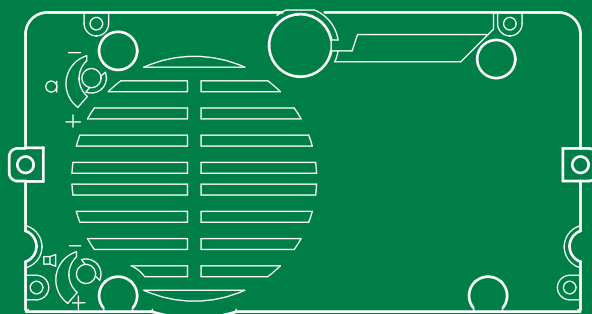
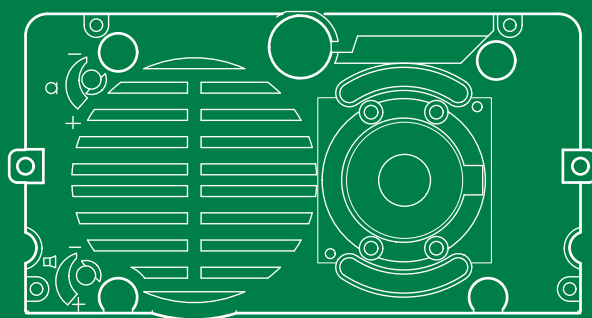


EN

TECHNICAL
MANUAL



Audio/video module for SBTOP system
Art. 4680C, 1622VC, 1622VCF

 **Comelit**[®]
Passion. Technology. Design.

Warning

Intended use

This Comelit product is designed and manufactured for use in the creation of audio and video communication systems in residential, commercial, industrial and public buildings.

Installation

All activities connected to the installation of Comelit products must be carried out by qualified technical personnel, with careful observation of the indications provided in the Manuals / Instruction sheets supplied with those products. The product must be installed to the highest standards.

Wires

Disconnect the power supply before carrying out any operations on the wiring.

Use wires with a cross-section suited to the distances involved, observing the instructions provided in the system manual.

We advise against running the system wires through the same duct as power cables (230V or higher).

Safe usage

To ensure Comelit products are used safely:

- carefully observe the indications provided in the Manuals / Instruction sheets,
- make sure the system created using Comelit products has not been tampered with / damaged.

Maintenance

Comelit products do not require maintenance aside from routine cleaning, which should be carried out in accordance with the indications provided in the Manuals / Instruction sheets.

Any repairs must be carried out:

- for the products themselves, exclusively by **Comelit Group S.p.A.**,
- for the systems, by qualified technical personnel.

Do not use alcohol or aggressive products for cleaning purposes.

Disclaimer

Comelit Group S.p.A. does not assume any responsibility for

- any purpose other than the intended use,
- failure to observe the indications and warnings contained in this Manual / Instruction sheet.

Comelit Group S.p.A. reserves the right to change the information provided in this Manual / Instruction Sheet at any time and without prior notice.

Directives



The manufacturer, **Comelit Group S.p.A.**, hereby declares that this equipment conforms to the applicable directives. The full EU conformity declaration is available on the web page for the product.



In accordance with art. 26 of Italian Legislative Decree dated 14th March 2014, no. 49 "Implementation of directive 2012/19/EU on Waste Electrical and Electronic Equipment (WEEE)", the "crossed-out wheeled bin" symbol indicates that at the end of its useful life, this product must be separated from other waste before collection for disposal. The user should therefore take the exhausted appliance to suitable local collection centres for waste electrical and electronic products. As an alternative to handling this process yourself, you can take the appliance to your local equipment dealer when purchasing a new equivalent product. Electronics dealership businesses covering an area of 400 m² are also obliged to accept waste electronic products smaller than 25 cm for disposal, without any obligation to purchase. Suitable separated waste collection for the subsequent reuse of the appliance sent for recycling, processing and environmentally conscious disposal helps to avoid potential negative effects on the environment and human health, and encourages the reuse and recycling of the materials used in the construction of the appliance.

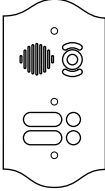
Table of contents

Warning	2
Description.....	4
Art. 4680C - Compatibility table	4
Art. 1622VC/1622VCF - Compatibility table.....	4
Connecting the remote camera	5
Technical characteristics.....	6
External unit installation	8
Connections.....	10
4680C/1622VC/1622VCF connections.....	10
Remote camera connection (Art. 1622VC / 1622VCF only)	10
Variants	11
Module connection.....	12
Ikall / Ikall Metal modules.....	12
Connection of button modules 33433, 33434, 33436, 33433M, 33434M, 33436M.....	12
Connection of Art. 3348B, 3348BM.....	12
Connection of Art. 3360B, 3360BM.....	12
Vandalcom modules.....	13
Connection of Art. 3064S	13
Connection of Art. 3188SB.....	13
Connection of Art. 3070S, 3072S	14
Modules for Single-plate external unit.....	14
Connection of Art. 3063D	14
Button programming.....	15
Special programmes	16
Installation information.....	18
System performance and layouts	18

Description

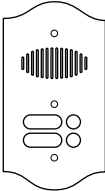
Article **4680C** is a colour audio-video module which is compatible with Comelit "SBTOP" video entry systems, exclusively for use in conjunction with riser power supply unit Art. 4888C.

It can be installed in Ikall, Ikall Metal, Vandalcom, Roma external units and can be finished with additional modules to meet all system requirements.

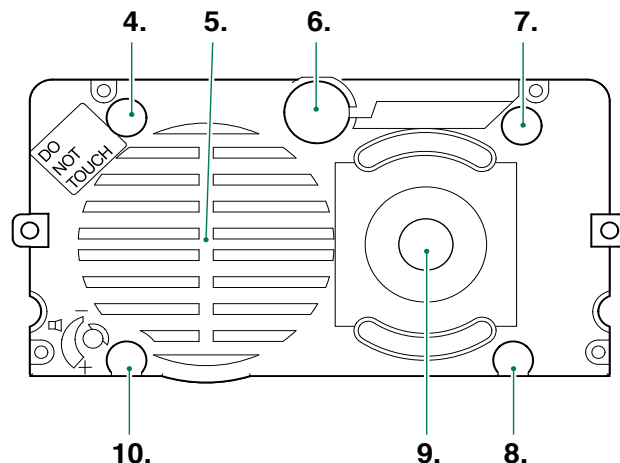
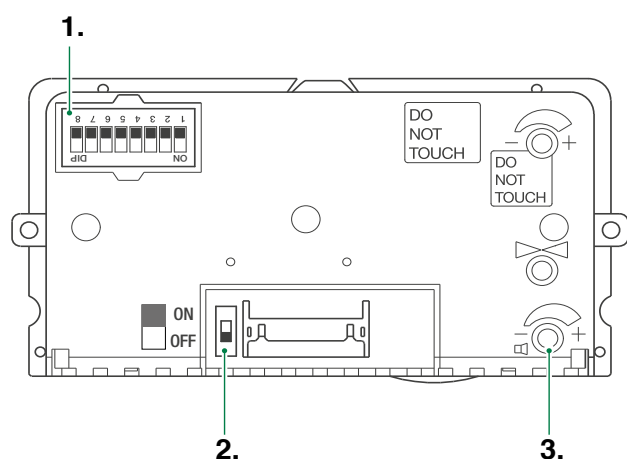
Art. 4680C - Compatibility table				
Ikall		Ikall Metal	Vandalcom	Roma
 33410		 33410M	 3268S/0	 32xx/RI
 33411	 33411A	 33411M	 3268S/1	
 33412	 33412A	 33412M	 3268S/2	

Item **1622VC/1622VCF** is an audio module allowing connection of a remote colour PAL camera. It is compatible with Comelit "SBTOP" video entry systems, exclusively for use in conjunction with riser power supply unit Art. 4888C.

It can be installed in Ikall, Ikall Metal, Vandalcom, Roma external units and can be finished with additional modules capable of fulfilling all system requirements.

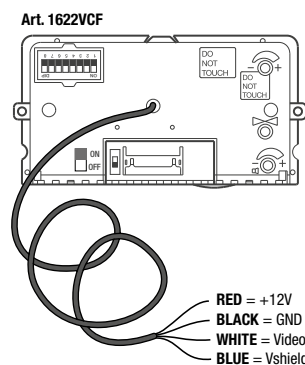
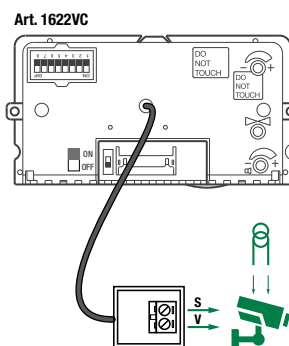
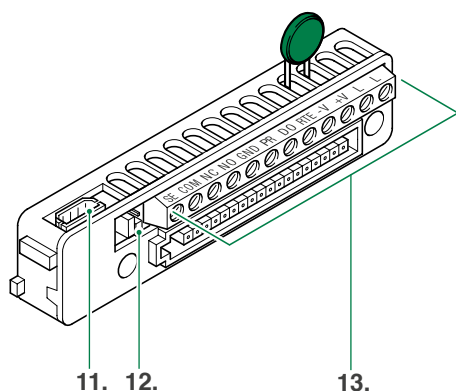
Art. 1622VC/1622VCF - Compatibility table				
Ikall		Ikall Metal	Vandalcom	Roma
 33400		 33400M	 3262S/0	 30xx/RI
 33401	 33401A	 33401M	 3262S/1	
 33402	 33402A	 33402M	 3262S/2	

To make use of the indicator LEDs (busy, call sent, door opened, communication active), faceplates from kit 33400K are available to purchase separately for the IKALL series.



1. DIP switches for function programming and setting the user code.
2. Switch for confirming special programmes.
3. Loudspeaker volume control.

4. Indicator LED: call sent.
5. Loudspeaker.
6. Microphone.
7. Indicator LED: system busy.
8. Indicator LED: sound activated.
9. Colour camera (with Art. 4680C only).
10. Indicator LED: lock-release activated.



11. 8-pole cable connector.
12. RC network control for door lock filter on relay contacts (see **"Variants"**).
13. Terminal block for connection:
 - SE** electric lock connection
 - COM** common relay contact
 - NC** normally closed relay contact
 - NO** normally open relay contact
 - GND** input reference negative for DO-RTE
 - PR** programming input
 - DO** door opened signal input
 - RTE** local lock release input
 - V-** power supply negative
 - V+** power supply positive
 - LL** bus line connection

Connecting the remote camera

Art. **1622VC** is supplied with a cable for the connection of a separately powered remote camera.

Art. **1622VCF** is supplied with a cable for the connection of a camera powered by the external unit (12 V-150 mA MAX).

Technical characteristics

Art. 4680C

MAIN FEATURES

Audio/video system	Yes
Horizontal resolution (TVL)	540
Minimum illumination (lux)	0.35
Lens size (mm)	3.60
Camera orientation	Yes
Clamps	L L V+V- RTE DO PR GND SE COM NC NO
Microphone volume control	Yes
Loudspeaker volume control	Yes
Operating temperature (°C)	-25 ÷ 55
S/N ratio (dB)	48

FUNCTIONS

Key button function	Yes
---------------------	-----

HARDWARE SPECIFICATIONS

Visual signalling	Yes
Acoustic signalling	Yes
Speech synthesis	Yes

SETTINGS

Loudspeaker volume control	Yes
Microphone volume control	Yes

GENERAL DATA

Product height (mm)	55
Product width (mm)	102
Product depth (mm)	38

COMPATIBILITY

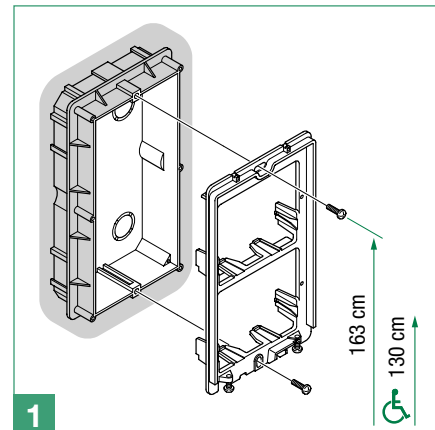
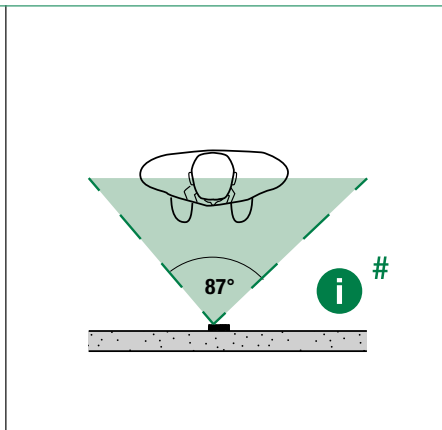
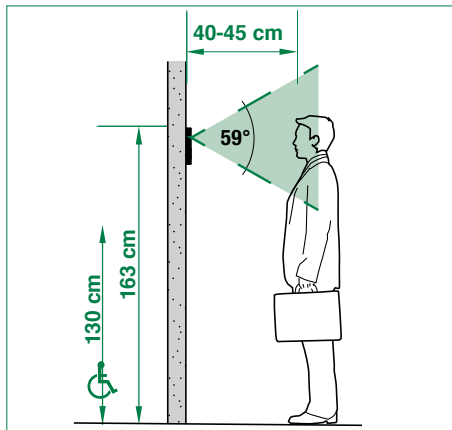
Simplebus Top audio/video system	Yes
----------------------------------	-----

ELECTRICAL SPECIFICATIONS

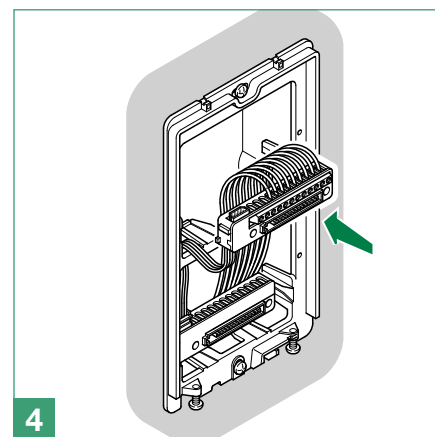
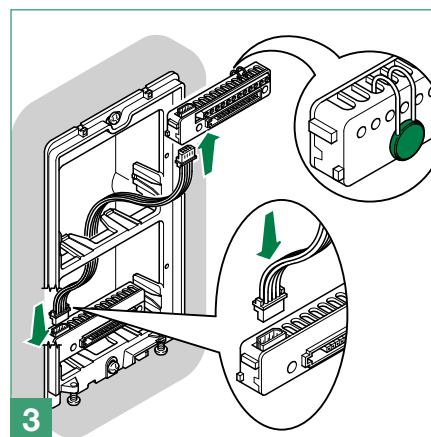
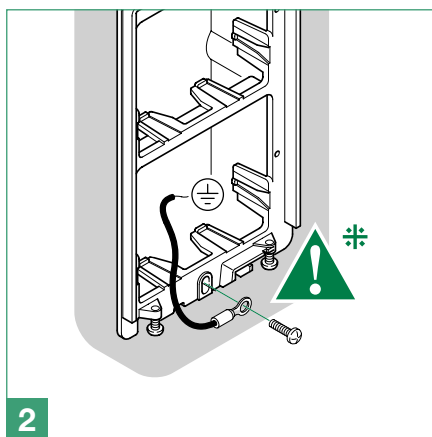
Door release (dry contact bridge)	Yes
Door release (direct current output)	Yes

	Art. 1622VC	Art. 1622 VCF
MAIN FEATURES		
Audio/video system	Yes	Yes
Clamps	L L V+V- RTE DO PR GND SE COM NC NO	L L V+V- RTE DO PR GND SE COM NC NO
Microphone volume control	Yes	Yes
Loudspeaker volume control	Yes	Yes
Operating temperature (°C)	-25 ÷ 55	-25 ÷ 55
FUNCTIONS		
Key button function	Yes	Yes
HARDWARE SPECIFICATIONS		
Visual signalling	Yes	Yes
Acoustic signalling	Yes	Yes
Speech synthesis	Yes	Yes
SETTINGS		
Loudspeaker volume control	Yes	Yes
Microphone volume control	Yes	Yes
GENERAL DATA		
Product height (mm)	55	55
Product width (mm)	102	102
Product depth (mm)	38	38
COMPATIBILITY		
Simplebus Top audio/video system	Yes	Yes
ELECTRICAL SPECIFICATIONS		
Door release (dry contact bridge)	Yes	Yes
Door release (direct current output)	Yes	Yes

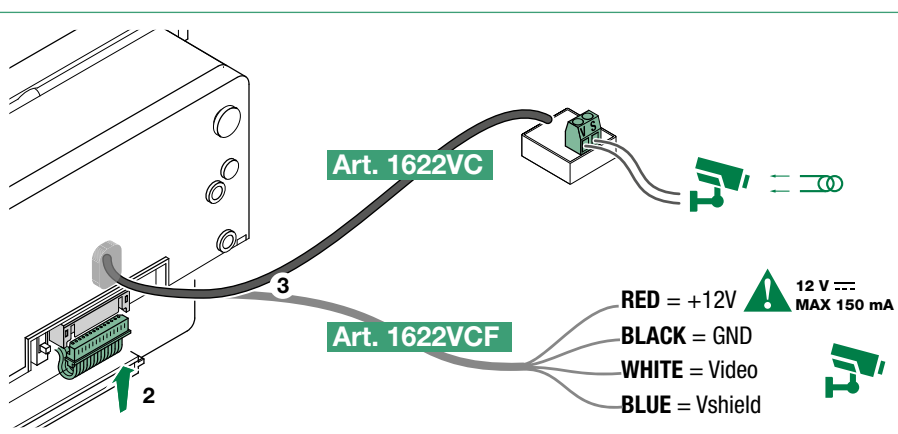
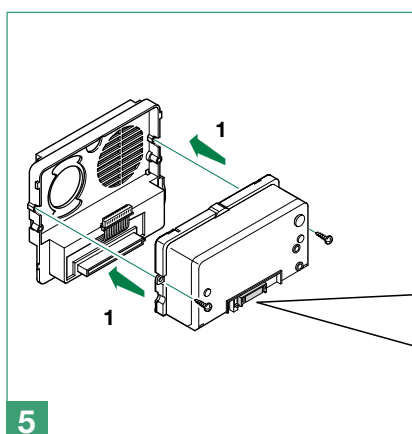
External unit installation

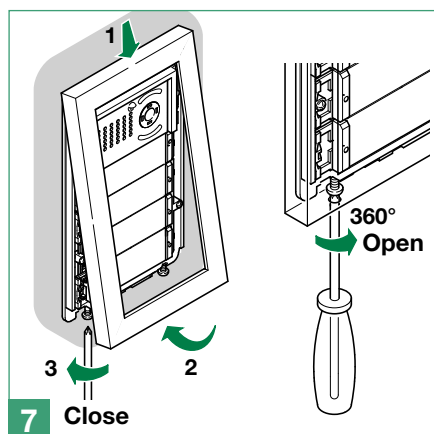
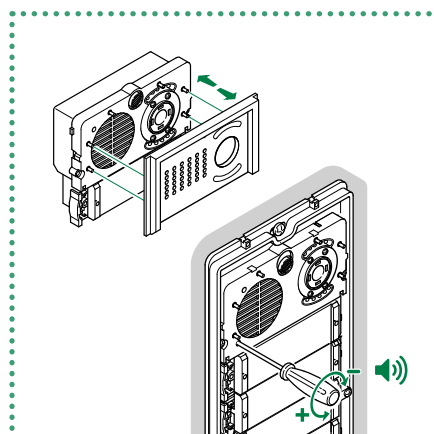
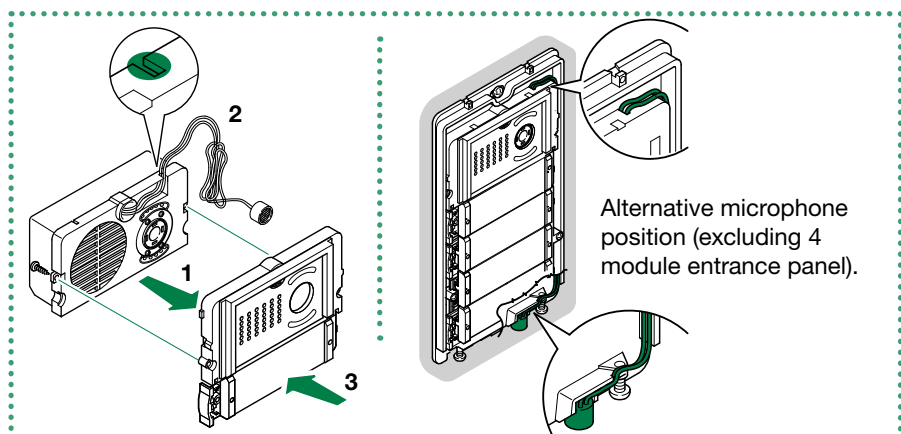
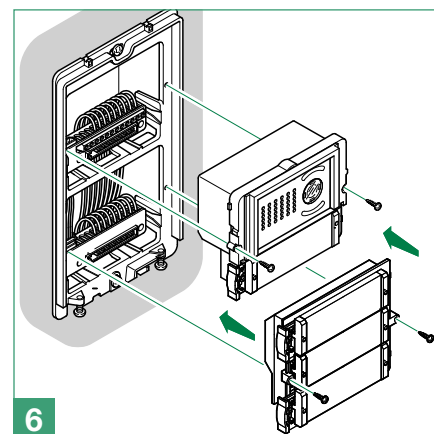
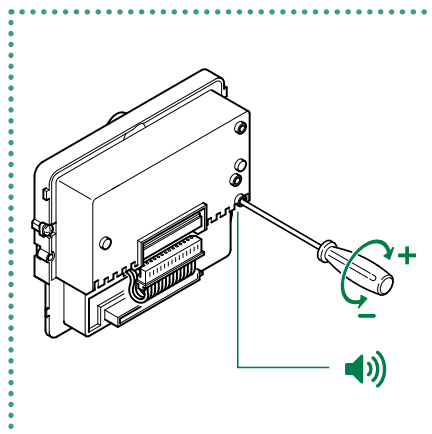
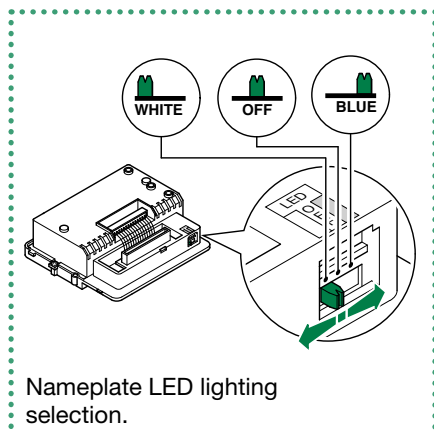


The camera must not be installed in front of light sources, or in places where the filmed subject is against the light.
In dim environments, we recommend additional lighting is provided.



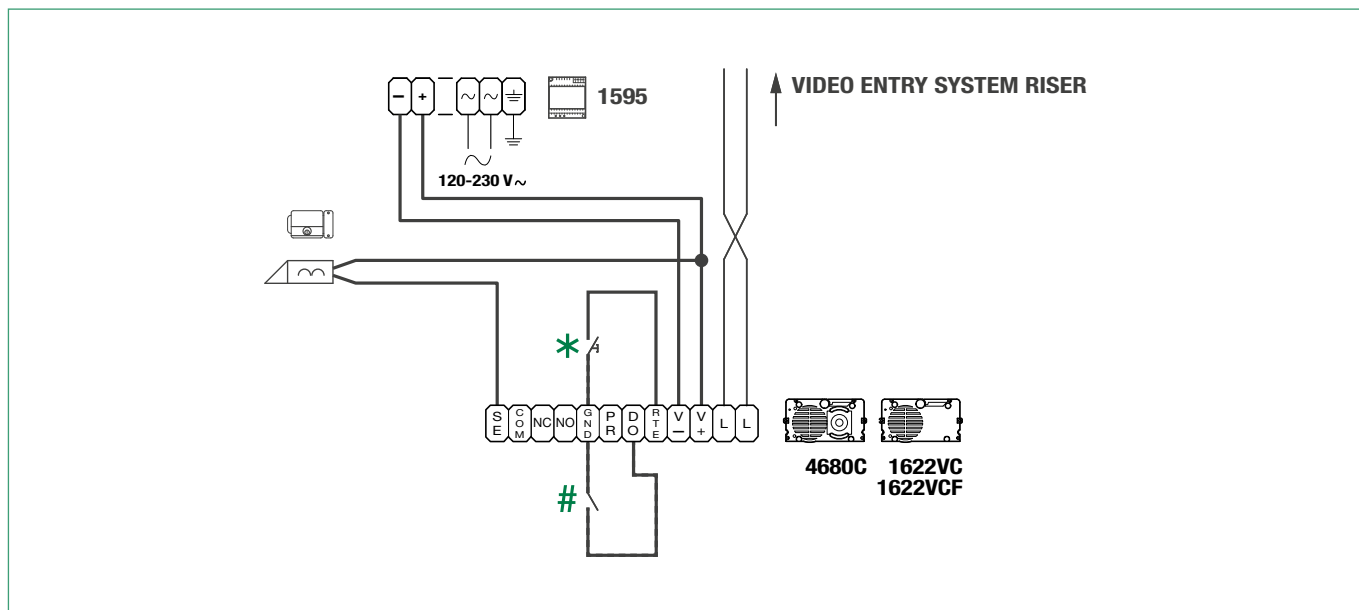
Connect the module support frame to earth.





Connections

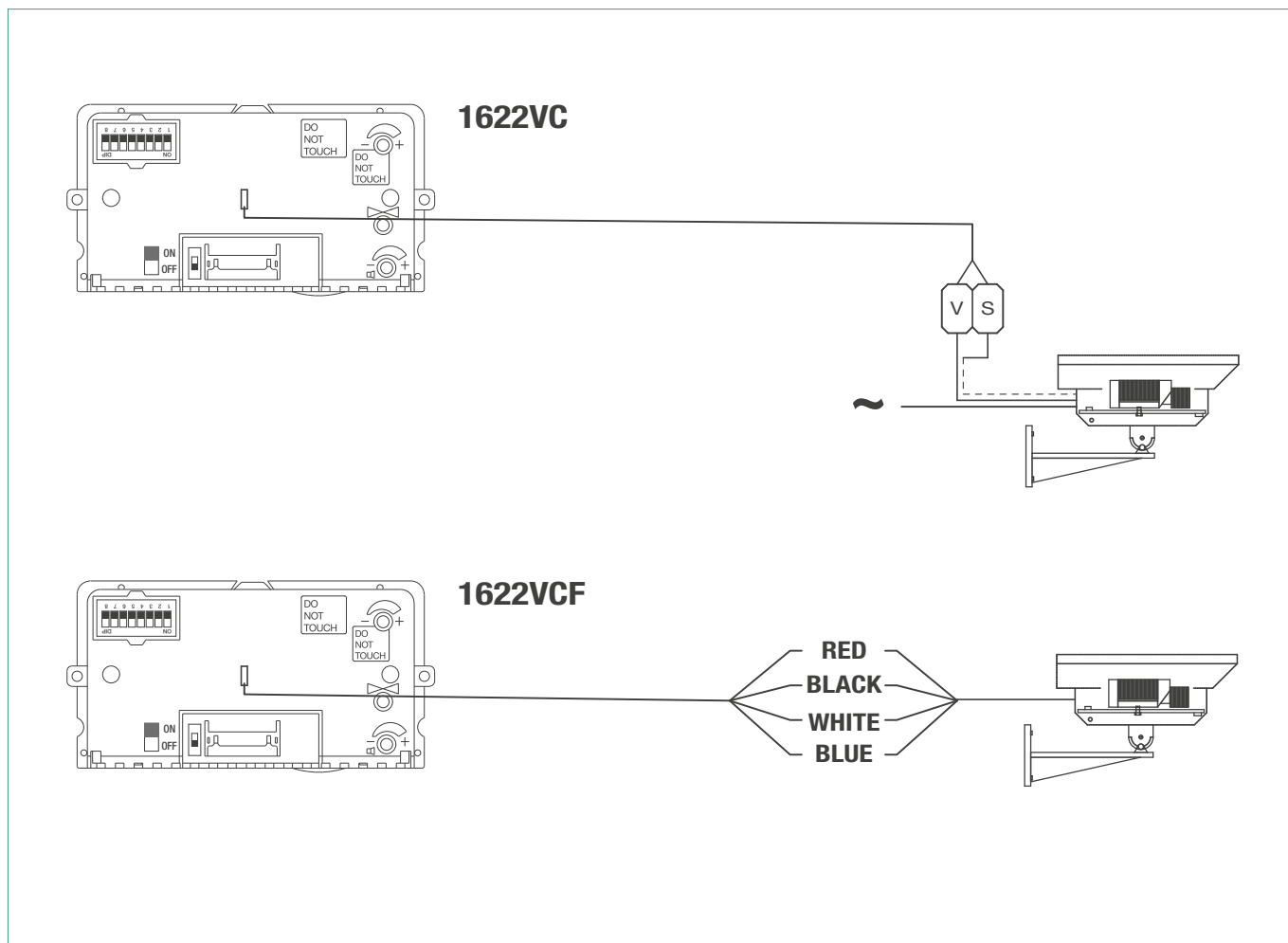
4680C/1622VC/1622VCF connections



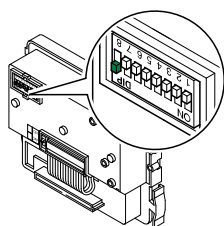
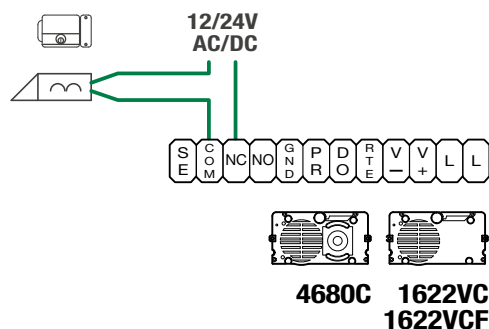
* 20 m max. Local lock-release button.

Active input closed for DOOR OPEN signal.

Remote camera connection (Art. 1622VC / 1622VCF only)

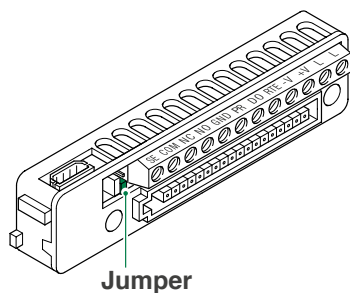


Variant for using a safety lock

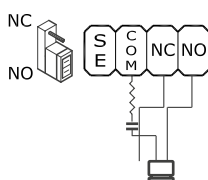


Set dip switches in permanent mode as shown in figure (Dip switch 8 ON, Dip switches 1,2,3,4,5,6,7 OFF)

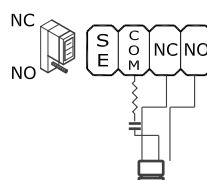
(Applies to Art. 4680C with R.I. 041 or greater)



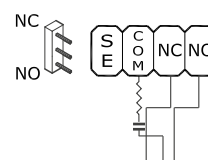
Jumper



On C. NO. contacts



On C. NC. contacts

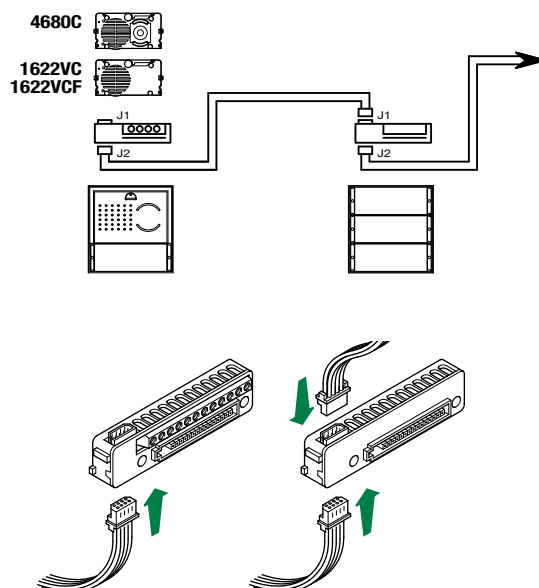


Excluded: voltage-free contact

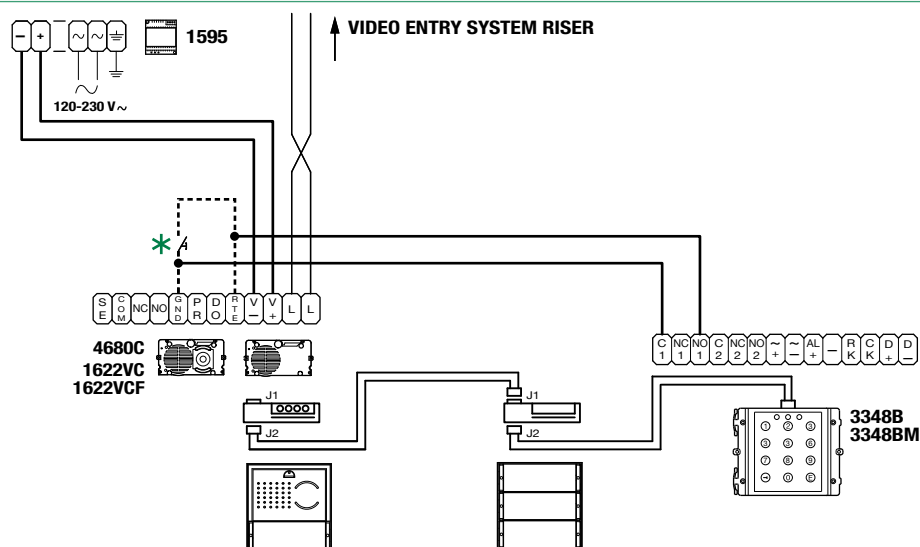
Module connection

Ikall / Ikall Metal modules

Connection of button modules 33433, 33434, 33436, 33433M, 33434M, 33436M



Connection of Art. 3348B, 3348BM



Connection of Art. 3360B, 3360BM

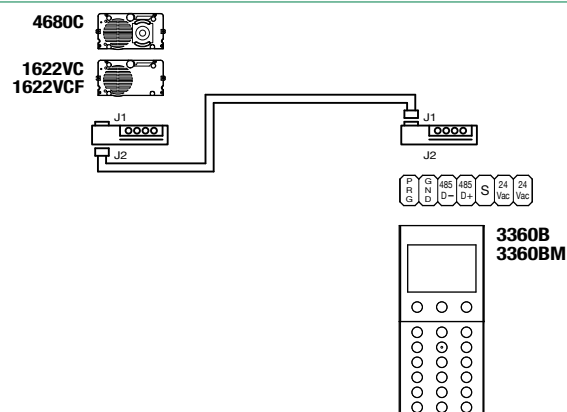


Diagram illustrating the connection of a 1172B rack system. The rack is divided into sections labeled 1172B. The diagram shows the connection of a 120-230 V~ power source to the rack. The rack contains various modules including a VIDEO ENTRY SYSTEM RISER, a 3064S module, and three 3064S modules. The diagram also shows the connection of a 4680C + 3268S and 1622VC / 1622VCF + 3262S module to the rack.

Use bulb Art. 1172B for nameplate lighting. The bulb is polarised.

The diagram illustrates the wiring for the 1172B system, including power supply, signal processing, and control interfaces.

Power Supply: A 120-230 V~ AC source is connected to a 1595 power supply unit. The output provides power to the system.

Signal Processing: The system includes a VIDEO ENTRY SYSTEM RISER and a 3188SB control unit. The 3188SB unit has multiple input/output terminals (NO2, C2, NC2, NO1, C1, NC1, PGM, RK, D-, D+) and a digital display.

Control and Monitoring: A 4680C+3268S control unit is connected to a 1622VC+3262S monitoring unit. The monitoring unit displays various status indicators (S, E, COM, NC, NO, GND, P, R, D, O, E, V, V+, L, L).

Relays and Switches: The system features three relays (3064S) and a switch (CV3). The relays are labeled N°1, N°2, and N°15. The switch is labeled CV3.

Connections: The diagram shows the following connections:

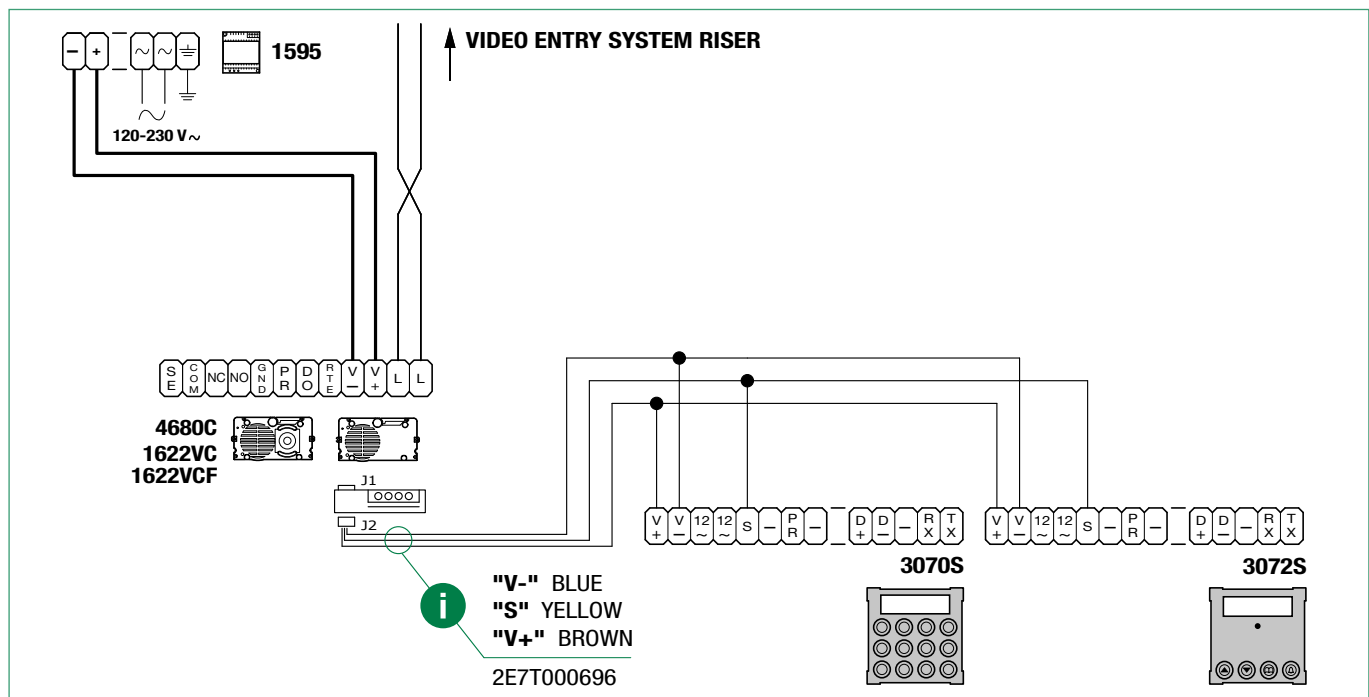
- Power supply (1595) connected to the system riser and the 3188SB unit.
- Signal processing unit (4680C+3268S) connected to the monitoring unit (1622VC+3262S).
- Control unit (4680C+3268S) connected to the monitoring unit (1622VC+3262S).
- Relays (3064S) and switch (CV3) connected to the system riser and the 3188SB unit.

Labels and Notes:

- 1595: Power supply unit.
- 120-230 V~: AC voltage source.
- VIDEO ENTRY SYSTEM RISER: Signal processing unit.
- 3188SB: Control unit with digital display.
- 4680C+3268S: Control unit.
- 1622VC+3262S: Monitoring unit.
- 3064S: Relays.
- CV3: Switch.
- N°1, N°2, N°15: Relay identifiers.
- 1172B: System identifier.
- MAX 15: Maximum number of units.

Use bulb Art. 1172B for nameplate lighting. The bulb is polarised

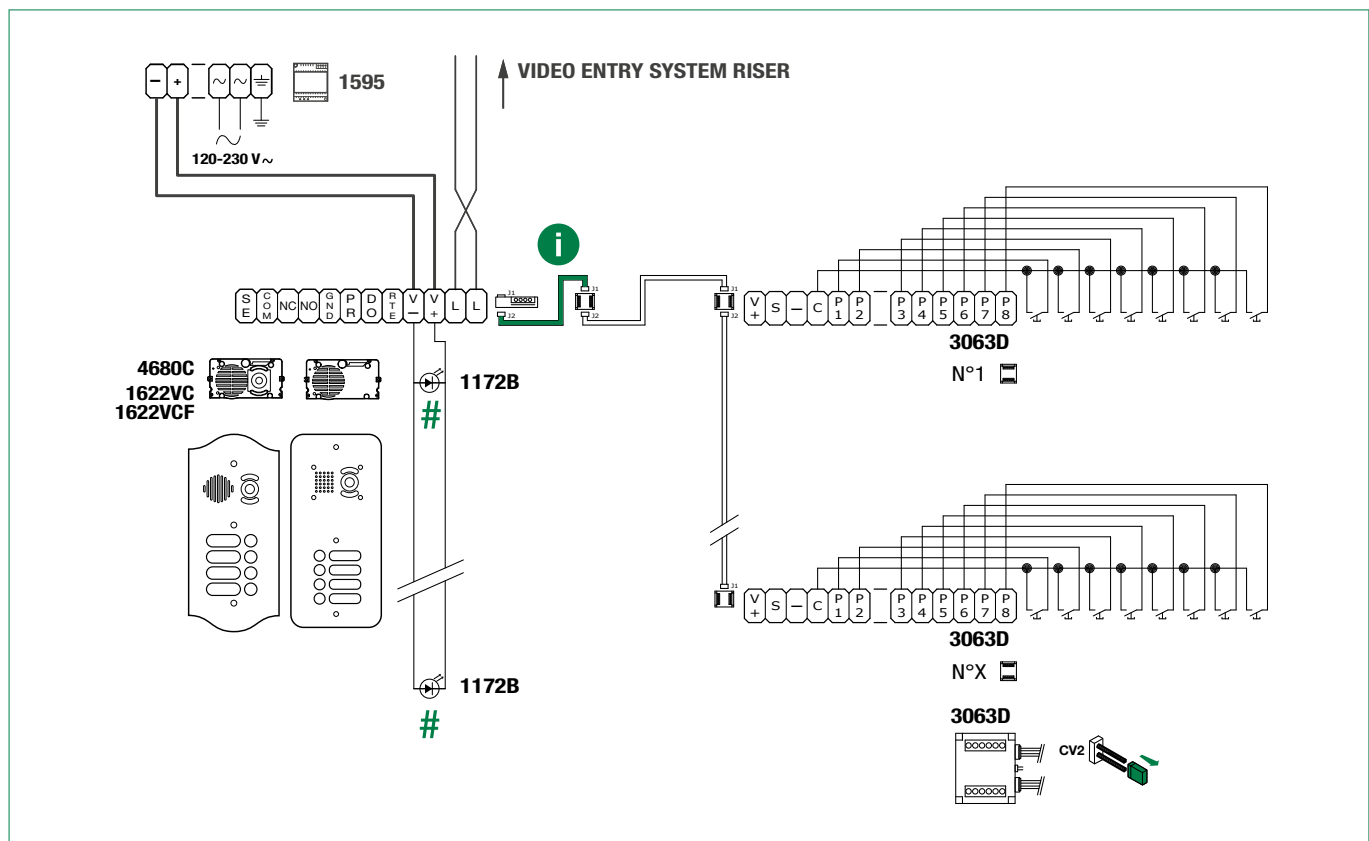
Connection of Art. 3070S, 3072S



i Use the cable 2E7T000696 supplied with Art. 3070S, Art. 3072S

Modules for Single-plate external unit

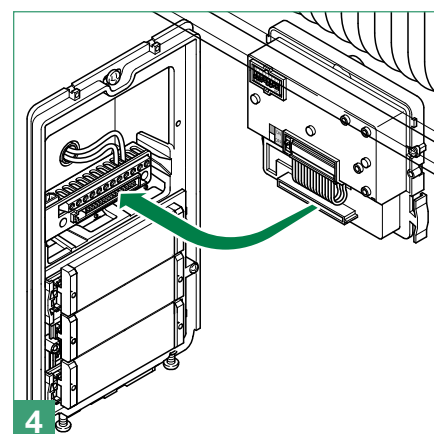
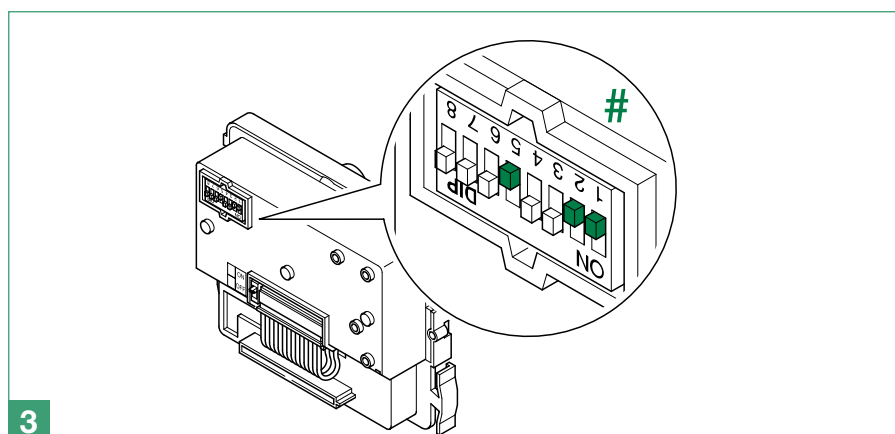
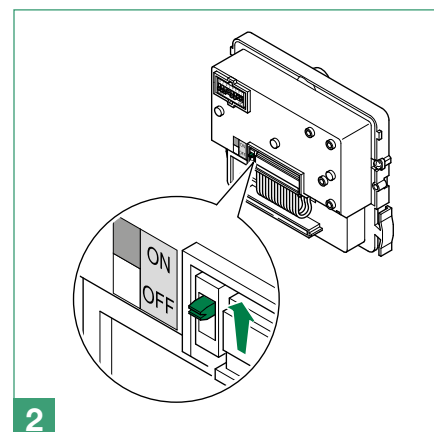
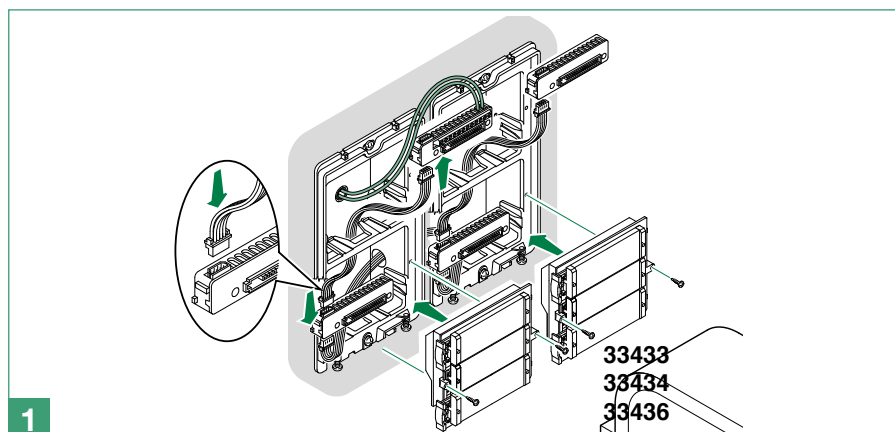
Connection of Art. 3063D



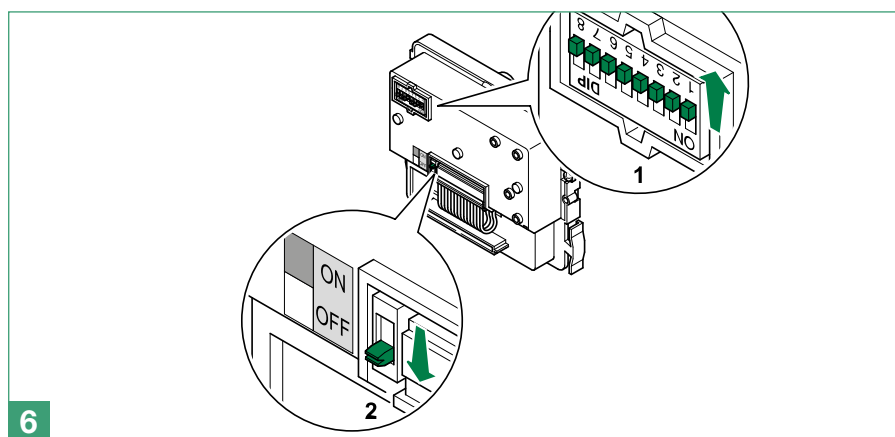
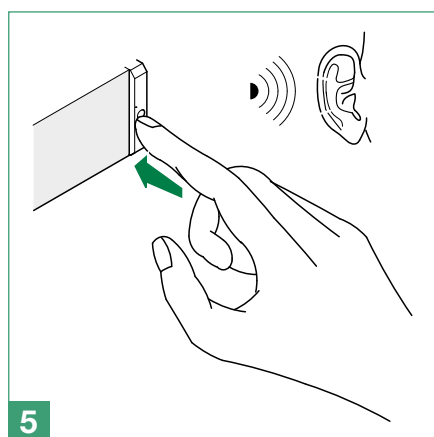
 Use the cable included in Art. 1250IV, Art. 1250IA

Use bulb Art. 1172B for nameplate lighting. The bulb is polarised

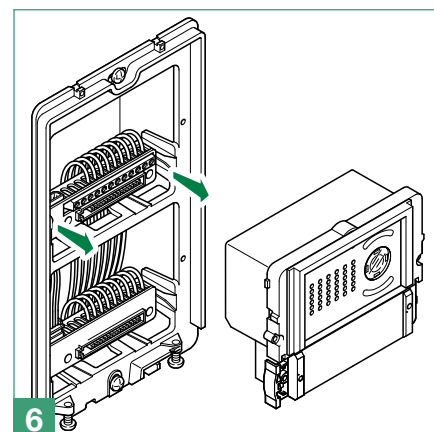
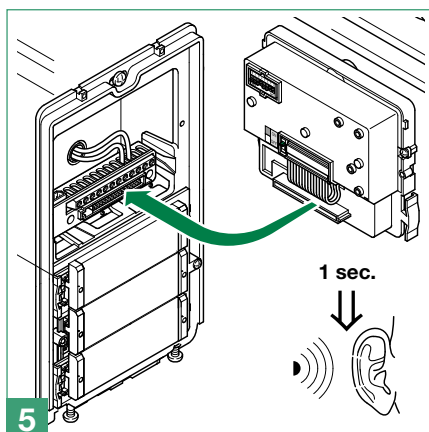
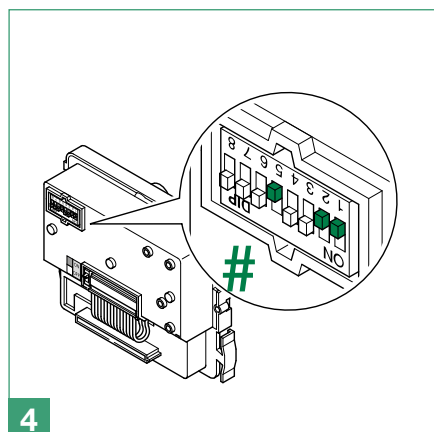
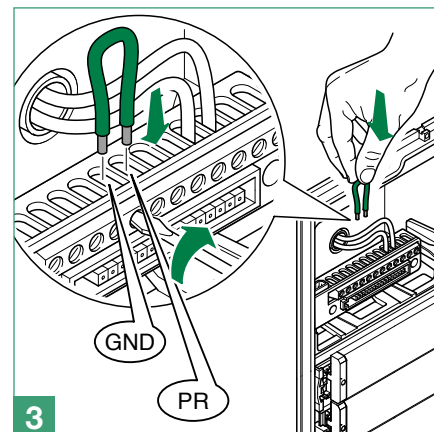
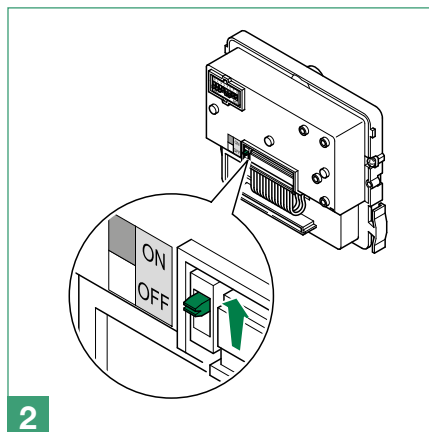
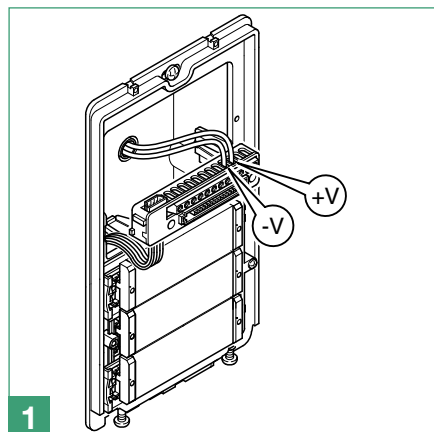
Button programming



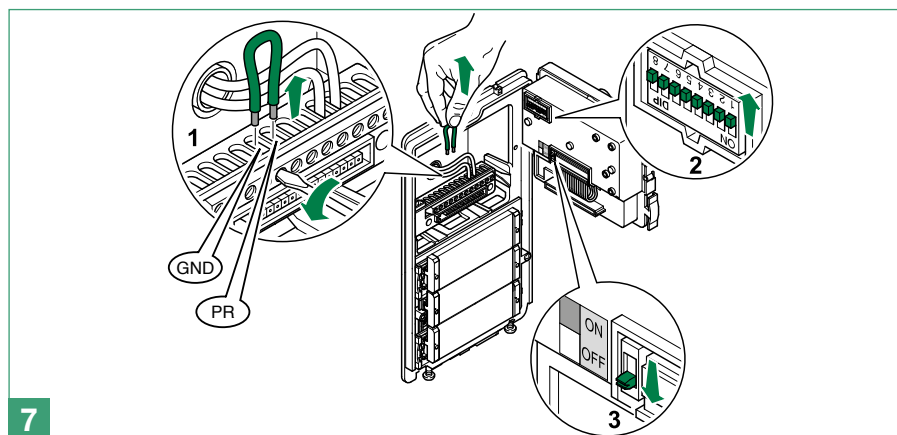
Set the user code using the dip switches; see [addressing table](#).



Special programmes



Set the dip switches for the function you wish to program, see [table below](#)



CODE	DIP SWITCH ON	FUCNTION
		De-misting heating element
213	1,3,5,7,8	OFF (default)
212	3,5,7,8	ON
		Audio-visual messages
210	2,5,7,8	visual messages only
211	1,2,5,7,8	Swedish
214	2,3,5,7,8	OFF (default)
215	1,2,3,5,7,8	Italian
216	4,5,7,8	French
217	1,4,5,7,8	Spanish
218	2,4,5,7,8	Dutch
219	1,2,4,5,7,8	Greek
220	3,4,5,7,8	English
221	1,3,4,5,7,8	German
222	2,3,4,5,7,8	Portuguese
202	2,4,7,8	Enables voice message (door opened warning) when the RTE contact is closed
203	1,2,4,7,8	Disables voice message (door opened warning) when the RTE contact is closed (default setting)
		Door lock
223	1,2,3,4,5,7,8	Door lock command on SE in AC
224	6,7,8	Door lock command on SE in enhanced AC (default)
225	1,6,7,8	Door lock command on SE in DC
245	1,3,5,6,7,8	Door lock time: 2 sec + deactivation tone (default)
246	2,3,5,6,7,8	Door lock time: 4 sec
247	1,2,3,5,6,7,8	Door lock time: 8 sec
248	4,5,6,7,8	Door lock confirmation tone: enabled
251	1,2,4,5,6,7,8	C.NC.NO relay in parallel with SE (default)
252	3,4,5,6,7,8	Lock-release always enabled (default)
253	1,3,4,5,6,7,8	Lock-release only enabled for user called
		Actuator control management N.B. the system should not include Art. 1256 in generic actuator mode.
229	1,3,6,7,8	Enabling C.NC.NO relay on actuator control: 2 sec
230	2,3,6,7,8	Enabling C.NC.NO relay on actuator control: 4 sec
231	1,2,3,6,7,8	Enabling C.NC.NO relay on actuator control: 8 sec
228	3,6,7,8	Actuator control on serial line S: disabled (default)
227	1,2,6,7,8	Actuator control on serial line S: enabled
		System functions
232	4,6,7,8	Awaiting response time: 60 sec (default)
233	1,4,6,7,8	Awaiting response time: 120 sec

234	2,4,6,7,8	Awaiting response time: 30 sec
235	1,2,4,6,7,8	Talk time: 90 sec (default)
236	3,4,6,7,8	Talk time: 180 sec
237	1,3,4,6,7,8	Self-ignition: enabled (default)
238	2,3,4,6,7,8	Self-ignition: disabled
239	1,2,3,4,6,7,8	Confirmation tone on user call: enabled (default)
240	5,6,7,8	Confirmation tone on user call: disabled
243	1,2,5,6,7,8	Reset wait time: 10 sec (default)
244	3,5,6,7,8	Reset wait time: 1 sec
208	5,7,8	Reset after lock-release in audio: enabled (default)
209	1,5,7,8	Reset after lock-release in audio: disabled
249	1,4,5,6,7,8	Call transmission: single (default)
250	2,4,5,6,7,8	Call transmission: triple
241	1,5,6,7,8	Control of internal units connected to Art. 4680C: up to 70 (default)
242	2,5,6,7,8	Control of internal units connected to Art. 4680C: from 71 to 100
		System mode
000		Simplebus (default)
255	1,2,3,4,5,6,7,8	Simplebus Top
254	2,3,4,5,6,7,8	Restore default

Installation information

- The module Art. 4680C / 1622VC / 1622VCF operates by default as a main external unit (timed busy signal). To set it as a secondary external unit (busy signal active for the whole time the riser is in use), set all the selector DIP switches to ON.
- When a call is transmitted from the external unit, if a busy tone is heard instead of the ringtone, this means communication with another external unit is in progress.

System performance and layouts

For further information of system performance and to view installation layouts, click on the type of system that best meets your needs:

- [SBTOP audio/video system](#) for the creation of audio-video systems for *residential complexes*

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