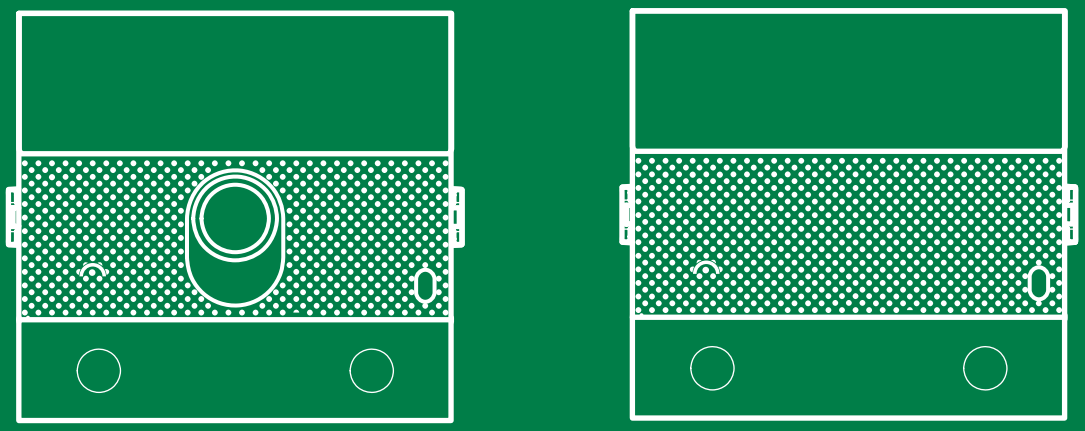
EN

TECHNICAL
MANUAL



Audio/video module for Simplebus2 Ultra
Art. UT2020

Simplebus2 Ultra remote camera audio module
Art. UT2010VC

Comelit®
Passion.Technology.Design.

Warning

- This Comelit product was designed for use in the creation of audio and video communication systems in residential, commercial or industrial settings and in public buildings or buildings used by the public.
- 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.
- Cut off the power supply before carrying out any maintenance procedures.
- 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 the power cables (230V or higher).
- To ensure Comelit products are used safely: carefully observe the indications provided in the manuals / instruction sheets and make sure the system created using Comelit products has not been tampered with / damaged.
- 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 repair work must be carried out: for the products themselves, exclusively by **Comelit Group S.p.A.**, for systems, by qualified technical personnel.
- **Comelit Group S.p.A.** does not assume any responsibility for: any usage other than the intended use; non-observance of the indications and warnings contained in this manual / instruction sheet. **Comelit Group S.p.A.** nonetheless reserves the right to change the information provided in this manual at any time and without prior notice.

Table of contents

Description 3
- **UT2020** 3
- **UT2010VC** 3

Installation notes (Art. UT2020) 5

Technical specifications 6
- **Art. UT2020** 6
- **Art. UT2010VC** 7

Installation 8
- Flush-mounted installation composition table 8
- Surface-mounted installation composition table 8

Flush-mounted installation 9
- **Removing nameplates (2A) / module (2B)** 10
- **Installation with side-by-side boxes** 11

Wall-mounted installation 12

Optional 12
- **Removing nameplates (2A) / module (2B)** 13
- **Installation with side-by-side boxes** 14

Connections 15
- **Connections for Art. UT2020, UT2010VC** 15
- **UT2020, UT2010VC connections with separate power supply** 15
- **Variants** 15
- **Remote camera connection (Art. UT2010VC only)** 16

Module connection 17
- **Outdoor entrance panel module consumption table** 17
  - powered by Art. 1210/1210A 17
  - powered by additional power supply unit Art. 1595 17
  - Connection of button modules Art. UT9200 18
  - Connection of Touchscreen module Art. UT9270 18
  - Connection of number keypad module Art. UT9279M 18
  - Variant with separate power supply 18
  - Connection of digital directory module Art. UT9260M 18

Programming 19
- **Configuring the button type to maintain during normal operation (single/dual)** 19
- **Address button modules** 19
- **Program call addresses** 19

Smart programming of consecutive addresses 20

Programming of specific addresses 21

Special programming via DIP Switch 22
- **Special programming table** 23

Twilight sensor 25
- **Camera LED lighting and button backlighting management** 25
- **Checking twilight sensor operation** 26
- **Adjusting the brightness of the button LEDs and the camera light** 27

Light-me function 28
- **Light-me function behaviour on the basis of the LED backlighting mode** 28

Replacing the audio/video module with programming restore backup 29

Configuring via PC 30

Errors and indications 30

System performance and layouts 30

Addressing table 31

CE

Description

UT2020

Audio/video module for Ultra entrance panel, Simplebus2 system. For use in systems with power supply unit art. 1210 / 1210A.

Wide-angle colour video camera (field of vision: 120° horizontal, 90° vertical)

UT2010VC

Audio module designed for connection of an analogue remote camera with PAL standard for Ultra entrance panel, Simplebus2 system. For use in systems with power supply unit art. 1210 / 1210A.

Easy to install and simple to configure, thanks to the smart programming of call buttons.

Twilight sensor for automatic nameplate backlighting switch-off during daylight hours.

Omnidirectional digital microphone and double loudspeaker for high-fidelity audio.

Audio-visual indications for disabled individuals assistance request can be activated via programming.

Facility for 2 call buttons. To be finished with cap, single button or dual button made using aluminium or professional grade plastic treated to prevent yellowing and dulling.

Adjustment and programming can take place without removing the module.

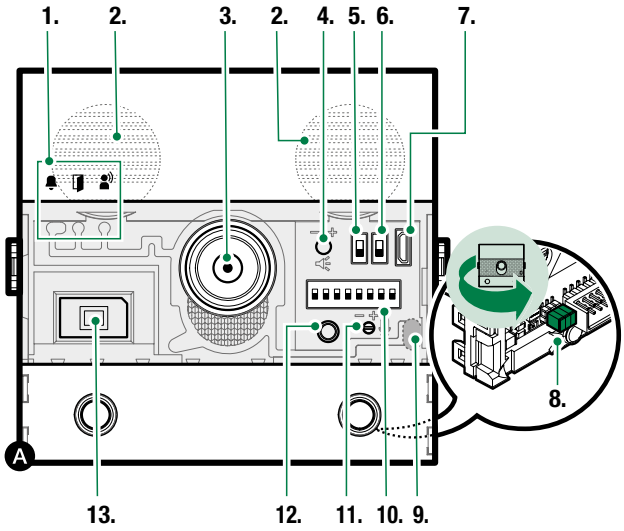
Dimensions: 100 x 90 x 35 mm.

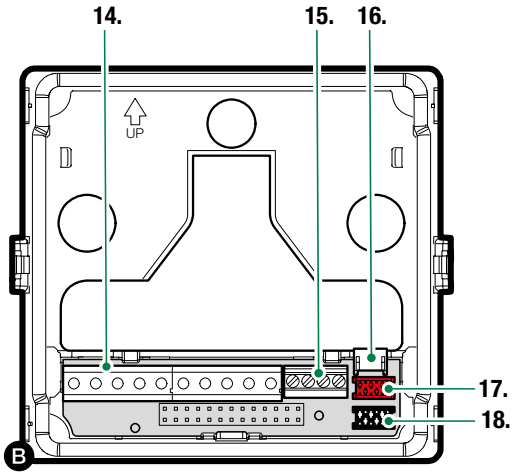
ULTRA: the new and most technologically advanced entrance panel offering maximum ease of installation.

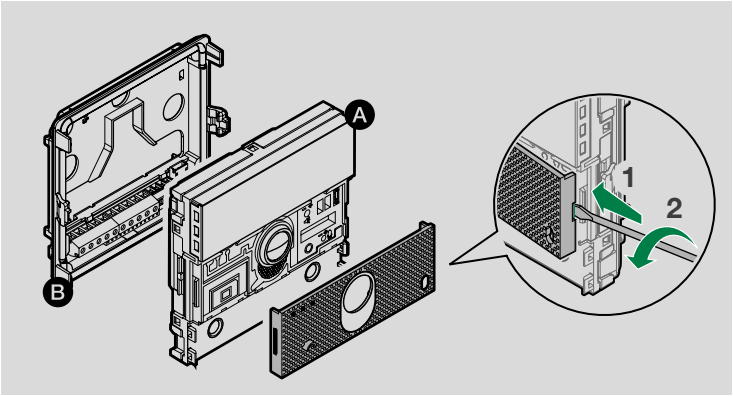
Available in flush-mounted (10 mm protrusion from the wall) or surface-mounted (just 35 mm protrusion from the wall) variants.

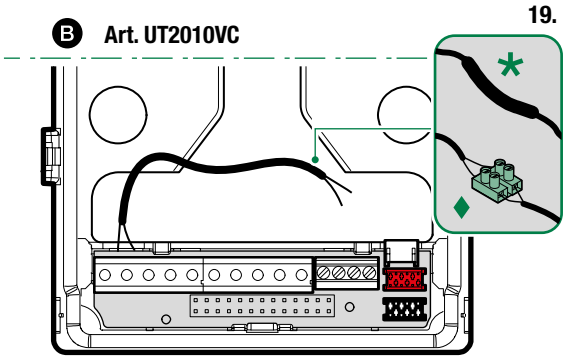
To make full use of the available functions, ALL modules making up the external entrance panel must be updated to the latest firmware version, which is available to download from the website pro.comelitgroup.com

Use ViP Manager software, available to download from the website pro.comelitgroup.com, to carry out the update









1. Indicator LEDs

- call sent (green) / system busy (red)
- lock-release enabled
- communication enabled

2. Loudspeakers

3. Colour video camera (with Art. UT2020 only)

4. Speaker volume control #

5. S1 Button programming selector

6. S2 Special programming selector

7. Micro USB input for programming via computer

8. Jumper for power supply management (remove in case of separate power supply)

9. Twilight sensor

10. Addressing and programming Dip Switches

11. Microphone volume control #

12. Programming confirmation button #

13. Digital microphone

14. Terminal block for connection:

RTE	programmable RTE (local lock-release input) or DO input (door open indication)
GND SE-	RTE and door lock input reference negative
SE+	electric door lock connection
NO NC COM	relay contacts
V- V+	power supply
LL	bus line connection

15. Ethernet terminal block, only for use in case of additional modules with LAN

16. Connector for additional modules with LAN

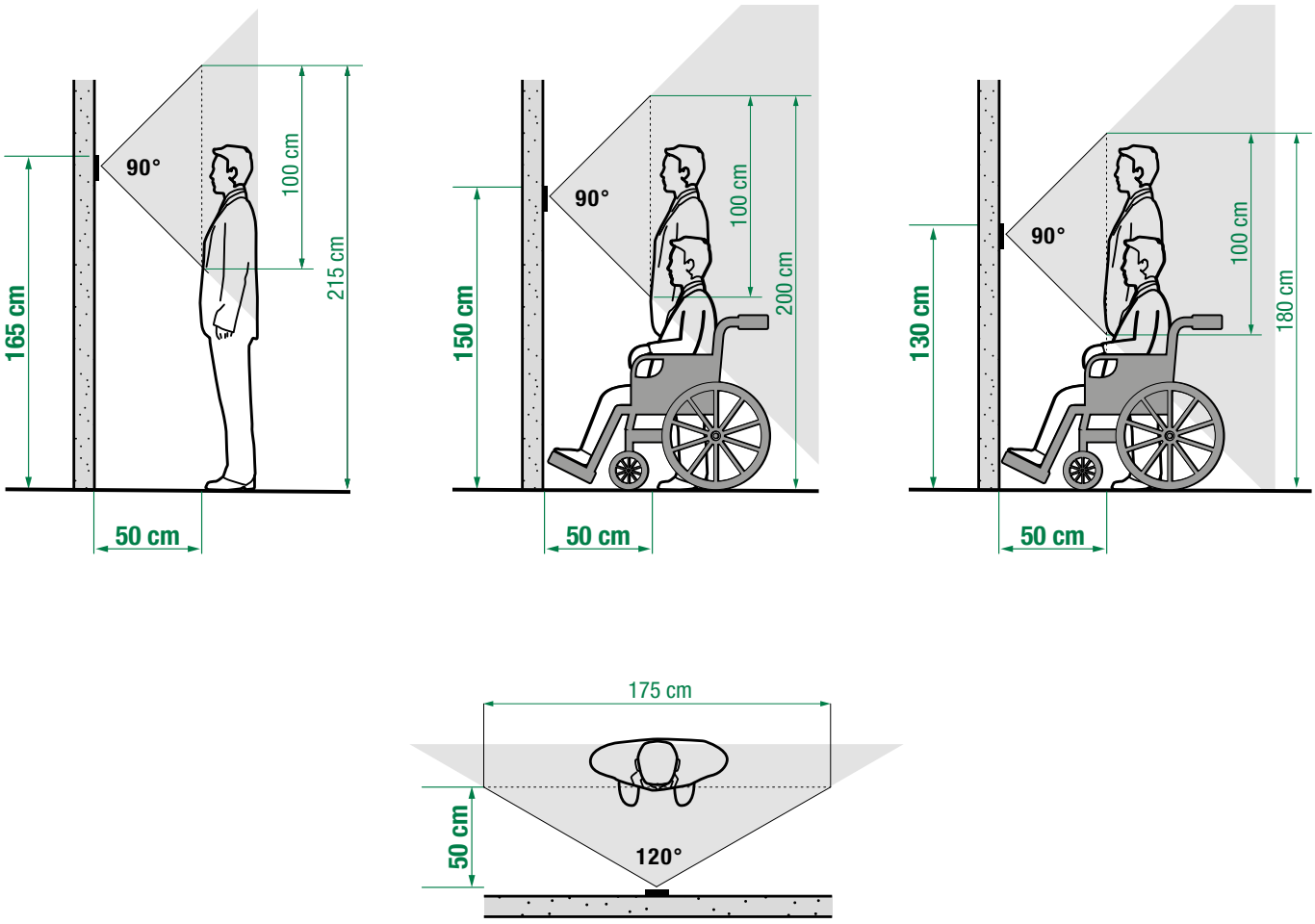
17. 18. Connector for additional module connection

19. Remote camera connection (with Art. UT2010VC only):

- ♦ in flush-mounted installations, use the terminal;
- ✱ in surface-mounted installations, solder the wires and use the heat-shrink sheath.

\# Use screwdriver supplied

Installation notes (Art. UT2020)



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.

Technical specifications

Art. UT2020

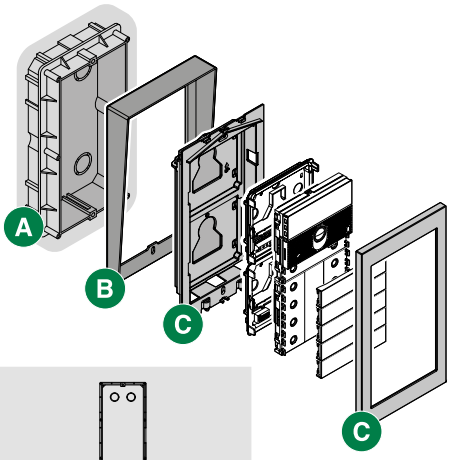
GENERAL DATA	
Type	Modular
Product height (mm)	90
Product width (mm)	100
Product depth (mm)	35
Product colour	Black RAL9005, Transparent, Aluminium
Product weight (g)	350
Material	Polycarbonate, Aluminium alloy
Flush mounting	Yes, with specific accessory
Surface mounting	Yes, with specific accessory
COMPATIBLE SYSTEMS	
Simplebus2 audio/video with power supply unit Art. 1210/1210A	Yes
AUDIO SPECIFICATIONS	
Microphone	MEMS digital audio sensor, omnidirectional
Loudspeaker	28 mm (Ø), 8 Ohm, 1W (2)
Technologies implemented	Full-Duplex
CAMERA FEATURES	
Camera	Colour
Sensor type	1/3" CMOS
Lens (mm)	1.79
Viewing angle (H x V - °)	120 x 90
Sensitivity (lux)	0.45
Resolution (H x V - pixel)	1288 x 968
ELECTRICAL SPECIFICATIONS	
Type of power supply	Power supply via video entry bus
Power supply voltage	33 VDC
Absorption in standby (W)	1.5
Maximum absorption (W)	6
HARDWARE CHARACTERISTICS	
Call type	Buttons
Type of buttons	Mechanical
Number of buttons (no.)	2
Backlighting colour	White, Off
Terminals	L L V+ V- COM NC NO SE+ SE-/GND RTE TX- TX+ RX- RX+
Number of inputs (no.)	1
Number of outputs (no.)	2
Output type	Relay (C-NO-NC, 4A@12-24 VAC/VDC, inrush current 10A)
Communication port	Micro-USB
Twilight sensor	Yes
SETTINGS	
Loudspeaker volume	Yes
Mic volume	Yes
Backlighting brightness	Yes
PROGRAMMING MODE	
Manual (by means of Dip Switches)	Yes
ViP Manager software	Yes
ENVIRONMENTAL AND CONFORMITY SPECIFICATIONS	
IP protection rating (when installed)	IP65
IK anti-vandal protection rating	IK08
Operating temperature (°C)	-25 to 55
Operating humidity (max RH - %)	25 to 95
Environmental class	IV
Conformity and Certifications	RoHS II - 2011/65/EU (EN 50581:2012), EMC 2014/30/EU (EN 61000-6-1:2007, EN 61000-6-3:2007+A1:2011)
MAIN FUNCTIONS	
Lock-release	Yes
Number of auxiliary relays (no.)	1
Input for local key button	Yes
Input for door open signal	Yes
System status visual indications	Yes
System status audio indications	Yes
System status voice synthesis	Yes

Art. UT2010VC

GENERAL DATA	
Type	Modular
Product height (mm)	90
Product width (mm)	100
Product depth (mm)	35
Product colour	Black RAL9005, Transparent, Aluminium
Product weight (g)	265
Material	Polycarbonate, Aluminium alloy
Flush mounting	Yes, with specific accessory
Surface mounting	Yes, with specific accessory
COMPATIBLE SYSTEMS	
Simplebus2 audio/video with power supply unit Art. 1210/1210A	Yes
AUDIO SPECIFICATIONS	
Microphone	MEMS digital audio sensor, omnidirectional
Loudspeaker	28 mm (Ø), 8 Ohm, 1W (2)
ELECTRICAL SPECIFICATIONS	
Type of power supply	Power supply via video entry bus
Power supply voltage	33 VDC
Absorption in standby (W)	1.5
Maximum absorption (W)	4
HARDWARE CHARACTERISTICS	
Call type	Buttons
Type of buttons	Mechanical
Number of buttons (no.)	2
Backlighting colour	White, Off
Terminals	L L V+ V- COM NC NO SE+ SE-/GND RTE TX- TX+ RX- RX+
Number of inputs (no.)	1
Number of outputs (no.)	2
Output type	Relay (C-NO-NC, 4A@12-24 VAC/VDC, inrush current 10A)
Communication port	Micro-USB
Twilight sensor	Yes
SETTINGS	
Loudspeaker volume	Yes
Mic volume	Yes
Backlighting brightness	Yes
PROGRAMMING MODE	
Manual (by means of Dip Switches)	Yes
ViP Manager software	Yes
ENVIRONMENTAL AND CONFORMITY SPECIFICATIONS	
IP protection rating (when installed)	IP65
IK anti-vandal protection rating	IK08
Operating temperature (°C)	-25 to 55
Operating humidity (max RH - %)	25 to 95
Environmental class	IV
Conformity and Certifications	RoHS II - 2011/65/EU (EN 50581:2012), EMC 2014/30/EU (EN 61000-6-1:2007, EN 61000-6-3:2007+A1:2011)
MAIN FUNCTIONS	
Lock-release	Yes
Number of auxiliary relays (no.)	1
Input for local key button	Yes
Input for door open signal	Yes
System status visual indications	Yes
System status audio indications	Yes
System status voice synthesis	Yes

Installation

The entrance panel is available in flush-mounted or surface-mounted variants:



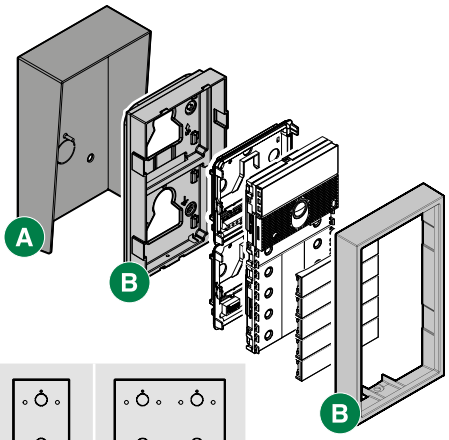
Flush-mounted installation composition table

A = Flush-mounted box

B = Rain shield #

C = Flush-mounted module holder with finishing frame

Flush-mounted box	3110/1 3110/1A	3110/2 3110/2A	3110/3 3110/3A	3110/4 3110/4A
Rain shield	UT9181	UT9182	UT9184H	UT9183
				UT9186
				UT9189
				UT9184
				UT9188
Module holder/ finishing frame	UT9161	UT9162	UT9163	UT9164



Surface-mounted installation composition table

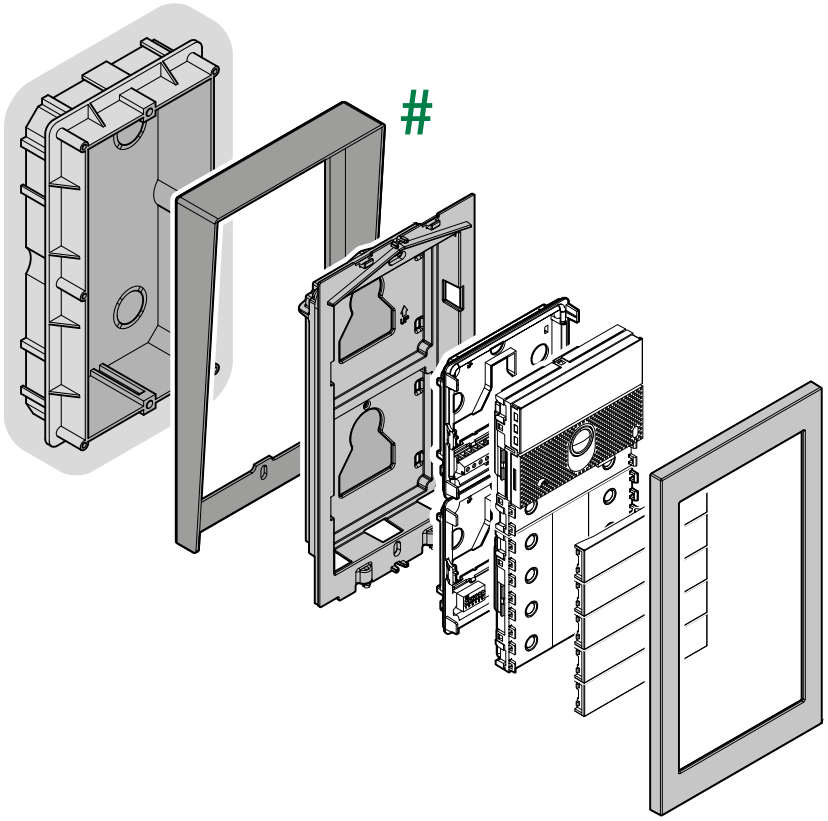
A = Rain shield #

B = Surface-mounted housing with frame

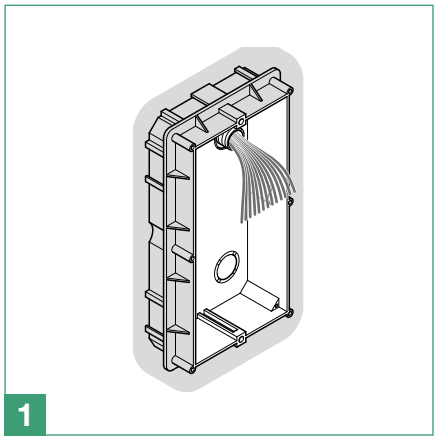
Rain shield	UT9191	UT9192	UT9193	UT9194
		UT9194H	UT9196	UT9198
			UT9199	
Housing/frame	UT9171	UT9172	UT9173	UT9174
		UT9174H	UT9176	UT9178
			UT9179	

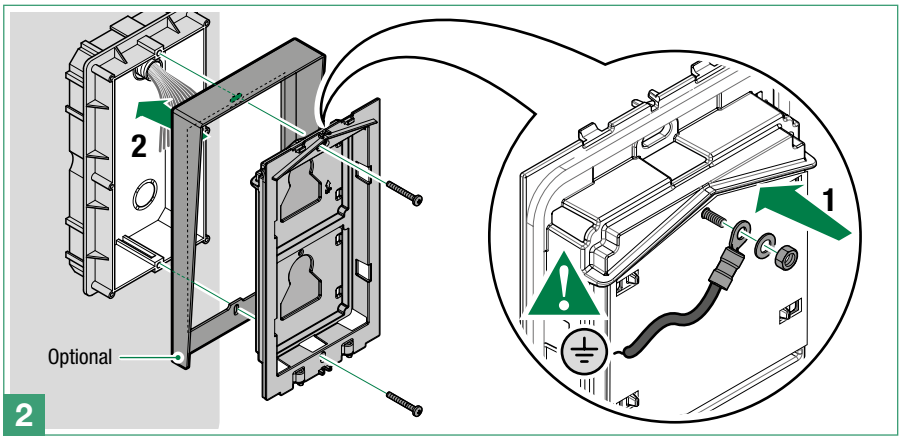
Optional

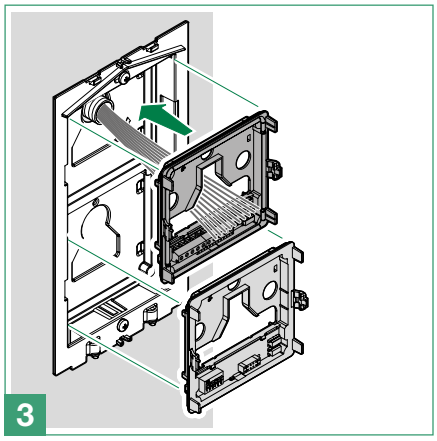
Flush-mounted installation

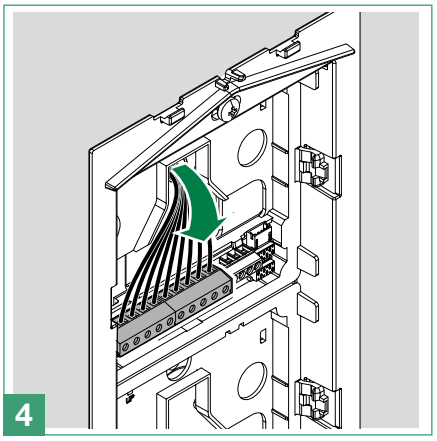


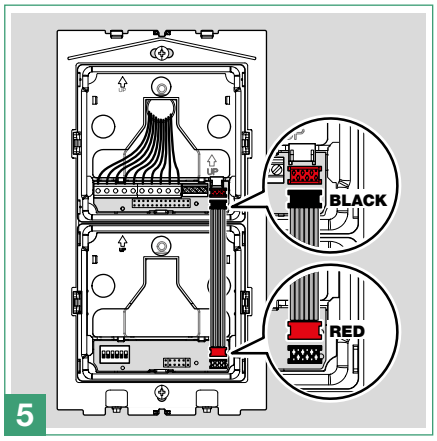
Optional

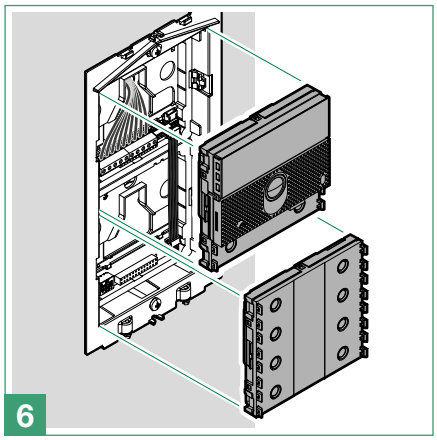


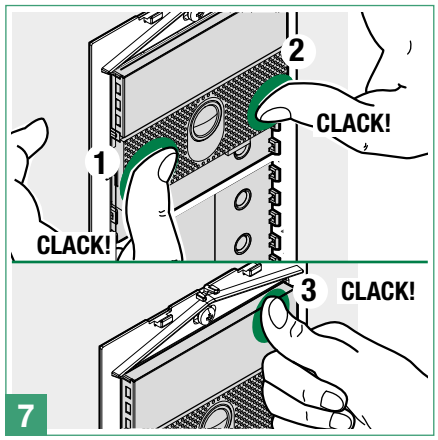


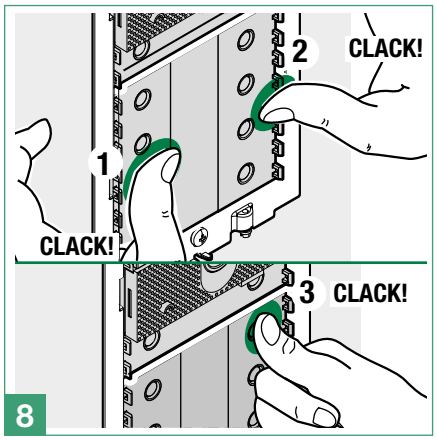


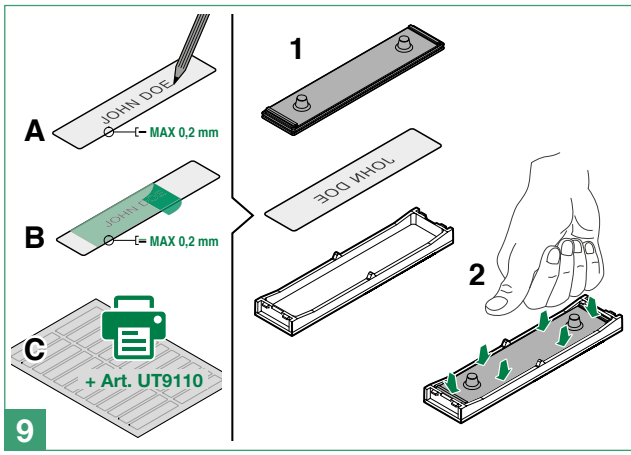










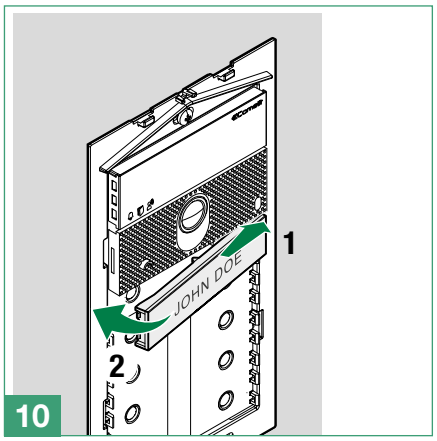


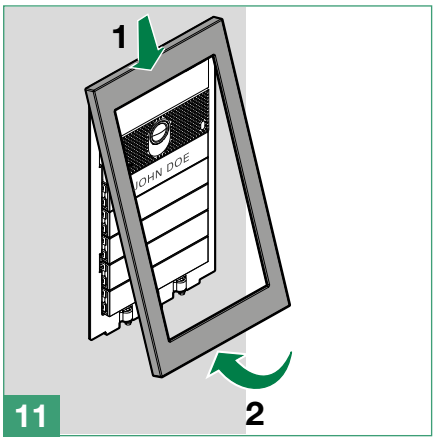
The button has a nameplate which can be written on **(A)**; alternatively, an adhesive label can be applied **(B)**.

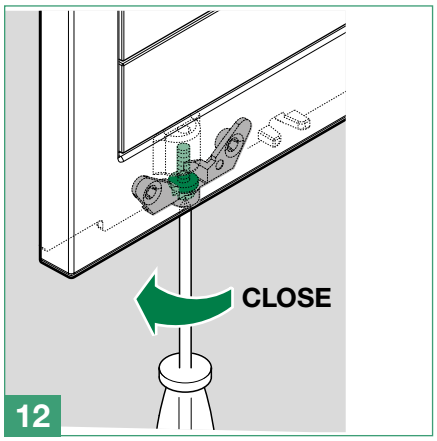
The total thickness of the nameplate + adhesive label must not exceed 0.2 mm.

You can visit the website **pro.comelitgroup.com** to download the PDF to print the entrance panel name cards, using the pre-cut sheets **(C)** available in our catalogue (Art. UT9110 ✱).

Custom engraved **Full Metal Ultra** nameplates are available on request. Find out how:
https://pro.comelitgroup.com/customised-nameplates-for-ultra-entrance-panel





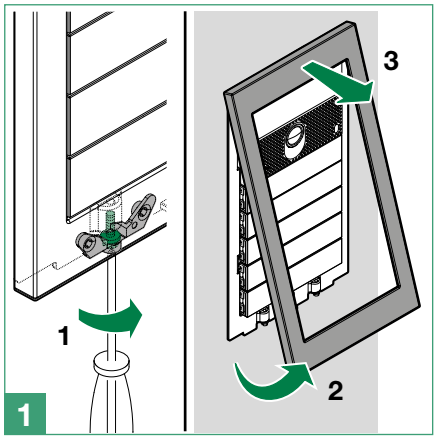


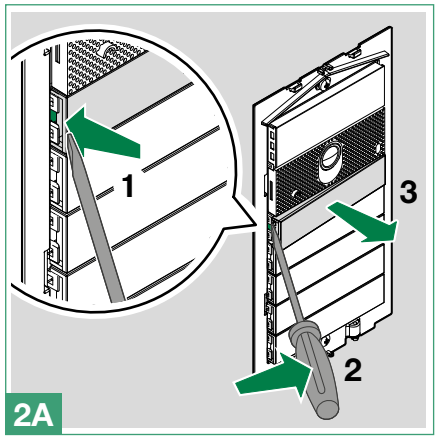
✱ Kit Art. **UT9110** contains 5 sheets of pre-cut labels for nameplates and 1 sheet for the information module.

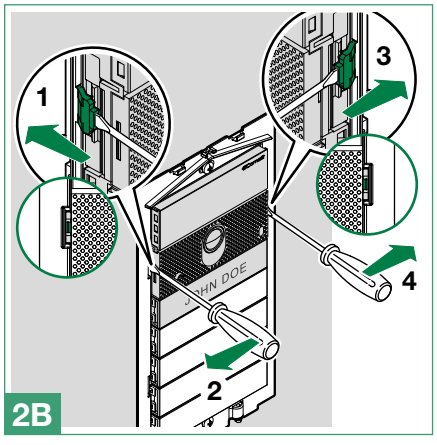
The sheets are made using Yupo paper which offers the ultimate transparency and resistance to atmospheric agents over time.

To print the labels, use the editable .pdf file which is available to download free of charge from the website **pro.comelitgroup.com**

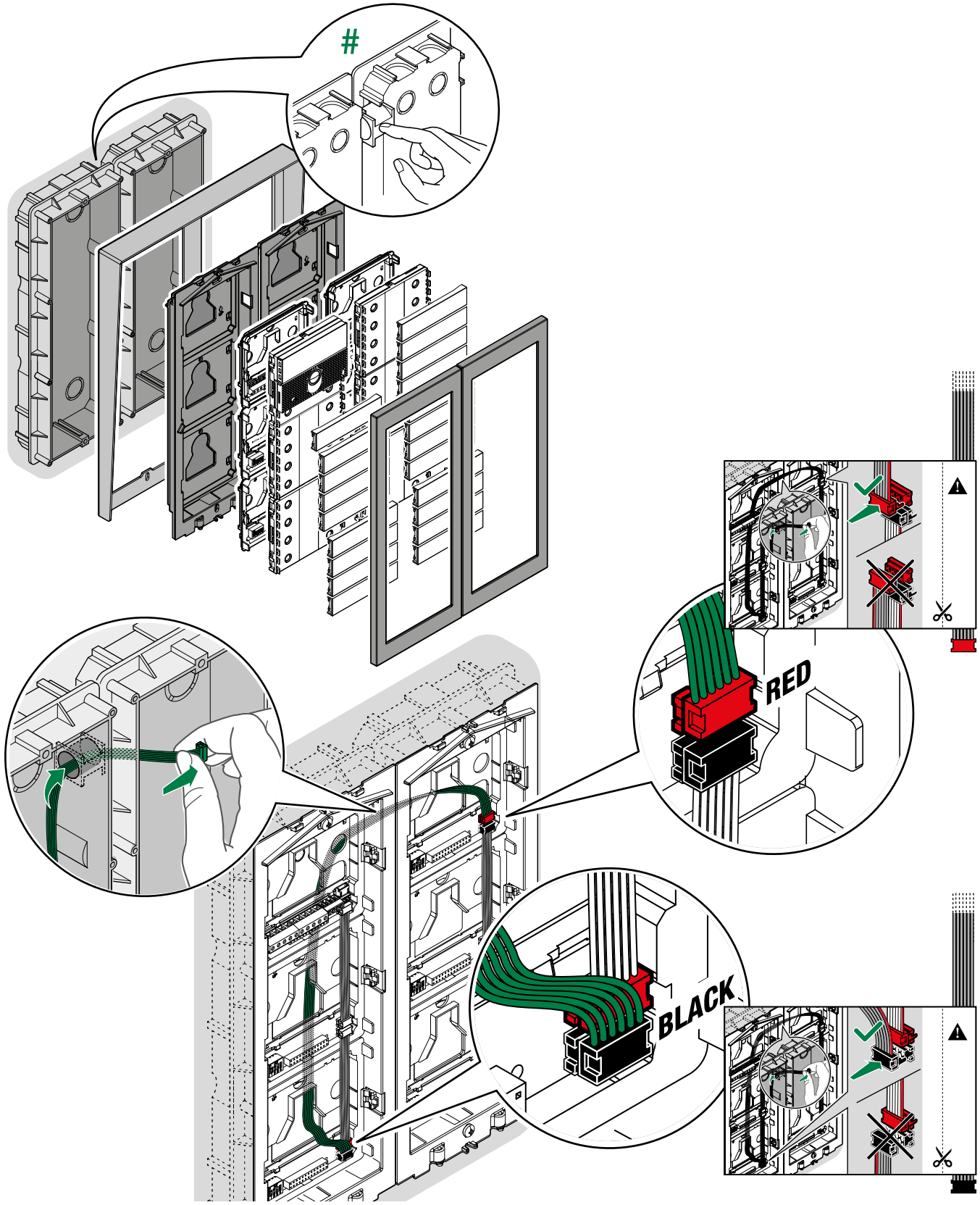
Removing nameplates (2A) / module (2B)





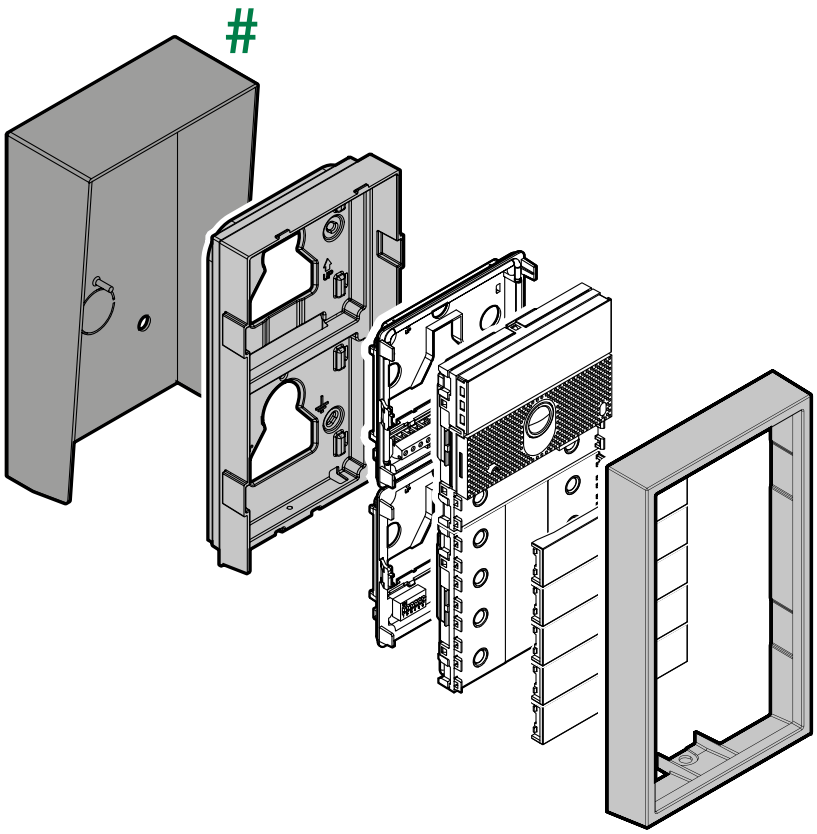


Installation with side-by-side boxes

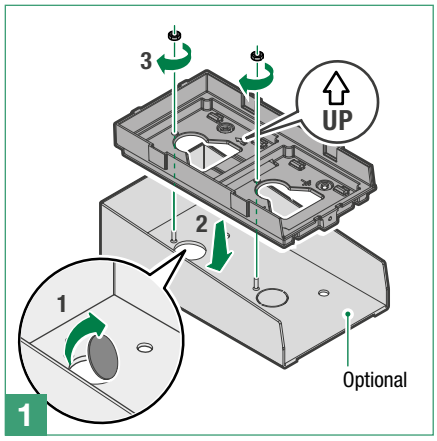


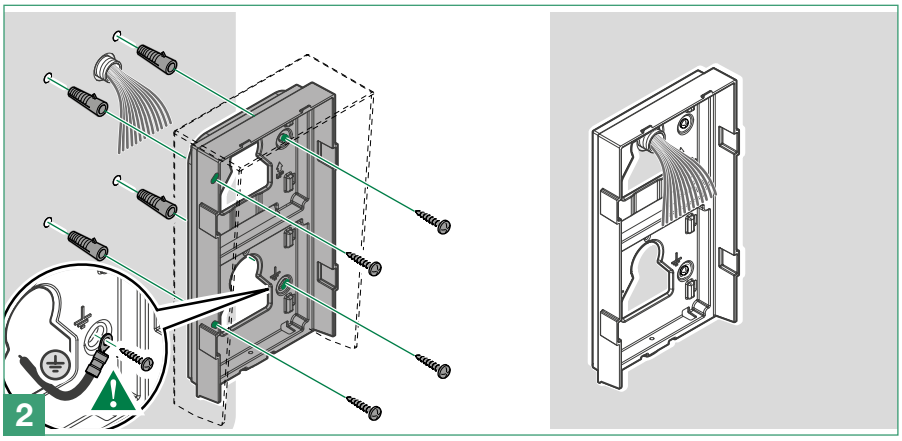
Before installing the boxes in the wall, fit the spacers.

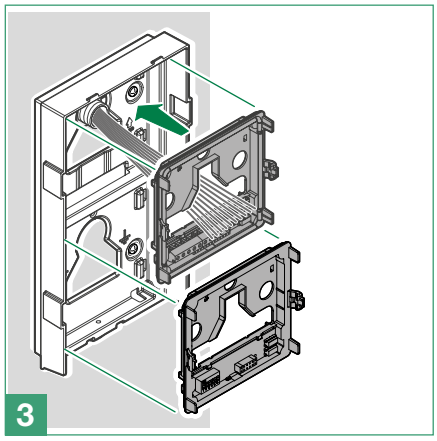
Wall-mounted installation

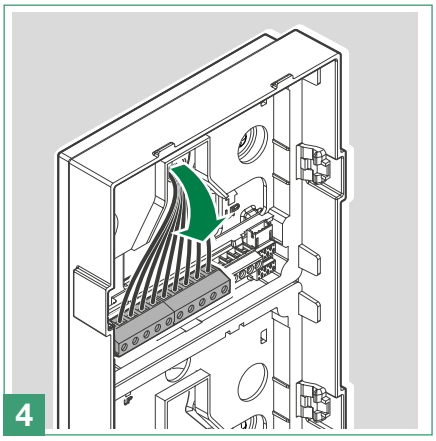


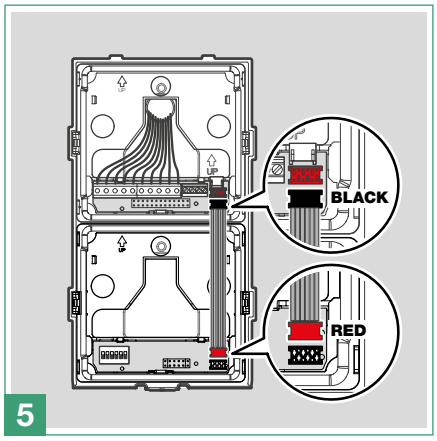
Optional

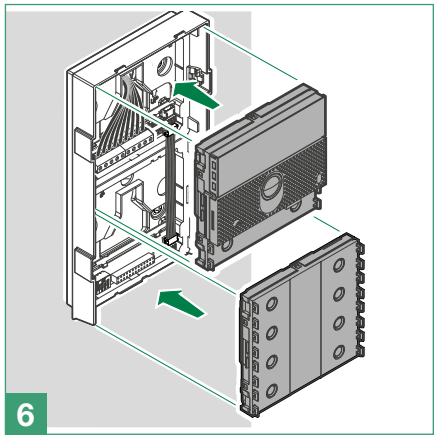


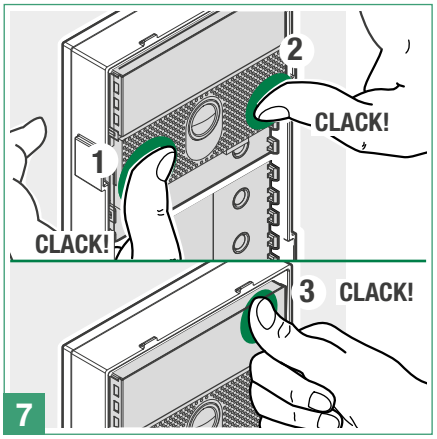


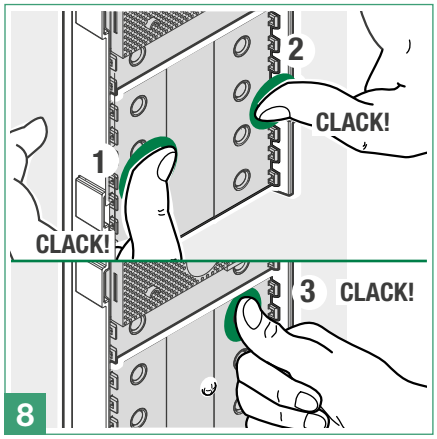


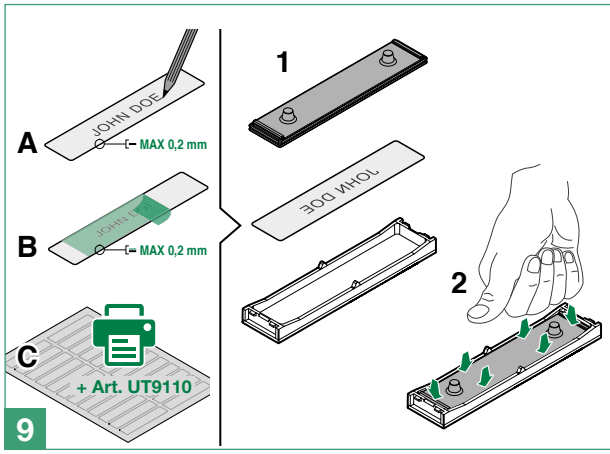










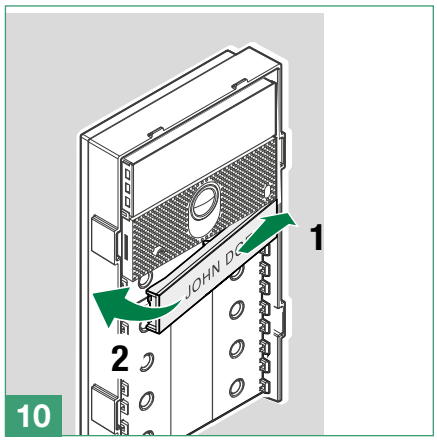


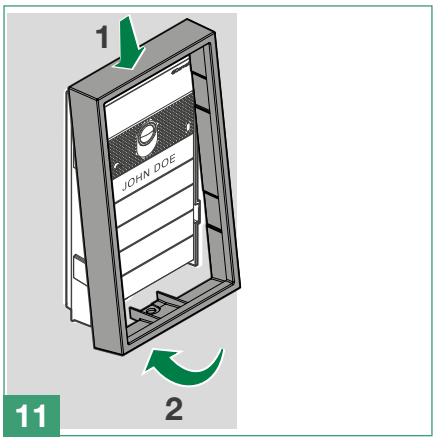
The button has a nameplate which can be written on **(A)**; alternatively, an adhesive label can be applied **(B)**.

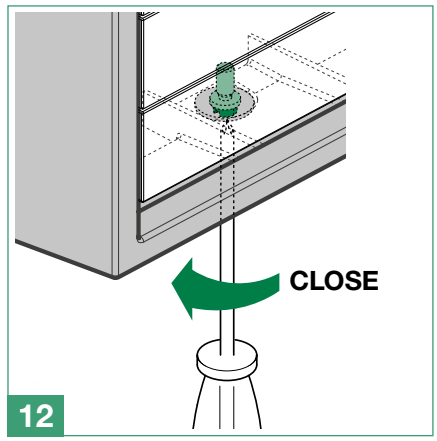
The total thickness of the nameplate + adhesive label must not exceed 0.2 mm.

You can visit the website **pro.comelitgroup.com** to download the PDF to print the entrance panel name cards, using the pre-cut sheets **(C)** available in our catalogue (Art. UT9110 *).

Custom engraved **Full Metal Ultra** nameplates are available on request. Find out how:
https://pro.comelitgroup.com/customised-nameplates-for-ultra-entrance-panel





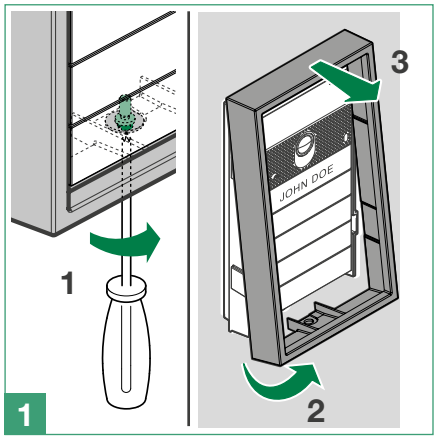


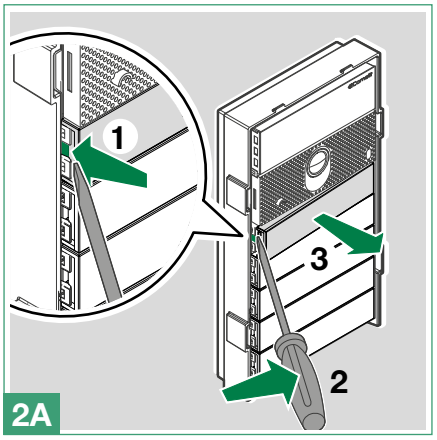
* Kit Art. **UT9110** contains 5 sheets of pre-cut labels for nameplates and 1 sheet for the information module.

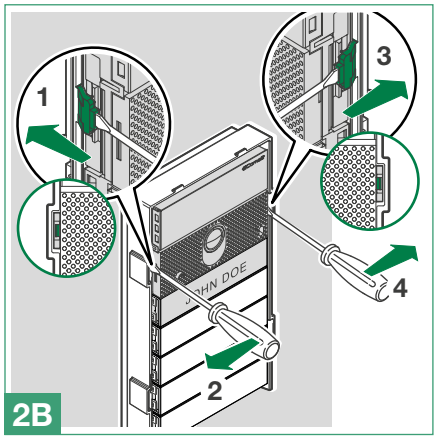
The sheets are made using Yupo paper which offers the ultimate transparency and resistance to atmospheric agents over time.

To print the labels, use the editable .pdf file which is available to download free of charge from the website **pro.comelitgroup.com**

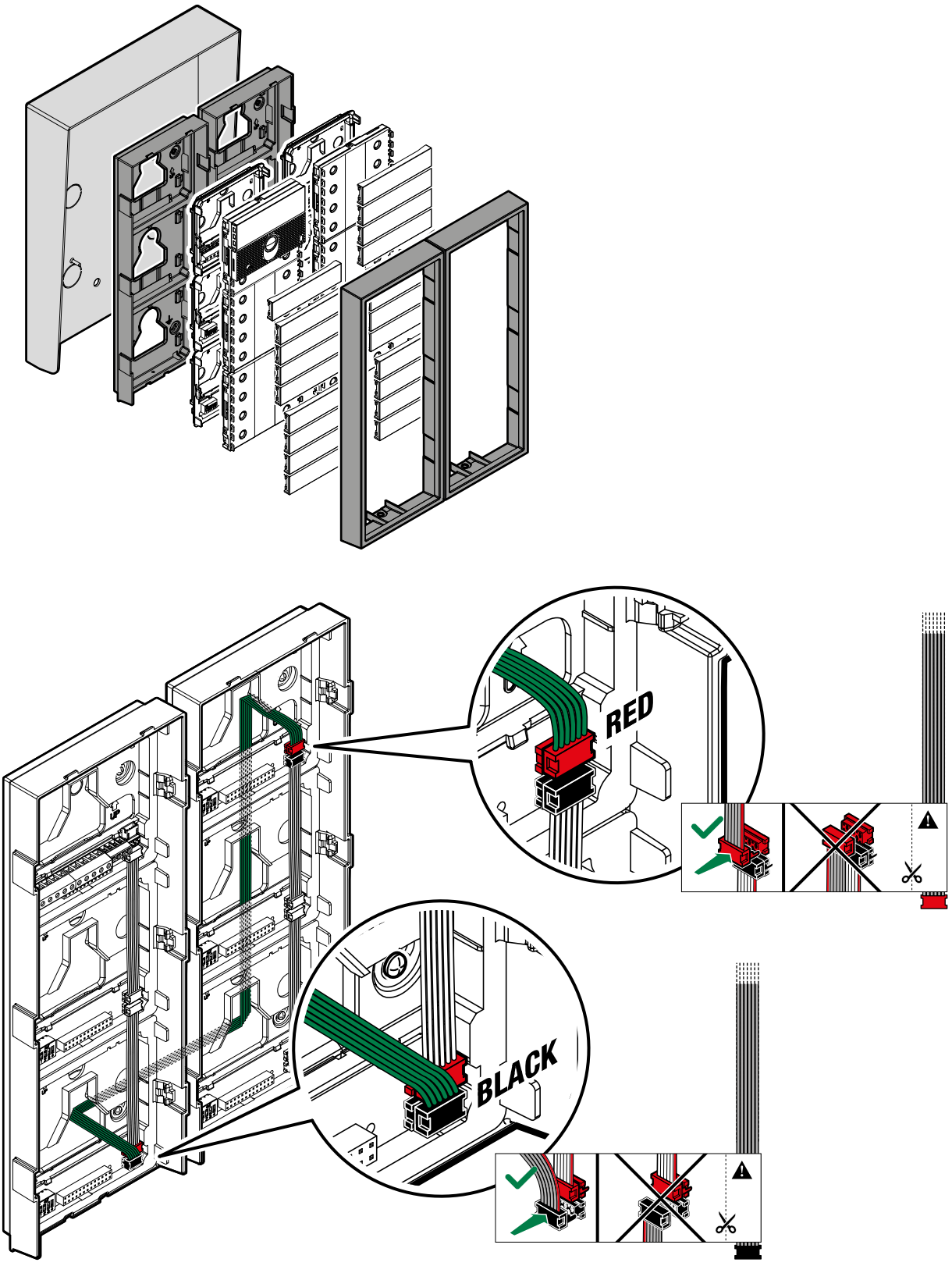
Removing nameplates (2A) / module (2B)





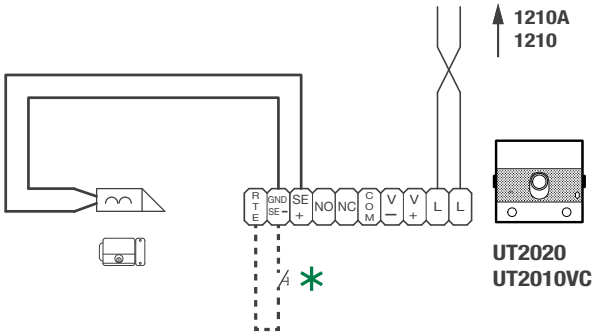


Installation with side-by-side boxes



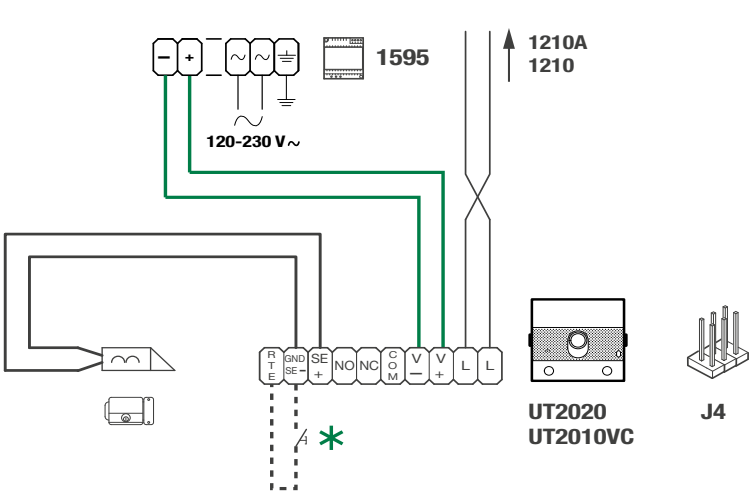
Connections

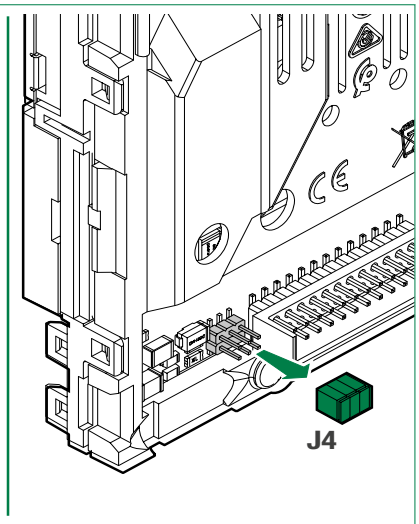
Connections for Art. UT2020, UT2010VC



✳ **Max 20 m.** Local door-opener button.

UT2020, UT2010VC connections with separate power supply

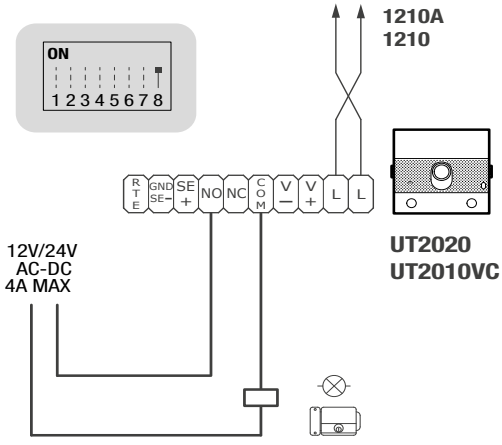




✳ **Max 20 m.** Local door-opener button.

Variants

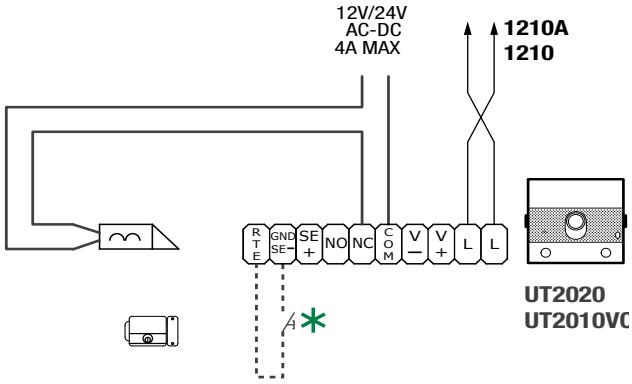
Variant for using the outdoor entrance panel relay



"C.NC.NO relay activation: 2 sec"

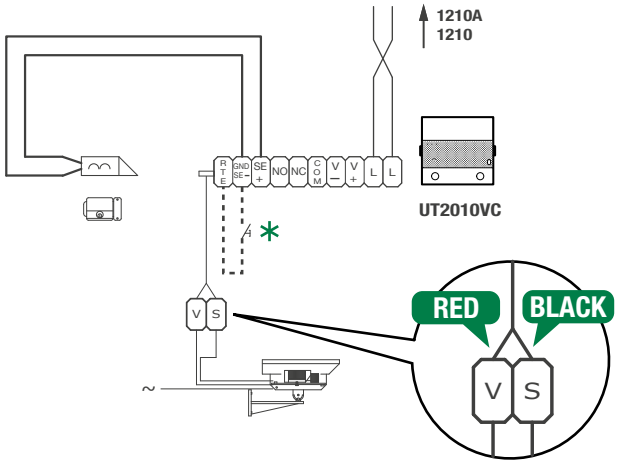
- Set DIP switch 8 to ON permanently (as shown in the figure)

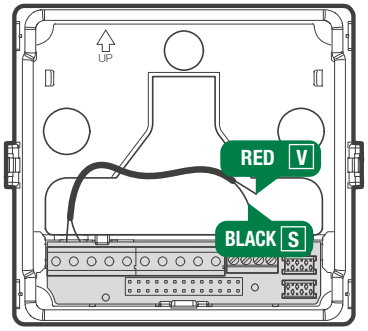
Variant for using a safety door lock



✳ **Max 20 m.** Local door-opener button.

Remote camera connection (Art. UT2010VC only)





* **Max 20 m.** Local door-opener button.

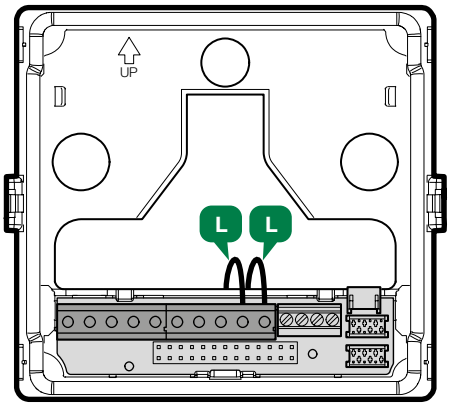
Module connection

On systems with Art. UT2020/UT2010VC and power supply unit Art. 1210/1210A, the maximum current available for the outdoor entrance panel modules is 100 mA.

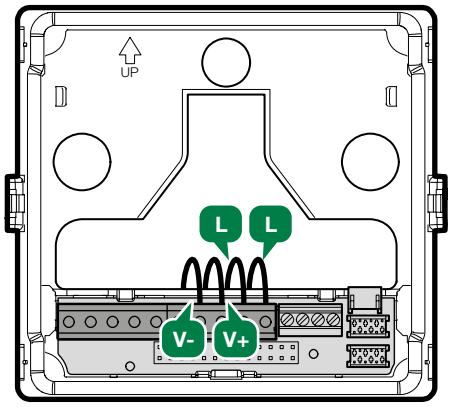
Calculate the total power consumption of the modules in your system configuration using the Consumption table.

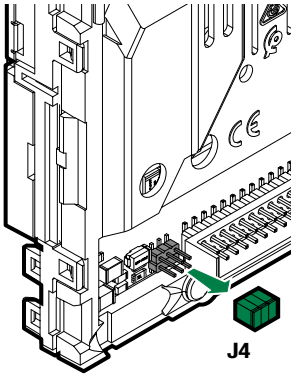
If the total power consumption exceeds 100 mA, connect a supplementary power supply unit (Art. 1595) to the V+ and V- contacts of the outdoor entrance panel, as shown in the figure below (see "UT2020, UT2010VC connections with power supply"). In any case, the total absorption must be lower than 500 mA.

A **powered by Art. 1210/1210A**



B **powered by additional power supply unit Art. 1595**

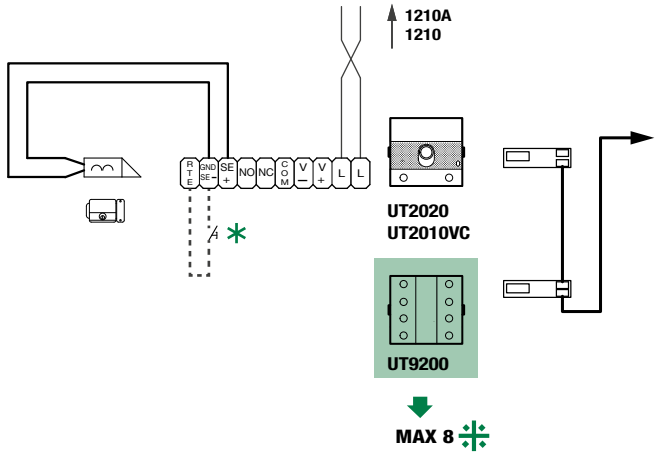


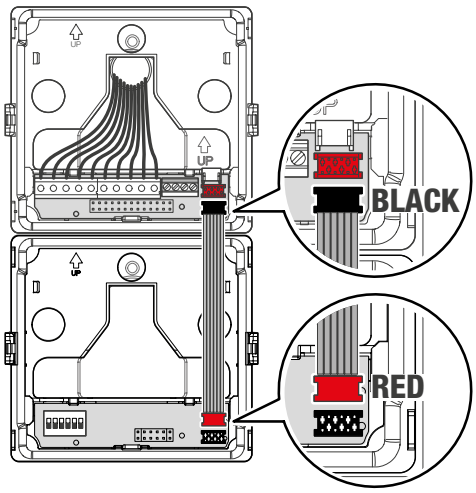


Outdoor entrance panel module consumption table

Code		Consumption (mA)	
UT9200	Call button modules	12.5	
UT9240	Information module	12.5	
UT9240M	Metal information module	12.5	
UT9279M	Number keypad module	40	With SE output active
		75	With 1 bistable relay active
		100	With 2 bistable relays active at the same time
UT9310M	Magnetic induction module	245	Always needs to be powered by additional power supply unit Art. 1595
UT9270	Touchscreen module	100	In systems with an outdoor entrance panel consisting of 1 audio or audio/video module, Touch module art. UT9270 and up to 80 users, it is not necessary to provide any additional power supply. For all other combinations, provide an additional power supply unit art. 1595
UT9260M	Digital directory module	60	

Connection of button modules Art. UT9200



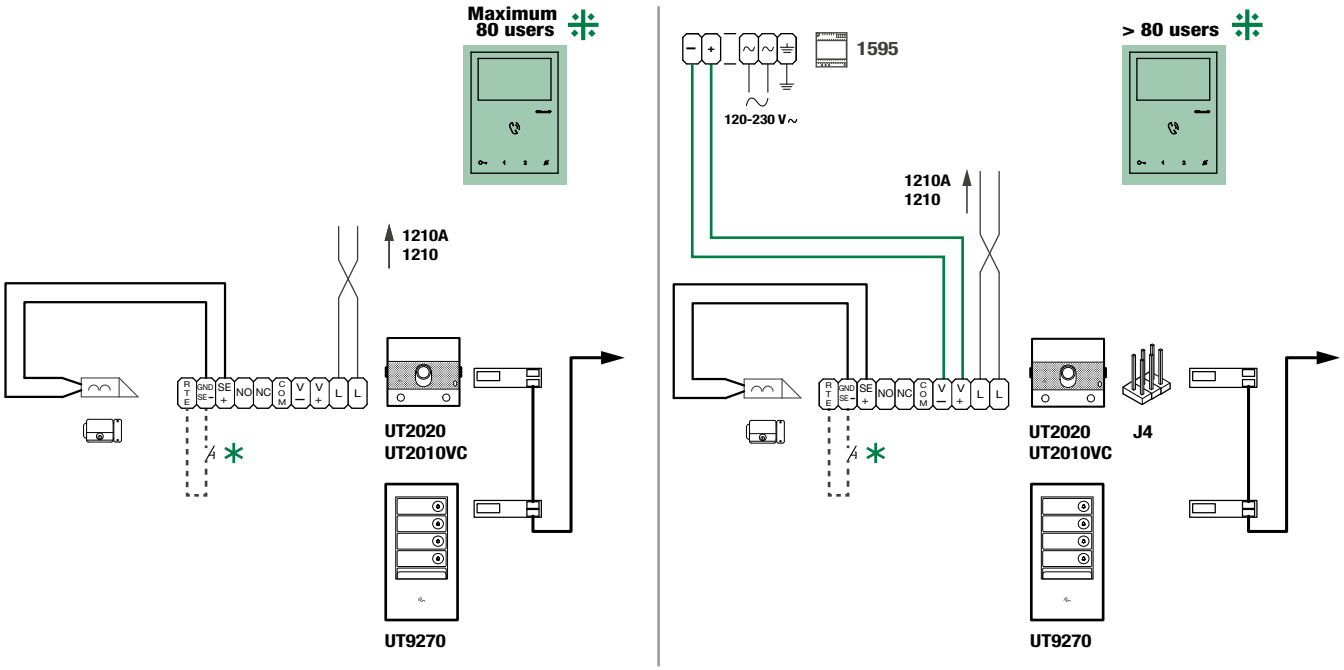


✳ **Max 20 m.** Local door-opener button.

⁜ **Max 8 modules (Max 30 modules with additional power supply).**

Connection of Touchscreen module Art. UT9270

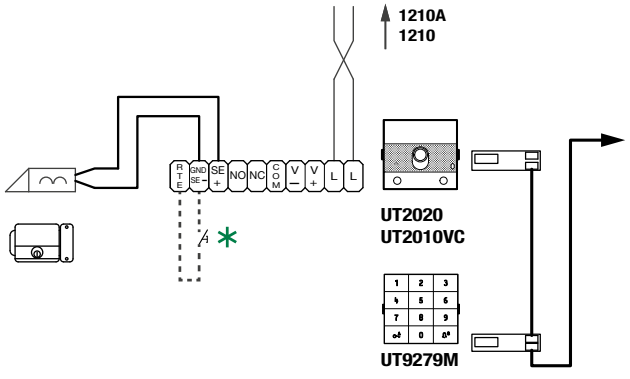
Variant with separate power supply



✳ **Max 20 m.** Local door-opener button.

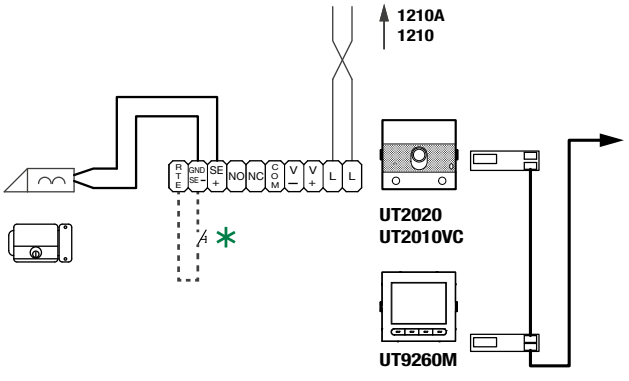
⁜ **For systems with over 80 users, provide an additional power supply**

Connection of number keypad module Art. UT9279M



✳ **Max 20 m.** Local door-opener button.

Connection of digital directory module Art. UT9260M



✳ **Max 20 m.** Local door-opener button.

Programming

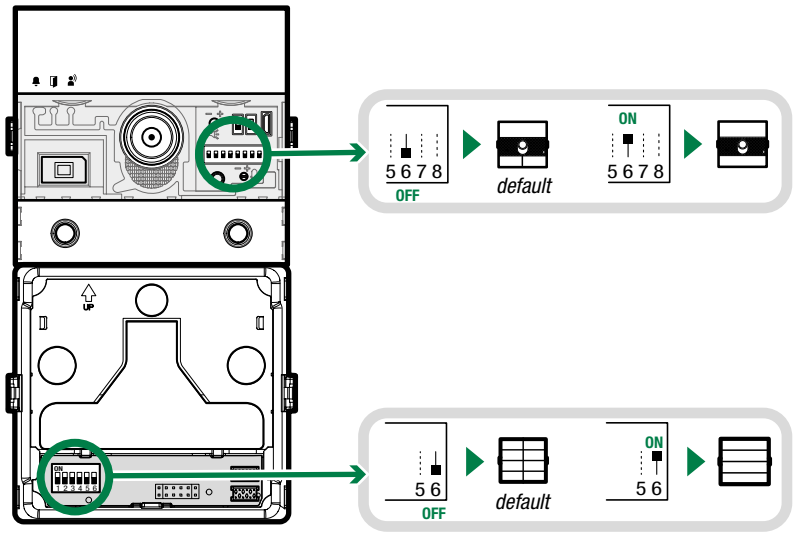
For correct programming, follow the instructions below in order

I. Configure button type

II. Address button modules

III. Program call addresses

I Configuring the button type to maintain during normal operation (single/dual)

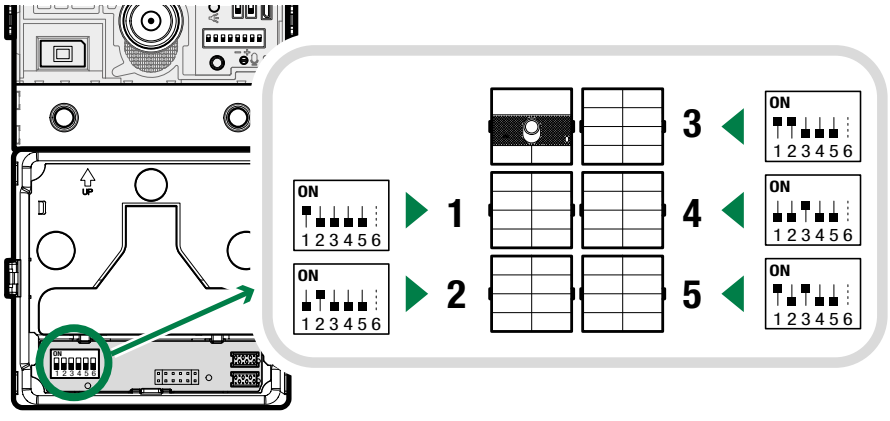


DIP 6: configuring button type:
Single button (**DIP6 ON**).
Dual button (**DIP6 OFF, default**).

DIP 6: configuring button type:
Single button (**DIP6 ON**).
Dual button (**DIP6 OFF, default**).

II Address button modules

DIP 1-5: addressing call button module **(see TAB. A)**
Addressing call button modules means that, in the event they are replaced, it is not necessary to reprogram the button addresses. All you need to do is assign the same address as before to the new module.



TAB. A

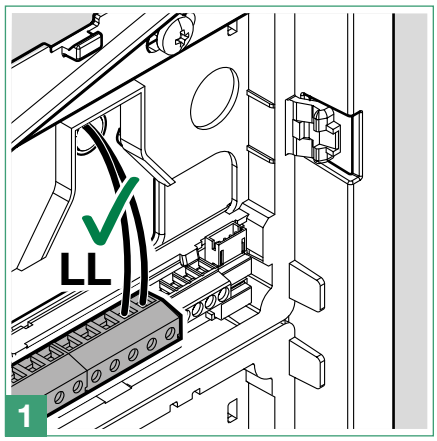
code	DIP ON				
1	1	**12**	3.4	**23**	1,2,3,5
2	2	**13**	1,3,4	**24**	4.5
3	1.2	**14**	2,3,4	**25**	1,4,5
4	3	**15**	1,2,3,4	**26**	2,4,5
5	1.3	**16**	5	**27**	1,2,4,5
6	2.3	**17**	1.5	**28**	3,4,5
7	1,2,3	**18**	2.5	**29**	1,3,4,5
8	4	**19**	1,2,5	**30**	2,3,4,5
9	1.4	**20**	3.5	**31**	1,2,3,4,5
10	2.4	**21**	1,3,5		
11	1,2,4	**22**	2,3,5		

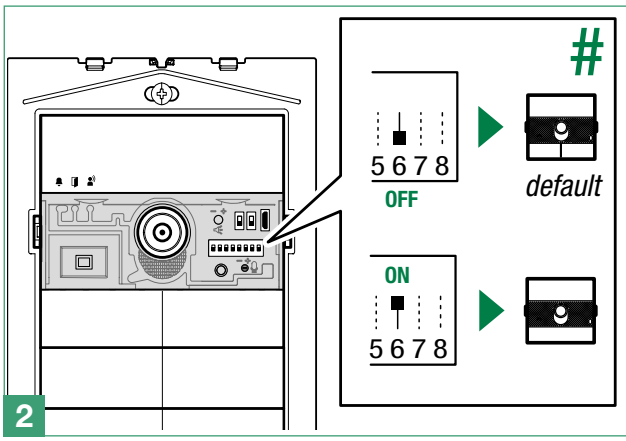
III Program call addresses

There are 2 programming methods:

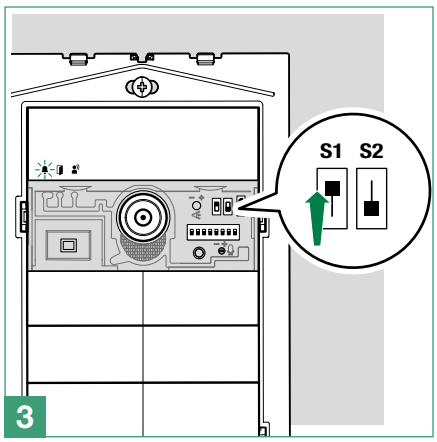
- **Smart programming of consecutive addresses:** allows quick programming of buttons with consecutive addresses (e.g.: 1, 2, 3, 4)
- **Programming of specific addresses:** allows programming of specific addresses (e.g.: 25, 37, 70, 58)

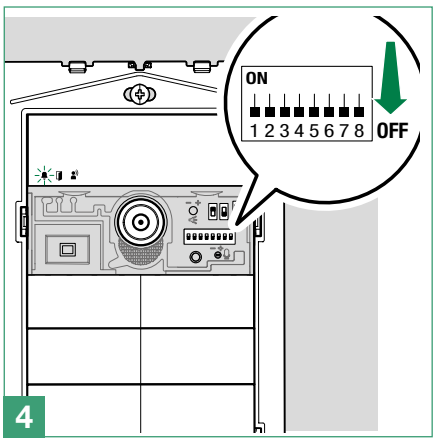
Smart programming of consecutive addresses



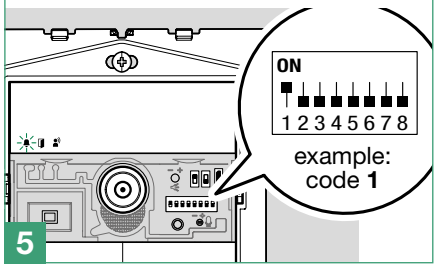


#
DIP 6: configuring button type:
Single button (**DIP6 ON**).
Dual button (**DIP6 OFF, default**).

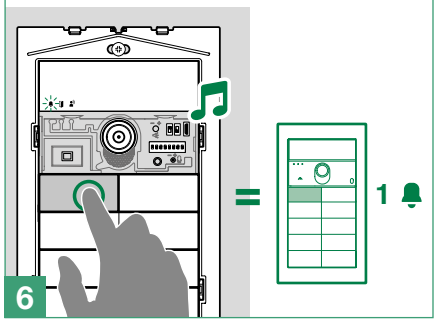




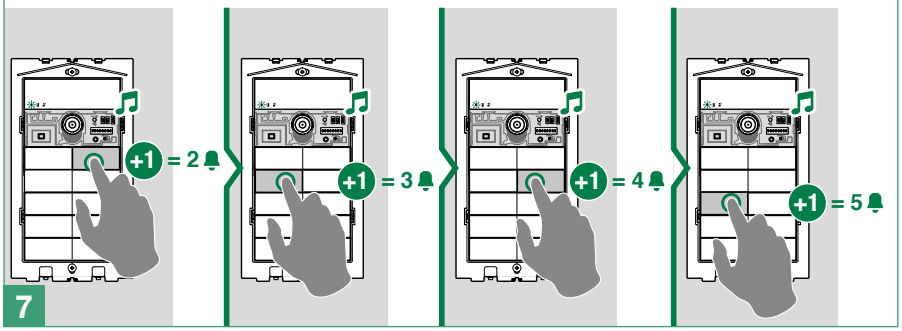
Set the address of the apartment you wish to call (for example: **1**) using the DIP-switches
(see **"Addressing table"**)

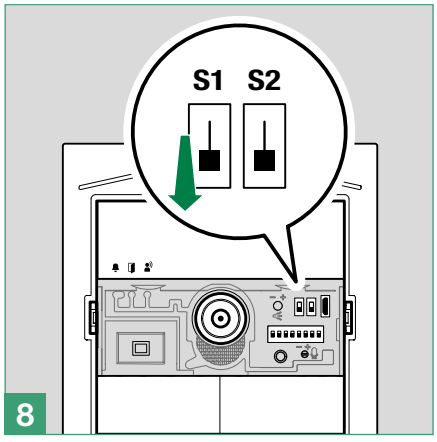


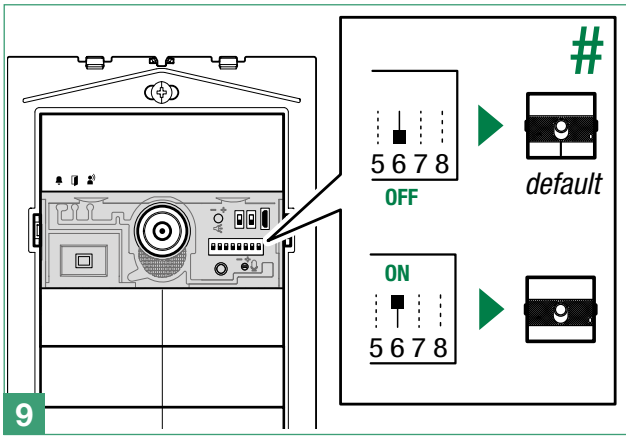
Press the button you want to associate with the call address set using the DIP-switches



Press the following buttons to assign consecutive addresses.

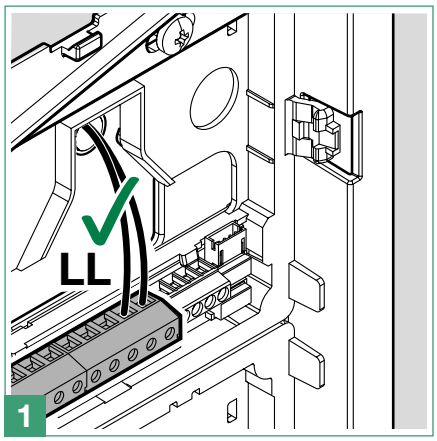


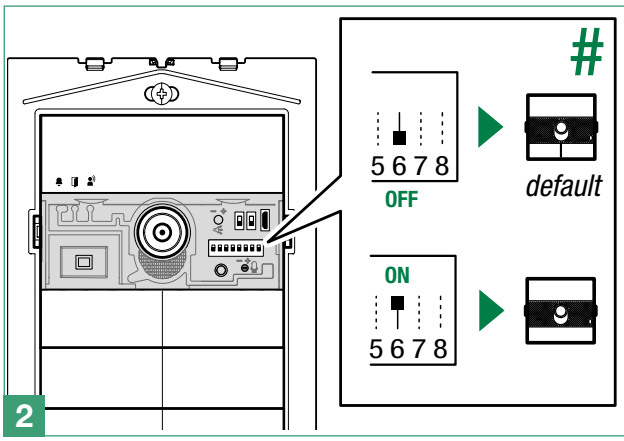




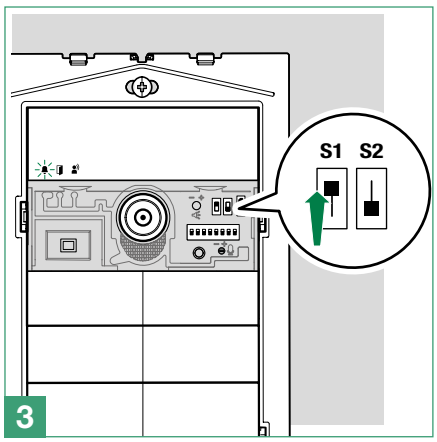
#
DIP 6: configuring button type:
Single button (**DIP6 ON**).
Dual button (**DIP6 OFF, default**).

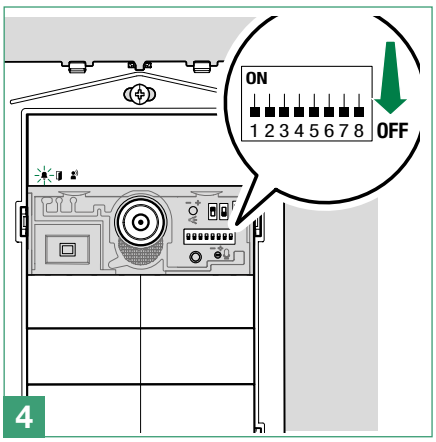
Programming of specific addresses



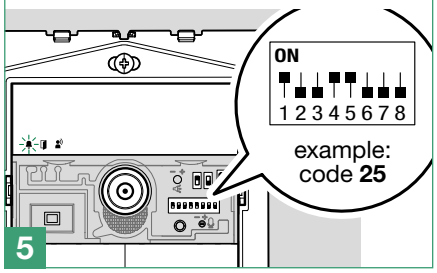


\#
DIP 6: configuring button type:
Single button (**DIP6 ON**).
Dual button (**DIP6 OFF, default**).

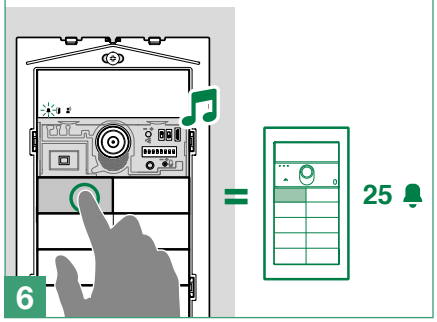




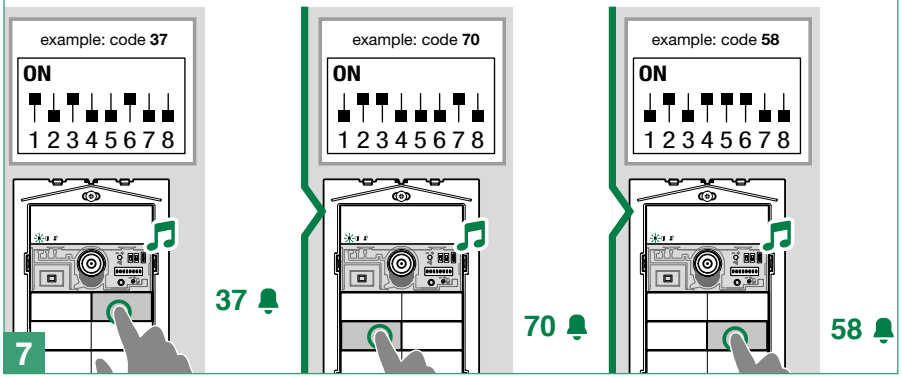
Set the address of the apartment you wish to call (for example: **25**) using the DIP-switches
(see **"Addressing table"**)

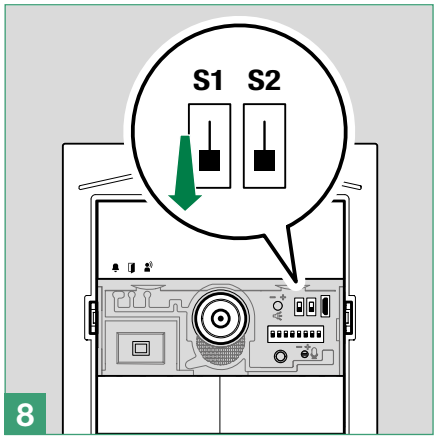


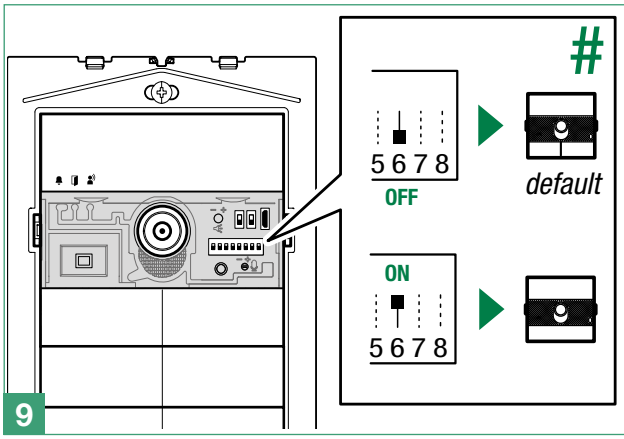
Press the button you want to associate with the call address set using the DIP-switches



Repeat steps 4 and 5 to assign a specific address to each button

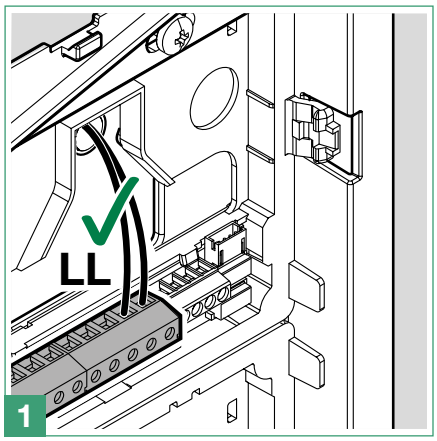




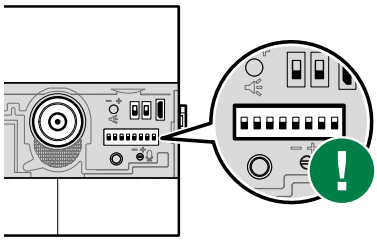


\#
DIP 6: configuring button type:
Single button (**DIP6 ON**).
Dual button (**DIP6 OFF, default**).

Special programming via DIP Switch

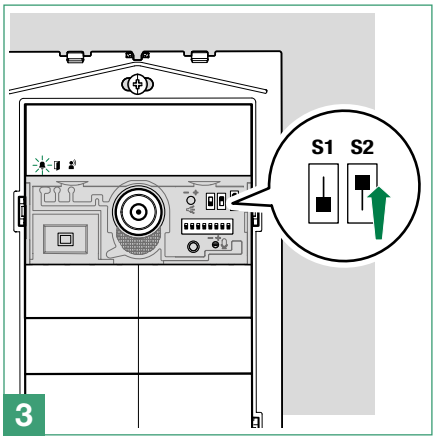


1

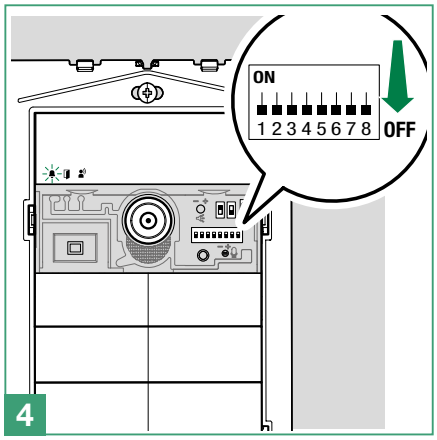


Take note of the DIP-switch settings

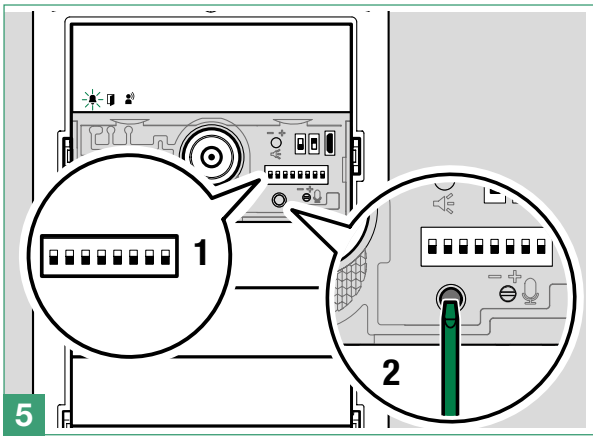
2



3

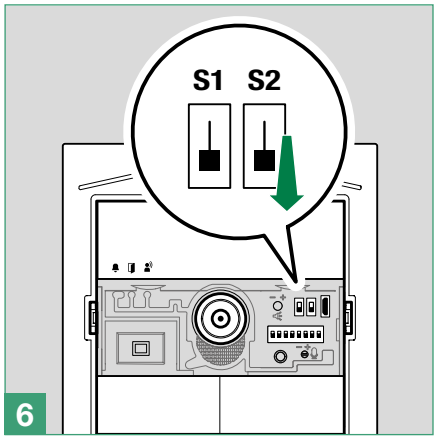


4

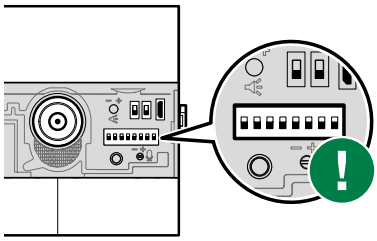


5

1. Set the dip switches in accordance with the function you wish to program (see **“Special programming table”**).
2. Press the confirm button.



6



Reset the configuration of the DIP-switches

7

Special programming table

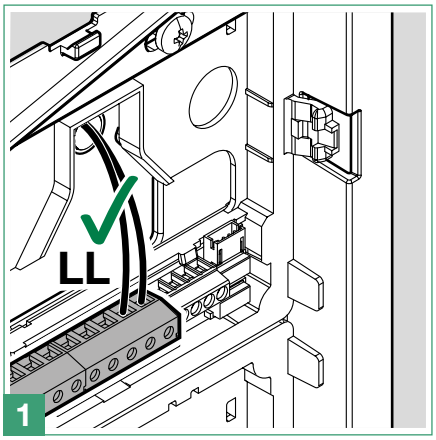
CODE	DIP SWITCHES ON	FUNCTIONS
		Audio-visual messages
195	1,2,7,8	Hebrew
196	3,7,8	Polish
197	1,3,7,8	Catalan
198	2,3,7,8	Galician
199	1,2,3,7,8	Basque
206	2,3,4,7,8	Danish
207	1,2,3,4,7.8	Norwegian
211	1,2,5,7,8	Swedish
215	1,2,3,5,7.8	Italian
216	4,5,7,8	French
217	1,4,5,7,8	Spanish
218	2,4,5,7,8	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)**
210	2,5,7,8	Enables visual messages and disables voice messages **(default)**
214	2,3,5,7,8	OFF: disables voice and visual messages
		Audio/video module relay activation **N.B. Art. 1256 in generic actuator mode must not be present in the system.**
229	1,3,6,7,8	C.NC.NO relay activation: 2 sec **(default)**
230	2,3,6,7,8	C.NC.NO relay activation: 4 sec
231	1,2,3,6,7.8	C.NC.NO relay activation: 8 sec
		Door lock
184	4,5,6,8	Door lock time: 100 msec
185	1,4,5,6,8	Door lock time: 200 msec
186	2,4,5,6,8	Door lock time: 500 msec
245	1,3,5,6,7.8	Door lock time: 2 sec + disabling 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
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
		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
145	1,5,8	RTE input set as local lock-release input **(default)**
146	2,5,8	RTE input set as door open indication
147	1,2,5,8	Self activation time: 60 sec **(default)**
149	1,3,5,8	Self activation time: 30 sec
237	1,3,4,6,7.8	Self activation: enabled **(default)**
238	2,3,4,6,7.8	Self activation: disabled
154	2,4,5,8	System busy signalling time: 10 sec **(default)**

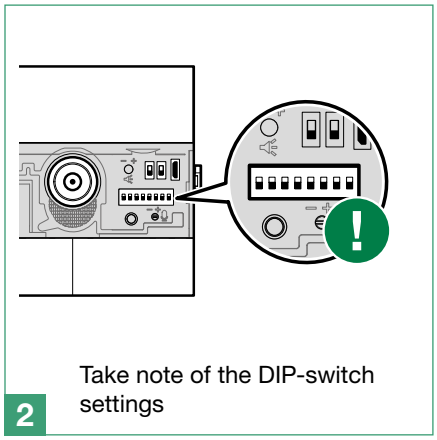
155	1,2,4,5,8	System busy signalling time: 300 sec
239	1,2,3,4,6,7,8	Confirmation tone on user call = enabled **(default)**
240	5,6,7,8	Confirmation tone on user call = disabled
243	1,2,5,6,7.8	Reset wait time (after hang-up or after lock-release): 10 sec **(default)**
244	3,5,6,7,8	Reset wait time (after hang-up or after lock-release): 1 sec
208	5,7,8	Enables “Reset wait time" on lock-release command **(default)**
209	1,5,7,8	Disables “awaiting reset time" on lock-release command (awaiting response time or talk time will be activated)
249	1,4,5,6,7.8	Send call: single **(default)**
250	2,4,5,6,7.8	Call transmission: triple
183	1,2,3,5,6,8	Send audio call
		Button tones
142	2,3,4,8	Button press tone ON **(default)**
143	1,2,3,4,8	Button press tone OFF
		Button backlighting management
158	2,3,4,5,8	OFF mode: Button LEDs always off
159	1,2,3,4,5.8	ON mode: Button LEDs always on
160	6.8	AUTO mode: Button LEDs on at night and off during the day, thanks to the twilight sensor **(default)**
161	1,6,8	Enables brightness control for the button LEDs. ▶ Press a button repeatedly for each module to change the individual brightness of the buttons (see: **“Adjusting the brightness of the button LEDs and the camera light”**)
162	2,6,8	Light-me OFF **(default)**
163	1,2,6,8	Light-me ON: the button LEDs for the audio/video module are always on and when the button is pressed all button LEDs light up (see: **“Light-me function behaviour on the basis of the LED backlighting mode”**)
150	2,3,5,8	Light-me time: 30 sec
151	1,2,3,5,8	Light-me time: 60 sec **(default)**
152	4,5,8	Light-me time: 120 sec
		Camera LED light management on self activation (only with Art. UT2020)
166	2,3,6,8	The LED light is always off upon self activation
167	1,2,3,6,8	The LED light copies the ON/OFF/AUTO mode set for calls (functions 168/169/170) **(default)**
		Camera LED light management upon calls (only with Art. UT2020)
168	4,6,8	OFF mode: LED light always off upon calls
169	1,4,6,8	ON mode: LED light always on upon calls
170	2,4,6,8	AUTO mode: LED light on at night and off during the day, thanks to the twilight sensor **(default)**
171	1,2,4,6,8	Enables brightness control for the camera LED light. ▶ Press the programming confirmation button repeatedly to adjust the brightness
		Restore backup
114	2,5,6,7	If the audio/video module is replaced, all programming is imported (only available if at least one additional module is connected vi flat cable)
		Reset
115	1,2,5,6,7	***Reset button programming:*** if the modules are addressed (see **“Address button modules”**) this resets the programming for the button call addresses
254	2,3,4,5,6,7,8	***Reset special programming:*** restore all the parameters described in this table to their default values

Twilight sensor

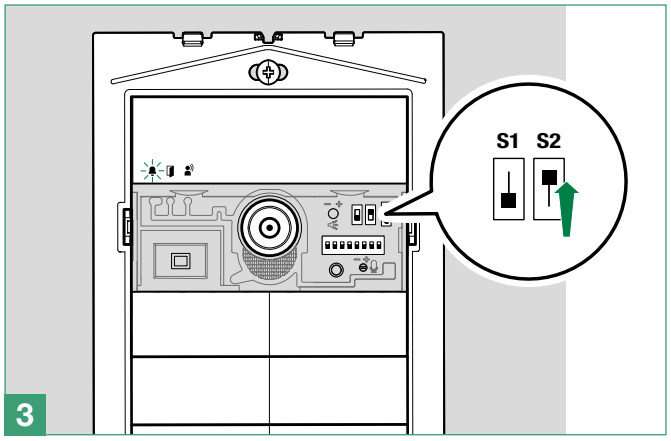
Camera LED lighting and button backlighting management

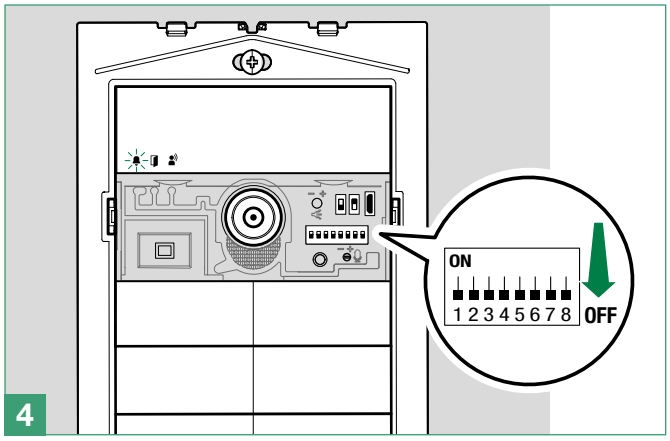
The twilight sensor is in AUTO mode by default: the camera and button LEDs light up at night and switch off during the day. To change the setting to ON (LEDs always on) or OFF (LEDs always off), proceed as follows:

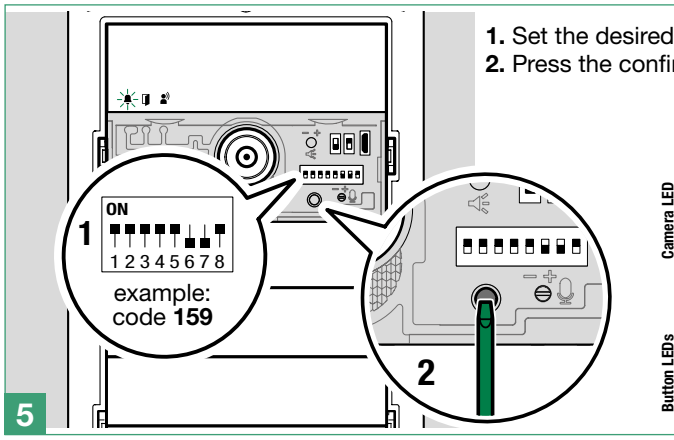




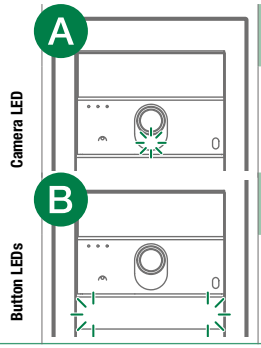
Take note of the DIP-switch settings







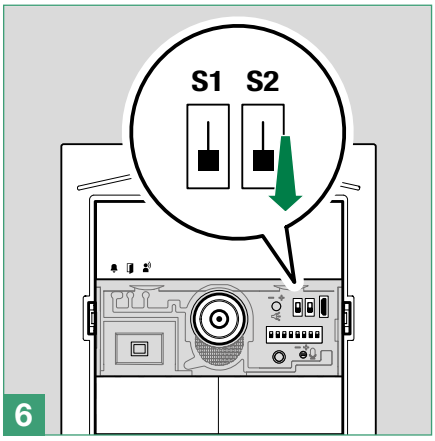
1. Set the desired mode for the camera **(A)** or button **(B)** LEDs
2. Press the confirm button

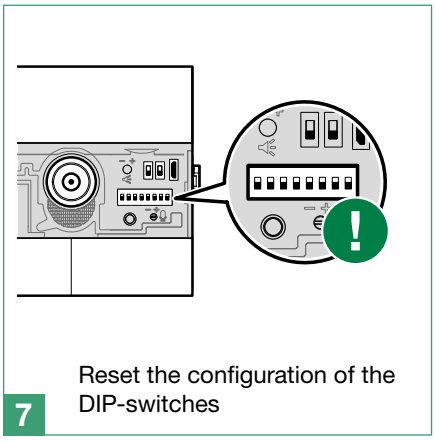


	OFF	ON	AUTO (default)
Camera LED	cod. 168	cod. 169	cod. 170
Button LEDs	cod. 158	cod. 159	cod. 160

NOTE: when the OFF and AUTO lighting modes are active, every time the entrance panel is powered, the buttons light up for the duration of the start-up phase (10 seconds maximum).

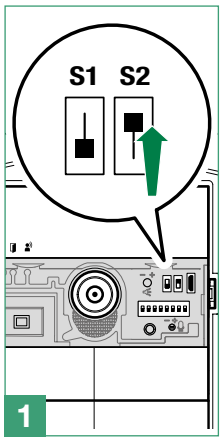
In AUTO mode the twilight sensor checks the ambient light level every 9 minutes; if the measured values exceed the specified minimum/maximum thresholds, it is activated/deactivated accordingly.

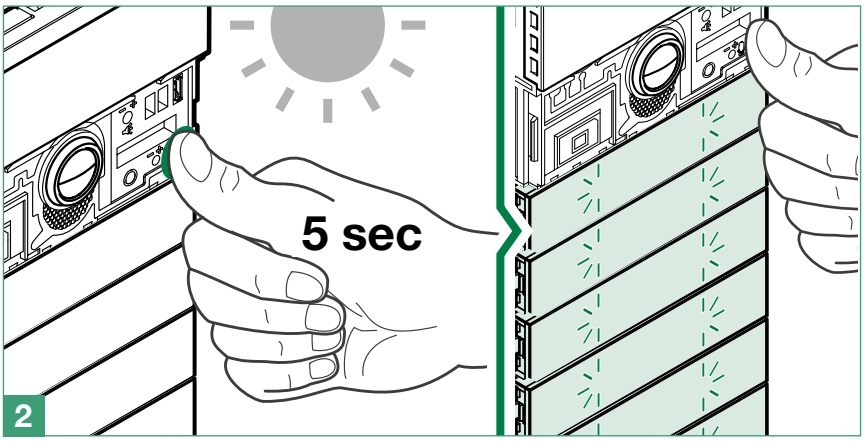


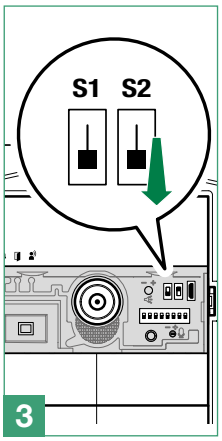


Reset the configuration of the DIP-switches

Checking twilight sensor operation



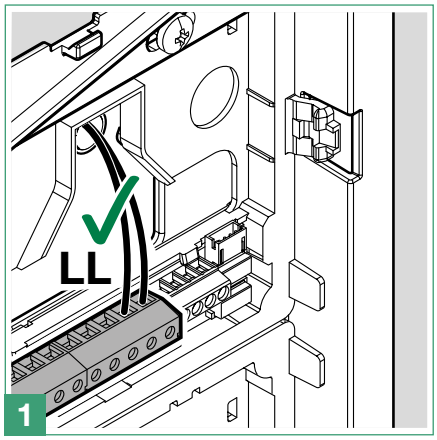


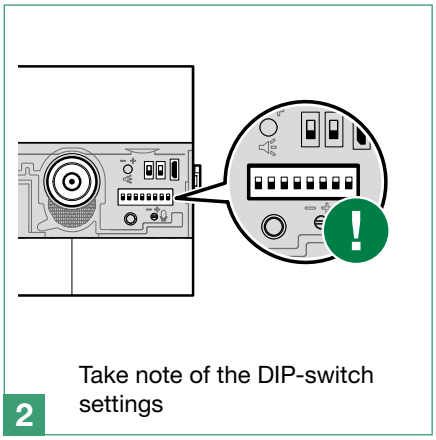


If it is daytime and you want to check AUTO mode operation for the twilight sensor, you can proceed as follows:

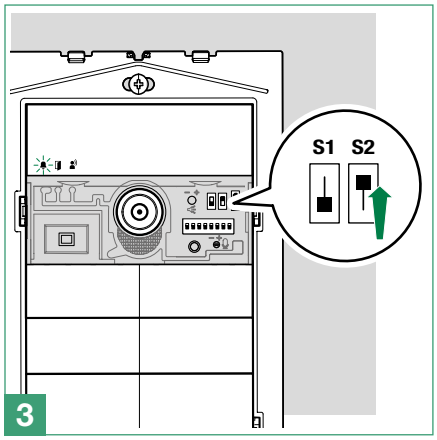
1. Enter programming mode
2. Block the twilight sensor for 5 seconds
   » *If AUTO mode has been set, the camera and button LEDs will come on.*
3. Exit programming

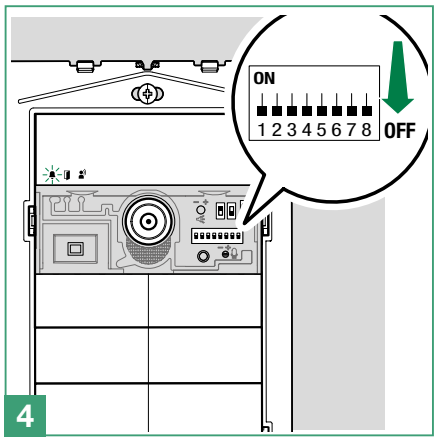
Adjusting the brightness of the button LEDs and the camera light

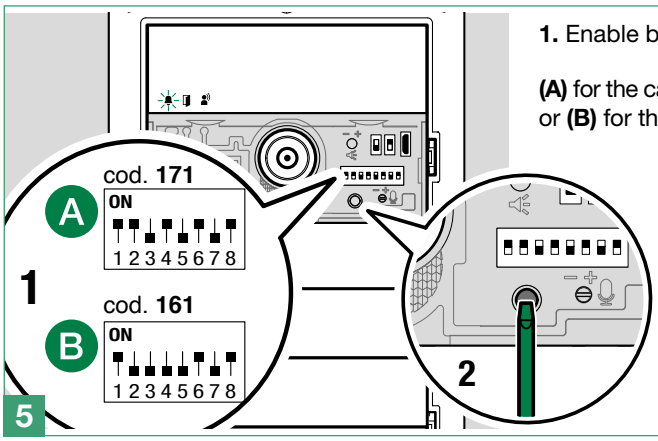




Take note of the DIP-switch settings



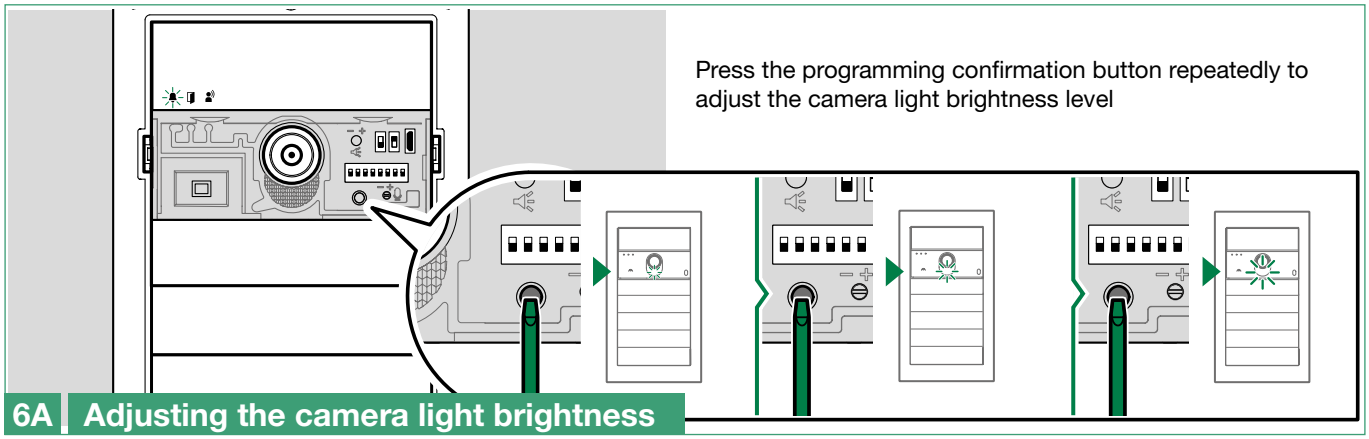




1. Enable brightness control

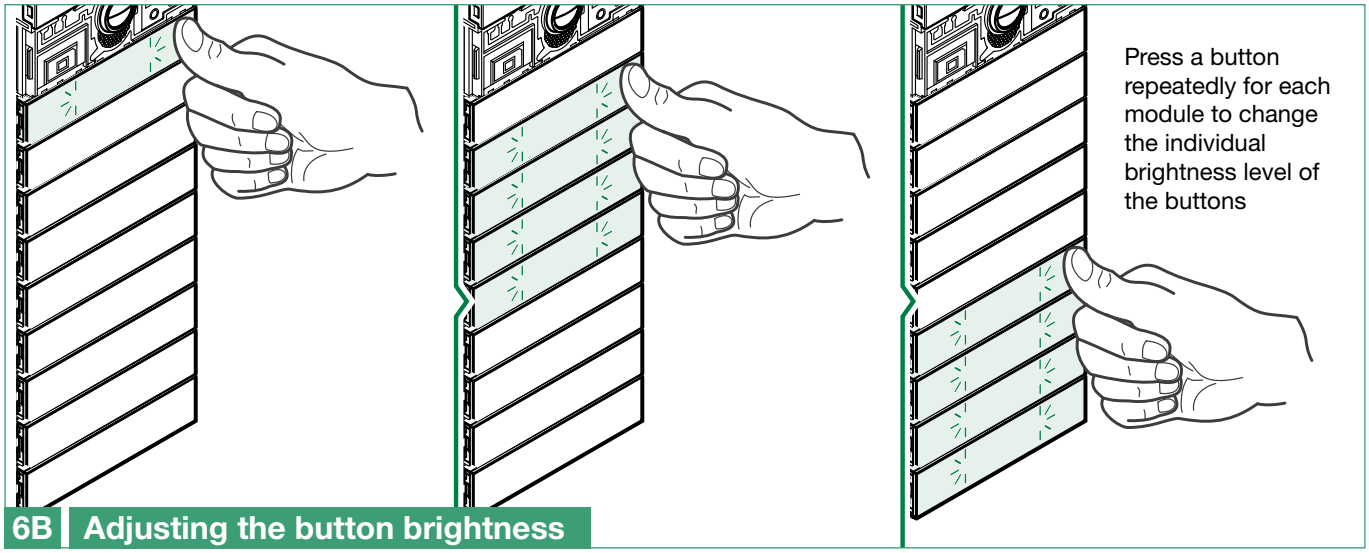
(A) for the camera light (code 171) or **(B)** for the buttons (code 161)

2. Set the desired function (code 171/161) and **press the confirm programming button**



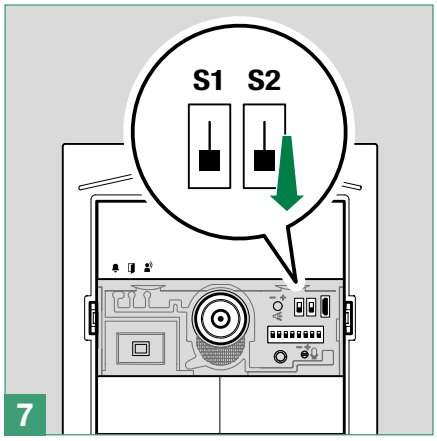
Press the programming confirmation button repeatedly to adjust the camera light brightness level

6A Adjusting the camera light brightness

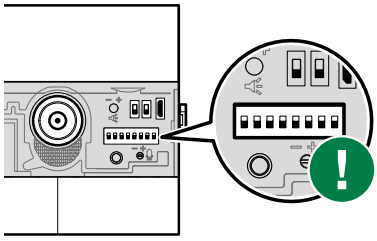


Press a button repeatedly for each module to change the individual brightness level of the buttons

6B Adjusting the button brightness



7



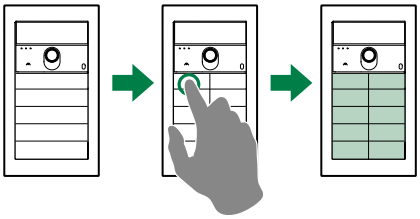
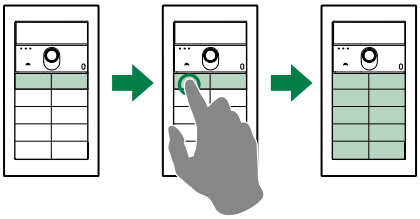
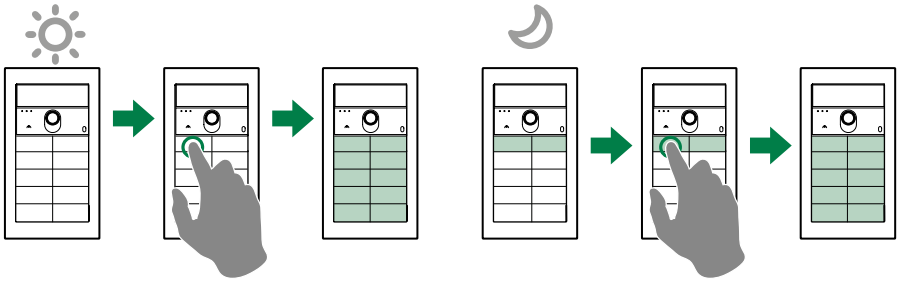
8 Reset the configuration of the DIP-switches

Light-me function

Thanks to this function, button backlighting is only enabled on the user's request, by pressing the LIGHT-ME button on the audio/video module; this saves energy and reduces light pollution.

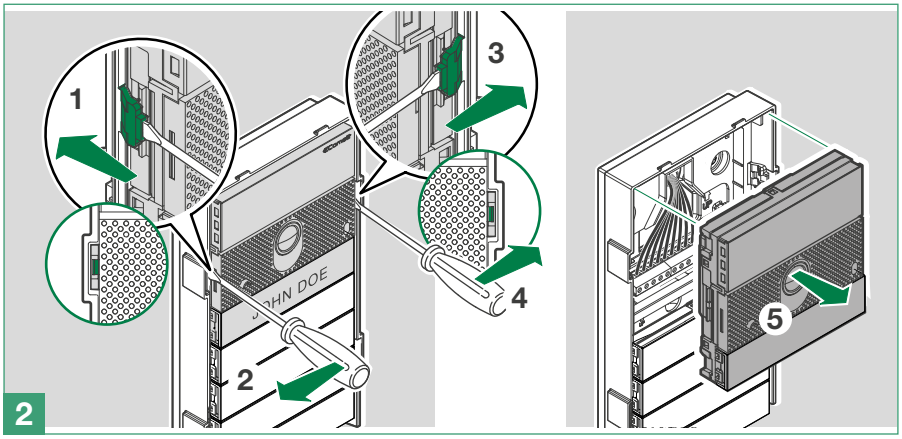
Backlighting management for this button depends on the twilight sensor setting. It is in AUTO mode by default: the LEDs light up at night and switch off during the day. It can be set to ON (LEDs always on) or OFF (LEDs always off).

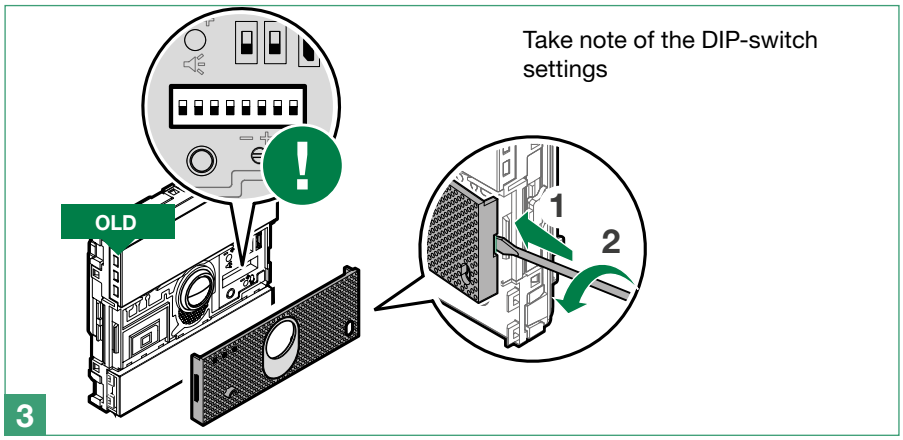
Light-me function behaviour on the basis of the LED backlighting mode

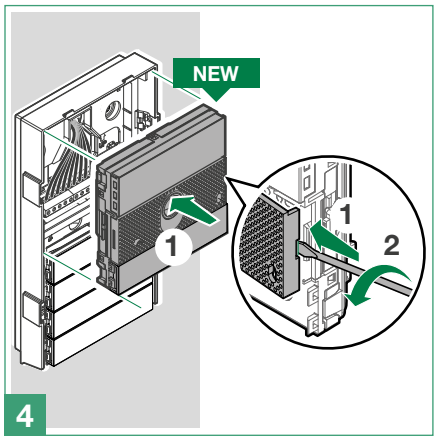
BUTTON BACKLIGHTING	With Light-Me function enabled [code 163]
OFF mode [code 158]	
ON mode [code 159]	
AUTO mode [code 160]	

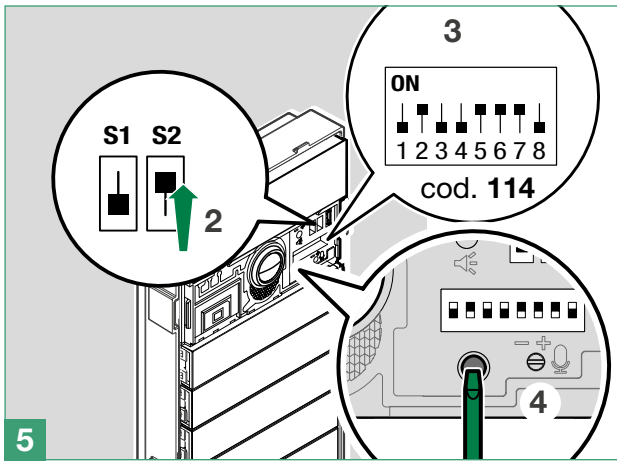
Replacing the audio/video module with programming restore backup

If the audio or audio/video module is replaced, the following instructions must be observed.
The procedure should be completed within one hour of removal of the old module.



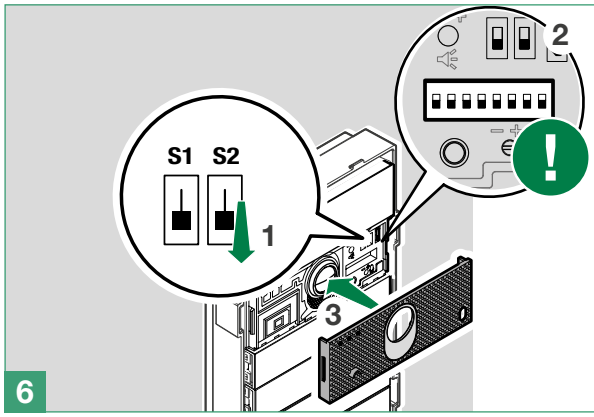






1. Wait 90 seconds
2. Enter programming mode by moving **S2** DIP-switch upwards
   » *the red "system busy" LED flashes for the duration of the procedure*
3. Set special programming **114** to import all the programming settings
4. Press the confirm programming button
   » *the green "lock-release" LED lights up steadily*

At the end of the backup:
» *the green "lock-release" LED switches off and if the procedure was completed successfully, you will hear a confirmation tone.*



1. Exit programming mode by moving the **S2** DIP-switch downwards
   » *the red "system busy" LED switches off*
2. Reset the configuration of the DIP-switches
3. Reattach the front panel

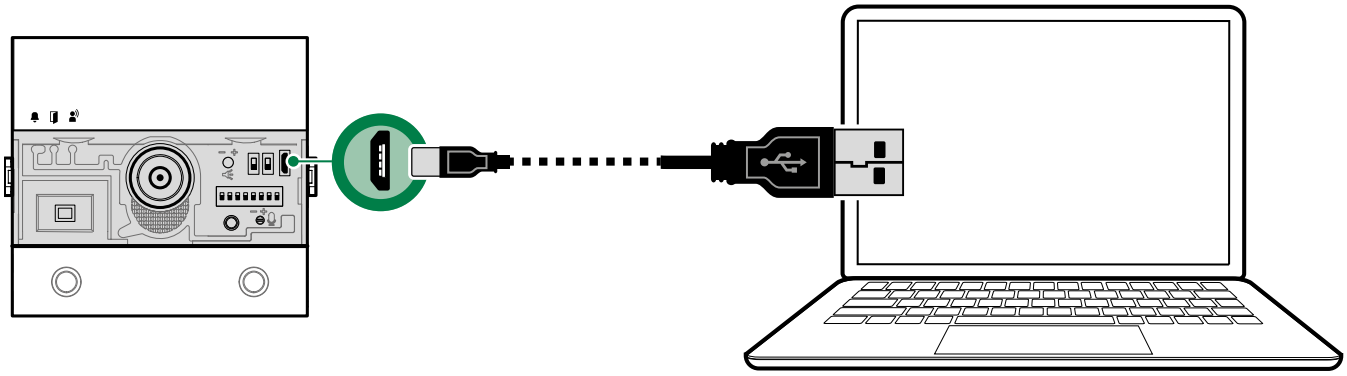
Configuring via PC

All device configurations can be performed via PC and ViP Manager configuration software, available to download free of charge from **pro.comelitgroup.com** **(See programming manual)****.**

For example:

- programming call addresses for the buttons
- activating audiovisual indications
- adjusting the backlighting and twilight sensor threshold
- setting the functions that can be assigned to the RTE input (lock-release, relay control, actuator control, etc.)
- setting activations that can be assigned to the module SE outputs and relay

✓ You will need a USB micro-USB cable.



Errors and indications

	INDICATION	SOLUTION
RED LED LIT STEADILY + DISSUASION TONE	Line short-circuit	Check connections
	Dual power supply present	Remove jumper J4 on the audio/video module
	Button modules with the same ID	Check the button module IDs
	Programming selector positioning error	Check the position of selectors S1 and S2 (they cannot both be set to ON)
RED LED FLASHING	Device in programming	

System performance and layouts

For further information regarding system performance and to view installation layouts, click on the system type:

- **Simplebus2 audio/video**

Addressing table

Cod.	DIP-switch ON
1	1
2	2
3	1,2
4	3
5	1,3
6	2,3
7	1,2,3
8	4
9	1,4
10	2,4
11	1,2,4
12	3,4
13	1,3,4
14	2,3,4
15	1,2,3,4
16	5
17	1,5
18	2,5
19	1,2,5
20	3,5
21	1,3,5
22	2,3,5
23	1,2,3,5
24	4,5
25	1,4,5
26	2,4,5
27	1,2,4,5
28	3,4,5
29	1,3,4,5
30	2,3,4,5
31	1,2,3,4,5
32	6
33	1,6
34	2,6
35	1,2,6
36	3,6
37	1,3,6
38	2,3,6
39	1,2,3,6
40	4,6
41	1,4,6
42	2,4,6
43	1,2,4,6
44	3,4,6
45	1,3,4,6
46	2,3,4,6
47	1,2,3,4,6
48	5,6
49	1,5,6
50	2,5,6
51	1,2,5,6
52	3,5,6
53	1,3,5,6
54	2,3,5,6
55	1,2,3,5,6
56	4,5,6
57	1,4,5,6
58	2,4,5,6
59	1,2,4,5,6
60	3,4,5,6
61	1,3,4,5,6
62	2,3,4,5,6
63	1,2,3,4,5,6
64	7
65	1,7
66	2,7
67	1,2,7
68	3,7
69	1,3,7
70	2,3,7
71	1,2,3,7
72	4,7
73	1,4,7
74	2,4,7
75	1,2,4,7
76	3,4,7
77	1,3,4,7
78	2,3,4,7
79	1,2,3,4,7
80	5,7
81	1,5,7
82	2,5,7
83	1,2,5,7
84	3,5,7
85	1,3,5,7
86	2,3,5,7
87	1,2,3,5,7
88	4,5,7
89	1,4,5,7
90	2,4,5,7
91	1,2,4,5,7
92	3,4,5,7
93	1,3,4,5,7
94	2,3,4,5,7
95	1,2,3,4,5,7
96	6,7
97	1,6,7
98	2,6,7
99	1,2,6,7
100	3,6,7
101	1,3,6,7
102	2,3,6,7
103	1,2,3,6,7
104	4,6,7
105	1,4,6,7
106	2,4,6,7
107	1,2,4,6,7
108	3,4,6,7
109	1,3,4,6,7
110	2,3,4,6,7
111	1,2,3,4,6,7
112	5,67
113	1,5,6,7
114	2,5,6,7
115	1,2,5,6,7
116	3,5,6,7
117	1,3,5,6,7
118	2,3,5,6,7
119	1,2,3,5,6,7
120	4,5,6,7
121	1,4,5,6,7
122	2,4,5,6,7
123	1,2,4,5,6,7
124	3,4,5,6,7
125	1,3,4,5,6,7
126	2,3,4,5,6,7
127	1,2,3,4,5,6,7
128	8
129	1,8
130	2,8
131	1,2,8
132	3,8
133	1,3,8
134	2,3,8
135	1,2,3,8
136	4,8
137	1,4,8
138	2,4,8
139	1,2,4,8
140	3,4,8
141	1,3,4,8
142	2,3,4,8
143	1,2,3,4,8
144	5,8
145	1,5,8
146	2,5,8
147	1,2,5,8
148	3,5,8
149	1,3,5,8
150	2,3,5,8
151	1,2,3,5,8
152	4,5,8
153	1,4,5,8
154	2,4,5,8
155	1,2,4,5,8
156	3,4,5,8
157	1,3,4,5,8
158	2,3,4,5,8
159	1,2,3,4,5,8
160	6,8
161	1,6,8
162	2,6,8
163	1,2,6,8
164	3,6,8
165	1,3,6,8
166	2,3,6,8
167	1,2,3,6,8
168	4,6,8
169	1,4,6,8
170	2,4,6,8
171	1,2,4,6,8
172	3,4,6,8
173	1,3,4,6,8
174	2,3,4,6,8
175	1,2,3,4,6,8
176	5,6,8
177	1,5,6,8
178	2,5,6,8
179	1,2,5,6,8
180	3,5,6,8
181	1,3,5,6,8
182	2,3,5,6,8
183	1,2,3,5,6,8
184	4,5,6,8
185	1,4,5,6,8
186	2,4,5,6,8
187	1,2,4,5,6,8
188	3,4,5,6,8
189	1,3,4,5,6,8
190	2,3,4,5,6,8
191	1,2,3,4,5,6,8
192	7,8
193	1,7,8
194	2,7,8
195	1,2,7,8
196	3,7,8
197	1,3,7,8
198	2,3,7,8
199	1,2,3,7,8
200	4,7,8
*240	5,6,7,8
201	1,4,7,8
202	2,4,7,8
203	1,2,4,7,8
204	3,4,7,8
205	1,3,4,7,8
206	2,3,4,7,8
207	1,2,3,4,7,8
208	5,7,8
209	1,5,7,8
210	2,5,7,8
211	1,2,5,7,8
212	3,5,7,8
213	1,3,5,7,8
214	2,3,5,7,8
215	1,2,3,5,7,8
216	4,5,7,8
217	1,4,5,7,8
218	2,4,5,7,8
219	1,2,4,5,7,8
220	3,4,5,7,8
221	1,3,4,5,7,8
222	2,3,4,5,7,8
223	1,2,3,4,5,7,8
224	6,7,8
225	1,6,7,8
226	2,6,7,8
227	1,2,6,7,8
228	3,6,7,8
229	1,3,6,7,8
230	2,3,6,7,8
231	1,2,3,6,7,8
232	4,6,7,8
233	1,4,6,7,8
234	2,4,6,7,8
235	1,2,4,6,7,8
236	3,4,6,7,8
237	1,3,4,6,7,8
238	2,3,4,6,7,8
239	1,2,3,4,6,7,8

* NOTE: Code 240 is reserved for the porter switchboard

3ª edizione 11/2021
cod. 2G40002847

CERTIFIED MANAGEMENT SYSTEMS

ISO 9001 ISO 14001

www.comelitgroup.com

Via Don Arrigoni, 5 - 24020 Rovetta (BG) - Italy

Comelit®
Passion.Technology.Design.