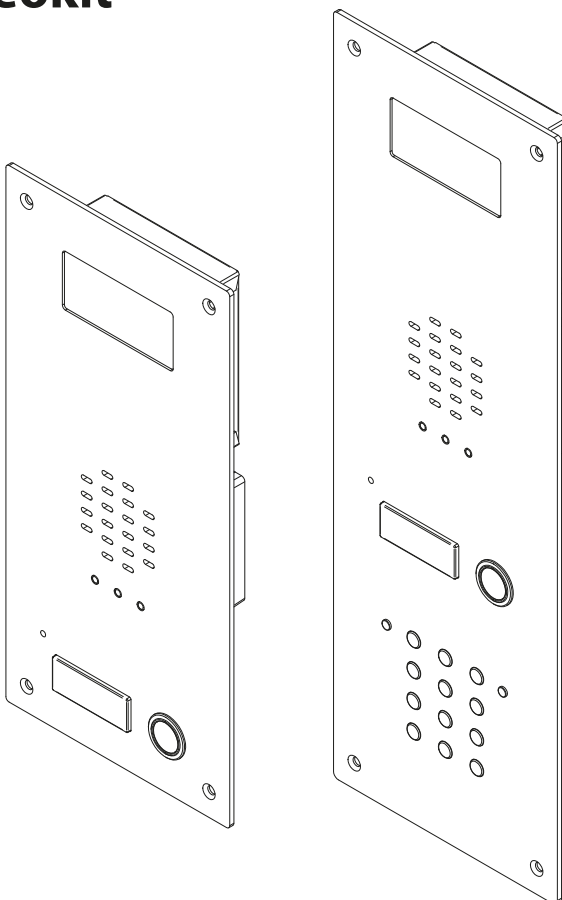
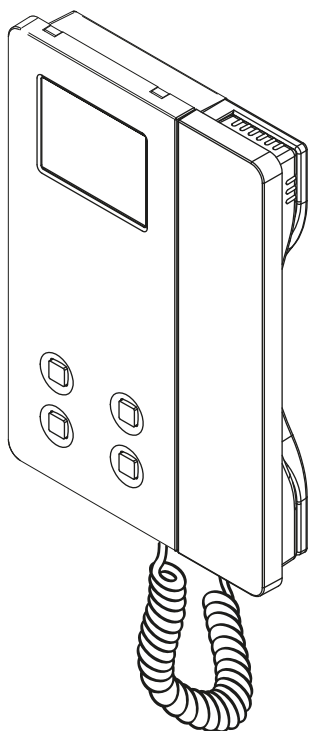


VIDEOKIT

CVRVK-6000 SERIES

One Way Vandal Resistant Videokit

CVRVK-1
CVRVK-1/CL



6000 SERIES

Installation handbook

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DECLARATION OF RESPONSIBILITY

This manual has been written and revised carefully. The instructions and the descriptions which are included in it are referred to VIDEX parts and are correct at the time of print. However, subsequent VIDEX parts and manuals, can be subject to changes without notice. VIDEX Electronics S.p.A. cannot be held responsible for damages caused directly or indirectly by errors, omissions or discrepancies between the VIDEX parts and the Manual.

Introduction

CVRVK-1/6000

ONE WAY VIDEOKIT WITH COLOUR VIDEOPHONE AND CAMERA

The CVRVK is a range of videokits that use a special vandal resistant plate (the speaker unit is a specific module while the camera is a standard module) and the 6000 Series videophone Art. 6056 which is specific for this range of videokit and VK4K range.

As a result of using microprocessor technology in the door panel and videophone, a number of additional features have been added to enhance the operation of the videokits and give greater feedback to the visitor and user.

- Programmable door open and conversation time.
- Expandable to 4 entrance panels (requires an additional relay Art.506N for each entrance panel).
- Connections for a push to exit button.
- Two methods of operating the electric lock:- 1) Dry contact relay, 2) capacitor discharge circuit.
- Facility for the connection of other modules supplied by 12Vdc (300mA max).
- Programmable number of call tone rings from 2 to a maximum of 8.
- Input for local door bell push button.
- Programmable timed privacy function from 15 minutes to a maximum of 8 hours.
- Door open status LED (additional wire required from the door to the videophone).
- Up to 4 videophones can be connected in parallel, all with intercommunication facility.
- Videophones can have a maximum of two additional audio telephone handsets connected in parallel.
- Camera recall on all systems, with selective recall on systems with multiple entrances.
- Door panel camera can be adjusted horizontally and vertically (10 degrees).

The kit comprises of:

- 1 Colour Camera module that includes a high quality colour CCD camera with auto iris lens, infrared LEDs for illumination.
- 1 Specific speaker unit module which includes the audio amplifiers and the connections for up to 2 call buttons;
- 1 4000 Series two module flush mounting box;
- 1 6000 Series Art. 6056 Surface mount videophone incorporating a 2.4" Hi-Res full colour active matrix LCD monitor specific for "6 wire" videokit (CVK4K, CVR4KV and CVK8K range).
 It includes 4 buttons: "camera recall" "open door" "service" and "privacy".
 2 LED's* indicate the privacy activated and open door. Programmable privacy duration and number of rings. Intercommunicating call and door call.
 Adjustments: call tone volume switch (3 levels), picture hue, contrast and brightness.
- 1 Regulated power supply with mains voltage 230Vac 50/60Hz and outputs 12Vdc, 18Vdc and 13Vac.

CVRVK-1/CL/6000

ONE WAY VIDEOKIT COLOUR PLUS A CODELOCK MODULE

As CVRVK-1 but with 3 modules flush mounting box plus a vandal resistant line stand-alone code lock module. The user can open the door from outside by typing the relevant access code into the keypad.

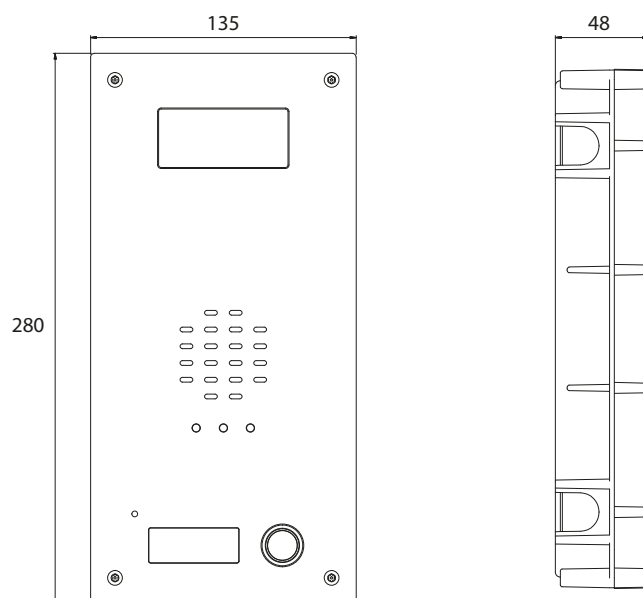


Fig. 1 - CVRVK-1

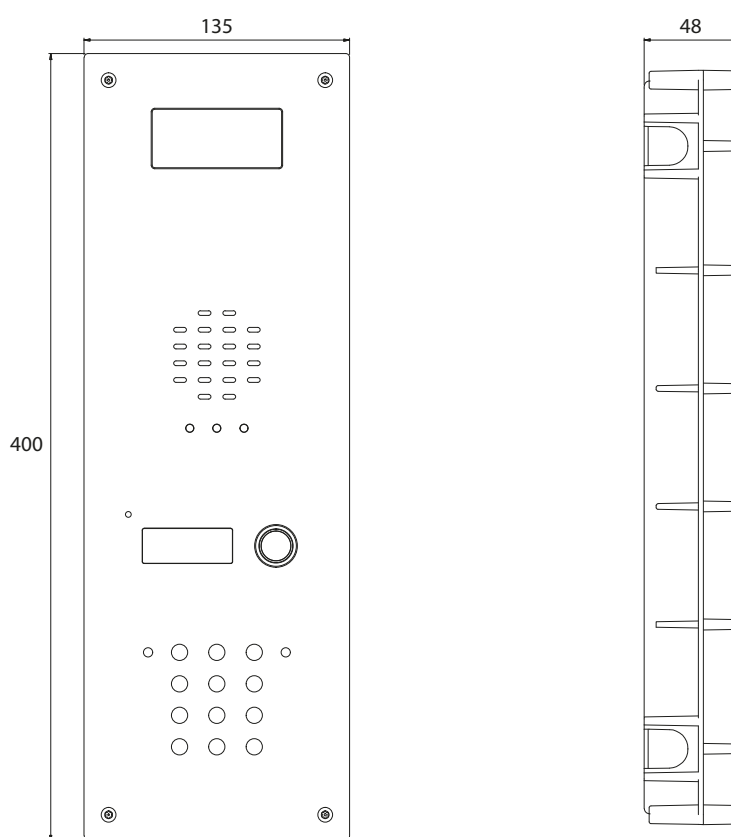
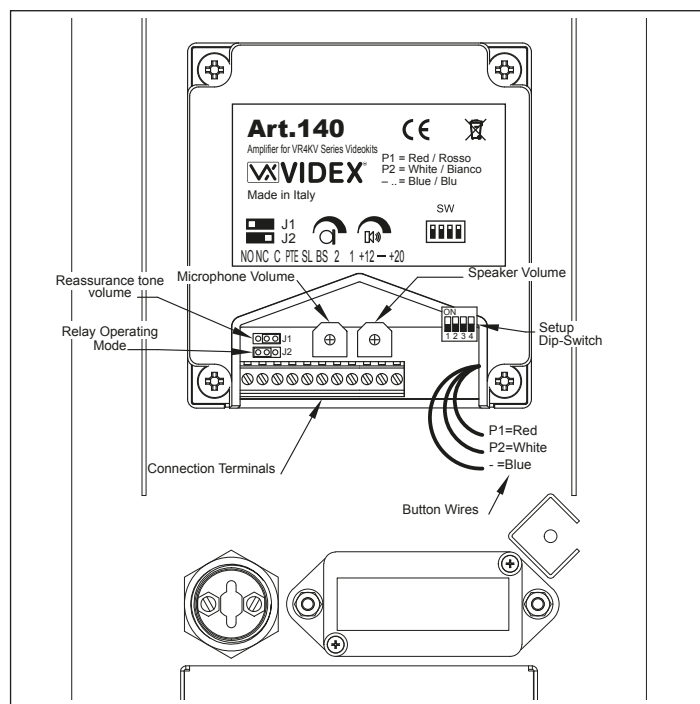
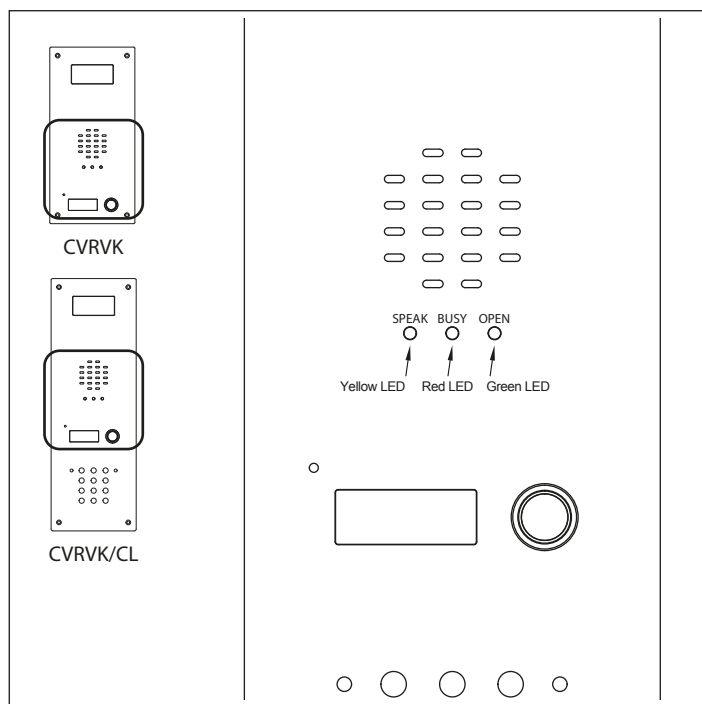


Fig. 2 - CVRVK-1/CL

Speaker unit



LEDS

YELLOW	Illuminates during the conversation.
RED	Illuminates when the speaker unit is operating or when other speaker units in the same system are operating to signal the busy state of the system.
GREEN	Illuminates when the door opens for the duration of the door opening time.

CONTROLS (SPEAKER & MICROPHONE VOLUME)

	Trimmer to adjust the speaker volume. Rotate clockwise to increase or anti-clockwise to decrease.
	Illuminates when the speaker unit is operating or when other speaker units in the same system are operating to signal the busy state of the system.

SETTINGS (DIP-SWITCH & JUMPERS)

4 WAY DIP-SWITCH

First two switches are used to set the speaker unit address: the speaker unit address is required for camera recall operation on 2 or more entrance systems.

ON ↑ □=ON □=OFF 1234 SW	Switches 1,2 OFF OFF 1 ON OFF 2 OFF ON 3 ON ON 4
ON ↑ □=ON □=OFF 1234 SW	Switch 3 OFF 60 seconds ON 120 seconds
ON ↑ □=ON □=OFF 1234 SW	Switch 4 OFF seconds ON 6seconds

JUMPERS J1, J2

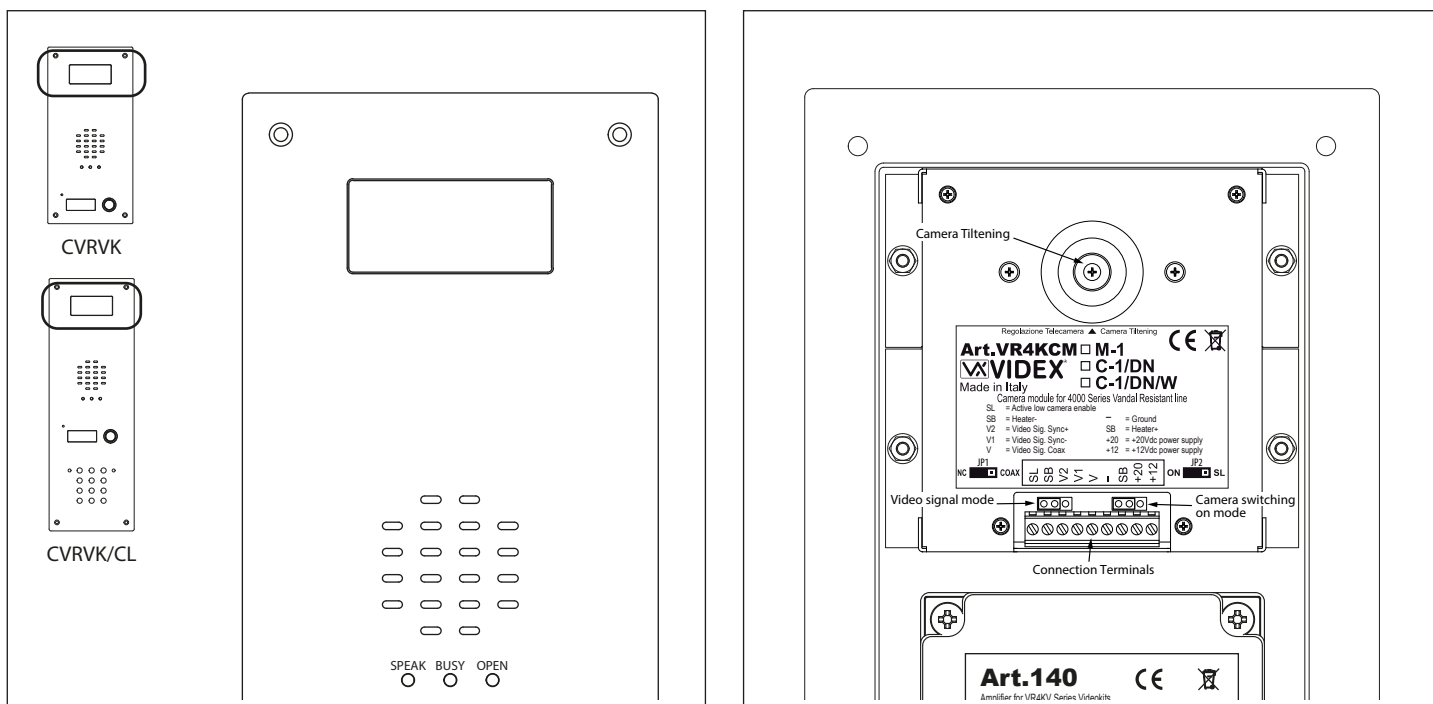
J1 Position	Call tone reassurance volume
Right	High
Left	Low
J2	PositionCapacitor discharge
Right	Dry contacts
Left	Door open relay operating mode

When the door open relay operating mode is set to "capacitor discharge", one terminal of the electric lock must be connected to ground while the second must be connected to "NO" terminal. The "NO" terminal will supply a temporary volt- age when the speaker unit receives the door open command. In "dry contact" mode the "NO" terminal

is internally linked to "C" terminal when the speaker unit receives the door open command.

SIGNALS (TERMINALS)	
NO	Door open relay normally open contact
NC	Door open relay normally closed contact
C	Door open relay common contact
PTE	Active low input to control directly the door open relay
SL	Active low output to enable the enslavement relay for video signal exchange (active with a call in progress)
BS	Input/Output busy signal (approx 12V in stand-by, approx 0V with a call in progress)
2	Speech line output from the microphone (approx 12V in stand-by, approx 3V with a conversation in progress)
1	Speech line input toward the loudspeaker and data signal (approx 12V in stand-by, approx 5V with a conversation in progress)
+12	12Vdc 0.3A max output to supply accessories
—	Power input ground
+20	Power input 16÷20Vdc

Camera module



SIGNALS (TERMINALS)

SL	Door open relay normally open contact
SB	Door open relay normally closed contact
V1	Door open relay common contact
V2	Active low input to control directly the door open relay
V	Active low output to enable the enslavement relay for video signal exchange (active with a call in progress)
—	Input/Output busy signal (approx 12V in stand-by, approx 0V with a call in progress)
SB	Speech line output from the microphone (approx 12V in stand-by, approx 3V with a conversation in progress)
+20	Speech line input toward the loudspeaker and data signal (approx 12V in stand-by, approx 5V with a conversation in progress)
+12	12Vdc 0.3A max output to supply accessories

SETTING

The JP1 jumper sets the video signal mode:

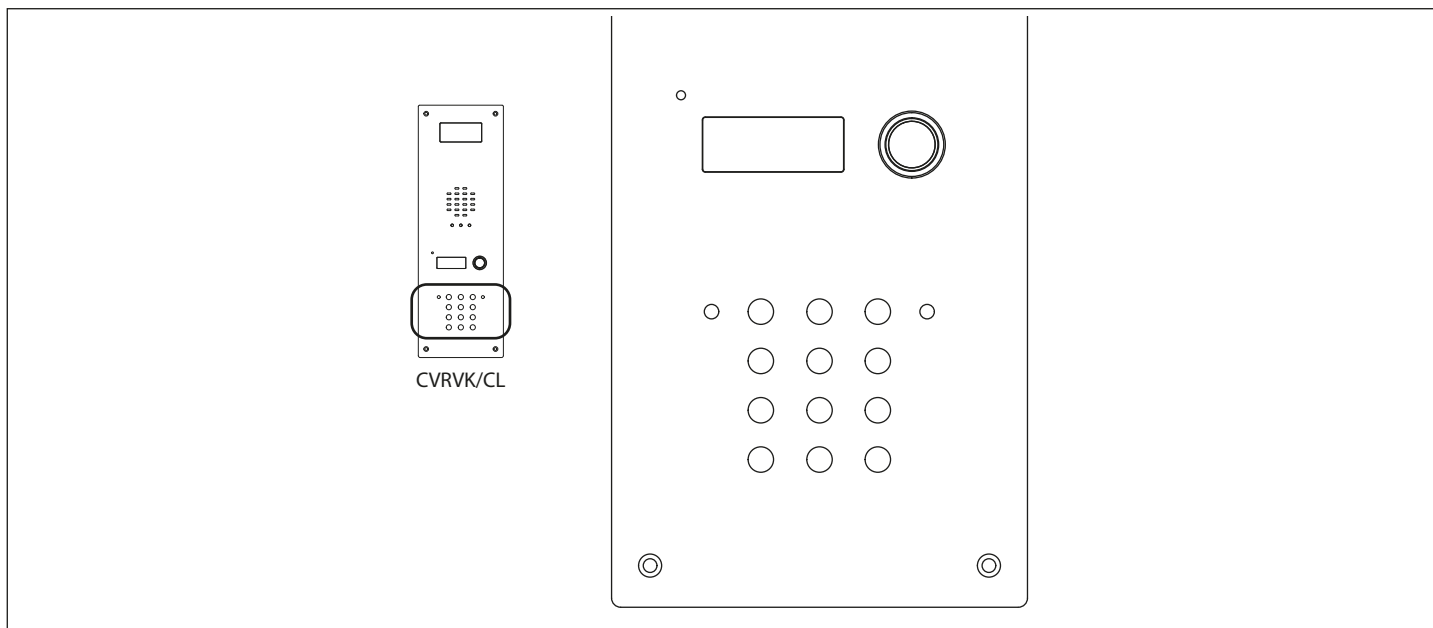
- **NC** = Balanced video signal (terminals "V1" and "V2");
- **COAX** = Coax video signal (terminals "V" and "-");

The JP2 jumper sets the camera switching on mode:

- **ON** = The camera switches on if supplied on one of the two power supply inputs +12Vdc or +20Vdc;
- **SL** = The camera switches on if supplied on one of the two power supply inputs +12Vdc or +20Vdc;

The camera tilting is available on all camera models except wide version.

Digital Codelock



CODELOCK UNIT MODULES

The module features 12 stainless steel buttons (Keys **0 - 9**, **ENTER** and **CLEAR**), 2 LED's for progress information during use and programming and a brushed finish stainless steel front plate. With two integral relays each with common, normally open and normally closed connections and two inputs to enable the external triggering of relays one and two (for example, push to exit button). Key presses are signalled both acoustically and visually while each button press has a tactile feel. Entering the correct code followed by ENTER will activate the relevant relay. Programming is carried out through the same keypad following a simple programming menu. The module can be combined with other 4000 Series Vandal resistant modules (for Art.VR4KCLM-1) in an audio or video intercom system.

MAIN FEATURES

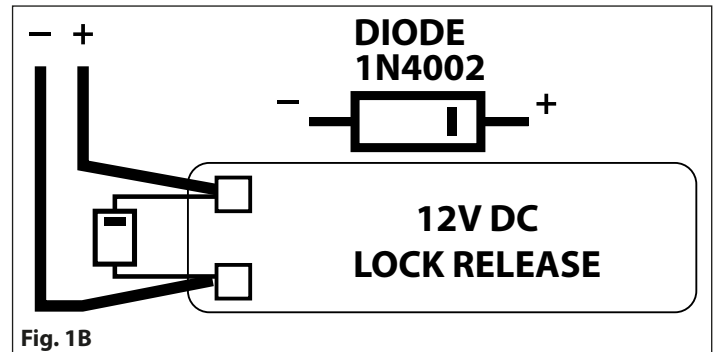
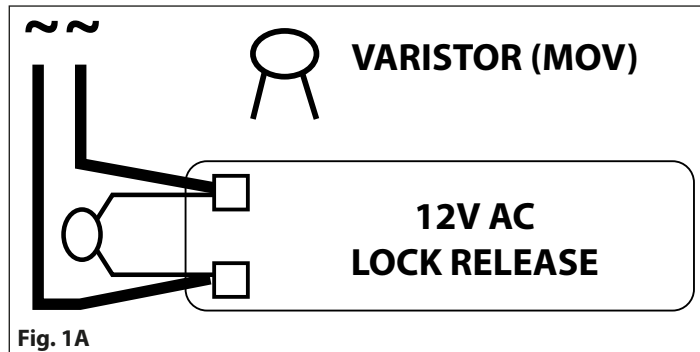
- 2 C, NC, NO relay outputs (24Vac/dc – 5A max);
- 2 Programmable secret codes (one for each relay);
- Each relay can be set to be activated for a specific time (01 to 99 seconds) or to work as latch;
- Two active low inputs to command directly the relay 1 and 2;
- Programming menu guarded by a 4-8 digit programmable engineer's code;
- Visual and Acoustic signal during operating and programming;

GENERAL DIRECTIONS FOR INSTALLATION

- In order to achieve the best results from the schematics described it is necessary to install only original VIDEX equipment, strictly keeping to the items indicated on each schematic and follow these General Directions for Installation:
- The system must be installed according to national rules in force, in any case the running of cables of any intercom unit must be carried out separately from the mains;
- All multipair cables should be compliant to CW1308 specification (0.5mm twisted pair telephone cable).
- Cables for speech line and service should have a max resistance of 10 Ohm
- Lock release wires should be doubled up (Lock release wires and power supply wires should have a max resistance of 3 Ohm);
- The cable sizes above can be used for distances up to 50m. On distances above 50m the cable sizes should be increased to keep the overall resistance of the cable below the RESISTANCES indicated above;
- Double check the connections before power up;
- Power up the system then check all functions.

LOCK RELEASE BACK EMF PROTECTION

A varistor must be fitted across the terminals on AC lock release (**Fig.1A**) and a diode must be fitted across the terminals on a DC lock release (**Fig.1B**) to suppress back EMF voltages. Connect the components to the lock releases as shown in figures.



BUZZER BACK EMF

When using intercoms with buzzer call (Art.924/926, SMART1/2, 3101/2, 3001/2 and 3021/2) add one 0,1uF capacitor between terminals 3 and 6 on the telephone.

BUILT-IN RELAYS – BACK EMF PROTECTION

The codelocks includes selectable back EMF protection on the relays. The jumpers marked MOV (One jumper for each relay) are used to select the protection type. When using a fail secure lock with connections C & NO the jumper should be in the NO position. When using a fail open lock with connections C & NC the jumper should be in the NC position and when using the codelock to trigger a gate controller or another third party controller the jumper should be removed completely (This disables the protection on the relay).

PROGRAMMING (SEE ALSO THE RELEVANT FLOW CHART)

- Enter the “ENGINEER’S CODE”: first time type six times “1” (111111 factory preset) and press “**ENTER**” (The red LED will illuminate);
- Confirm “ENGINEER’S CODE” (typing again the same) or type the new code (4 to 8 digits) then press “**ENTER**” (Melody). Pressing twice the “**ENTER**” button without changing the “ENGINEER’S CODE”, will exit from the programming;
- Enter the code (4 to 8 digits) to enable “RELAY 1” or re-enter the existing code then press “**ENTER**” (Melody);
- Enter the “RELAY 1” operation time (2 digits 01 to 99 I.E. 05=5 seconds, 00= remain open time) or re-enter the existing time then press “**ENTER**” (Melody);
- Enter the code (4 to 8 digits) to enable “RELAY 2” or re-enter the existing code then press “**ENTER**” (Melody);
- Enter the “RELAY 2” operation time (2 digits 01 to 99 I.E. 05=5 seconds, 00= remain open time) or re-enter the existing time then press “**ENTER**” (Melody);
- The system is ready to use (the red LED will be off).

PROGRAMMING NOTES

- After pressing enter following a command, press **ENTER** a further twice to exit the programming menu.

RETURN SYSTEM TO PRESET ENGINEER’S FACTORY CODE

- Turn off power to code lock;
- Keep “**ENTER**” button pressed while turning the power back on;
- Release “**ENTER**” button;
- The engineer’s code is now set to “111111” (six times one).

OPERATION

- Type in the programmed code and press “**ENTER**”;
- If the code is correct, the green LED will illuminate for approx. 2 seconds and the relay relevant to the code will operate for the programmed time;
- If a wrong code is entered, a continuous melody will sound for 4 or more seconds, according to the number of mistakes;
- To switch off any relay while operating, type in the relevant code then press the “**CLEAR**” button;

OPERATION NOTES

- To operate relays together, set the same code for each relay;
- If a wrong code is entered, the system will lock out for 5 seconds which will increase each time a wrong code is entered. The system will operate only when the correct code is entered.

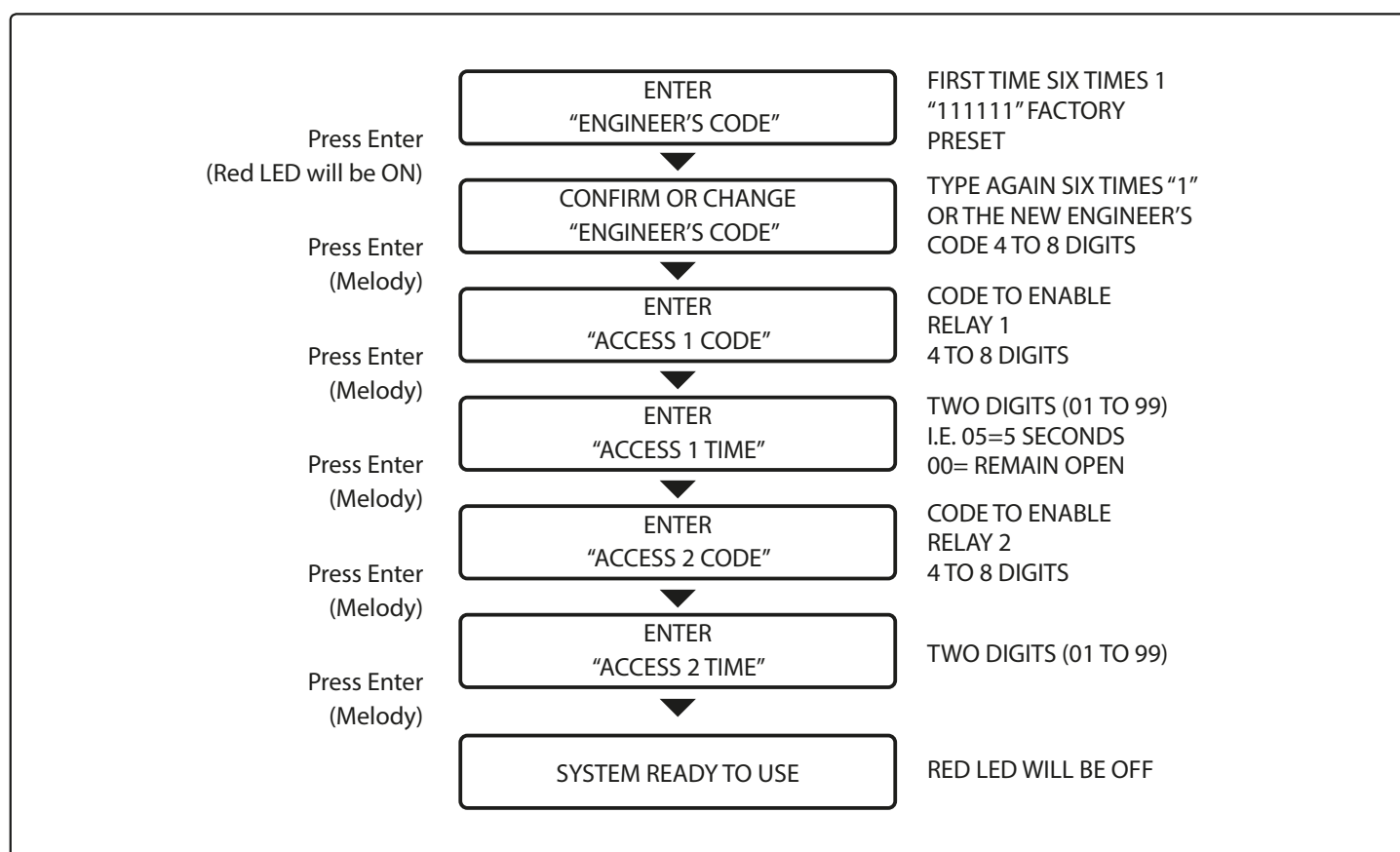
TERMINALS

SW2	Relay 2 command signal (active low)
SW1	Relay 1 command signal (active low)
NC2	Relay 2 normally closed contact
NO2	Relay 2 normally open contact
C2	Relay 2 common contact
NC1	Relay 1 normally closed contact
NO1	Relay 1 normally open contact
C1	Relay 1 common contact
—	12/24Vac/dc power input
+	

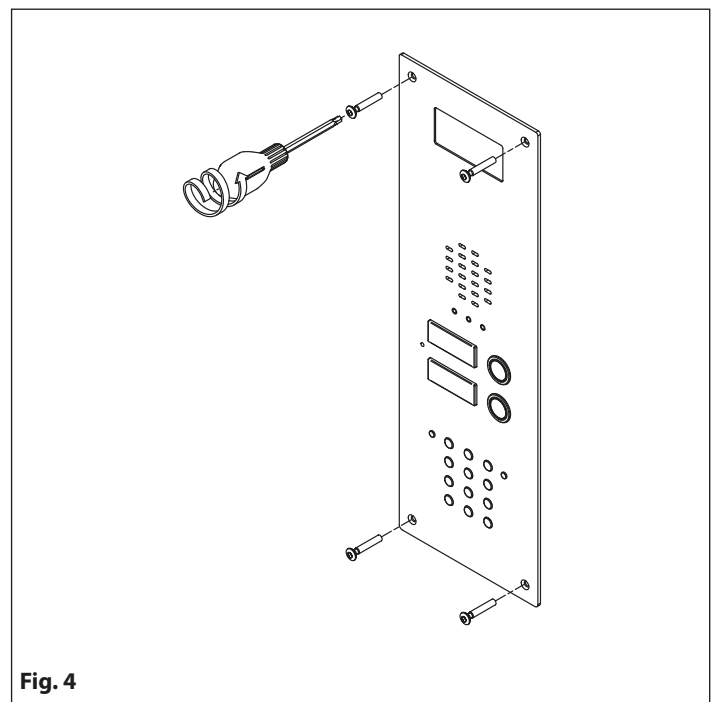
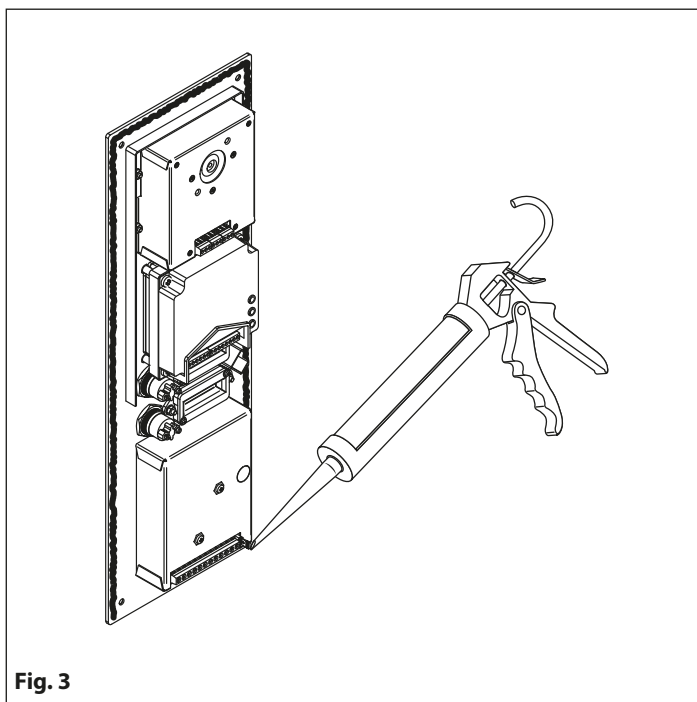
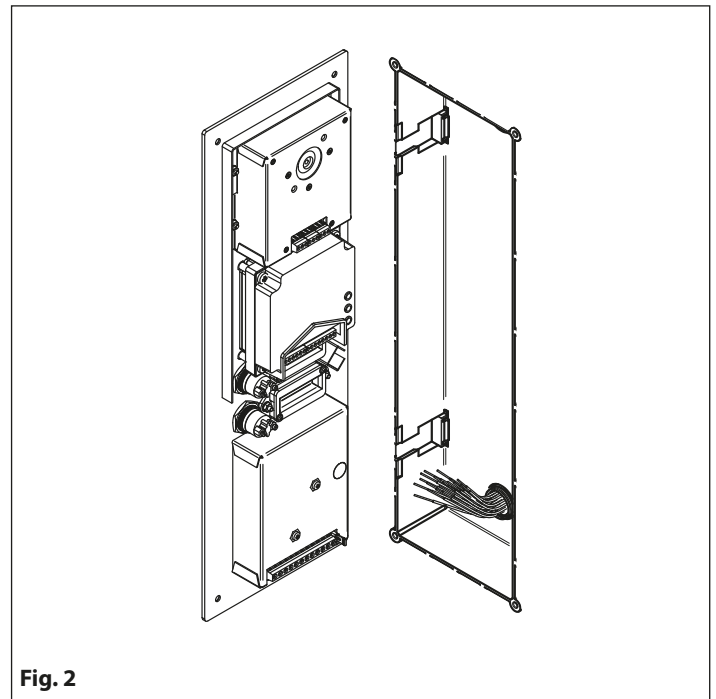
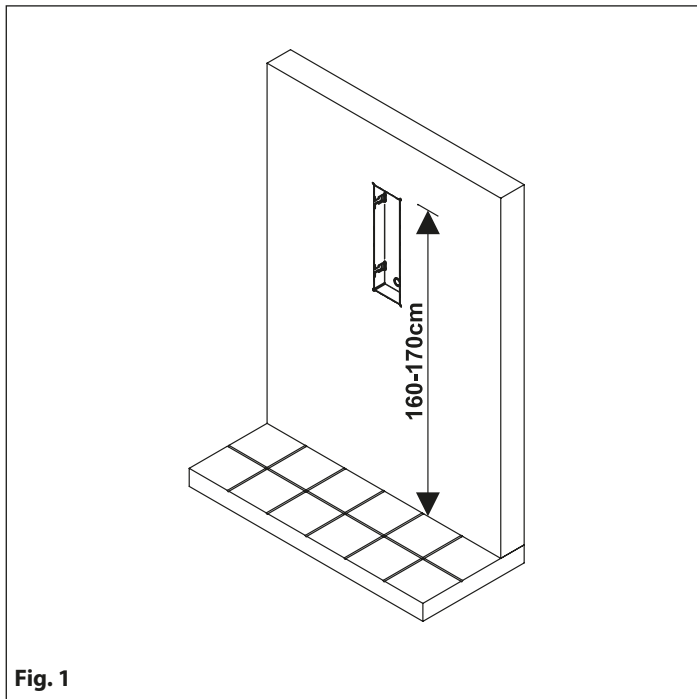
TECHNICAL SPECIFICATION

Power Supply: 12/24 Vac/dc – 2VA
 Power Consumption: 50mA max
 Working Temperature: -10 +50° C

FLOW CHART



Flush mounting door station installation



1. Embed the flush mounting box into the wall (160-170 cm between the top of the box and the floor level as shown on the **Fig. 1**) passing the cables (**Fig. 2**) through a previously opened hole in the box;
2. Make all the connections and test the system.

 **In order to prevent water ingress we highly recommend using a silicon sealant between the plate and the wall (Fig. 3);**

3. Fix the plate to the flush mounting box using the screwdriver provided (torx end) and the pin machine torx screws (**Fig. 4**).
Note: do not over tighten the screws more than necessary.

Art. 6056 2,4" colour display videophone

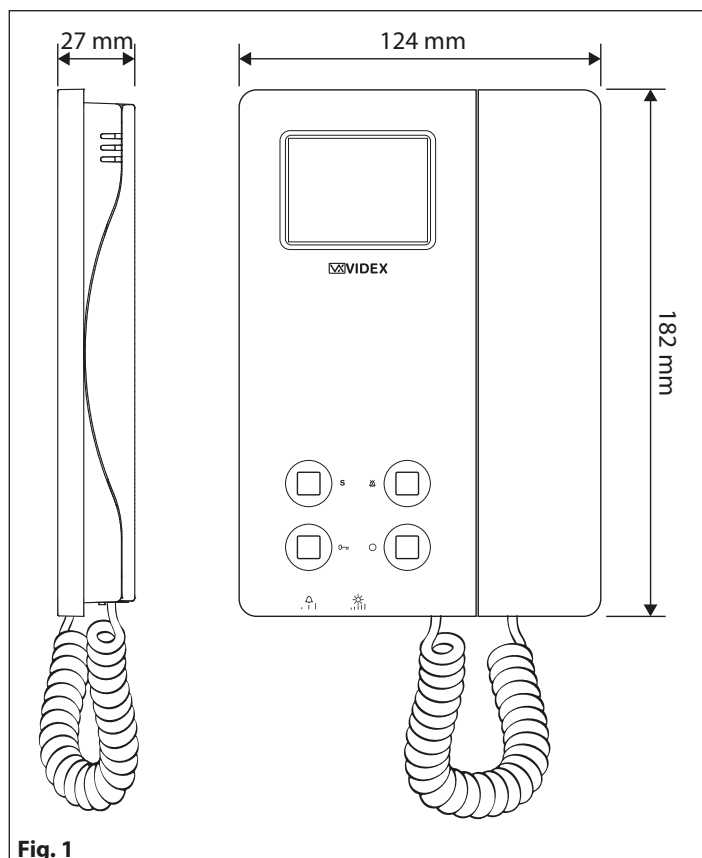


Fig. 1

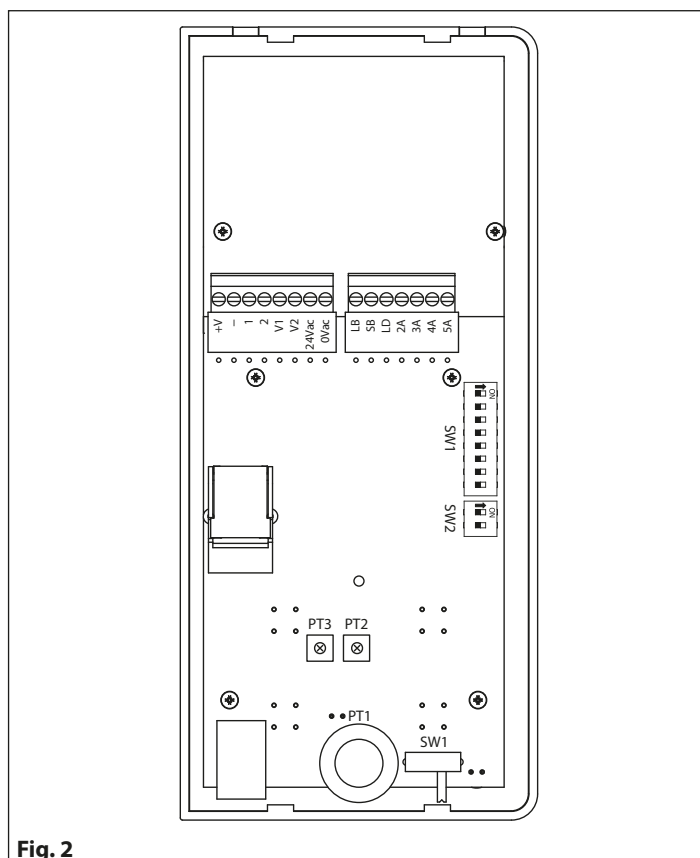


Fig. 2

PUSH BUTTONS

S	Service push button. Shorts the "SB" terminal to GROUND (open collector 24Vdc 100mA max) while the button remain pressed.
○	Camera recall button. Pick up the handset then press the button (Press once for door/gate 1, twice for 2 and so on up to a maximum of 4 entrances): the relevant LED switches ON and the monitor switches on showing the video from the door panel. The speech is also live and the door can be opened by pressing 0 .
0	Door-open / intercommunicating call button. With the handset lifted and speech lines open to the entrance panel, press this button to open the door. If the terminal 14 is properly connected the relevant LED remains switched ON until the door is closed. <u>Intercommunication only works when the system is in stand-by condition.</u> Switch 4 of the SW1 dip-switch selects the type of intercommunication: OFF Intercommunication between two apartments - pick up the handset and press the key button to call the videophone(s) in the other apartment. A busy tone will signal that the other videophone is in conversation with the door station and so cannot be called. ON Intercommunication between videophones in the same apartment - pick up the handset and press the key button one, two, three or four times to call videophone with extension address 1, 2, 3 or 4 (Set on dip-switch 2&3 of SW1). <u>Any intercommunicating conversation is always interrupted by an external call (i.e. External calls take priority).</u>
⊗	Privacy ON-OFF button. When the system is in stand-by, the pressing of this button activates (LED switched on) or disables (LED switched off) the "privacy" service. The service is automatically disabled when the programmed privacy time expires. When the service is enabled the videophone does not receive calls.

LEDS		CONTROLS	
	Door open LED. Can be used to indicate the status of a door or gate. It requires a switched 12Vdc connection to terminal 14.		SW1 Call tone volume controll (3 levels).
	Privacy ON/OFF LED. When the videophone is in stand-by, this LED signals the privacy service status (ON = service enabled, OFF = service disabled).		PT1 Brightness control.
		PT2	PT2 Hue control.
		PT3	PT3 Contrast control.

SETTINGS (DIP-SWITCH)

The videophone setup is carried out by the 2 dip-switch banks.

 SW1	Switches 1 OFF ON	Apartment Address 1 2
 SW1	Switches 2,3 OFF OFF ON OFF OFF ON ON ON	Extension Address 1 2 3 4
 SW1	Switch 4 OFF ON	Intercommunication Between videophones of the two apartment Between videophones in the same apartment
 SW1	Switches 5,6 OFF OFF ON OFF OFF ON ON ON	Numbers of rings 2 4 6 8
 SW1	Switches 7,8 OFF OFF ON OFF OFF ON ON ON	Privacy duration time 15 minutes 1 hours 4 hours 8 hours

2 WAY DIP-SWITCH (SW2)

 SW2	The two way dip-switch adjusts the impedance of the video signal. The default setting is "ON" for both switches (75 Ohm): when there are more videophones in parallel connection (without video distributor) both switches must be "ON" only on the last videophone (looking at the connection order) while for all other videophones both switches must be set to "OFF".
---	---

SIGNALS ON CONNECTION BOARD

+V	20Vdc Input/Output (As input 16÷20Vdc 0,5A – as output 20Vdc 0,5A max)
-	Ground reference for +V terminal.
1	Speech line output from handset's microphone and data signal (Approx. 12V in stand-by, 5V during a conversation)
2	Speech line input toward the handset's loudspeaker (Approx. 12V in stand-by, approx. 3V during a conversation)
V1	Balanced video signal 1 sync.-
V2	Balanced video signal 2 sync.+
24Vac	24Vac 1A max power input
0Vac	0Vac power input
LB	Local call input (5V in standby, 0V to trigger)
SB	Service button (open collector) active low output. The button goes active when the button is pressed (Open Collector 24Vdc 100mA max)
LD	12Vdc input for door-open LED
2A	Speech line input toward the loudspeaker of the parallel telephone (Approx. 12V in stand-by, 3V during a conversation)
3A	Output switched ground for parallel telephone
4A	Output call tone for parallel telephone
5A	Input for door-open command from parallel telephone

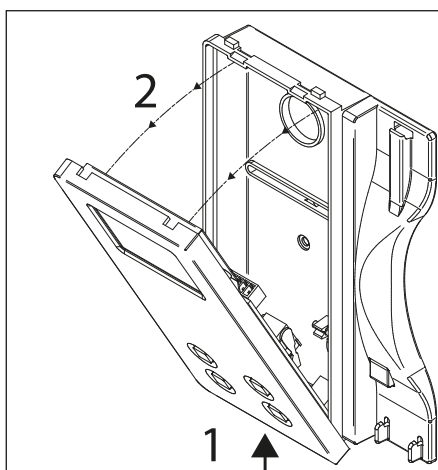


Fig. 1

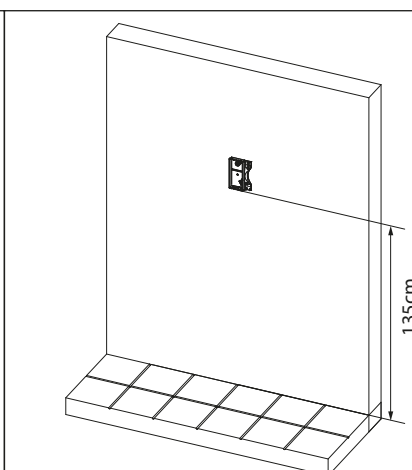


Fig. 2

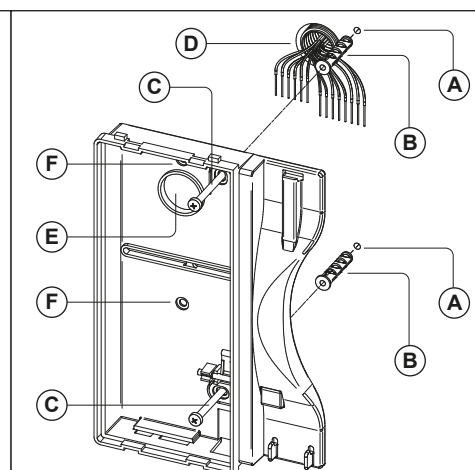


Fig. 3

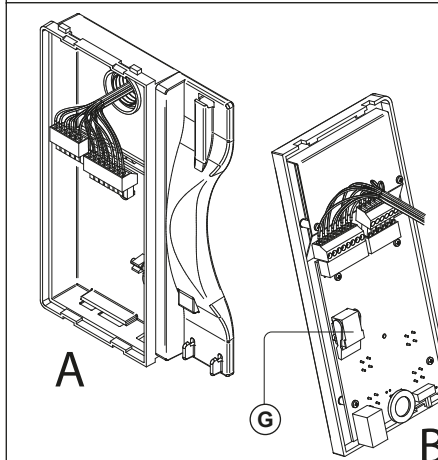


Fig. 4

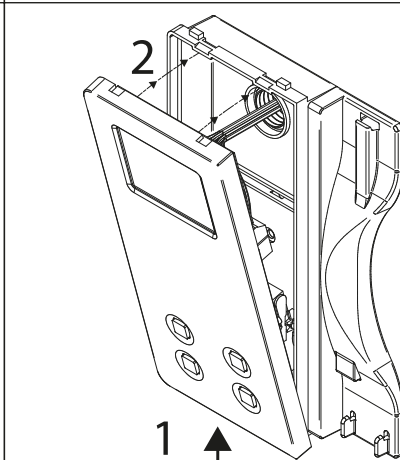


Fig. 5

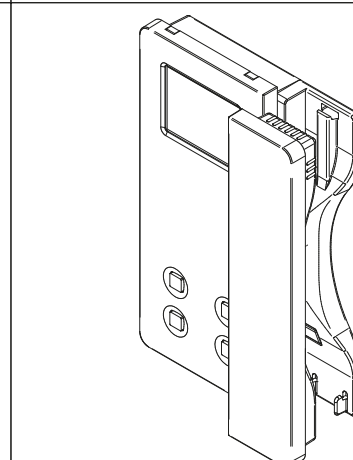


Fig. 6

1. In order to install the videophone, it is necessary to remove the cover, which contains all the electronics, from the base: firstly disconnect the handset from the videophone (by removing its plug from the videophone), then press lightly the bottom part of the videophone and simultaneously pulling outwards the upper part as shown in **Fig. 1**.
2. Put the base of the unit on the wall at approx 135cm from the finished floor to mark the points for the fixing holes "A" (**Fig. 2**) remembering that the wires "D" (**Fig. 3**) must be fed through the hole "E" (**Fig. 3**). If you use the flush mounting box 503, embed it into the wall vertically at approx. 140cm from the finished floor and the base.
3. Following **Fig. 3**, make the holes "A", insert the wall plugs "B" and fix the base with the screws "C" feeding the wires "D" into the hole "E". If you have used the box 503, fix the base to the wall through the holes "F" using the screws "C".
4. As shown in **Fig. 4A**, connect the wires to the removable terminals following the provided installation diagram. Connect the terminal blocks to the electronics contained in the cover as shown in **Fig. 4B**. Reinsert the handset and test system before closing. **Note: Contrast and hue trimmers can be adjusted only if the videophone is open. Note while testing the system, it is advisable to hold the cover with your hand closing manually the hook switch of the handset (see Fig. 4B reference "G").**
5. Once testing is complete and all the necessary adjustments are made, disconnect the handset from the cover and close the unit as shown in **Fig. 5**: first hook it on the bottom then push in the top until you hear the clip.
6. Reconnect the handset and hang it as shown in **Fig. 6**.

SECTION OF WIRES

Video connections and Audio connections must be wired in twisted pair: pair the video lines (terminals "4" and "5" signals "V1" and "V2"), pair the audio lines (terminals "1" and "2" signals "1" and "2").

BETWEEN TRANSFORMER AND VIDEOPHONE 20 MT MAX:

2 wires 1 mm².

BETWEEN VIDEOPHONE AND OUTDOOR STATION:

For VR4KV, VR4KV/CL

up to 50 mt : all wires 0.35 mm².
 from 50 to 100 mt : wires + and - 0.75 mm²; other wires 0.5 mm².
 from 100 to 200 mt : wires + and - 1.5 mm²; other wires 0.75 mm².

For CVK4K

up to 50 mt : wires + and - 0.5 mm²; other cables 0.35 mm².
 from 50 to 100 mt : wires + and - 1 mm²; other cables 0.5 mm².
 from 100 to 200 mt : wires + and - 2 mm²; other cables 0.75 mm².

TROUBLESHOOTING GUIDE

In case of system failure, try the following as preliminary checks:

- Check that the cables are connected as shown in the installation diagram and that the cables are firmly fixed into the relevant terminals;
- Check that the mains voltage is available on terminals 230Vac (or 127Vac) and 0 of the power transformer Art.850K;
- Check the 24Vac voltage output of the power transformer Art.850K. If this voltage is not available it could be the 1.6A fuse, in this case remove the mains voltage, remove possible short-circuits or overload sources then replace the fuse with an equal or equivalent one.
- Check that the voltage between the terminals "+" and "-" of the speaker unit is between 16 and 20Vdc.

If the problem is not listed above, try the tests the following table.

SYMPTOM	CAUSE	SOLUTION
The Art.4833 (door station) is not able to call the extension (the bell LED is switched on for 2 seconds):	• Wrong connection between Art.4833 and 3356. • Cable size too small. • Programmed videophone address incorrect.	• Check the 6 common wire connections especially wire "1" (speech line/data). • Increase cable size or double up using two wires for each signal. • Check videophone address on dip-switches.
External call works but when answered the communication fails:	Cable size too small.	Increase cable size or double section using two wires for each signal.
During the conversation it is not possible to open the door:	Cable size too small.	Increase cable size or double section using two wires for each signal.
During the conversation it is not possible to open the door but the key LED (Art.4833) switches on for the programmed time:	• Incorrect position of J2 jumper. • Electric lock wires unconnected or in short. • Wrong electric lock type.	• Check J2 position on the Art.4833. • Check wires connection. • Check that the electric lock type (ac or dc) is suitable for the J2 position chosen.
Speech only from outside to inside:	Wire "2" broken or in short.	Check connection of wire "2".
Low volume of speech:	Volume trimmers of Art.4833 require adjustment.	Adjust the trimmers until the required volume is reached.
Noise over the speech line during the conversation:	• The 6 common wires cabled together with 230 or 380Vac power lines. • The 6 common wires cabled together with 24Vac videophone power supply wires.	• Separate the 6 common wires from the high voltages cables. • Separate the 6 common wires from the two 24Vac wires or cable them together only for a short distance.
Camera recall service does not work:	Camera recall button pressed for a number of times different from the ID of the door station to be switched on.	Check the ID (1.4) of the door station to be recalled and press the camera recall button as many time as the ID value.

SYMPTOM	CAUSE	SOLUTION
Intercommunicating call does not work:	"Key" button pressed for a number of times different from the videophone address value.	Check the address of the video- phone you are calling and try again.
The video shown on the monitor is of a bad quality and the image is distorted or double	• V1,V2 signals unconnected, exchanged or put in short. • The switches of the two way dip-switch are not both in ON position. • V1,V2 of the last Art.316 (if present) not closed with 75 Ohm resistor.	• Check that the wires are not broken and isolated. • Set both switches in ON position. • Close through V1,V2 of the Art.316 toward the ground with provided resistors.
Local call does not work:	Wrong connection or call button broken.	Check connection or replace the button.

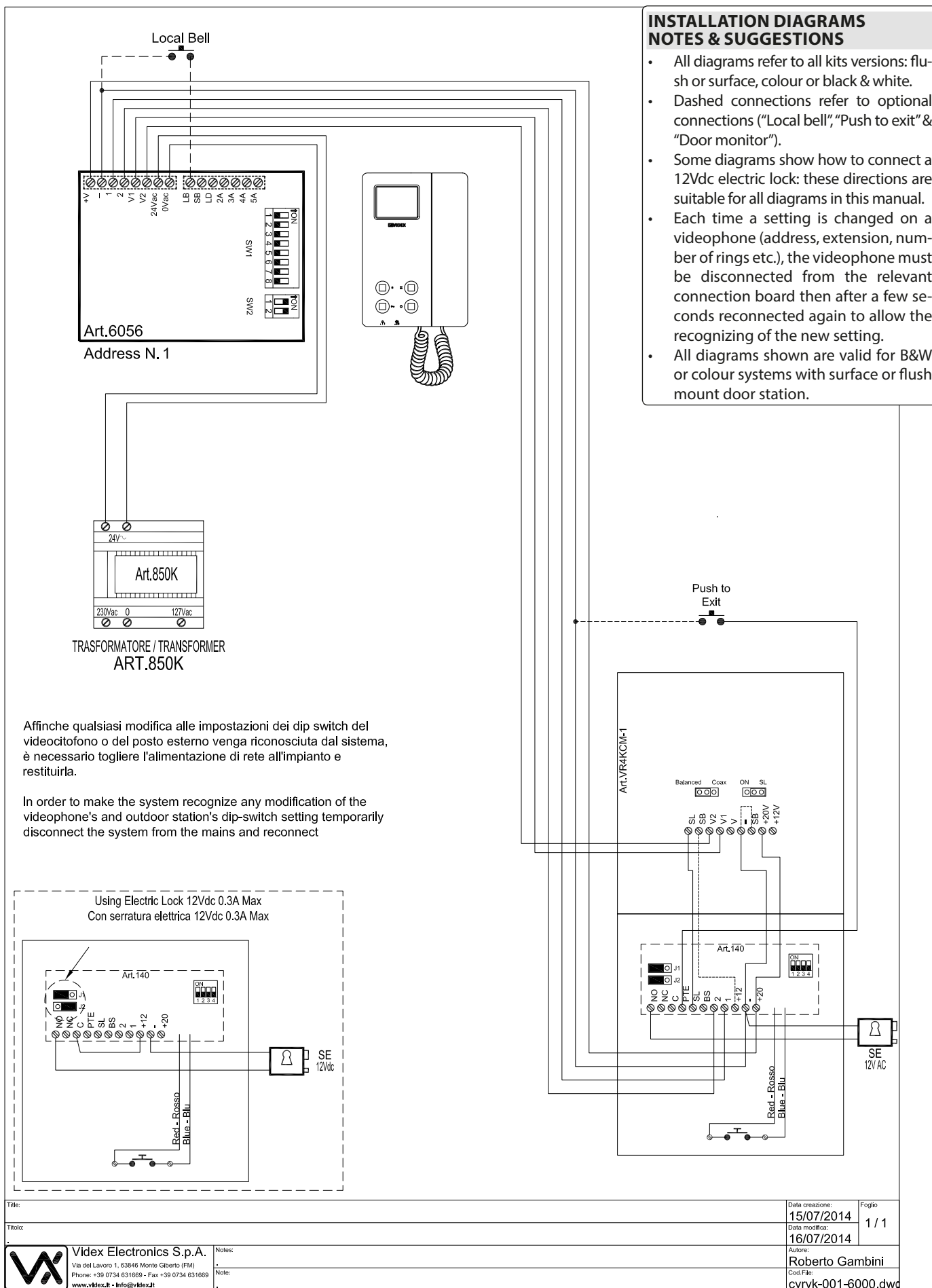
CONNECTION TO MAINS, POWER SUPPLY MOUNTING INSTRUCTIONS

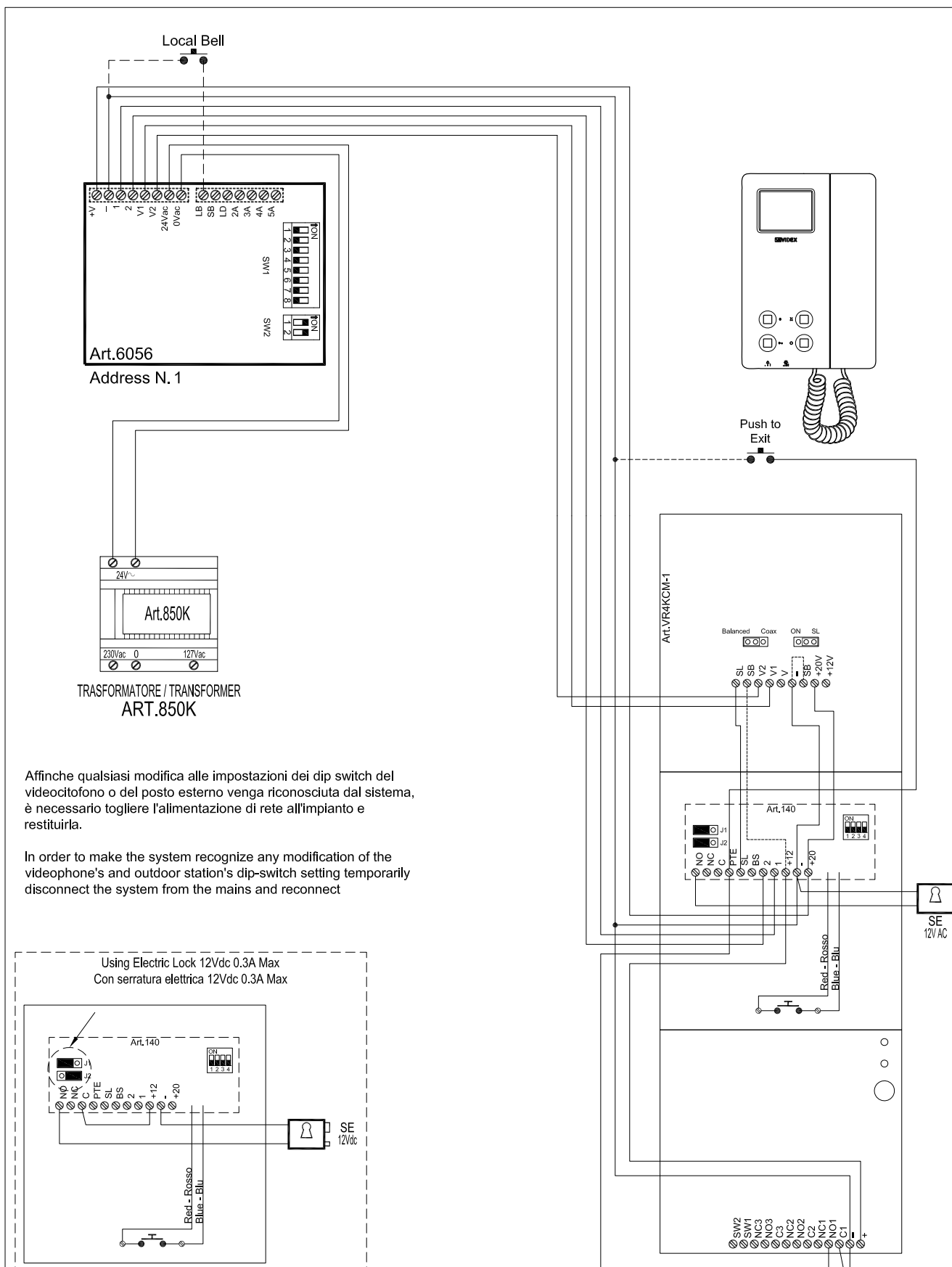
The system must be installed according to national rules in force, in particular we recommend to:

- 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.





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Note:

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