

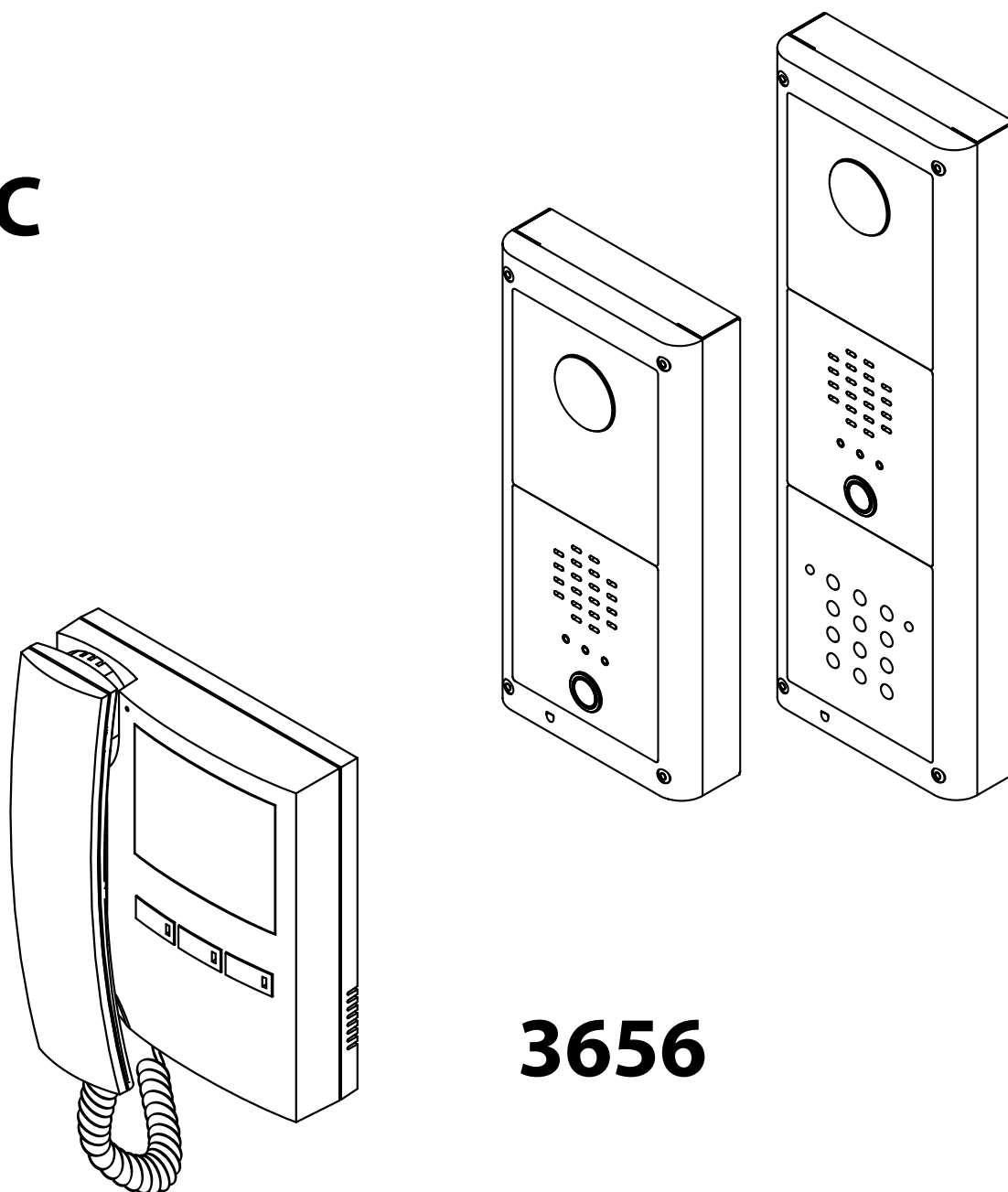
VIDEOKIT

VRVK/3656 SERIES

"6 Wire" bus one way, two way vandal resistant videokit

VRVK

VRVKC



3656

Installation handbook



Index

Introduction	2
System components and available versions	3
General directions for installation	5
Troubleshooting guide	6
Art. VR4KCM Camera module	7
Art. VR4KAMK Speaker unit.....	8
Art. VR4KCL Digital codelock.....	10
4000 Series surface and flush mounting door station installation	13
Art. 3656 3.5" colour display videophone	15
3600 Series Videophone wall mounting instructions	17
Installation diagrams	18

Introduction

The VRVK is a new range of videokits that use the 4000 Series external door station, 4000 Series vandal resistant modules (the speaker unit is a specific module while the camera is a standard module) and Art. 3656 videophone which is specific for this range of videokit.

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.

- Disability friendly, visual and acoustic signals from the door panel to inform the visitor of call status (call made, ringing, speak, door open).
- 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).

System components and available versions

VRVK/3656 Colour videokit.

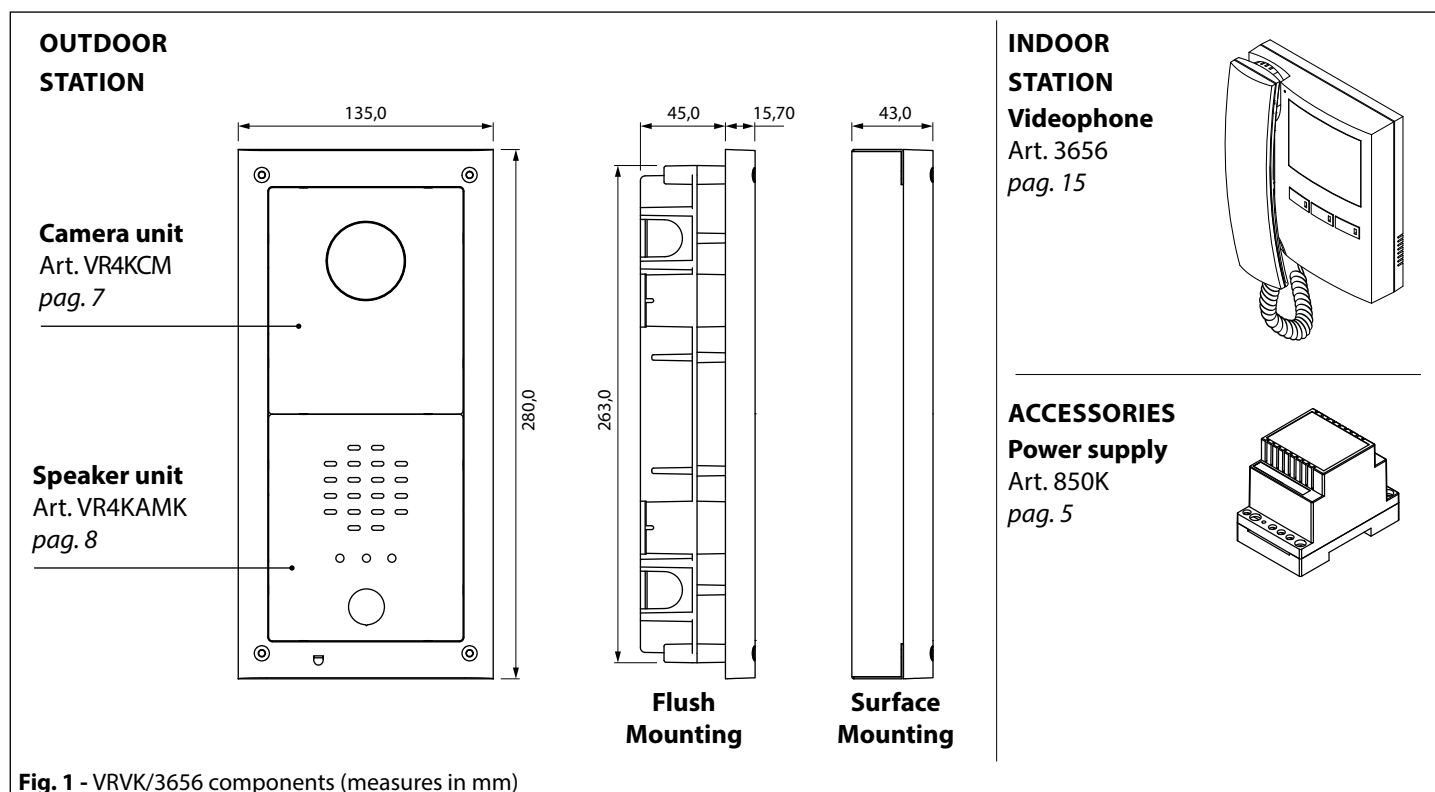
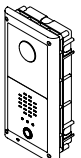
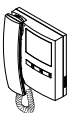
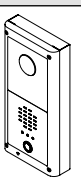
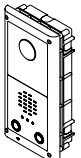
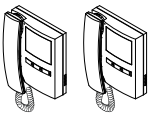
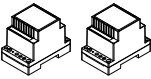
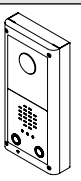
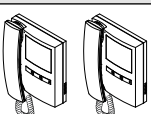
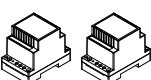


Fig. 1 - VRVK/3656 components (measures in mm)

VRVK-1/3656 - flush mounting			
ONE WAY VERSIONS	 1 Outdoor station composed of: 1 Art. VR4KCM: Camera unit 1 Art. VR4KAMK-1: 1 button speaker unit 1 Art. 4852: Flush mounting box	 1 Colour videophone Art. 3656	 1 Power supply Art. 850K
	 1 Outdoor station composed of: 1 Art. VR4KCM: Camera unit 1 Art. VR4KAMK-1: 1 button speaker unit 1 Art. 4882: Surface mounting box	 1 Colour videophone Art. 3656	 1 Power supply Art. 850K
VRVK-2/3656 - flush mounting			
TWO WAY VERSIONS	 1 Outdoor station composed of: 1 Art. VR4KCM: Camera unit 1 Art. VR4KAMK-2: 2 button speaker unit 1 Art. 4852: Flush mounting box	 2 Colour videophones Art. 3656	 2 Power supplies Art. 850K
	 1 Outdoor station composed of: 1 Art. VR4KCM: Camera unit 1 Art. VR4KAMK-2: 2 button speaker unit 1 Art. 4882: Surface mounting box	 2 Colour videophones Art. 3656	 2 Power supplies Art. 850K

VRVKC/3656 Colour videokit plus a codelock module.

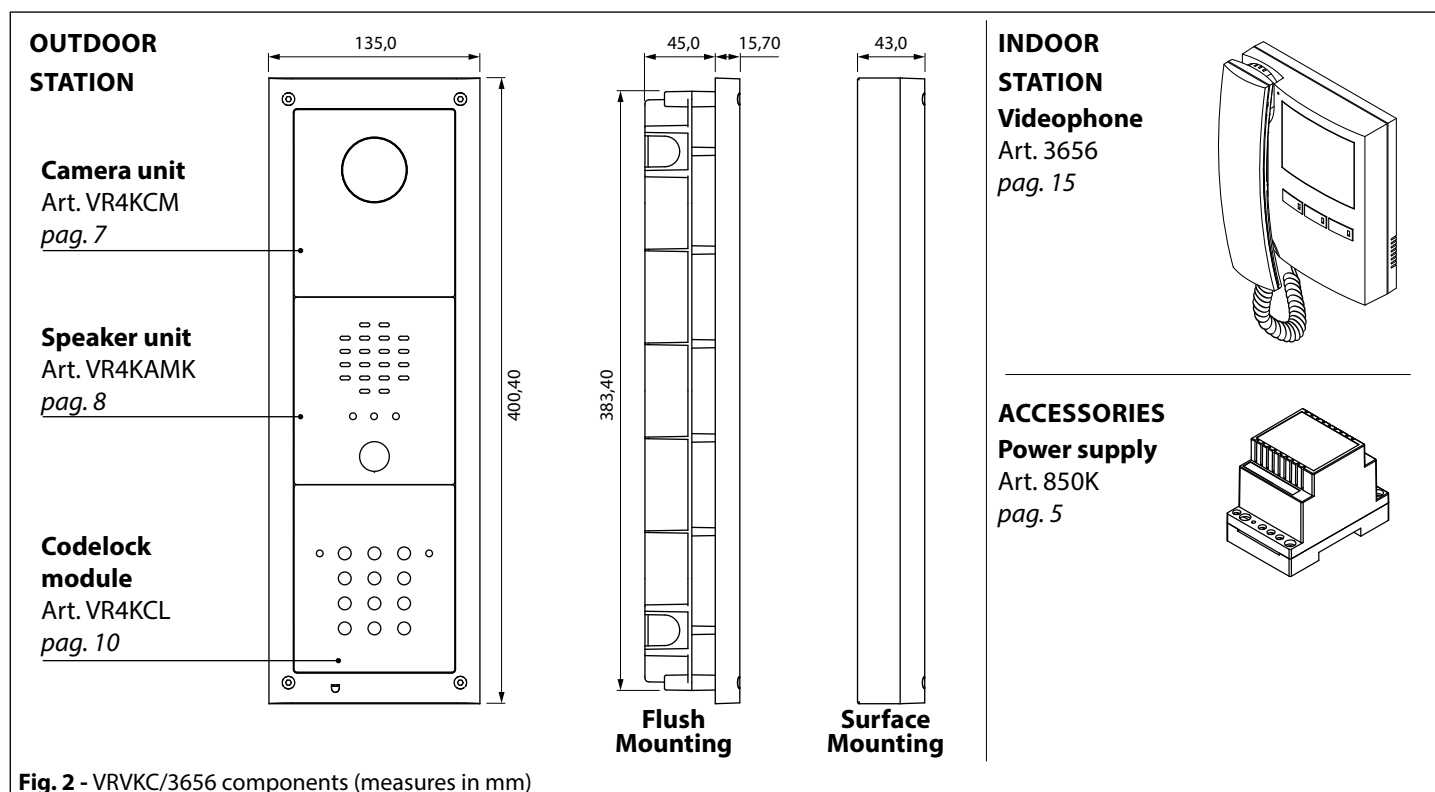
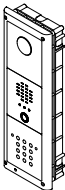
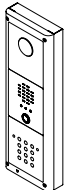
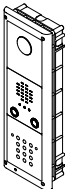
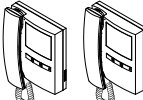
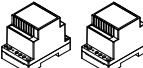
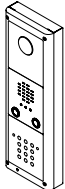
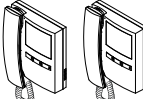
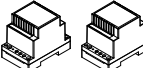


Fig. 2 - VRVKC/3656 components (measures in mm)

VRVKC-1/3656 - flush mounting			
ONE WAY VERSIONS	 1 Outdoor station composed of: 1 Art. VR4KCM: Camera unit 1 Art. VR4KAMK-1: 1 button speaker unit 1 Art. VR4KCL: Codelock module 1 Art. 4853: Flush mounting box	 1 Colour videophone Art. 3656	 1 Power supply Art. 850K
	 1 Outdoor station composed of: 1 Art. VR4KCM: Camera unit 1 Art. VR4KAMK-1: 1 button speaker unit 1 Art. VR4KCL: Codelock module 1 Art. 4883: Surface mounting box	 1 Colour videophone Art. 3656	 1 Power supply Art. 850K
VRVKC-2/3656 - flush mounting			
TWO WAY VERSIONS	 1 Outdoor station composed of: 1 Art. VR4KCM: Camera unit 1 Art. VR4KAMK-2: 2 button speaker unit 1 Art. VR4KCL: Codelock module 1 Art. 4853: Flush mounting box	 2 Colour videophones Art. 3656	 2 Power supplies Art. 850K
	 1 Outdoor station composed of: 1 Art. VR4KCM: Camera unit 1 Art. VR4KAMK-2: 2 button speaker unit 1 Art. VR4KCL: Codelock module 1 Art. 4883: Surface mounting box	 2 Colour videophones Art. 3656	 2 Power supplies Art. 850K

General directions for installation

CONNECTION TO MAINS

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

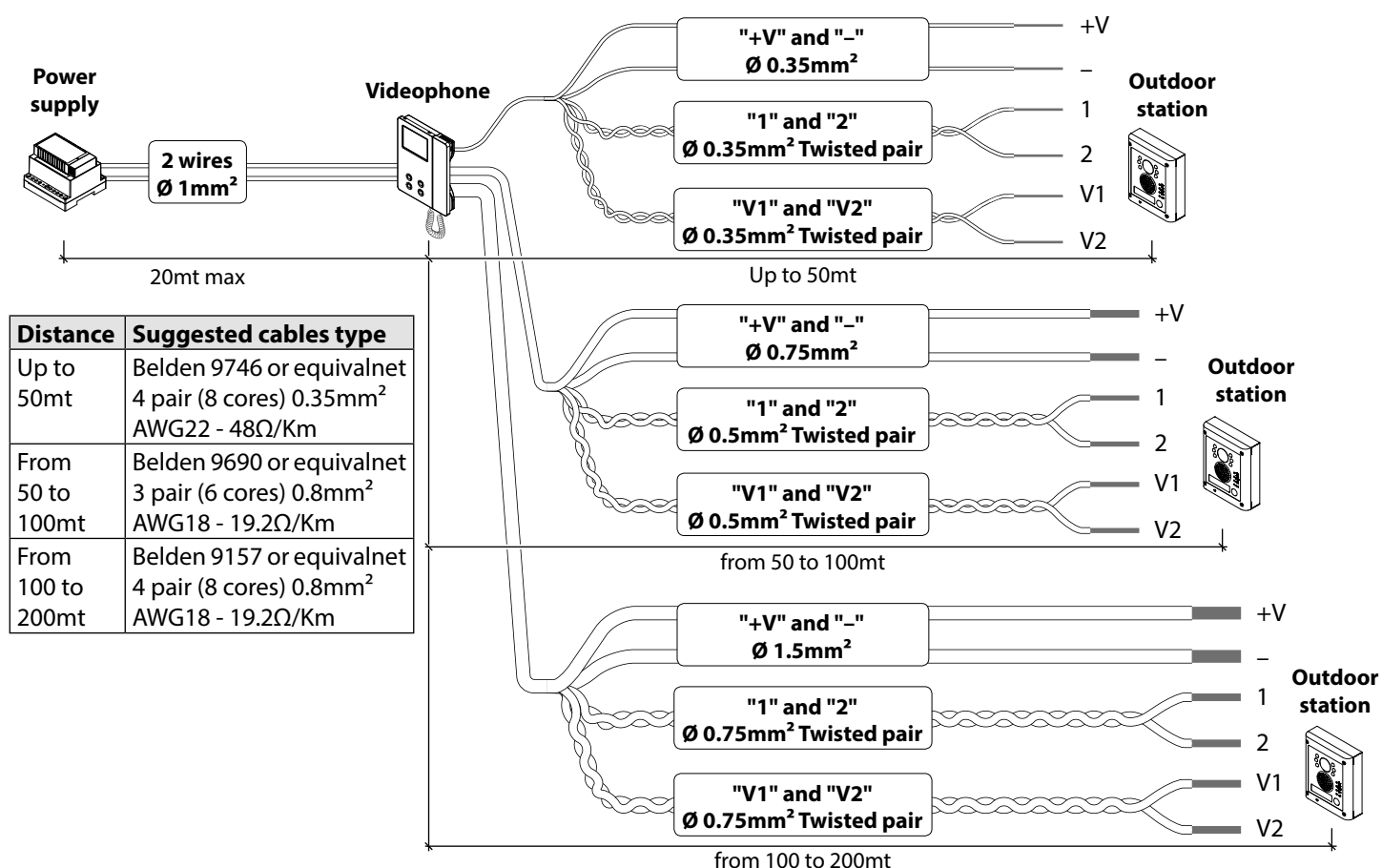
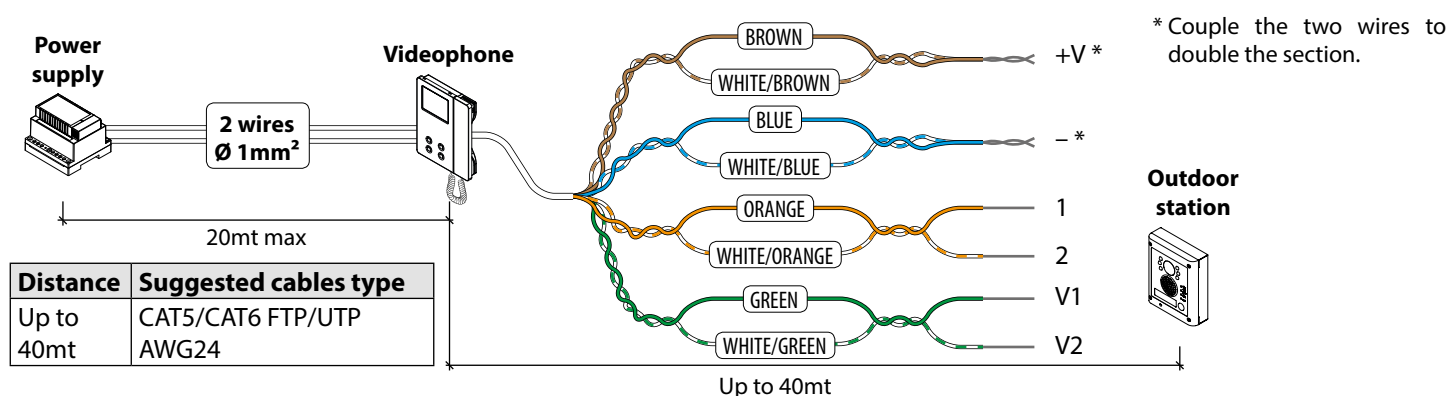
- Connect the system to the mains through an **all-pole circuit breaker** which shall have contact separation of at least 3mm in each pole and shall disconnect all poles simultaneously;
- The **all-pole circuit breaker** shall be placed for easy access and the switch shall remain readily operable.

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.

CABLE SIZE

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



Troubleshooting guide

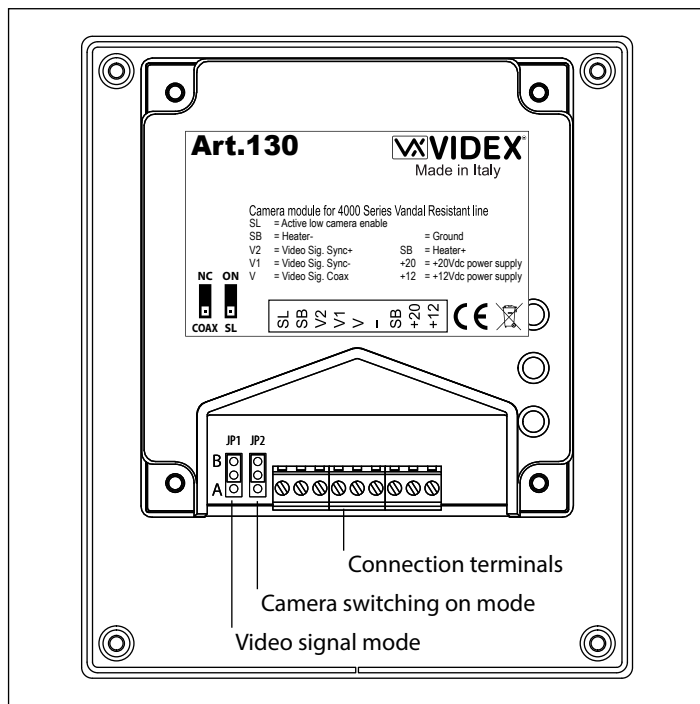
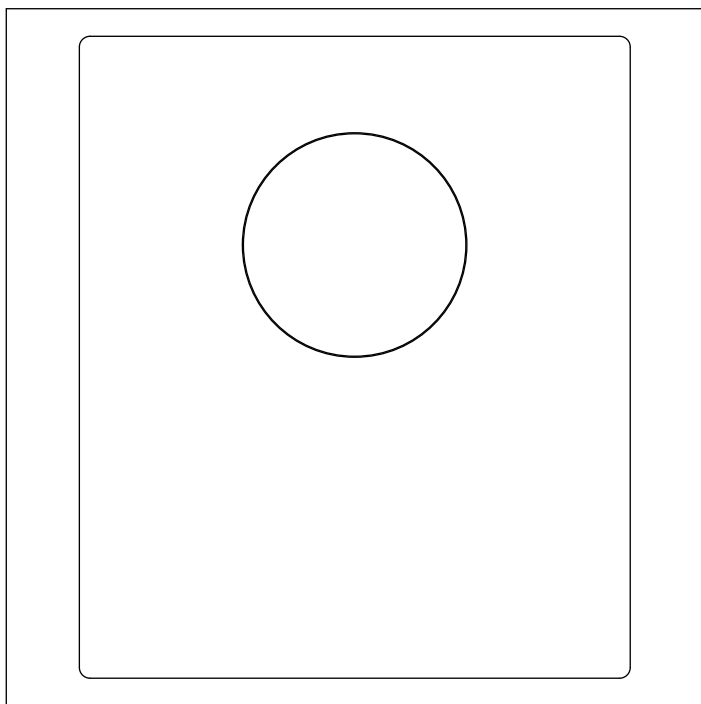
In case of system failure, try the following preliminary checks:

- 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 persists try the tests in the following table or contact technical support.

SYMPTOM	CAUSE	SOLUTION
The door station is not able to call the extension (the bell LED is switched on for 2 seconds):	• Wrong connection between door station and the videophone • Cable size too small. • Programmed videophone address incorrect. • You have changed the videophone address without power down the system.	• Check the 6 common wire connections especially wire "1" (speech line/data). • Increase cable size or double up using two wires for each connection. • Check videophone address on dip-switches. • Power down the system then power up again to detect the new videophone address.
External call works but when answered the communication fails:	• Cable size too small.	• Increase cable size or double up 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 up using two wires for each signal.
During the conversation it is not possible to open the door but the key LED on the door station 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 door station. • Check 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 door station require adjustment.	• Adjust the trimmers until the required volume is reached.
Noise over the speech line during the conversation:	• The 6 common wires are cabled together with 230 or 380Vac power lines. • The 6 common wires are 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.
Intercommunicating call does not work:	• "Key" button pressed for a number of times different from the videophone address value.	• Check the address of the videophone 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, reversed or shorted. • The switches of the two way dip-switch are not both in ON position. • V1,V2 of the last Art. 316N (if present) not closed with 75 Ohm resistor.	• Check that the wires are not broken or shorted. • Set both switches to the ON position. • Use 2x 75 Ohm resistors to connect V1 & V2 to 0V.
Local call does not work:	• Wrong connection or call button broken.	• Check connection or replace the button.

Art. VR4KCM Camera module



DESCRIPTION

4000 Series vandal resistant camera module (Brushed 2.5mm 12 gauge stainless steel fascia).

The Art. VR4KCM includes a colour CCD high quality day/night wide angle camera. The wide camera has a horizontal viewing angle of 170 degrees. The infrared illumination LEDs are mounted around the camera.

The Art. VR4KCM can be used in video door entry systems: traditional (combined with Art. VR4KAM), VX2200 (combined with Art. VR4KAM2W) or Videokit (combined with Art. VR4KAMK).

The camera can be set for composite video signal (coax cable) or for balanced video (twisted pair cable).

SIGNALS (TERMINALS)	
SL	Active low input to enable the camera lightning (the jumper JP2 must be moved in "SL" position)
SB	Heater ground input
V2	Balanced video signal sync-
V1	Balanced video signal sync+
V	Coax video signal
—	Ground input
SB	Heater plus input 12V
+20	20Vdc power supply input
+12	12Vdc power supply input

TECHNICAL SPECIFICATION

Power consumption while operating: 100mA

Working Temperature: -10 +50°C

Tensione di alimentazione: 12Vdc/24Vdc

SETTING

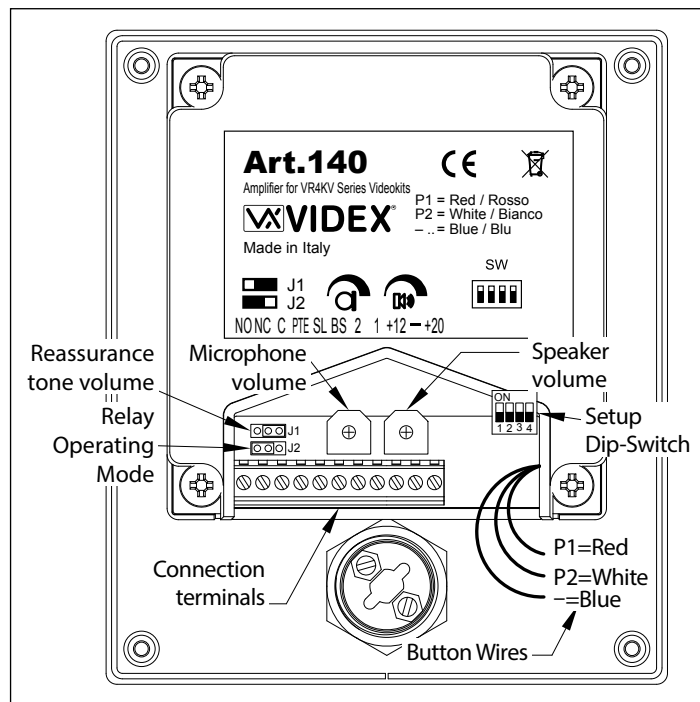
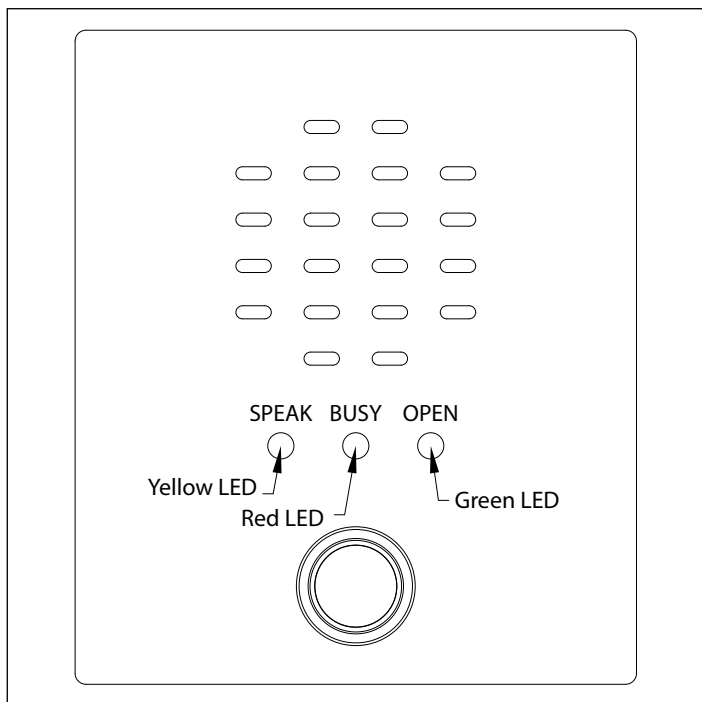
The **JP1** jumper sets the video signal mode:

- **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 either +12 & — or +20 & — power supply inputs;
- **SL** = The camera switches on when a 0V is applied to the SL terminal (a permanent 12 or 20Vdc is required on either +12 & — or +20 & —);

Art. VR4KAMK Speaker unit



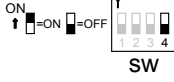
LEDS	
YELLOW	Illuminates during the conversation.
RED	Illuminates when the speaker unit is operating or when other speaker units in the same system are operating to signal the busy state of the system.
GREEN	Illuminates when the door opens for the duration of the door opening time.

CONTROLS (SPEAKER & MICROPHONE VOLUME)	
	Trimmer to adjust the speaker volume. Rotate clockwise to increase or anti-clockwise to decrease.
	Trimmer to adjust the microphone volume. Rotate clockwise to increase or anti-clockwise to decrease.

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.

	Switches 1,2 OFF OFF 1 ON OFF 2 OFF ON 3 ON ON 4	Unit Address
	Switch 3 OFF 60 seconds ON 120 seconds	Conversation Time
	Switch 4 OFF 2 seconds ON 6 seconds	Door opening time (J2 = "L" position)

JUMPERS J1, J2

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

Art. VR4KAMK Speaker unit

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 voltage 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.

* When "capacitor discharge" operating mode is set, one terminal of the electric lock must be connected to the ground while the second one must be connected to "NO" terminal. The "NO" terminal will supply a temporary voltage when the speaker unit receives the door open command (we suggest to use a 12Vac/dc 1A max electric lock). Setting "dry contacts" operating mode, when the speaker unit receives the door open command, the "NO" terminal will be internally linked to the "C" terminal for the programmed time (switch 4 of the 4 way dip-switch bank).

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

Art. VR4KCL 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.VR4KCL) in an audio or video intercom system.

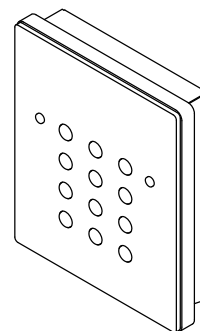


Fig. 1 VR4KCL

MAIN FEATURES

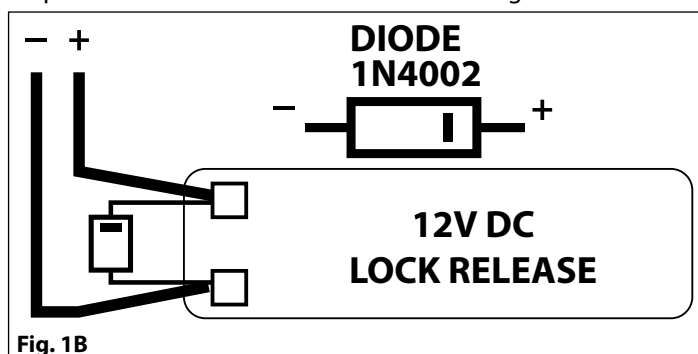
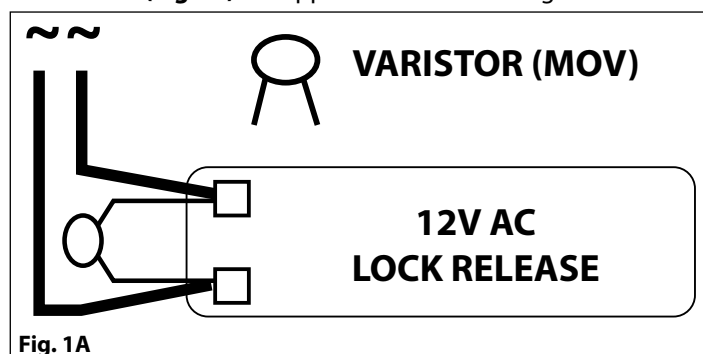
- 2 C, NC, NO relay outputs (24Vac/dc – 5A max);
- 2 Programmable secret codes (one for each relay);
- Each relay can be set to be activated for a specific time (01 to 99 seconds) or to work as latch;
- Two active low inputs to command directly the relay 1 and 2;
- Programming menu guarded by a 4-8 digit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

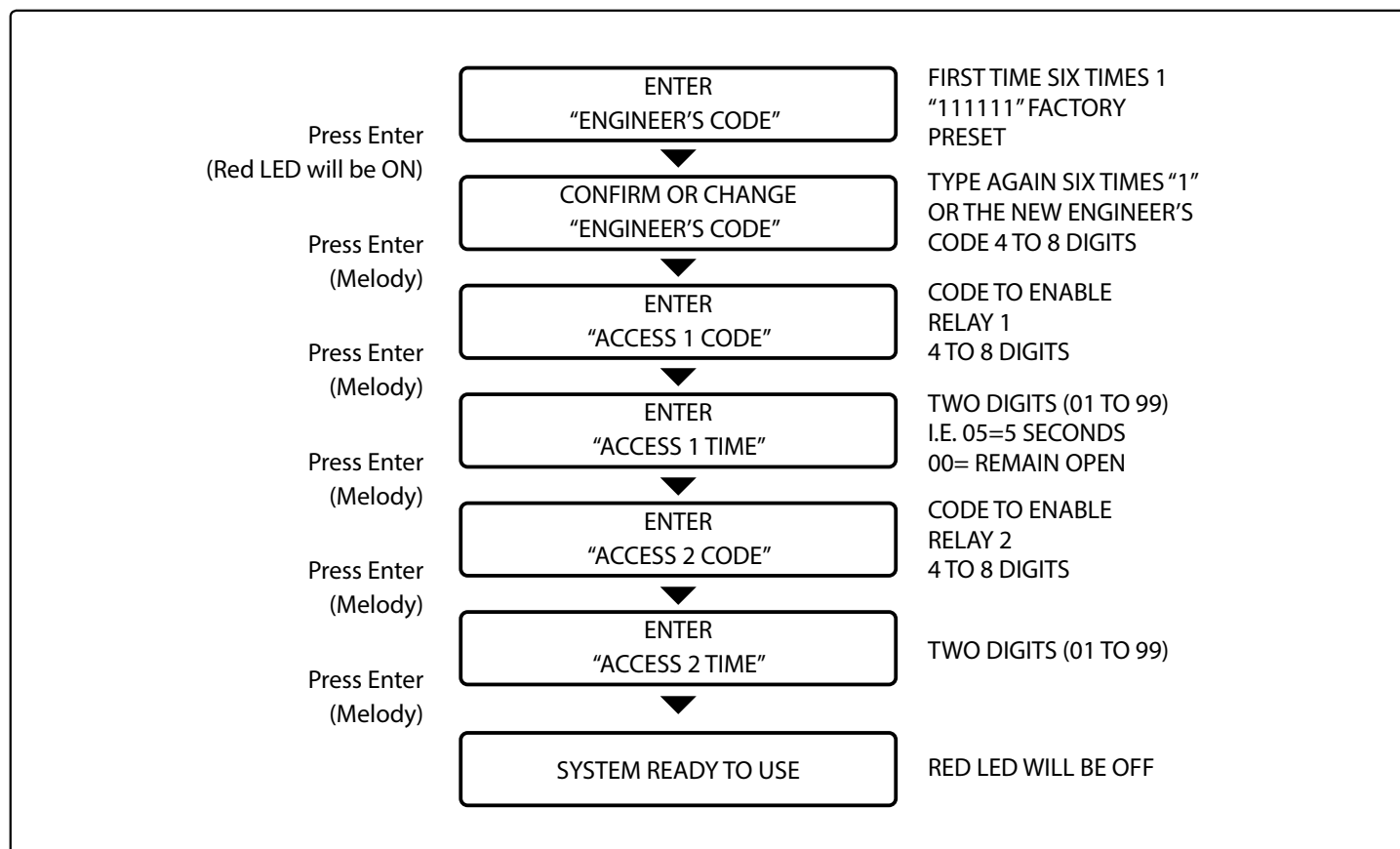
- Type in the programmed code and press **"ENTER"**;
- If the code is correct, the green LED will illuminate for approx. 2 seconds and the relay relevant to the code will operate for the programmed time;
- If a wrong code is entered, a continuous melody will sound for 4 or more seconds, according to 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
+	

FLOW CHART

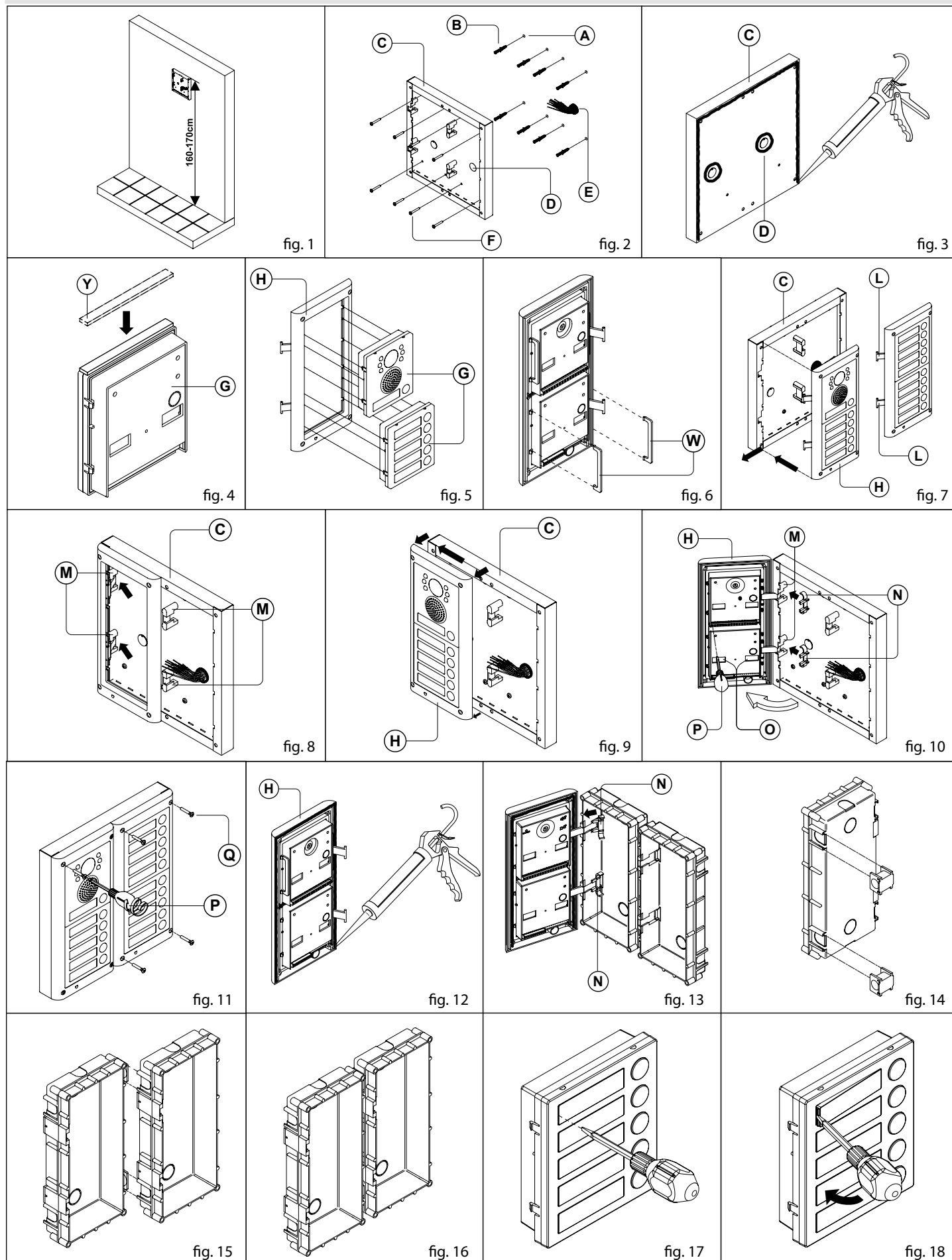


TECHNICAL SPECIFICATION

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

4000 Series Surface and flush mounting door station installation

EXAMPLE: INSTALLING A FOUR MODULE OUTDOOR STATION



INSTALLING A SURFACE MOUNT DOOR STATION

1. Place the surface box against the wall (165-170cm between the top of the box and the floor level as shown in **Fig. 1**) and mark the fixing holes for the wall plugs and the hole for the cables **E (fig. 2)**. Observe the orientation of the box with the hinge on the left;

 **In order to prevent water ingress we highly recommend using a silicon sealant between the wall and the back box C (Fig.3) and around all holes D (Fig.3);**

2. As shown on **Fig. 2**, drill the fixing holes **A**, insert the wall plugs **B** and feed the cables **E** through the surface box opening **D**, fix surface box **C** to the wall using the screws **F**;
3. Apply the **Y** silicon sealant on top of each module as shown in **Fig. 4**;
4. Before installation of the module support frame, hook the modules **G** to the support frame **H** as shown in **Fig. 5** then, as shown in **Fig. 6**, fit the two anti-tampering locks **W** for each module (do the same for the second module support frame);
5. When you have more than one support frame, hook the support frame to the surface box starting from the left. For convenience we will described how to attach the left frame but the same must be carried out for the right frame. As shown in **Fig. 7**, hook the module support frame **H** (complete with modules) to the surface box **C** moving the frame as suggested from pointers. Ensure that the pivots **L (Fig. 7)** go inside the relevant housing **M** as shown in **Fig. 8**;
6. As shown on **Fig. 9**, pull back the module support frame **H** while moving it slightly to the left as suggested by the pointers;
7. As shown in **Fig. 10**, open the module support frame **H** as suggested by the pointer, hook the hinge locks **N** to the hinges **M**, make the required connections using the screwdriver provided **P** (flat blade end) and make the required adjustment by adjusting the settings (through openings **O**) and adjust trimmers;
8. Repeat the same operations described above for the second module support frame (or for the third if available);
9. When the system has been tested and is working correctly, move back the module support frames carefully, fix them to the surface box using the screwdriver provided **P** (torx end) and the pin machine torx screws **Q (Fig. 11)**. **Note: do not over tighten the screws more than is necessary.**

INSTALLING A FLUSH MOUNTING DOOR STATION

When flush mounting and the number of modules is greater than 3, the required back boxes need to be linked together (before embedding them in the wall) as shown on **Fig. 14, 15 and 16**:

- Arrange the back boxes and remove knockouts to allow cables to be fed from one back box to the other;
 - Hook the spacers to first back box then hook the second back box to obtain the result shown on **Fig. 16**;
1. Protect the module support frame fixing holes from dust then embed the back box into the wall (165-170cm between the top of the box and the floor level as shown on the **Fig. 1**) feeding the cables **E (Fig. 2)** through a previously opened hole in the box. Observe the direction of the box ensuring the hinge is on the left and take care that the box profile is in line with the finished wall profile;

 **In order to prevent water ingress we highly recommend using a silicon sealant between the wall and the back box H (Fig.12);**

2. Continue from step **4** of surface mounting instructions , but at step **7** hook the hinge locks **N** as shown on **Fig. 13**.

 **Note: if additional holes are made in the surface box, oxidation problems may appear unless the unprotected metal is coated with a protective paint.**

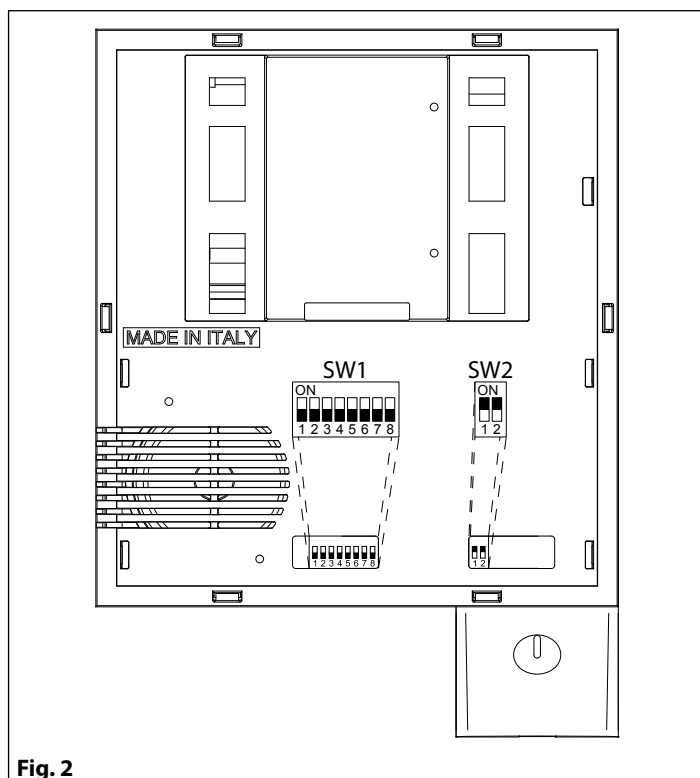
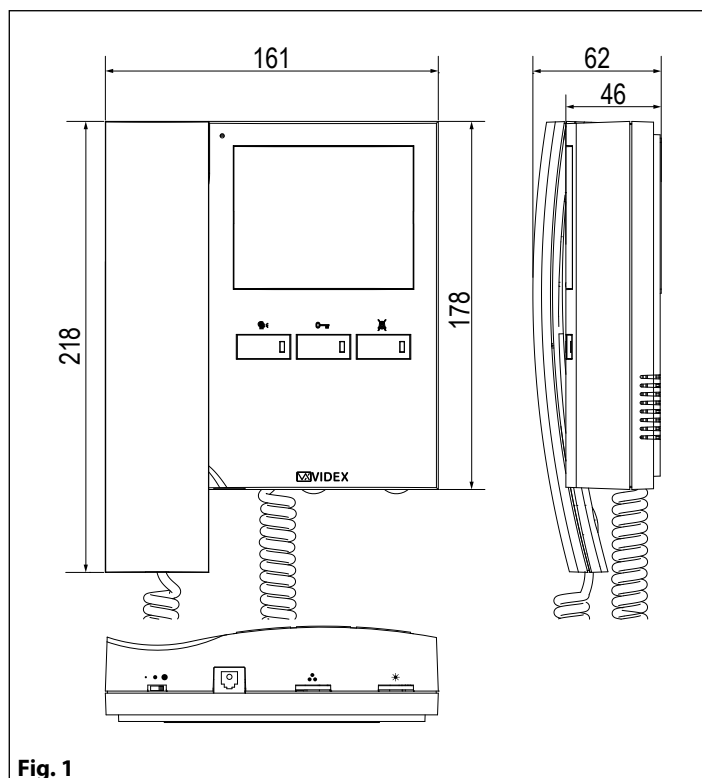
NOTES

- The screwdriver's blade has two sides, one flat and one torx, to select one of them unplug the blade from the screwdriver body and plug it into the required side.
- The example shows the use of only one back box bottom hole for wires, this is done to keep file drawings clear. Naturally the installer can use the left hole or the right or both if required.

HOW TO REMOVE THE CARD NAME HOLDER

- To avoid damage to the module front plate, tape the side that will be in contact with the screwdriver blade;
- Insert the screwdriver (flat side) into the card-holder hole as shown in **Fig. 17**;
- Move the screwdriver to the left as shown in **Fig. 18** to extract the card name holder;
- Edit the card name then replace it inside the holder and refit: insert the holder inside its housing from the left or right side then push the other side until it clips into place.

Art. 3656 3.5" colour display videophone



PUSH BUTTONS

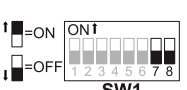
	Camera recall button. Pick up the handset then press the button (Press once for door/gate 1, twice for 2 and so on up to a maximum of 4 entrances): the relevant LED switches ON and the monitor switches on showing the video coming from the door panel. The speech lines are active and you can open the door by pressing the key button .
	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). Any intercommunicating conversation is always interrupted by an external call (i.e. External calls take priority).
	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. • During a conversation, the pressing of this button activates the relevant output (open collector) on terminal "17". The output is enabled until the button is released.

Art. 3656 3.5" colour display videophone

LEDS	
	ON LED. Switched ON when the videophone is operating.
	Door open LED. Can be used to indicate the status of a door or gate. It requires a switched 12Vdc connection to terminal 14.
	Privacy ON/OFF LED. - When the videophone is in stand-by, this LED signals the privacy service status (ON = service enabled, OFF = service disabled); - When the videophone is active, this LED indicates the activation of the output on terminal 17.

SETTINGS (DIP-SWITCH)

The videophone setup is carried out by the 2 dip-switches accessible from the rear of the videophone.

 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	Number 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

CONTROLS

	Call tone volume control (3 levels).
	Hue control.
	Brightness control.

2 WAY DIP-SWITCH (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".

3600-5000 SERIES COMPATIBILITY

The Art. 3656 videophone is fully compatible with the Art. 3356, Art. 3456 and the Art. SL5456. All primary connections are the same but spare buttons and LED connections are different depending on the availability of these services on that model of videophone.

TECHNICAL SPECIFICATION

Power Supply: Supplied by the BUS line, 20Vdc
Working Temperature: -10 +50 °C

SIGNALS ON CONNECTION BOARD

1	Speech line output from handset's microphone and data signal (About 12V in stand-by, about 5V in conversation)
2	Speech line input toward the handset's loudspeaker (About 12V in stand-by, about 3V in conversation)
3	Speech line input toward the loudspeaker of the parallel telephone (About 12V in stand-by, about 3V in conversation)
4	Balanced video signal 1 sync. -
5	Balanced video signal 2 sync. +
6	Ground
7	
8	20Vdc Input/Output (As input 16÷20Vdc 0,5A – as output 20Vdc 0,5A max)
9	24Vac 1A max power input
10	0Vac power input
11	Output ground for parallel telephone
12	Output call tone for parallel telephone
13	Input for door-open command from parallel telephone
14	12Vdc input for door-open LED
15	Local call input (5V in standby, 0V to trigger)
16	
17	Service button (open collector) active low output. The button goes active when the  button is pressed during a conversation

3600 Series Videophone wall mounting instructions

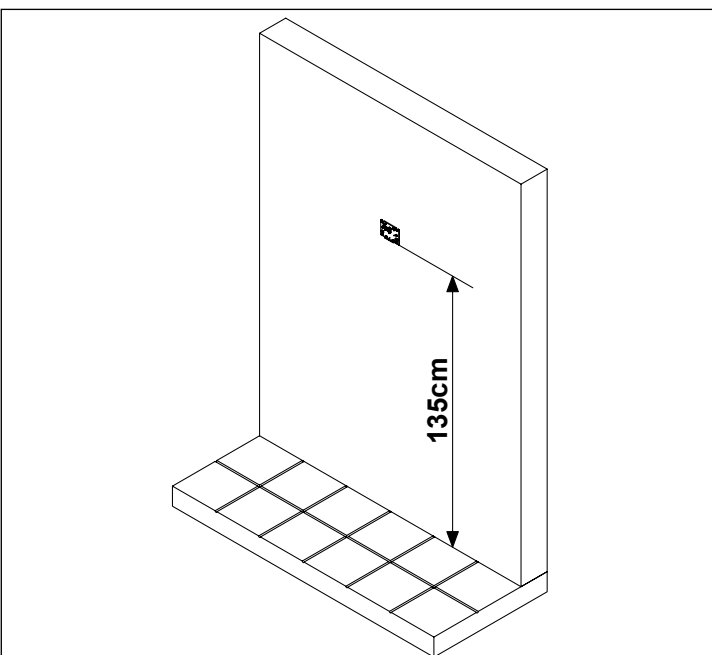


Fig. 1

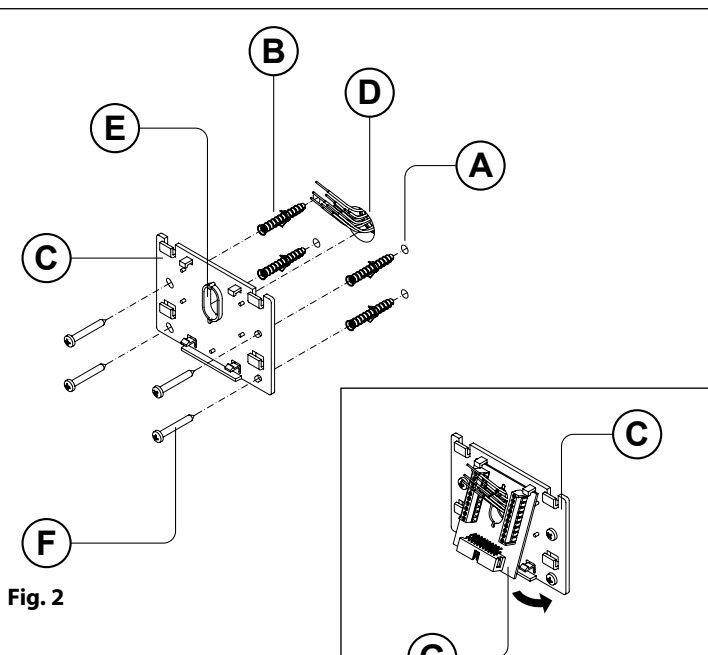


Fig. 2

Fig. 3

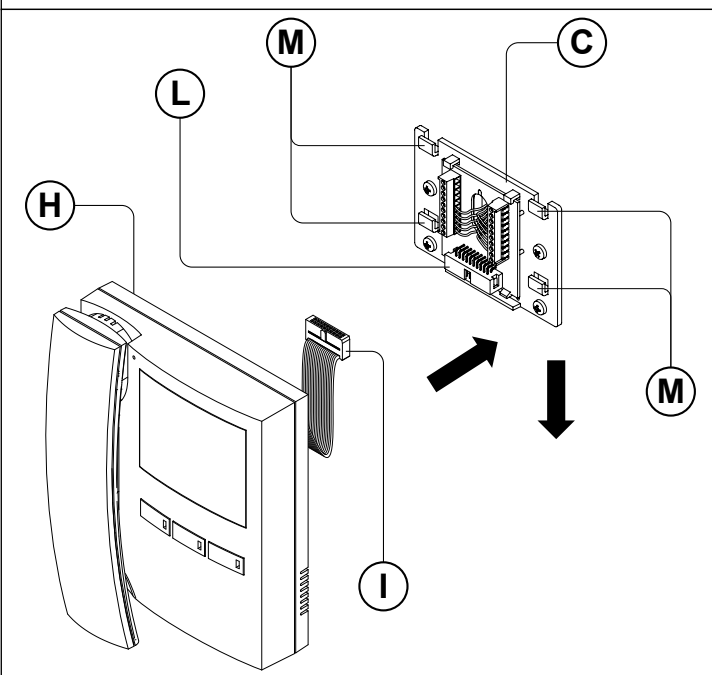


Fig. 4

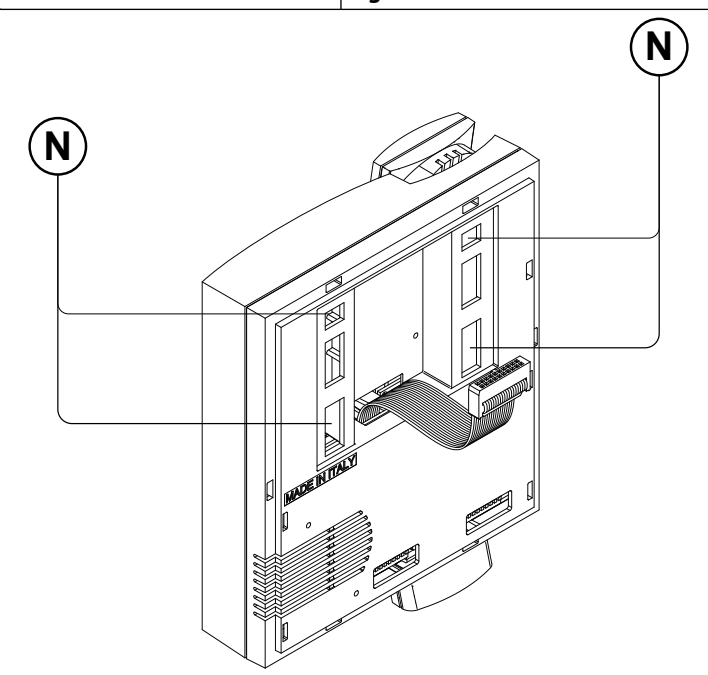


Fig. 5

1. Cables must be fed through the opening **E** (**Fig. 2**) of the mounting plate **C**, which should be fitted approximately 135cm from finished floor level as shown in **Fig. 1**;
2. Place the mounting plate **C** against the wall feeding the wire group **D** through opening **E** of the mounting plate and mark the fixing holes **A** (**Fig. 2**);
3. Drill the fixing holes **A**, insert the wall plugs **B** then with the cables threaded through opening **E** fix the mounting plate **C** to the wall with the 4 screws provided **F** (**Fig. 2**);
4. Hook the PBC connection board **G** to the mounting plate **C** as shown in **Fig. 3** and connect the wires (using the screwdriver provided) to the terminals as shown in the diagram provided;
5. Once the wires are connected, hook the videophone **H** to the mounting plate **C** as shown in **Fig. 3**;
6. Connect the Plug **I** on the ribbon cable from the videophone to the plug **L** on the PCB connection board **G**;
7. Place the videophone **H** against the 4 hooks **M** on the mounting plate **C** (in line with the 4 openings **N** on the rear side of the videophone **Fig. 5**) and push down as suggested by the pointers in **Fig. 4**, the videophone will lock into place;
8. To remove the videophone, hold it firmly and push the unit in an upward direction until the videophone **H** unlocks from the mounting plate **C**.

Installation diagrams

NOTES AND SUGGESTIONS

- All diagrams refer to all kits versions: flush or surface, colour or black & white.
- Dashed connections refer to optional connections ("Local bell", "Push to exit" & "Door monitor").
- Some diagrams show how to connect a 12Vdc electric lock: these directions are suitable for all diagrams in this manual.
- Each time a setting is changed on a videophone (address, extension, number of rings etc.), the videophone must be disconnected from the relevant connection board then after a few seconds reconnected again to allow the recognizing of the new setting.
- All diagrams shown are valid for B&W or colour systems with surface or flush mount door station.

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.



WE RECOMMEND

This equipment is installed by a Competent Electrician, Security or Communications Engineer

Art.3656

ON 1 2 3 4 5 6 7 8 ON 1 2

to Art.3656

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20

Local Bell

Art.850K

24V~

230Vac 0 127Vac

Push to Exit

Art.1VR4KCMC-N

NC ON Coax SL

SL SS V2 V1 V - S8 +20V +12V

VR4KAMK-1

Art. 140

NO NC C PTE SL BS 2 1 +12 +20

SE 12Vdc

Red - Rosso Blue - Blu

SE 12Vdc

Red - Rosso Blue - Blu

Using Electric Lock 12Vdc 0.3A Max
Con serratura elettrica 12Vdc 0.3A Max

VR4KAMK-1

Art. 140

ON 1 2 3 4

NO NC C PTE SL BS 2 1 +12 +20

SE 12Vdc

Red - Rosso Blue - Blu

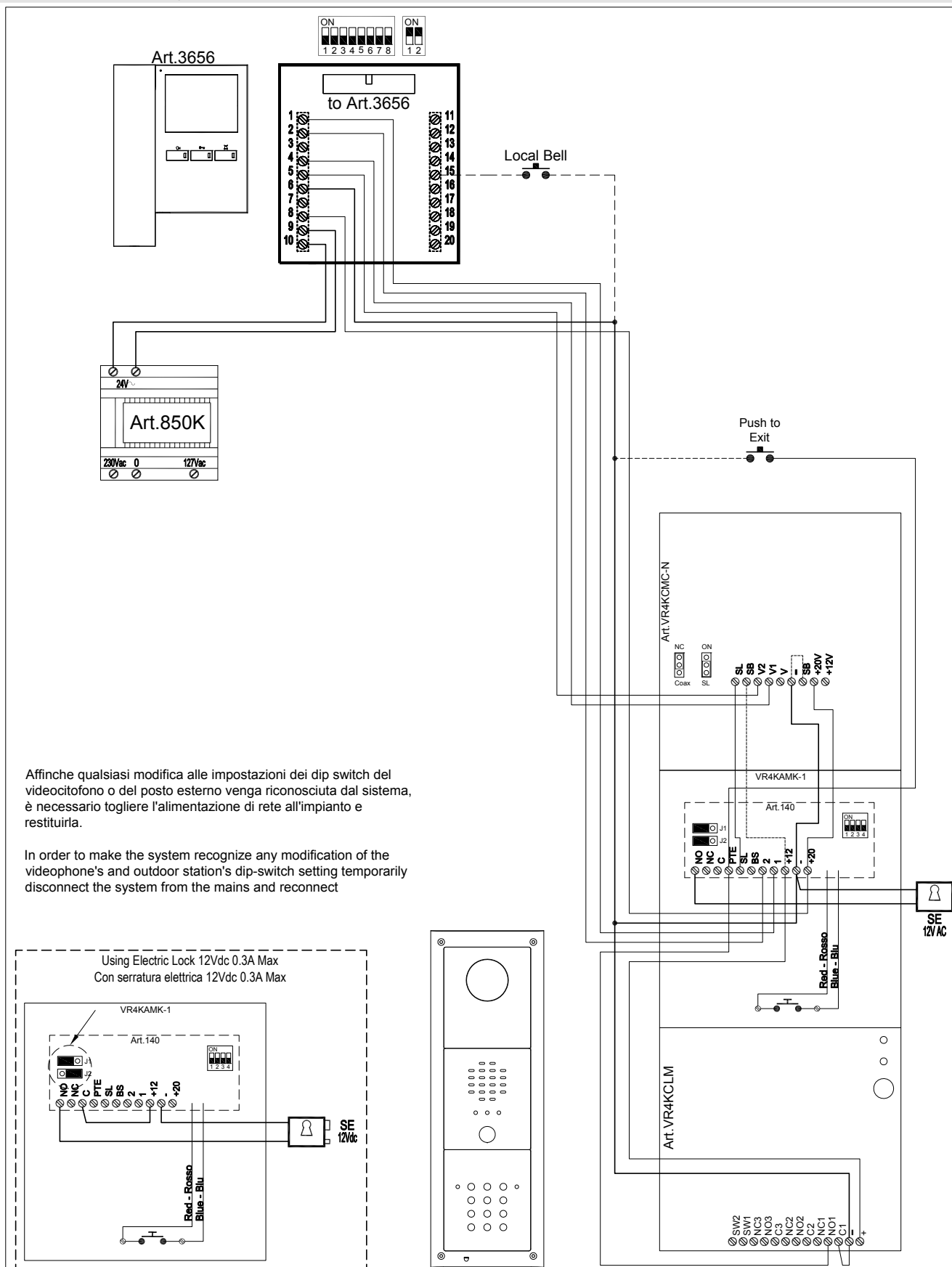
SE 12Vdc

Red - Rosso Blue - Blu

Title: CVR4KV-1/3600, CVR4KV-1S/3600		Data creazione: 24/09/2015	Foglio 1 / 1
Titolo: 		Data modifica: 24/09/2015	
*  Videx Electronics S.p.A. Via del Lavoro 1, 63046 Monte Giberto (FM) Phone: +39 0734 631669 - Fax +39 0734 631669 www.videx.it - info@videx.it		Autore: Marco Rongoni Cod File: vr4kv-001b-3600.dwg	
Notes: * Note:			

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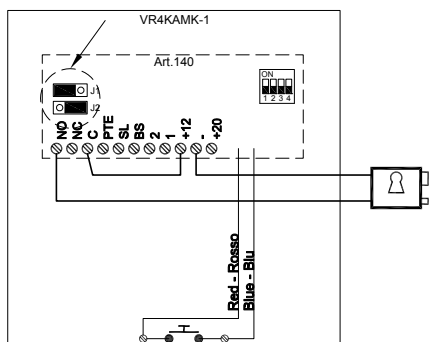
VIDEOKIT VRVKC-1/3656, VRVKC-1S/3656



Affinche qualsiasi modifica alle impostazioni dei dip switch del videocitofono o del posto esterno venga riconosciuta dal sistema, è necessario togliere l'alimentazione di rete all'impianto e restituirla.

In order to make the system recognize any modification of the videophone's and outdoor station's dip-switch setting temporarily disconnect the system from the mains and reconnect

Using Electric Lock 12Vdc 0.3A Max
Con serratura elettrica 12Vdc 0.3A Max



Titolo: CVR4KV-1/CL/3600, CVR4KV-1S/CL/3600

Titolo:



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Notes:

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Data creazione:

24/09/2015

Data modifica:

24/09/2015

Autore:

Marco Rongoni

Cod. File:

vr4kv-003b-3600.dwg

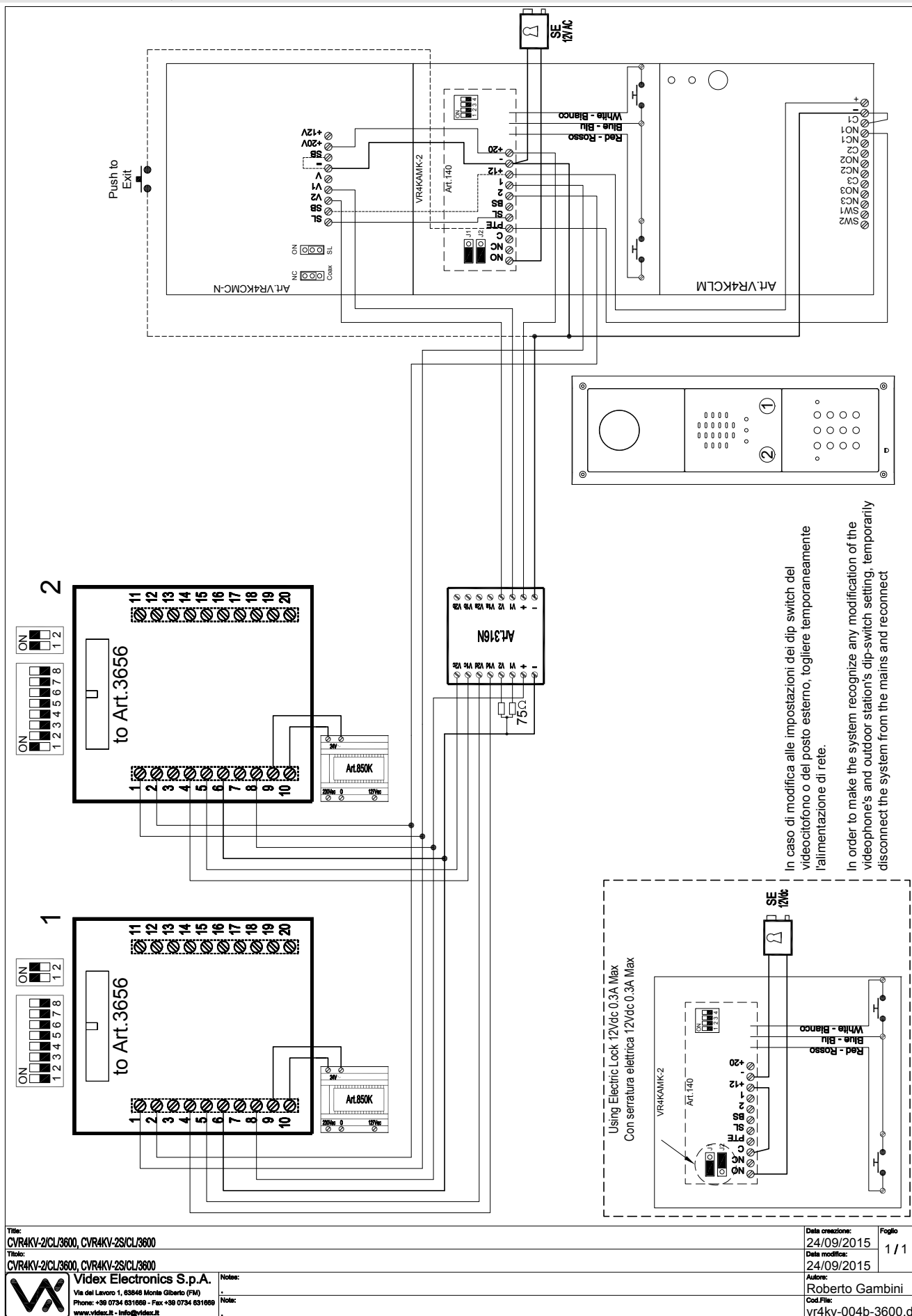
Foglio

1 / 1

VRVK/3656 Series "6 wire Bus" Vandal Resistant videokit

Installation diagrams

VIDEOKIT VRVKC-2/3656, VRVKC-2S/3656



Art.3656

to Art.3656

Art.850K

Art.316

Art.850K

VR4KAMK-2

ATL140

SE 12Vdc

White - Bianco

Blue - Blu

Red - Rosso

+20V

+12V

-12V

SL

BS

C

PTF

NC

NO

Common

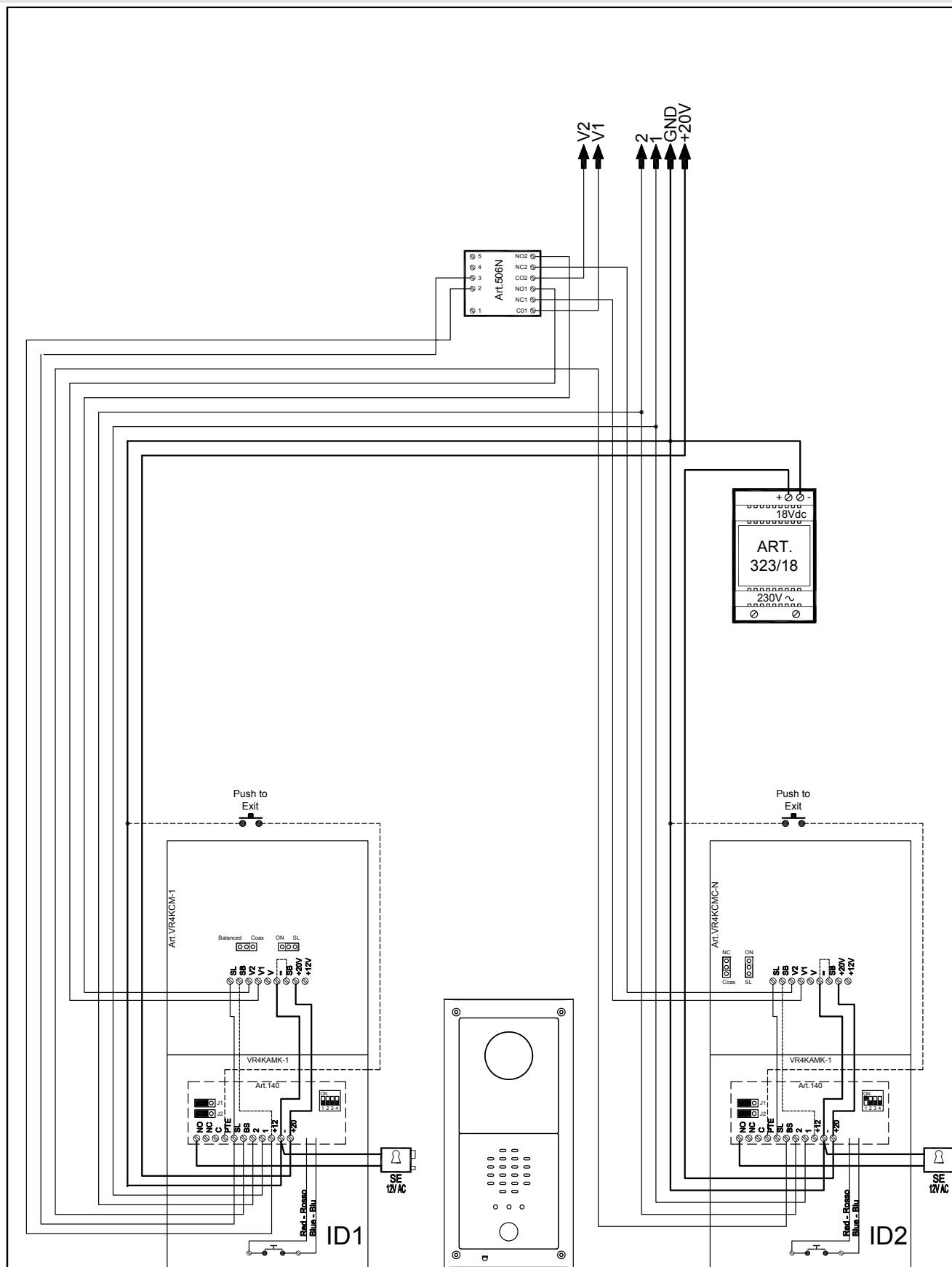
Push to Exit

In caso di modifica alle impostazioni dei dip switch del videocitofono o del posto esterno, togliere temporaneamente l'alimentazione di rete.

In order to make the system recognize any modification of the videophone's and outdoor station's dip-switch setting, temporarily disconnect the system from the mains and reconnect

Title: VRVK4K-2/3656, VRVK4K-2S/3656		Data creazione: 21/10/2015	Foglio 1 / 1
TITOLO: VRVK4K-2/3656, VRVK4K-2S/3656		Data modifica: 22/10/2015	
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TWO ENTRANCES SYSTEM INSTALLATION



Titolo:
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Cod. File: vrvk-1-001-2e.d



THE POWER TO SECURE



made in
ITALY

MANUFACTURER

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