise press one or more times the "X" button to set the required time (from 30 minutes to 20 hours) considering that each time the duration increases of 30 minutes (i.e. to set 2 hours press 4 times the button);
- Once set the required number of rings, wait the exit from programming to store the new value set: the unit emits a double beep and the LED switches off.

TO SET AUXILIARY SERVICE DURATION

1. Press and keep pressed "O" button for 5 seconds to enter auxiliary service duration programming mode (the time during which the "SB" output remains active): the "O" LED turns on and the unit emits a "beep";
2. Press "O" button as many seconds as required for the activation: the unit emits a "beep" every time the button is pressed. I.E.: press 30 times for 30 seconds. Default value: 2 seconds. Max value 99 seconds;
3. Wait for some seconds: the "O" LED turns off and the unit emits a double "beep" that confirms the new setting is properly stored;
4. The unit returns to stand-by mode.

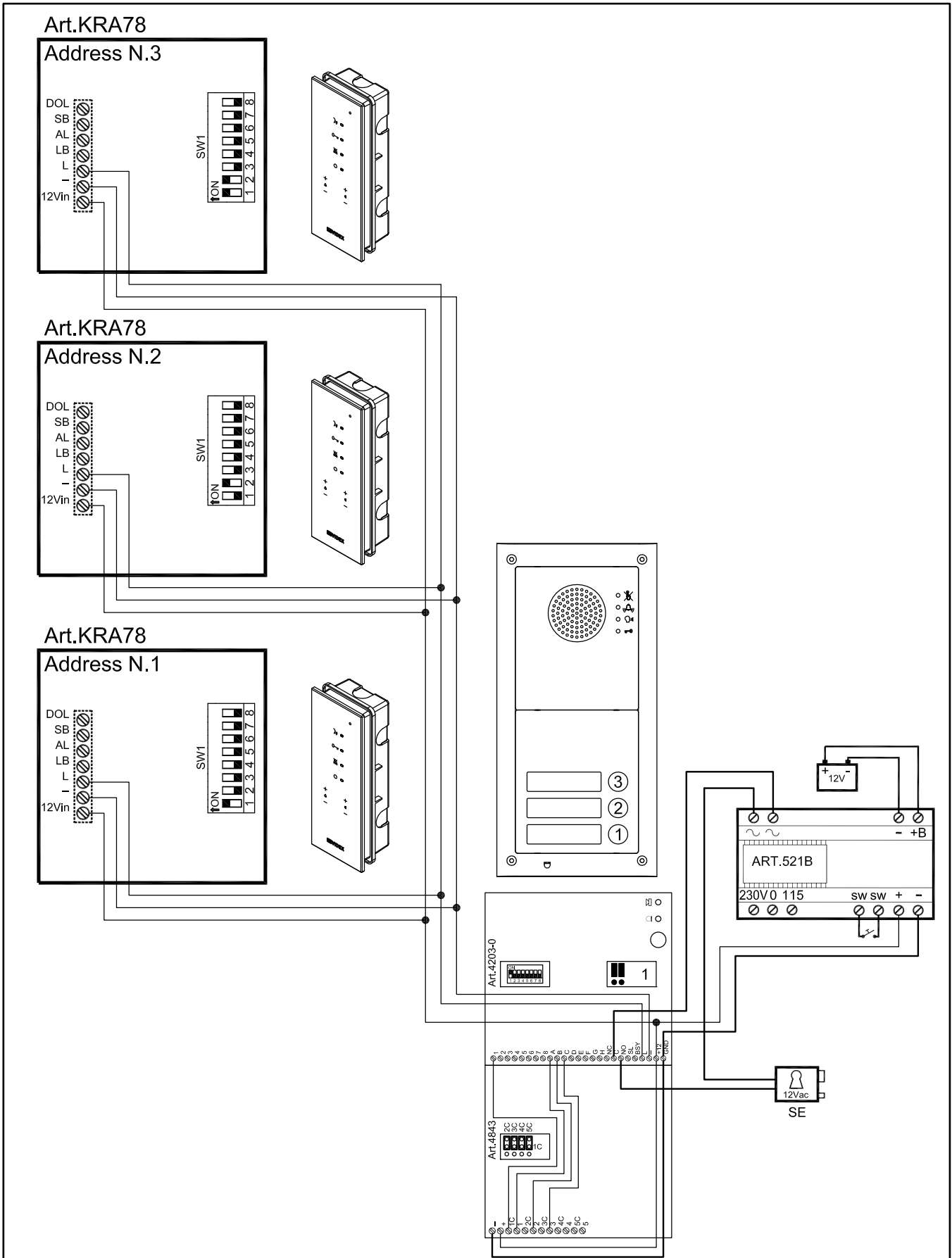
INTERCOMMUNICATION MODE AND EXTENSION ID. SETUP

1. Press and keep pressed "O—π" button for 5 seconds to enter intercommunication mode and extension ID setup: the " })) " LED turns on and the unit emits a "beep";
2. Two intercommunication options are available:
 - » To enable intercommunication between different apartments (units with different PHONE ID) press nothing to enable "APT. MODE": this enables intercommunication among devices in different apartments having PHONE IDs from 1 to 9;
 - » To enable intercommunication between extensions in the same apartment (units with the same PHONE ID but with different Extension ID) press the "O—π" button as many times (1 to 9) as the value of the Extension ID to set for this intercom. this enables intercommunication between devices in the same apartment having EXTENSION IDs from 1 to 9;
3. Wait for some seconds: the " })) " LED turns off and the unit emits a double "beep" which confirms the new setting is properly stored;
4. The unit returns to stand-by mode.

TERMINALS	
DOL	12Vdc input to supply "door open" LED
SB	Open collector output (active low) for service call button. When the monitor is switched on, keep pressed the "O" button until the service is enabled. Once enabled the output remains active for 2s approx. Max 24V - 100mA dc.
AL	Active low input for alarm signal. When active, the system sends the alarm to the concierge if installed and enables the Art. 512DR if installed and properly configured for the alarm management
LB	Active low input for local call "Local Bell"
L	BUS DATA line input
-	BUS Ground line input
12Vin	Stand-by +12Vdc power supply input

TECHNICAL SPECIFICATION

- Power supply voltage:** 12÷14Vdc
Power consumption: Stand-by: 6mA max (on 12Vdc)
 Operating: 200mA Max (on 12Vdc)
Working temperature: -10° +50° C



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Videx Electronics S.p.A.
Via del Lavoro 1, 63020 Monte Giberto (AP)
Phone: +39 0734 631668 - Fax: +39 0734 631669
www.videx.it - info@videx.it

Notes:
Note:

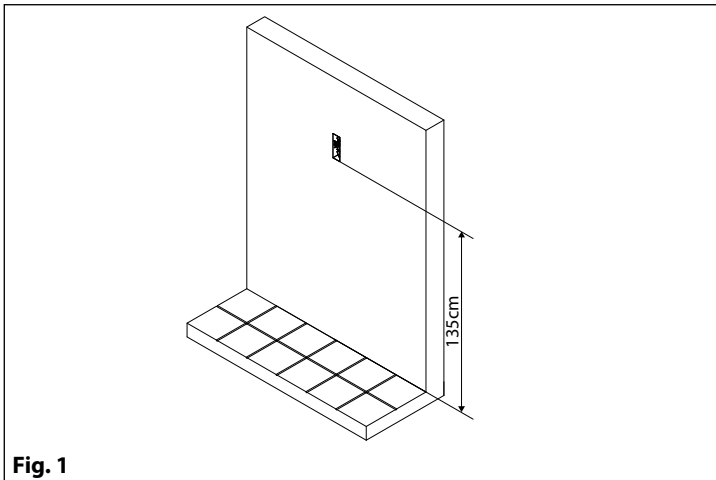


Fig. 1

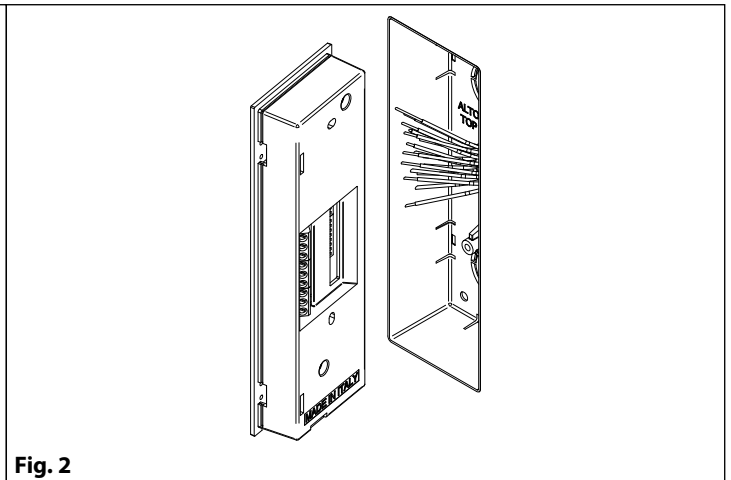


Fig. 2

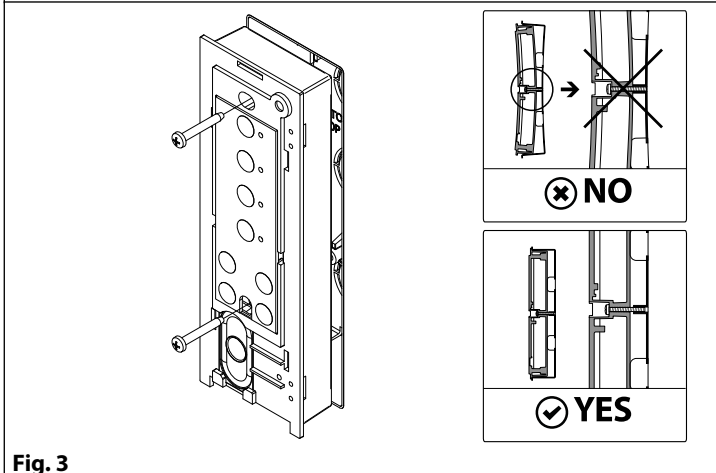


Fig. 3

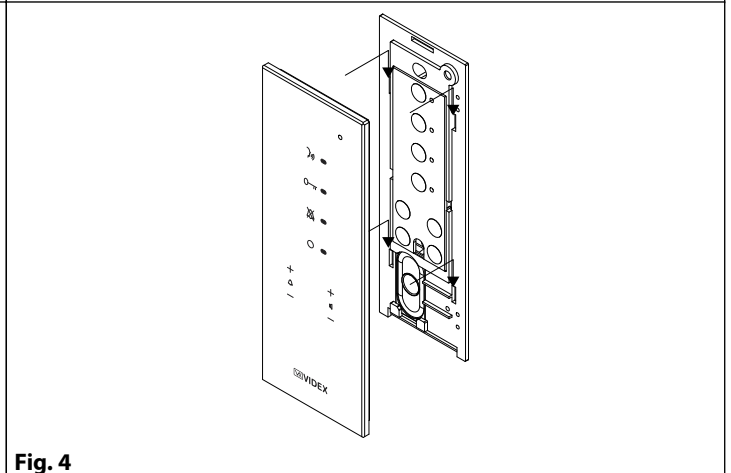


Fig. 4

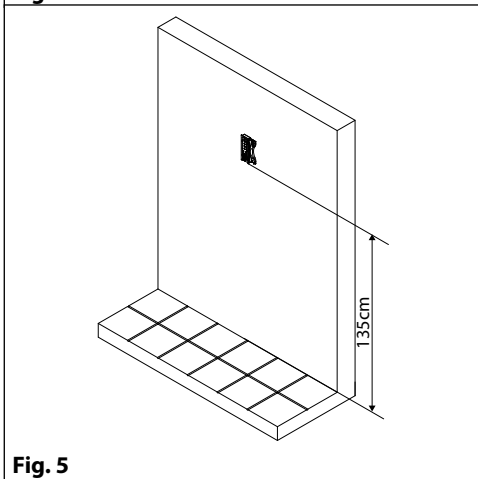


Fig. 5

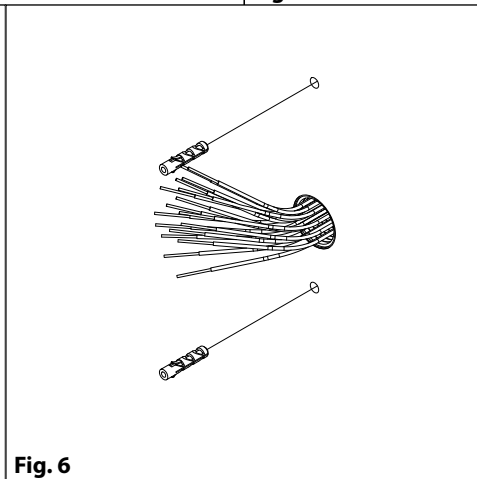


Fig. 6

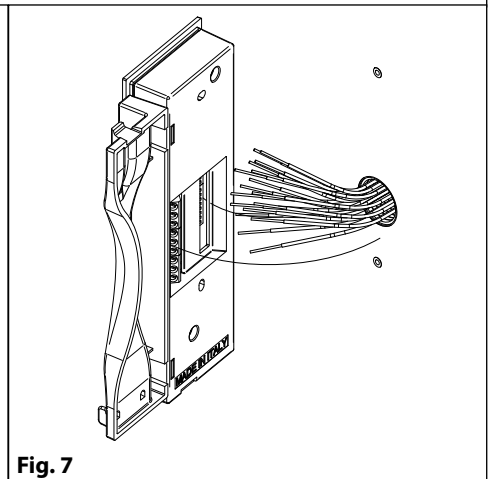


Fig. 7

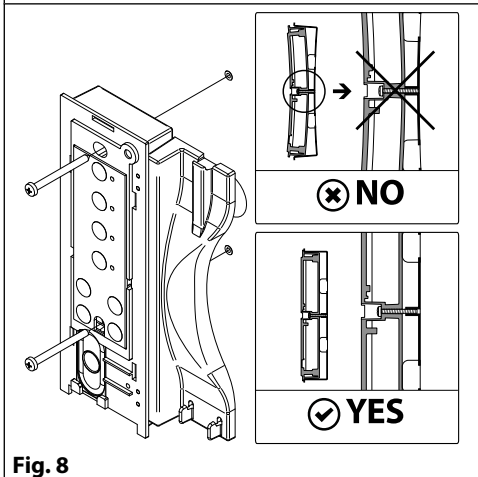


Fig. 8

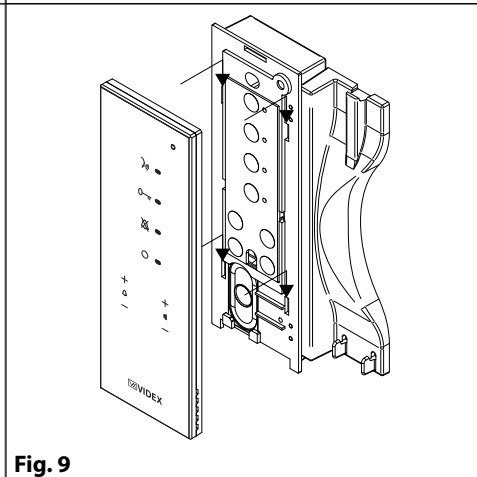


Fig. 9

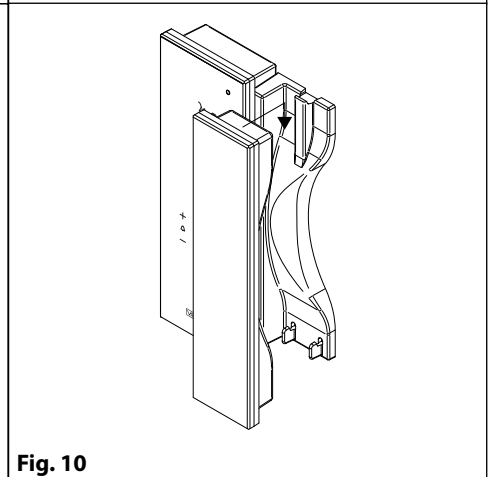


Fig. 10

FLUSH KRISTALLO INTERCOM – MOUNTING INSTRUCTIONS

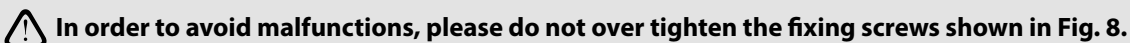
1. Protect the holes to fix the intercom to the flush mounting box then embed the flush mounting box in line with the wall in vertical position at 135cm height from the floor as shown in **Fig. 1**;
2. As shown in **Fig. 2**, connect the wires using a flat screw driver then setup the dip-switches as per provided connection diagram or instruction sheet.
3. As shown in **Fig. 3**, once the wires are connected, fix the intercom to the flush mounting box using a Phillips screwdriver and the two screws provided.

 **In order to avoid malfunctions, please do not over tighten the fixing screws shown in Fig. 3.**

4. Once the intercom is fixed to the flush mounting box, place the front plate against the intercom by inserting the hooks in the corresponding openings and hook the plate by pushing it down as shown in **Fig. 4**.
5. Test the system for correct operation.

SURFACE KRISTALLO INTERCOM – MOUNTING INSTRUCTIONS


1. As shown in **Fig. 5**, place the intercom against the wall at 135cm height from the floor and mark the fixing holes. Make the holes (5mm diameter) and insert the provided wall plugs as shown in **Fig. 6**.
2. As shown in **Fig. 7**, connect the wires using a flat screw driver then setup the dip-switches as per provided connection diagram or instruction sheet.
3. As shown in **Fig. 8**, once the wires are connected, fix the intercom to the wall using a Phillips screwdriver and the two screws provided.

 **In order to avoid malfunctions, please do not over tighten the fixing screws shown in Fig. 8.**

4. Once the intercom is fixed to the wall, place the front plate against the intercom by inserting the hooks in the corresponding openings and hook the plate by pushing it down as shown in **Fig. 9** and hang the handset as shown in **Fig. 10**.
5. Test the system for correct operation.

TOUCH SENSITIVE KEYS ADJUSTMENT

Cleansing the panel with the plate on or removing the plate for any reason may cause the touch sensitive buttons to lose their adjustment. If you detect any malfunctions, we suggest you proceed as follows:

- Remove the front plate doing the contrary of what is shown in **Fig. 4** and **Fig. 9**;
- Touch the touch sensitive  button area (the third of the four areas aligned in vertical way) until the relevant LED turns on (approx 5 seconds);
- Hang up the front plate as shown in **Fig. 4** and **Fig. 9** before the display turns off;
- When the LED turns off the setting is done and the system is ready for use.



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VIDEX ELECTRONICS S.P.A.

Via del Lavoro, 1 - 63846 Monte Giberto (FM) Italy
Tel (+39) 0734 631669 - Fax (+39) 0734 632475
www.videx.it - info@videx.it

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

Main UK office:

VIDEX SECURITY LTD

1 Osprey Trinity Park
Trinity Way
LONDON E4 8TD
Phone: (+44) 0870 300 1240
Fax: (+44) 020 8523 5825
www.videx-security.com
marketing@videx-security.com

Northern UK office:

VIDEX SECURITY LTD

Unit 4-7
Chillingham Industrial Estate
Chapman Street
NEWCASTLE UPON TYNE - NE6 2XX
Tech Line: (+44) 0191 224 3174
Phone: (+44) 0870 300 1240
Fax: (+44) 0191 224 1559

Greece office:

VIDEX HELLAS Electronics

48 Filolaou Str.
11633 ATHENS
Phone: (+30) 210 7521028
(+30) 210 7521998
Fax: (+30) 210 7560712
www.videx.gr
videx@videx.gr

Danish office:

VIDEX DANMARK

Hammershusgade 15
DK-2100 COPENHAGEN
Phone: (+45) 39 29 80 00
Fax: (+45) 39 27 77 75
www.videx.dk
videx@videx.dk

Benelux office:

VIDEX BENELUX

E3 laan, 93
B-9800 DEINZE
Phone: (+32) 9 380 40 20
Fax: (+32) 9 380 40 25
www.videxbenelux.be
info@videxbenelux.be



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