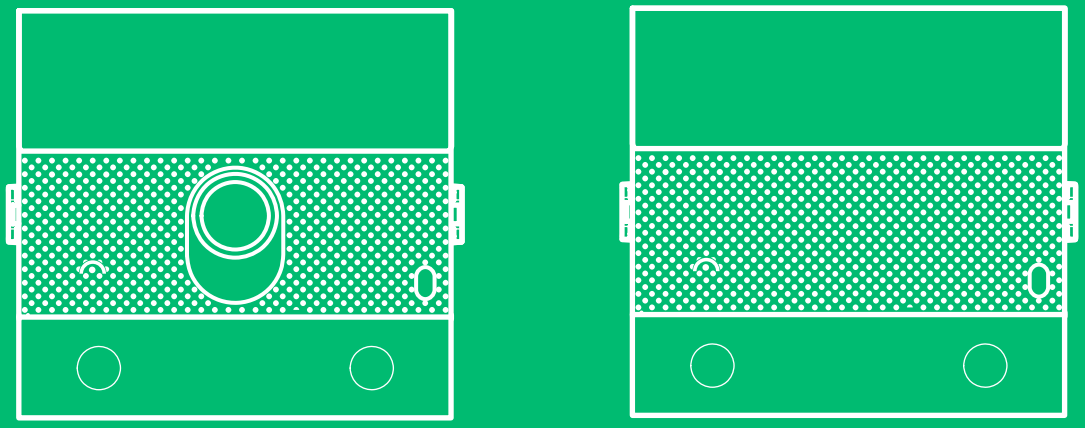
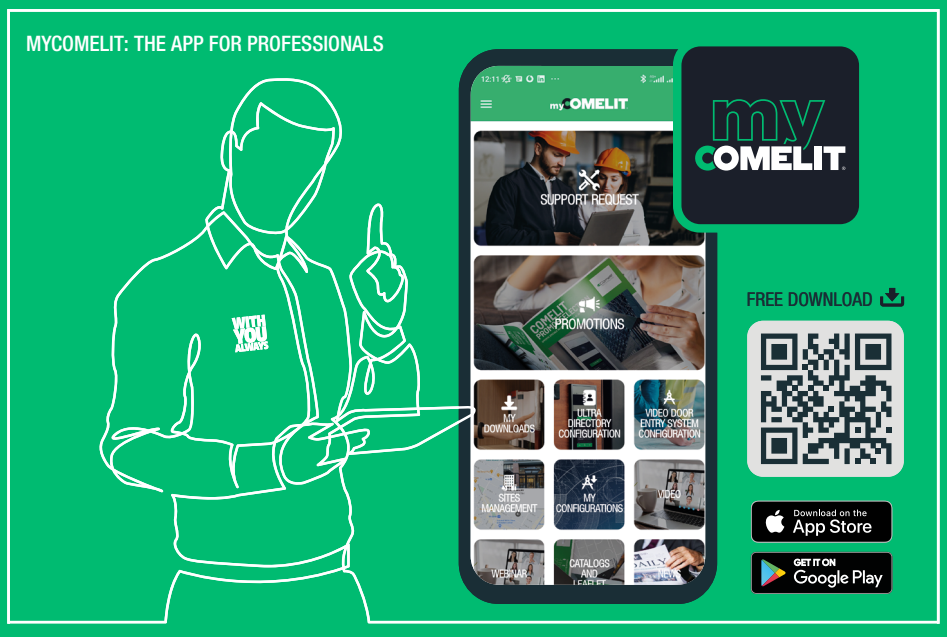
EN

TECHNICAL MANUAL





Ultra Simplebus2 audio/video module art. UT2020, UT2020B, UT2020W

Ultra Simplebus2 remote camera audio module art. UT2010VC, UT2010VCB, UT2010VCW

COMELIT®
WITH • YOU • ALWAYS

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

CE 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 wheelie 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 m^2 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

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.

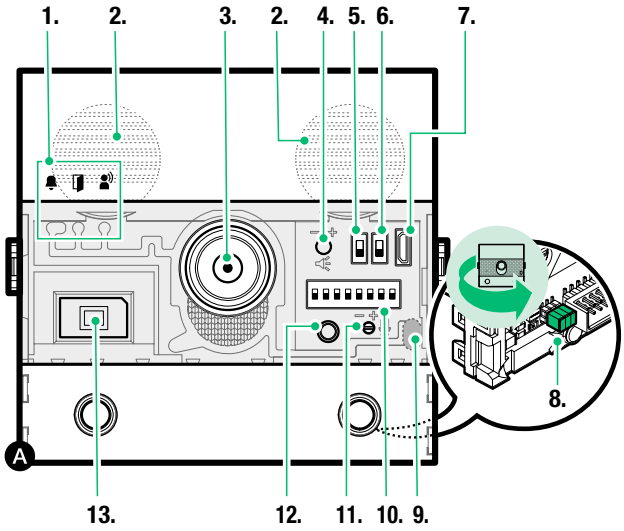
Dimensions: 100 x 90 x 35 mm.

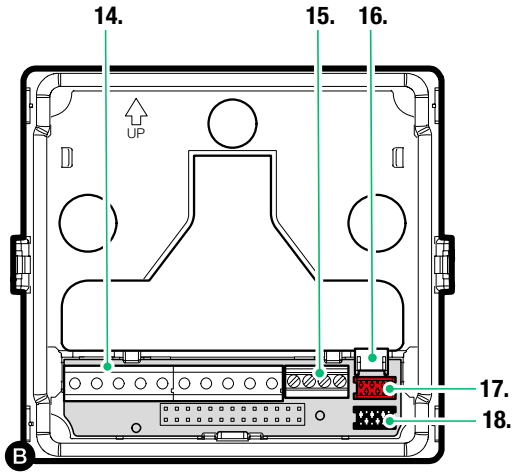
ULTRA: the new and most technologically advanced entrance panel offering maximum ease of installation.

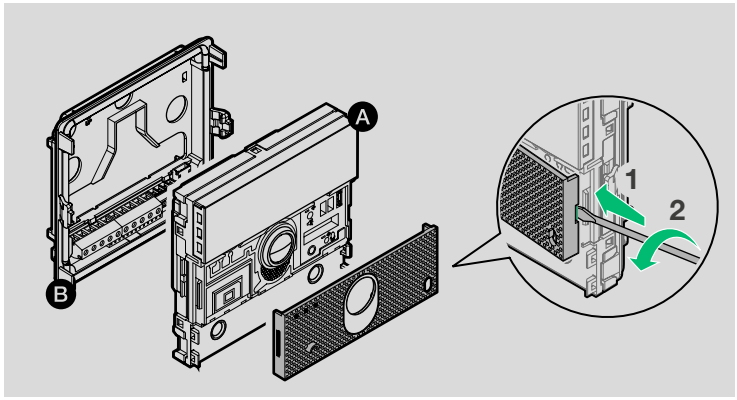
Available in flush-mounted or surface-mounted variants (protrusion from the wall just 10 mm and 35 mm respectively), in silver (art. UT2020 and UT2010VC), black RAL9005 (art. UT2020B and UT2010VCB) and white (art. UT2020W and UT2010VCW).

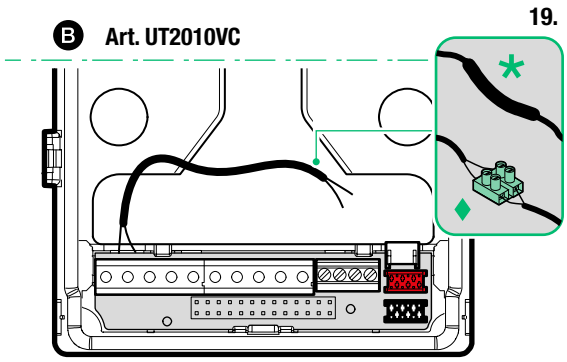
To make full use of the available functions, ALL modules making up the external entrance panel must be updated to the latest firmware version, which is available to download from the website ***pro.comelitgroup.com***

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
   - call in progress
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

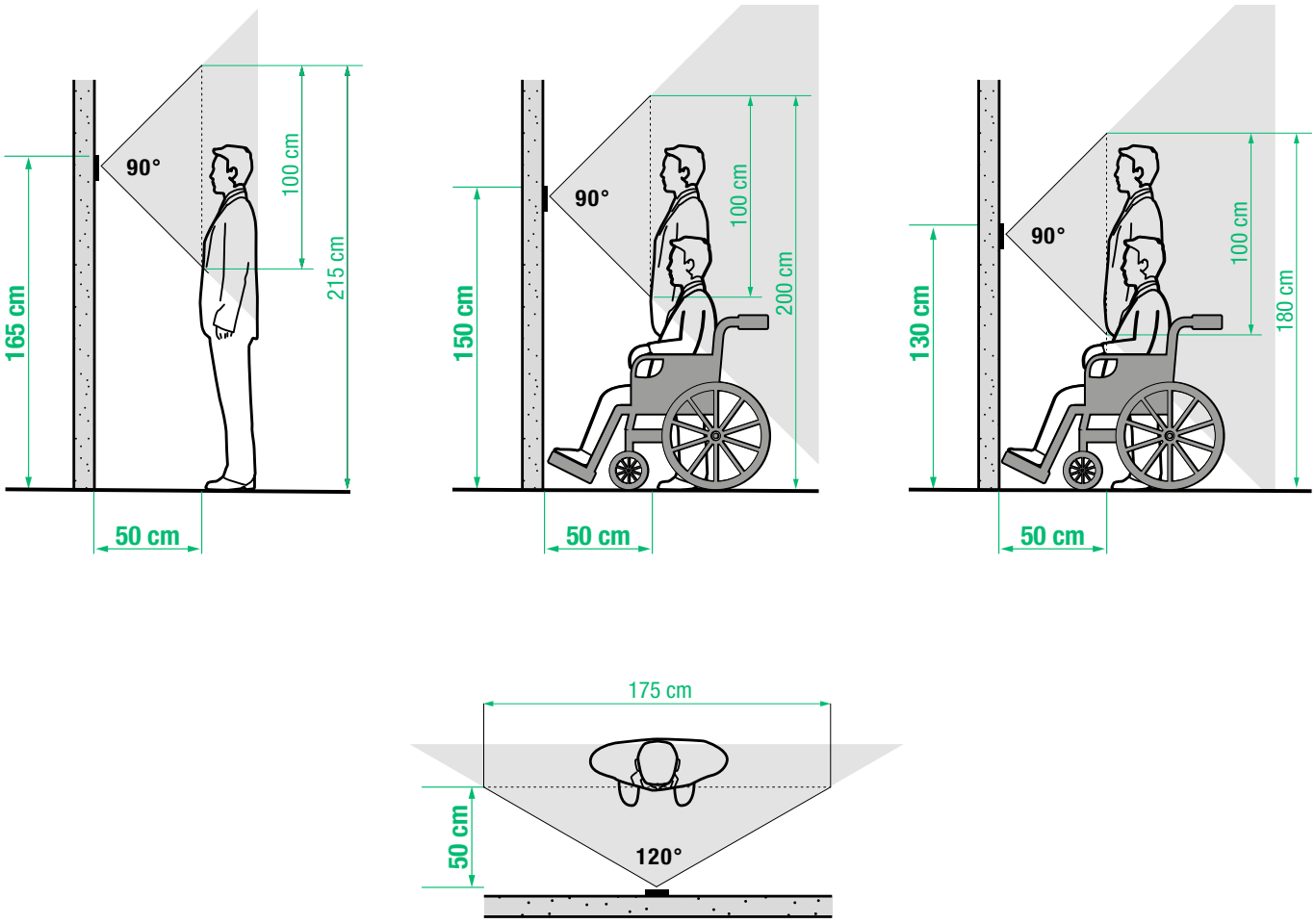
14. Terminal block for connection:

RTE	programmable RTE (local lock-release input) or DO input (door open indication)
GND SE-	RTE and electric 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. Connector for additional module connection
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 provided

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

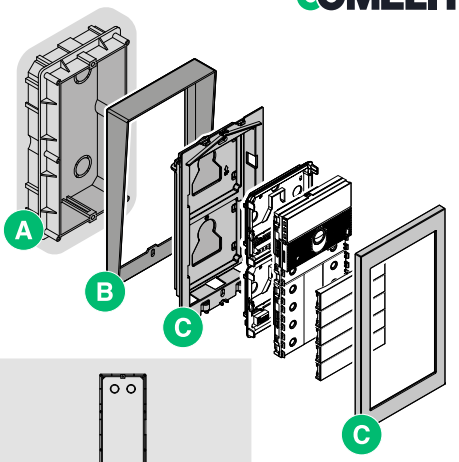
art. UT2020

GENERAL DATA	
Type	Modular
Product height (mm)	90
Product width (mm)	100
Product depth (mm)	35
Product colour	Black RAL9005, Transparent Aluminium (art. UT2020), black (art. UT2020B), white (art. UT2020W)
Product weight (g)	350
Coating material type	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 SPECIFICATIONS	
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 10A), SE: 4A unlock pulse, maintenance current 200 mA for 12 VAC/DC door locks (maximum impedance 18 Ohm)
Communication port	Micro-USB
Twilight sensor	Yes
SETTINGS	
Loudspeaker volume	Yes
Mic volume	Yes
Backlighting brightness	Yes
PROGRAMMING MODE	
Manual (via Dip Switch)	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 IEC 63000:2018), 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 lock-release button	Yes
Input for door open indication	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 (art. UT2010VC), black (art. UT2010VCB), white (art. UT2010VCW)
Product weight (g)	265
Coating material type	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 SPECIFICATIONS	
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 10A), SE: 4A unlock pulse, maintenance current 200 mA for 12 VAC/DC door locks (maximum impedance 18 Ohm)
Communication port	Micro-USB
Twilight sensor	Yes
SETTINGS	
Loudspeaker volume	Yes
Mic volume	Yes
Backlighting brightness	Yes
PROGRAMMING MODE	
Manual (via Dip Switch)	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 IEC 63000:2018), 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 lock-release button	Yes
Input for door open indication	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:

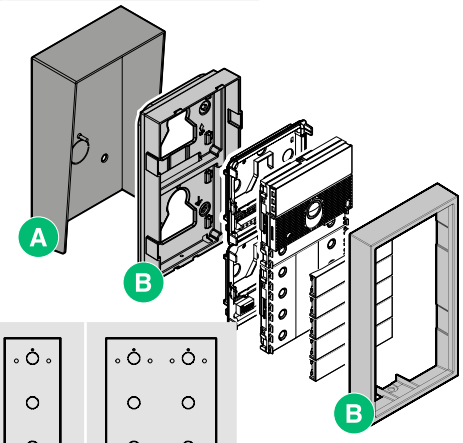
Flush-mounted installation composition table

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 UT9181B UT9181W	UT9182 UT9182B UT9182W	UT9184H	UT9183 UT9183B UT9183W	UT9186	UT9189	UT9184 UT9184B UT9184W	UT9188
Module holder/ finishing frame	UT9161 UT9161B UT9161W	UT9162 UT9162B UT9162W	UT9163 UT9163B UT9163W	UT9164 UT9164B UT9164W				



Surface-mounted installation composition table

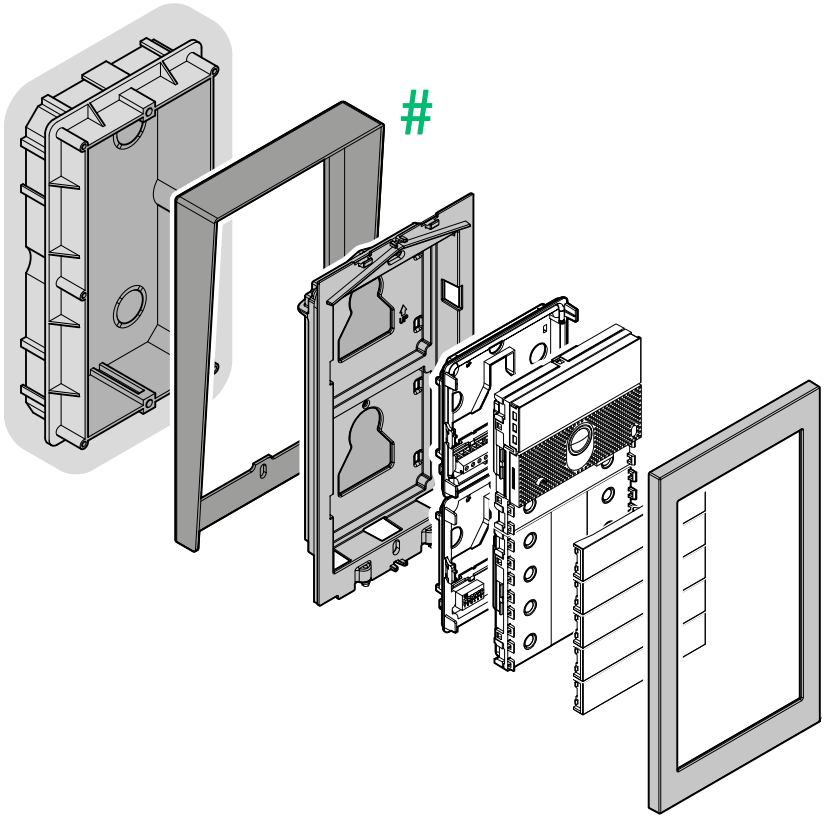
A = Rain shield #

B = Surface-mounted housing with frame

Rain shield	UT9191 UT9191B UT9191W	UT9192 UT9192B UT9192W	UT9194H	UT9193 UT9193B UT9193W	UT9196	UT9199	UT9194 UT9194B UT9194W	UT9198
Housing/frame	UT9171 UT9171B UT9171W	UT9172 UT9172B UT9172W	UT9174H	UT9173 UT9173B UT9173W	UT9176	UT9179	UT9174 UT9174B UT9174W	UT9178

Optional

Flush-mounted installation



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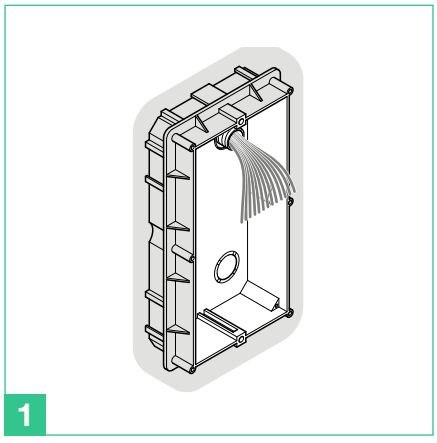
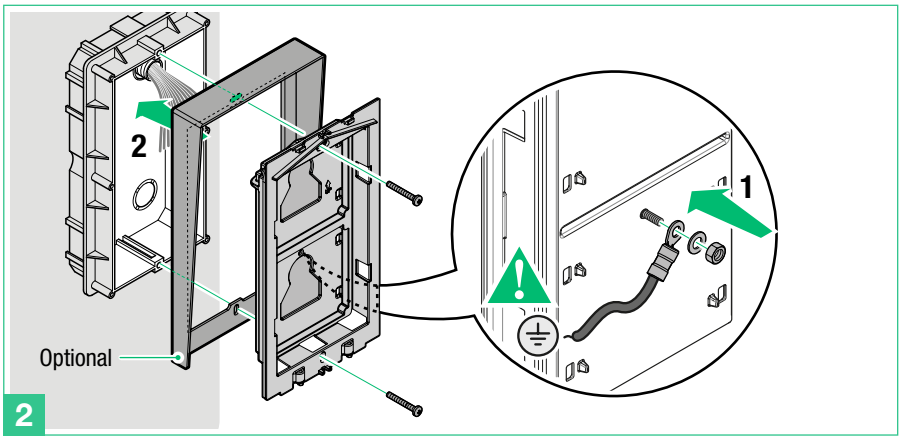
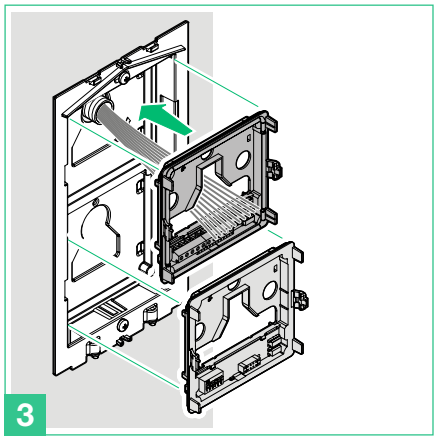
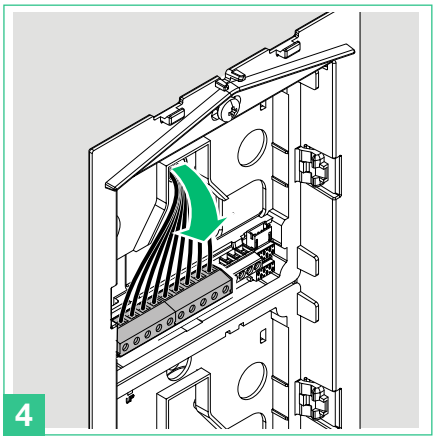
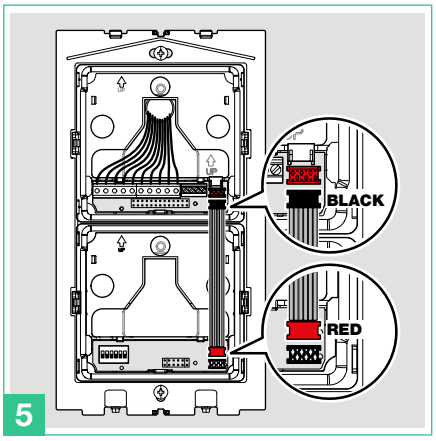
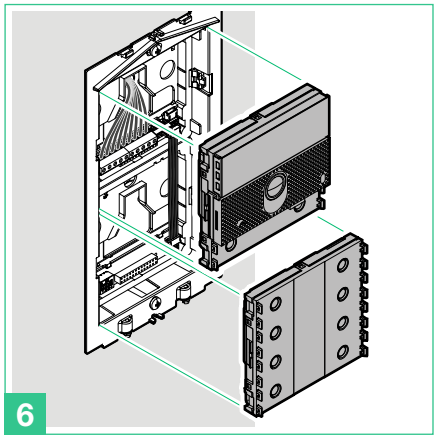


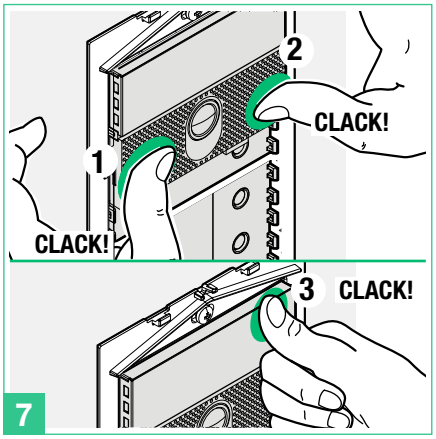


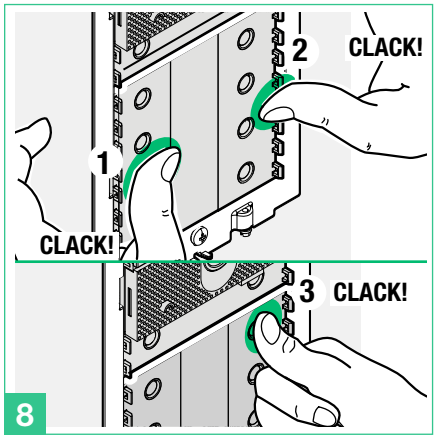


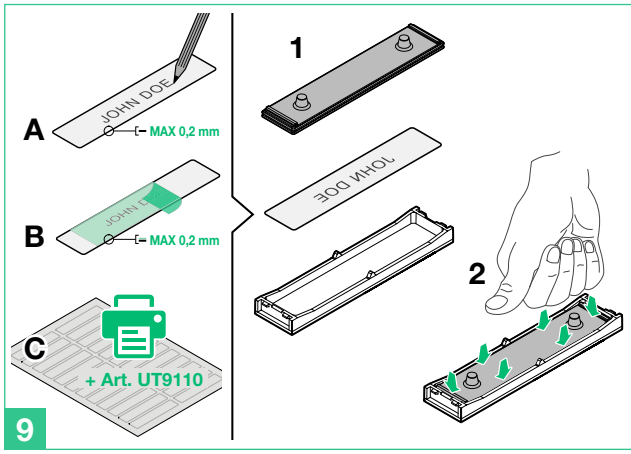










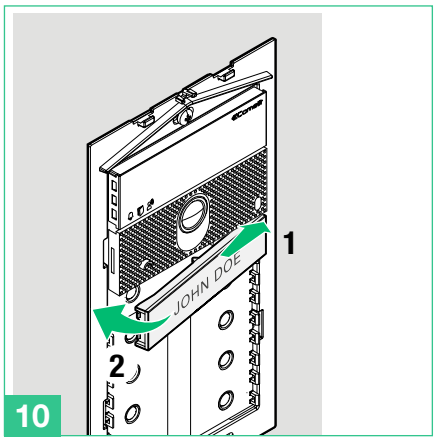


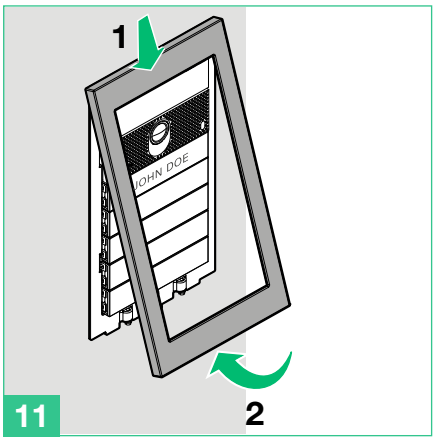
The button has a nameplate which can be written on **(A)**; alternatively, an adhesive label can be applied **(B)**.

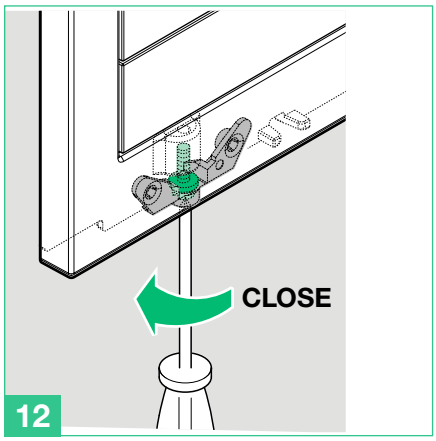
The total thickness of the nameplate + adhesive label must not exceed 0.2 mm.

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





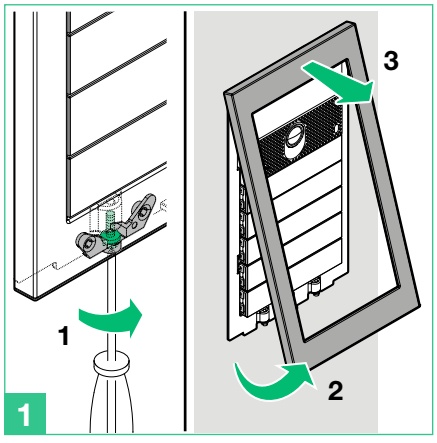


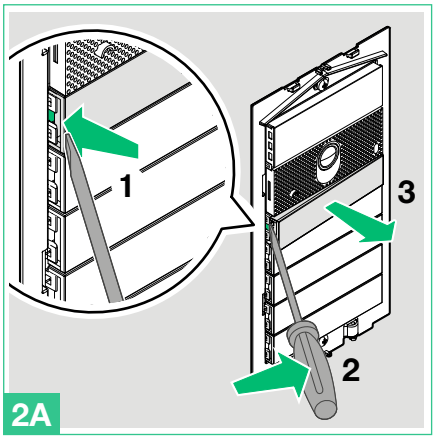
* Kit art. **UT9110** contains 5 sheets of pre-cut labels for nameplates and 1 sheet for the information module.

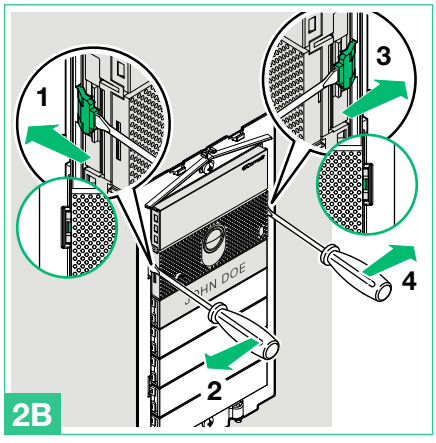
The sheets are made using Yupo paper which offers the ultimate transparency and resistance to atmospheric agents over time.

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

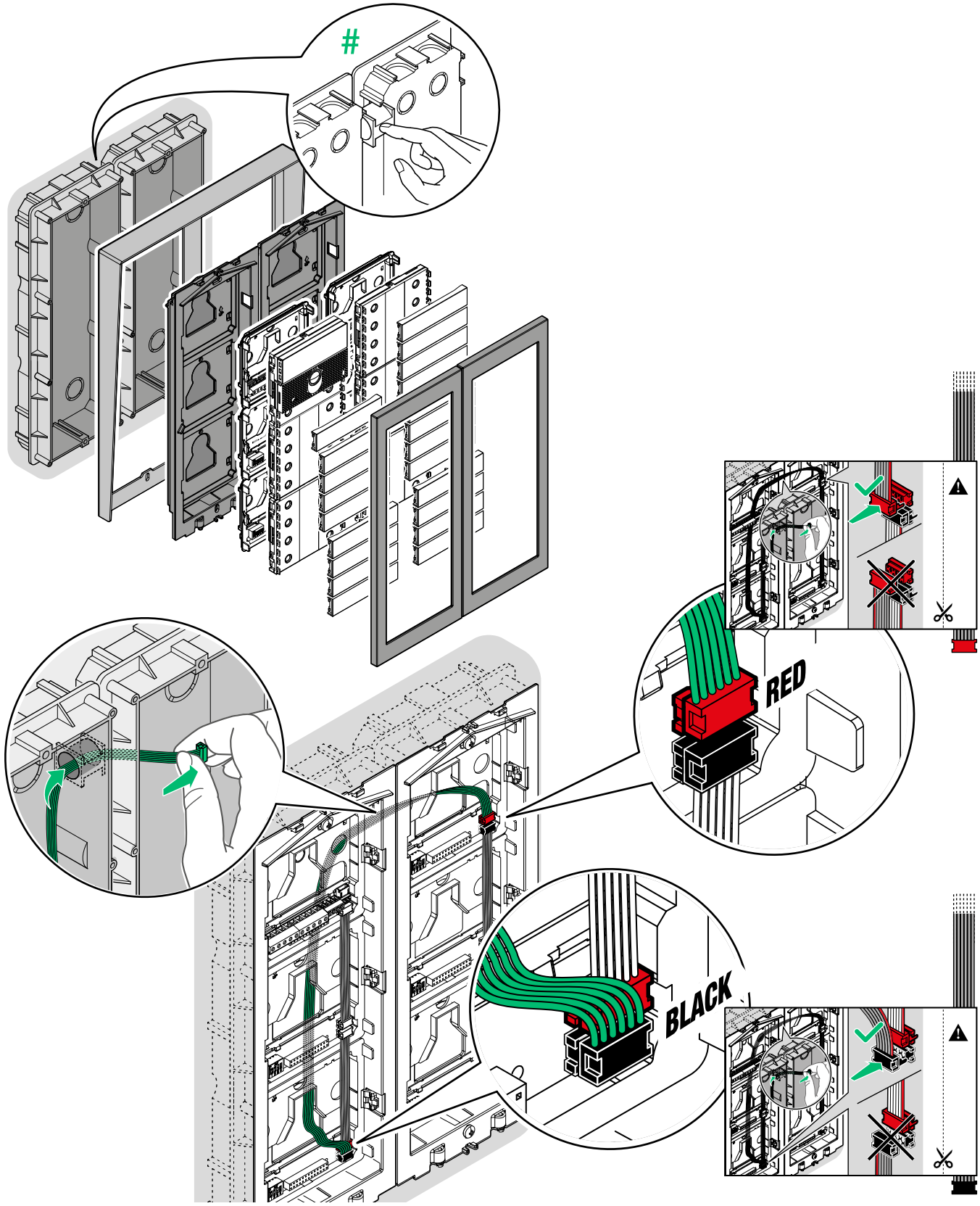
Removing nameplates (2A) / module (2B)





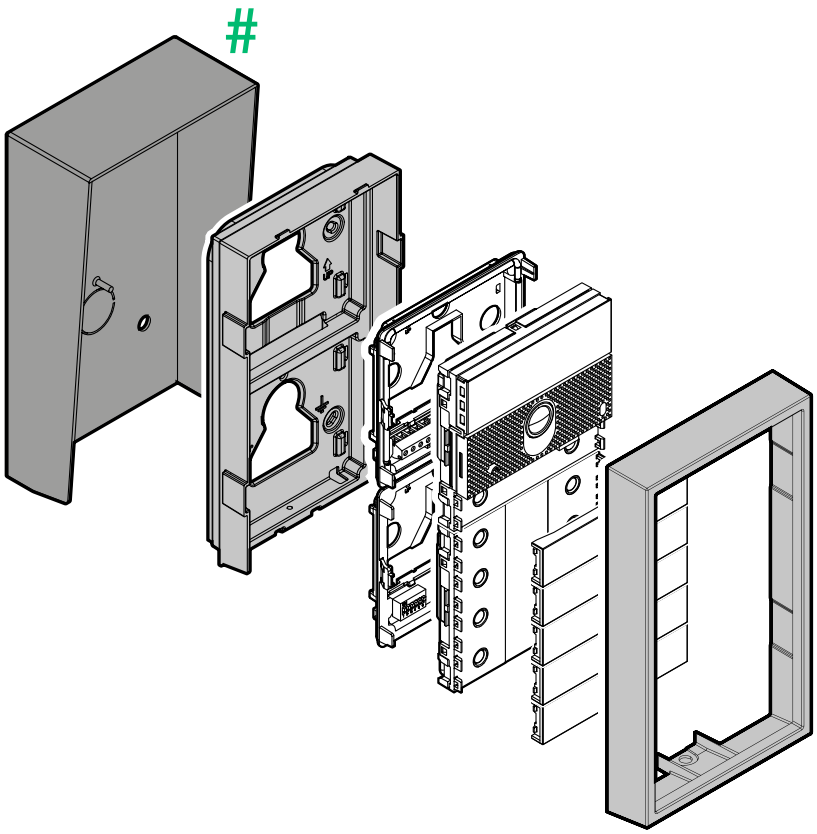


Installation with side-by-side boxes

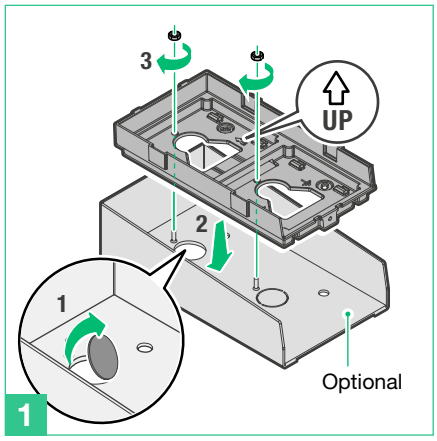


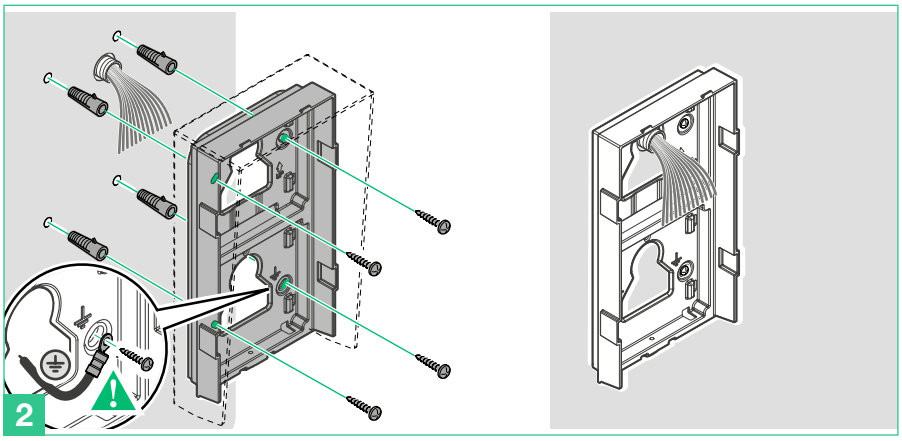
Before installing the boxes in the wall, fit the spacers.

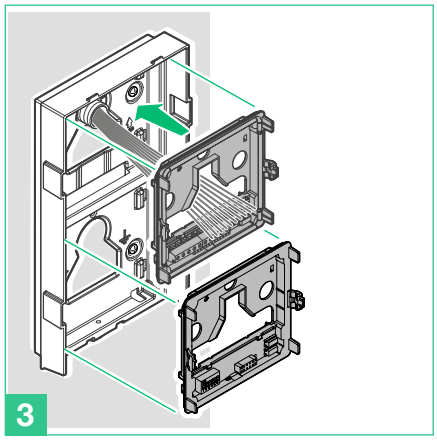
Wall-mounted installation

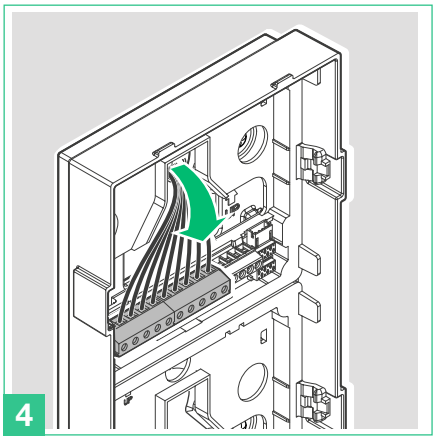


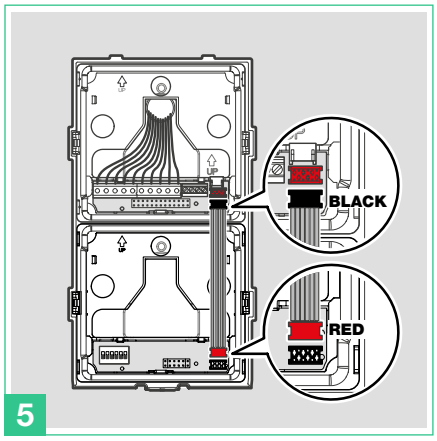
Optional

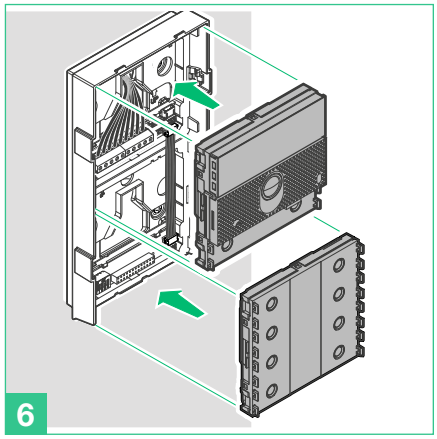


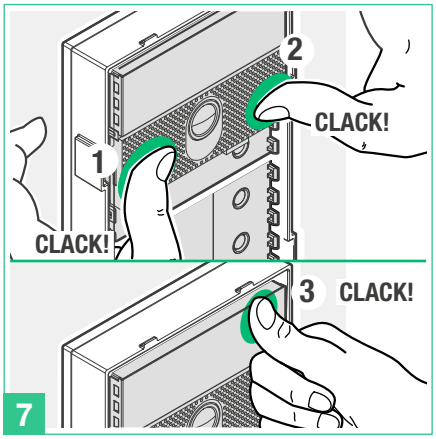


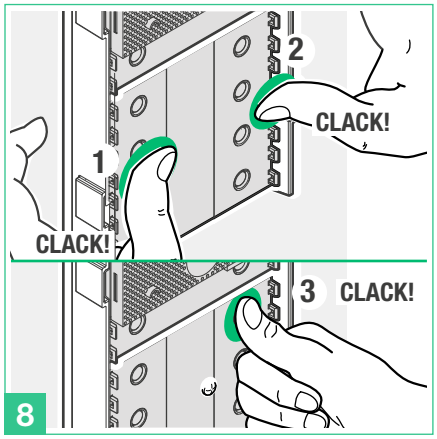


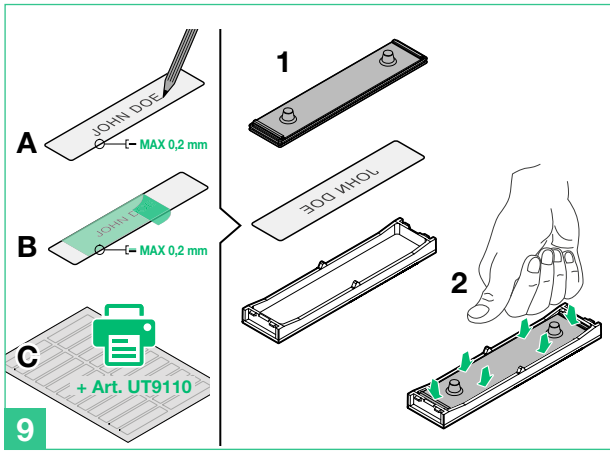










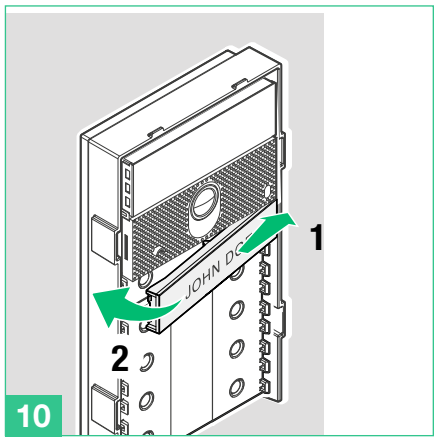


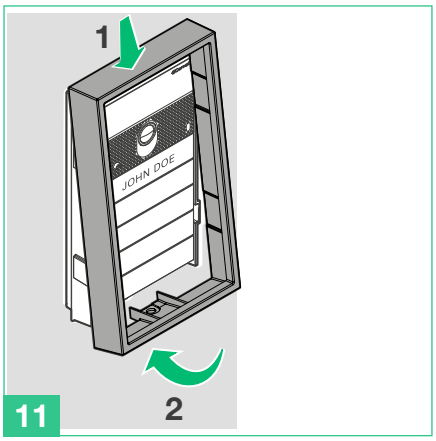
The button has a nameplate which can be written on **(A)**; alternatively, an adhesive label can be applied **(B)**.

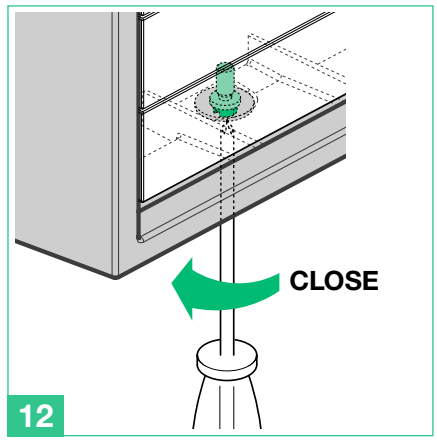
The total thickness of the nameplate + adhesive label must not exceed 0.2 mm.

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





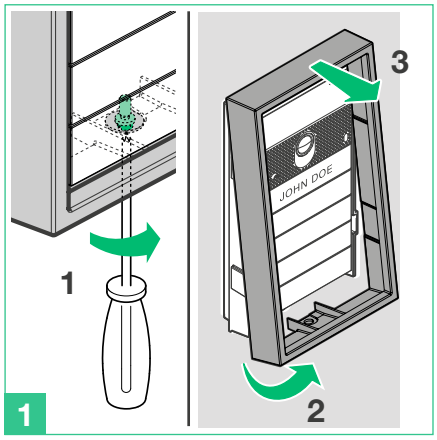


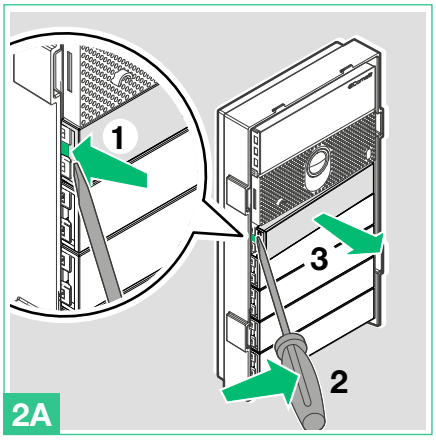
* Kit art. **UT9110** contains 5 sheets of pre-cut labels for nameplates and 1 sheet for the information module.

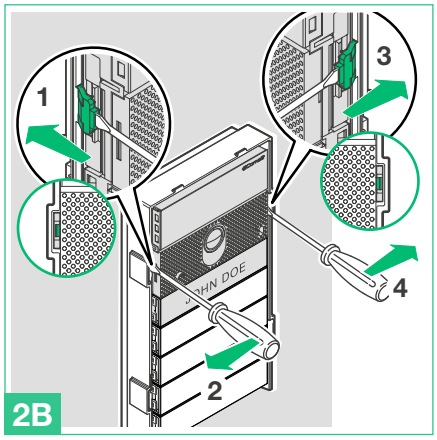
The sheets are made using Yupo paper which offers the ultimate transparency and resistance to atmospheric agents over time.

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

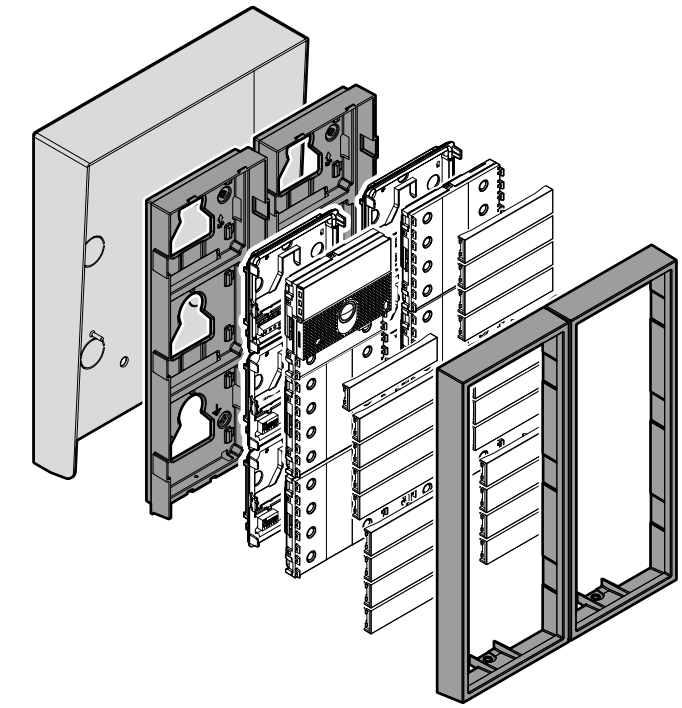
Removing nameplates (2A) / module (2B)

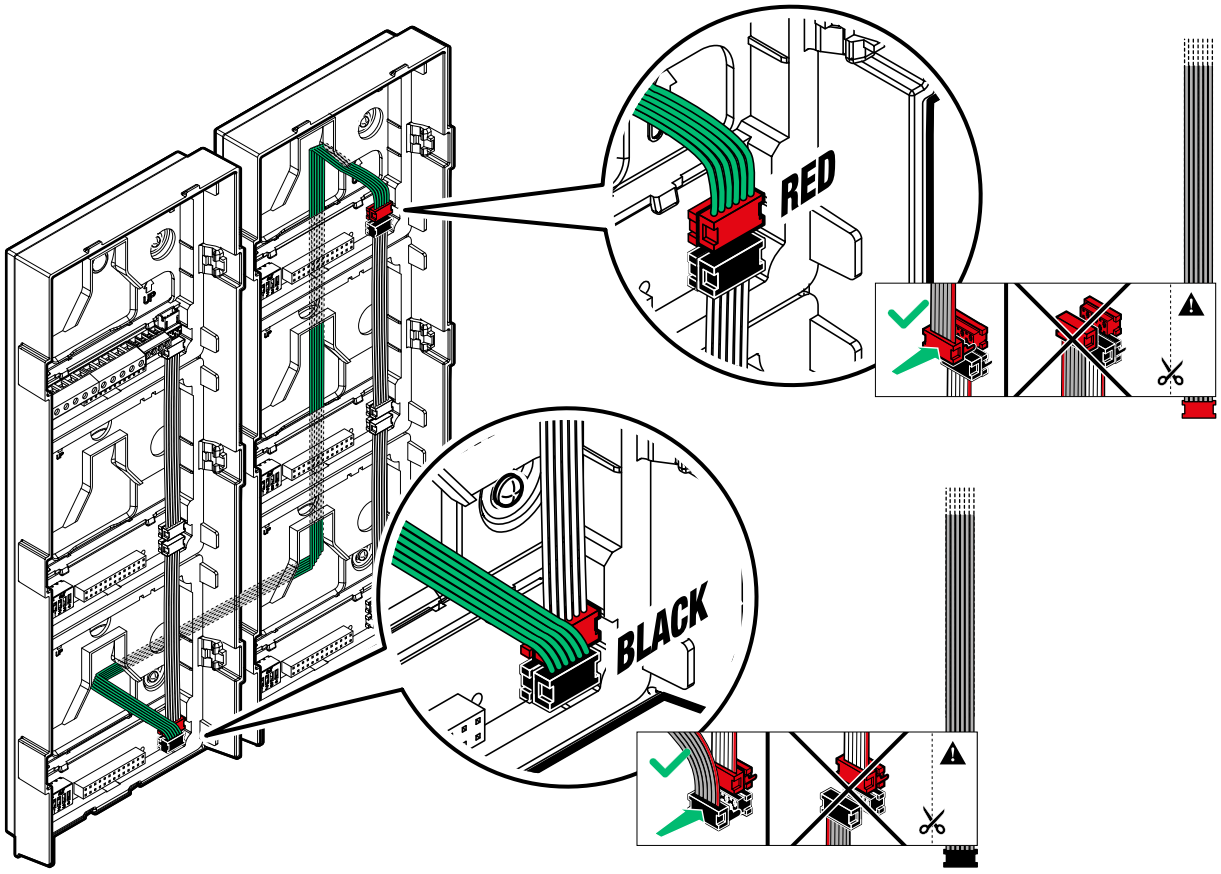






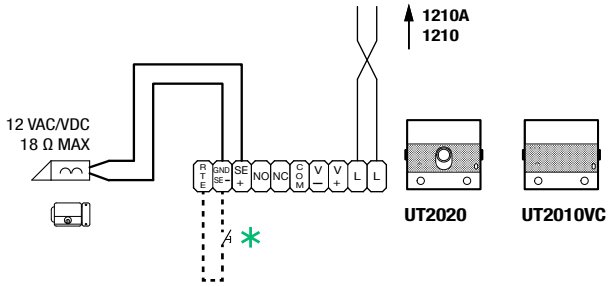
Installation with side-by-side boxes





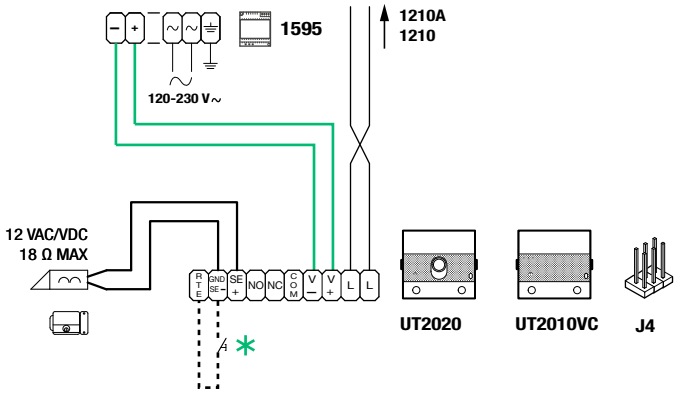
Connections

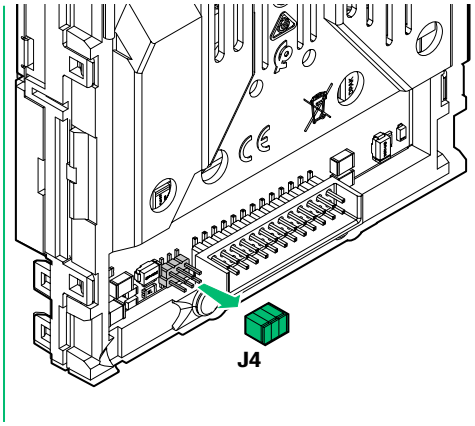
Standard connection



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

Connection with separate power supply

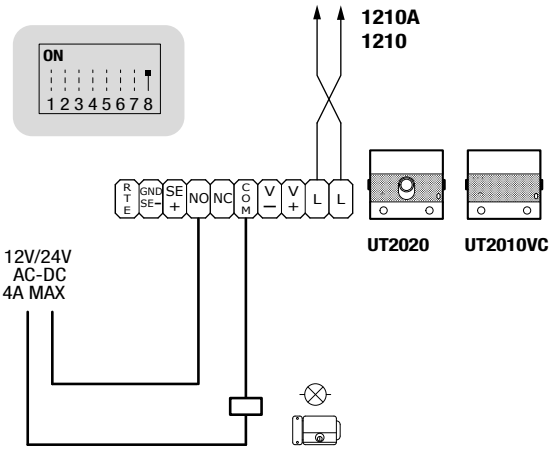




✳ **Max 20 m.** Local door-opener button.

Variants

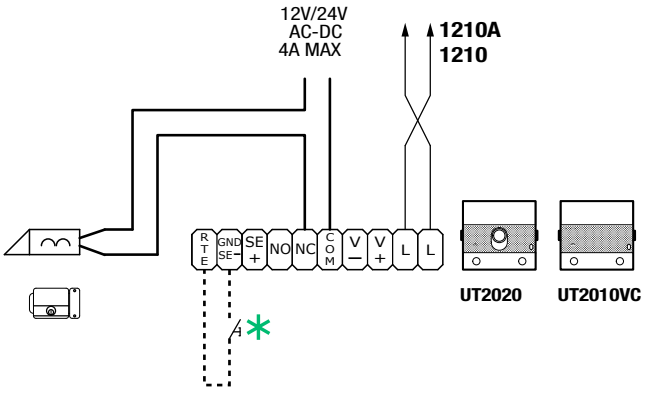
Variant for using the outdoor entrance panel relay



“C.NC.NO relay activation: 2 sec”

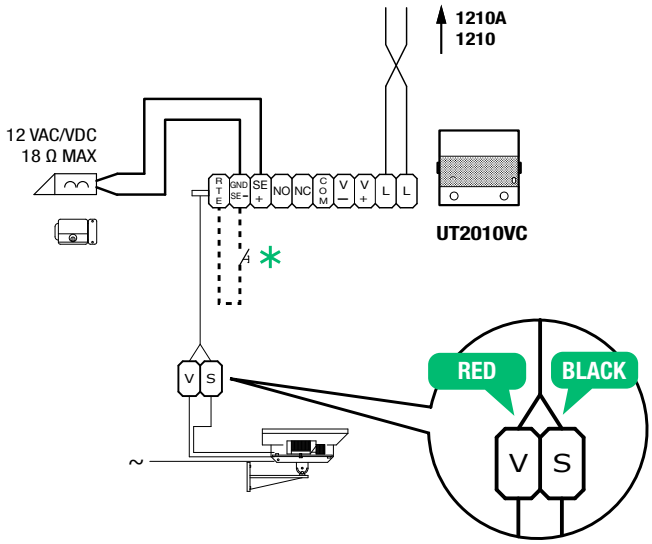
- Set DIP switch 8 to ON permanently (as shown in the figure)

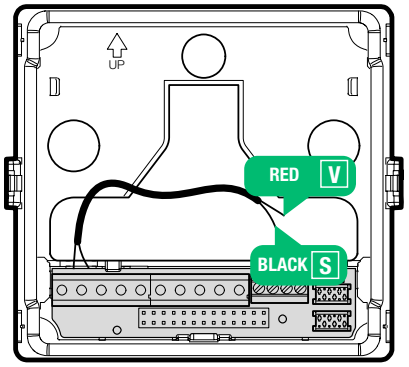
Variant for using a safety door lock



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

Remote camera connection (art. UT2010VC only)





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

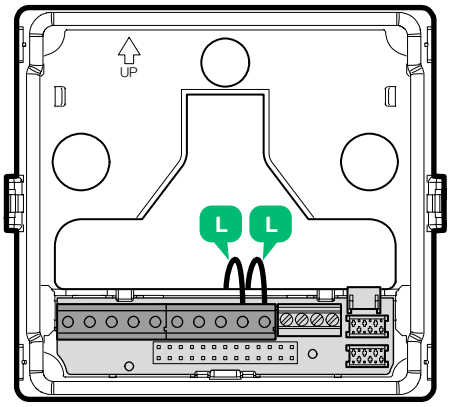
Module connection

For systems with art. UT2020/UT2010VC and power supply unit art. 1210/1210A, the maximum power available for the outdoor entrance panel modules is 3.3 W.

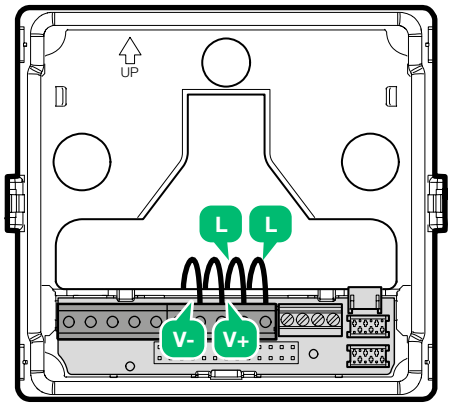
Calculate the total power consumption of the modules in your system configuration using the Consumption table.

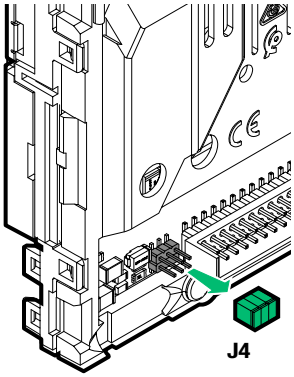
If the total power consumption exceeds 3.3 W, connect a supplementary power supply unit (art. 1595) to the V+ and V- contacts of the outdoor entrance panel, as shown in the figure below (see Connection with separate power supply). In any case, the total absorption must be lower than 16.5 W.

A **powered by art. 1210/1210A**

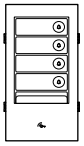


B **powered by additional power supply unit art. 1595**

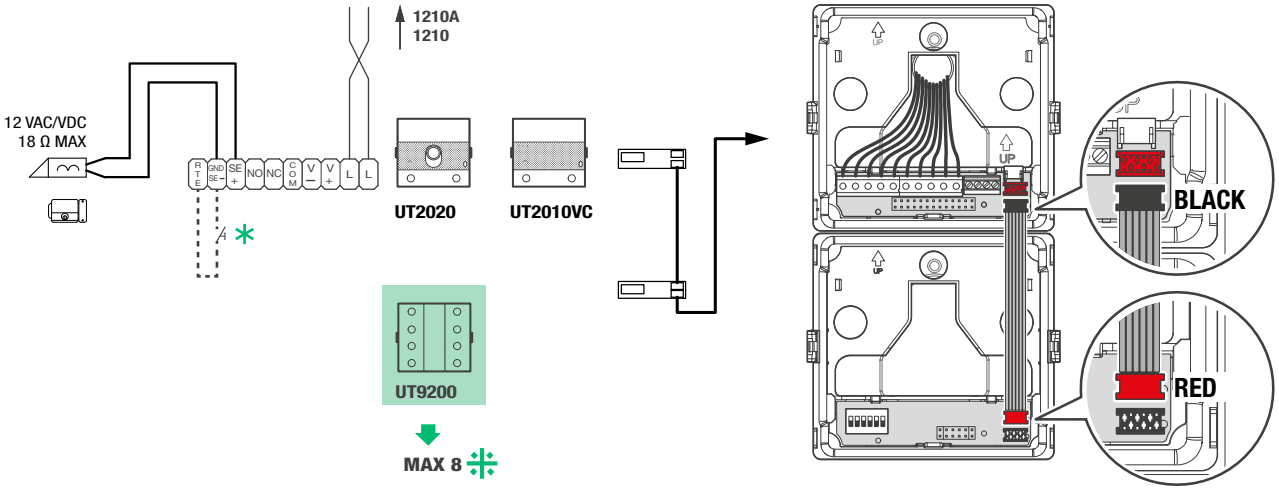




Outdoor entrance panel module consumption table

	Code		Absorption (W)	
	**UT9200**	Call button modules	0.41	
	**UT9240**	Information module	0.41	
	**UT9240M**	Metal information module	0.41	
	**UT9279M**	Number keypad module	1.32	Relays disabled and audio or audio/video module SE output used
			2.47	With 1 bistable relay active
			3.3	With 2 bistable relays active at the same time
	**UT9310M**	Magnetic induction module	8.1	Always needs to be powered by additional power supply unit Art. 1595
	**UT9270**	Touchscreen module	3.3	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	1.98	

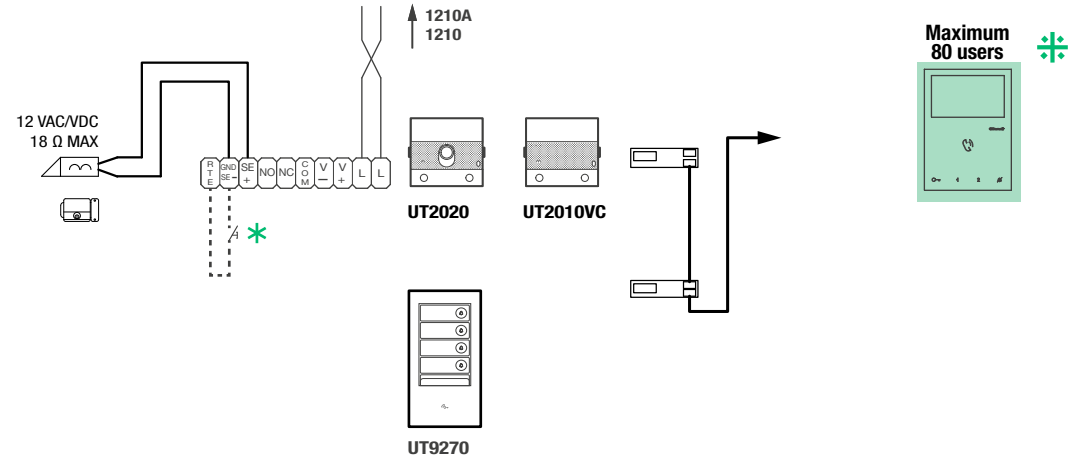
Connection of button modules art. UT9200



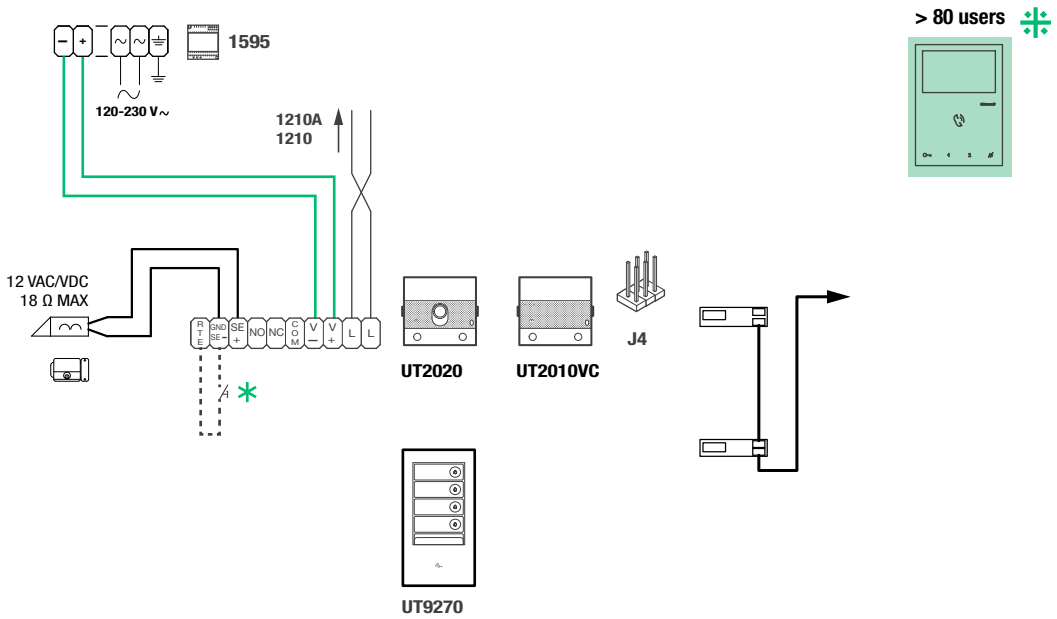
✳ **Max 20 m.** Local door-opener button.

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

Connection of Touchscreen module art. UT9270



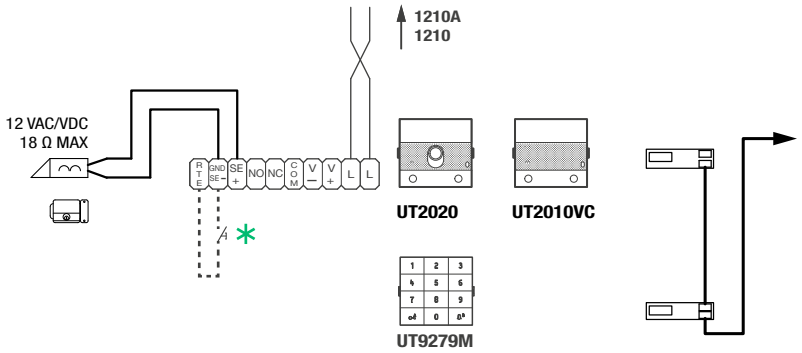
Variant with separate power supply



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

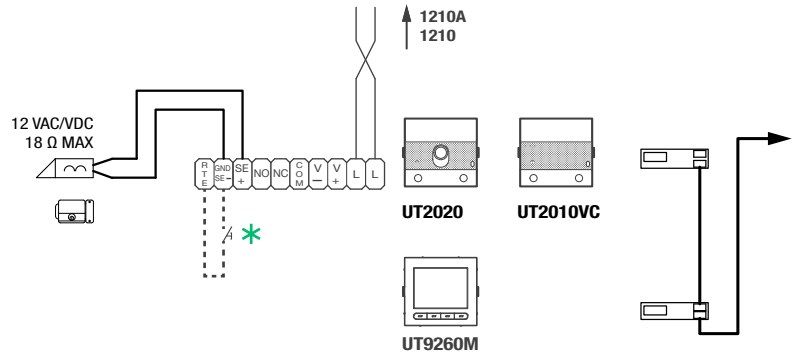
⁜ **For systems with over 80 users, provide an additional power supply**

Connection of number keypad module art. UT9279M



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

Connecting digital call module art. UT9260M



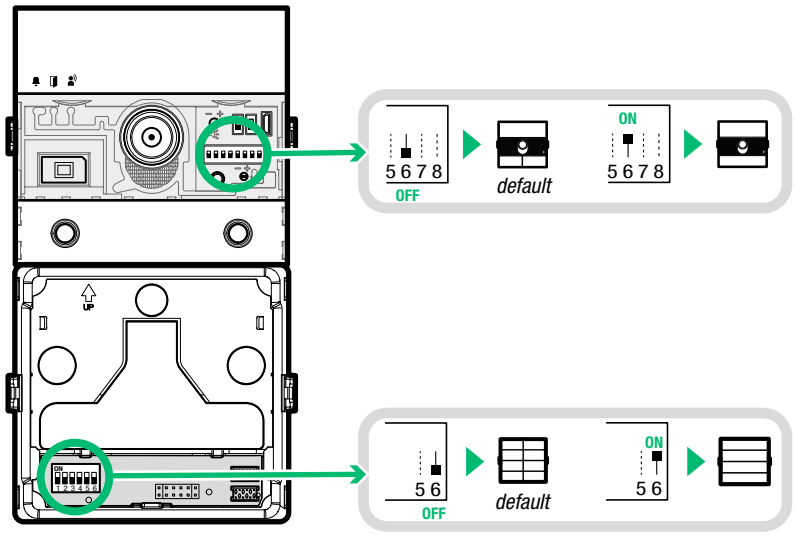
✳ **Max 20 m.** Local door-opener button.

Programming

For correct programming, follow the instructions below in order

I. Configure button type
II. Address button modules
III. Program user codes

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

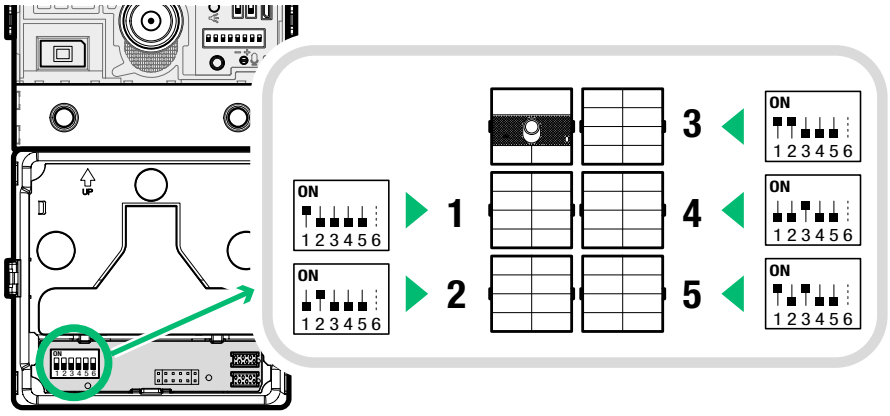


DIP 6: configuring button type:
Single button (**DIP6 ON**).
Dual button (**DIP6 OFF, default**).

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

II Addressing 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 user codes associated with the buttons. All you need to do is assign the same address as before to the new module.



TAB. A

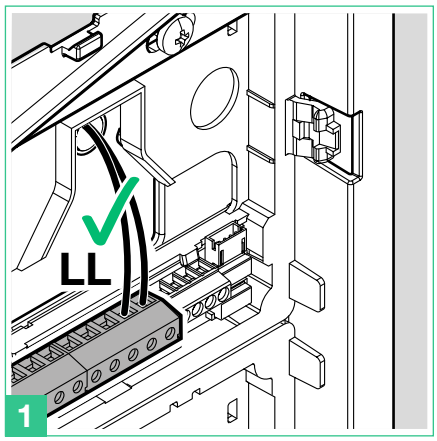
code	DIP ON				
1	1	**12**	3,4	**23**	1,2,3,5
2	2	**13**	1,3,4	**24**	4,5
3	1,2	**14**	2,3,4	**25**	1,4,5
4	3	**15**	1,2,3,4	**26**	2,4,5
5	1,3	**16**	5	**27**	1,2,4,5
6	2,3	**17**	1,5	**28**	3,4,5
7	1,2,3	**18**	2,5	**29**	1,3,4,5
8	4	**19**	1,2,5	**30**	2,3,4,5
9	1,4	**20**	3,5	**31**	1,2,3,4,5
10	2,4	**21**	1,3,5		
11	1,2,4	**22**	2,3,5		

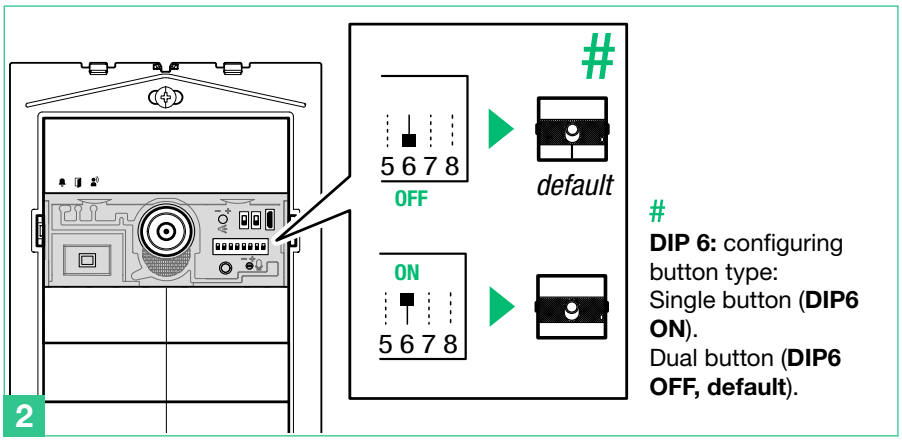
III Programming user codes

There are 2 programming methods:

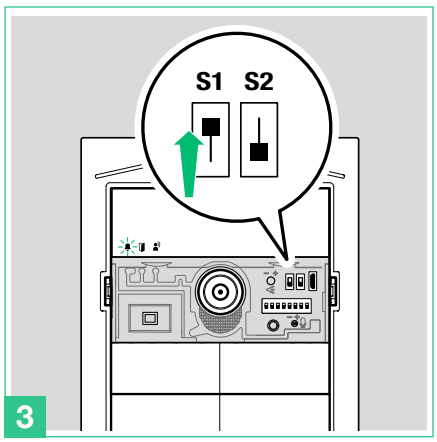
- Programming consecutive smart user codes: allows quick programming of buttons with consecutive user codes (e.g.: 1, 2, 3, 4)
- Programming specific user codes: allows programming of specific user codes (e.g.: 25, 37, 70, 58)

Programming consecutive smart user codes

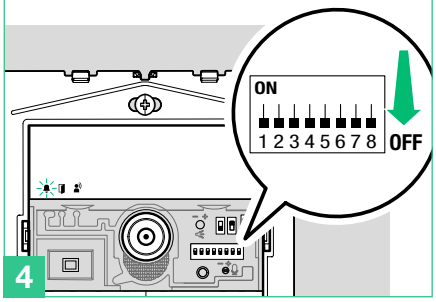




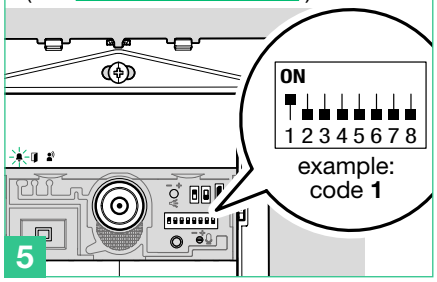
\# **DIP 6:** configuring button type:
Single button (**DIP6 ON**).
Dual button (**DIP6 OFF, default**).



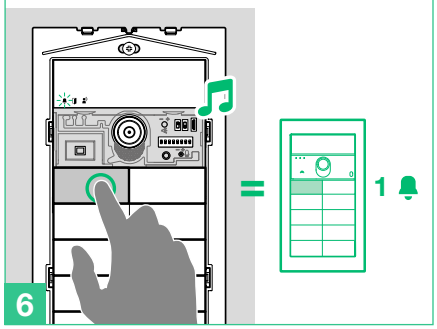
BEFORE you proceed:
Set
ALL DIP-switches to OFF, including DIP 6.



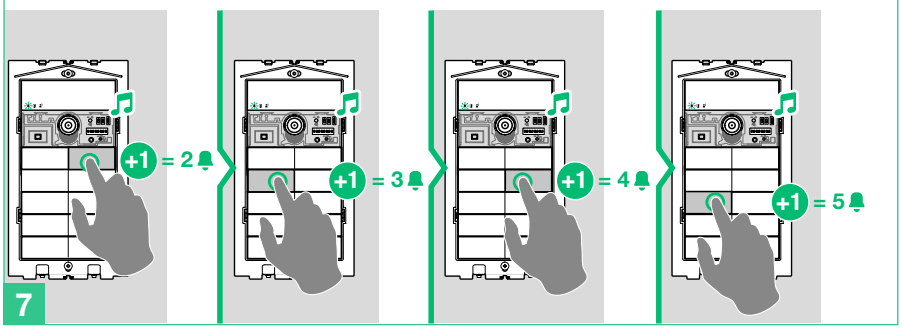
Set the user code of the apartment you wish to call (for example: **1**) using the DIP-switches (see **Table of user codes**)

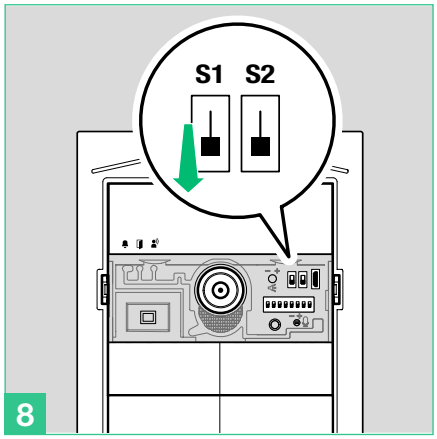


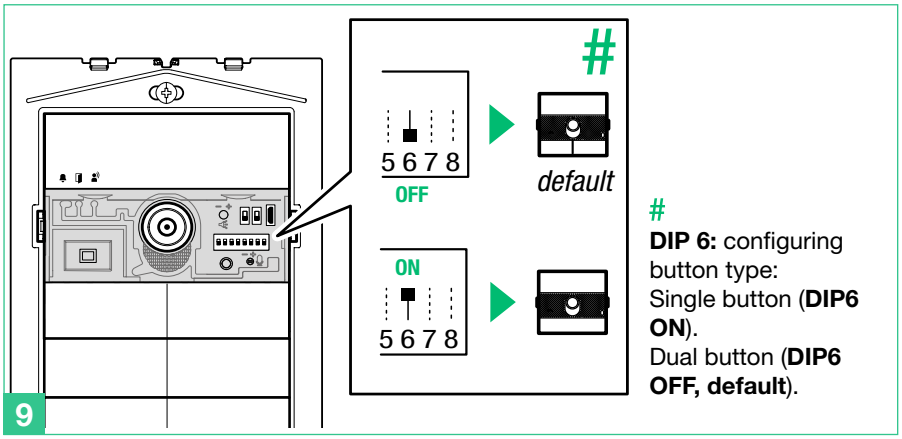
Press the button you want to associate with the user code set using the DIP-switches



Press the following buttons to assign consecutive user codes.

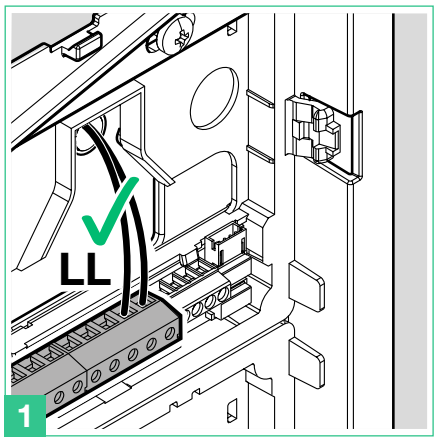




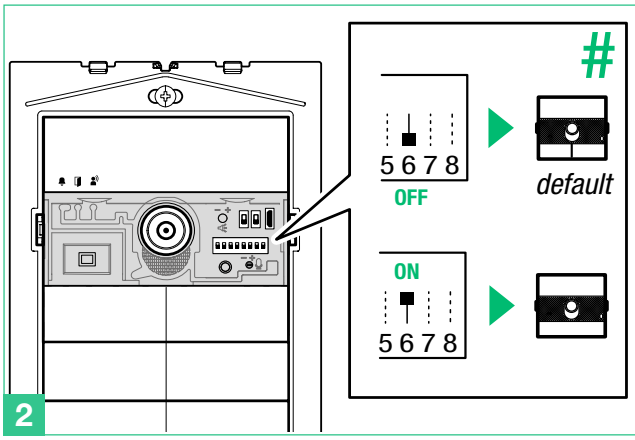


\# **DIP 6:** configuring button type:
Single button (**DIP6 ON**).
Dual button (**DIP6 OFF, default**).

Programming specific user codes

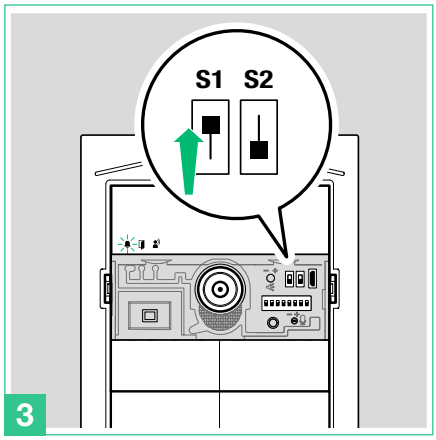


1



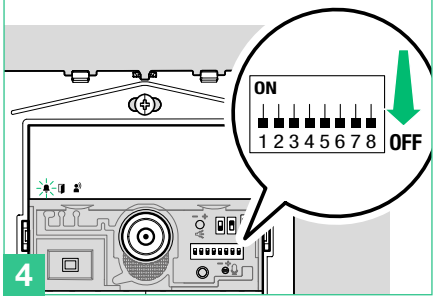
2

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



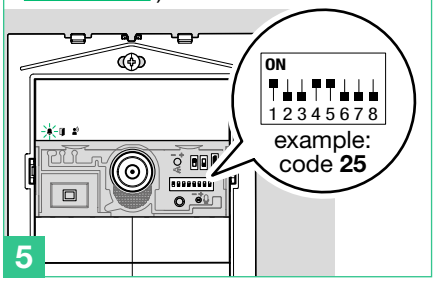
3

BEFORE you proceed:
Set
ALL DIP-switches to OFF, including DIP 6.



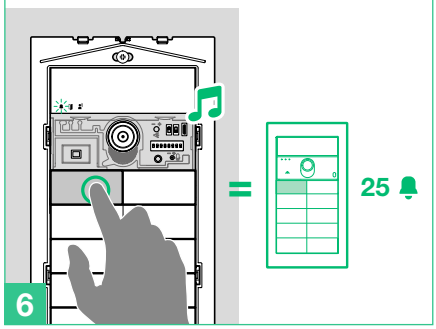
4

Set the user code of the apartment you wish to call (for example: **25**) using the DIP-switches (see Table of user codes)



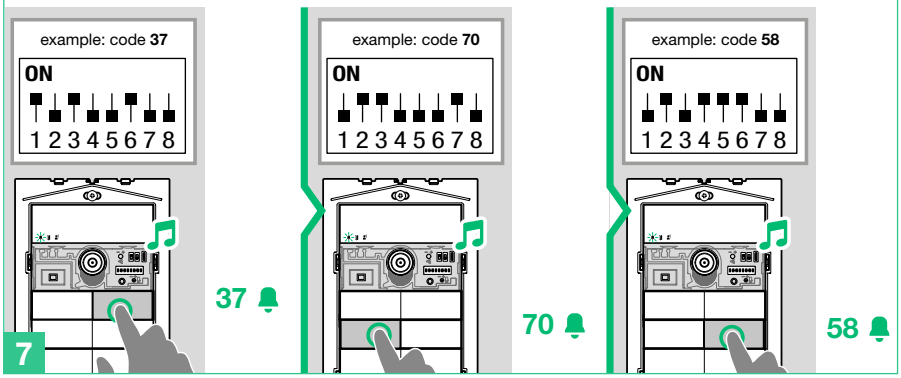
5

Press the button you want to associate with the user code set using the DIP-switches

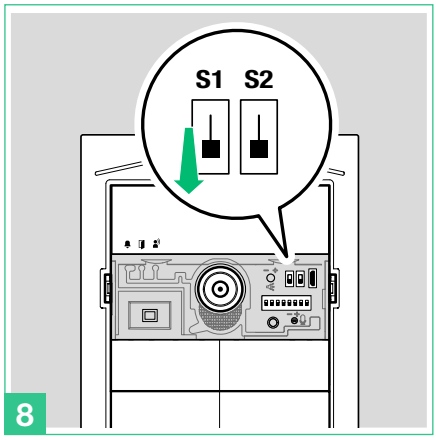


6

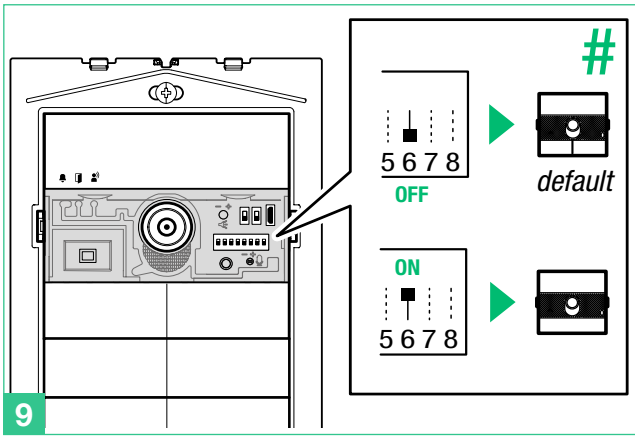
Repeat steps 4 and 5 to assign a specific user code to each button



7



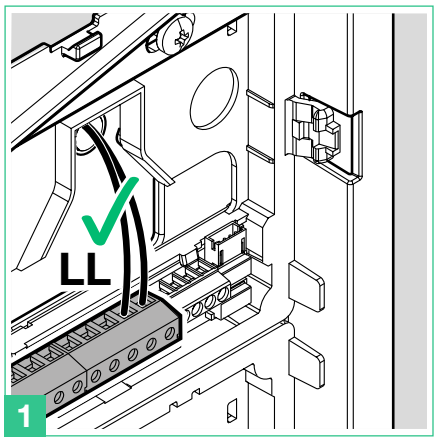
8



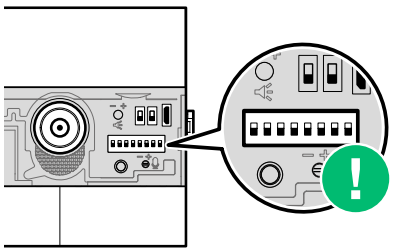
9

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

Special programming via DIP Switch

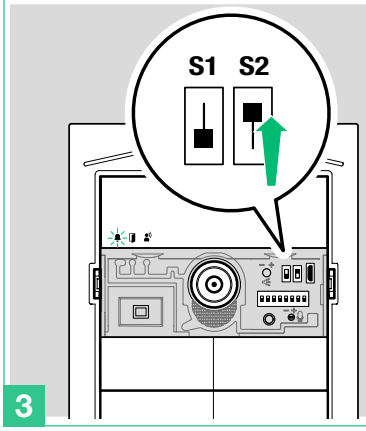


1



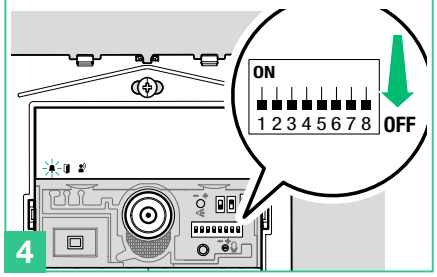
Make a note of the DIP-switch settings

2

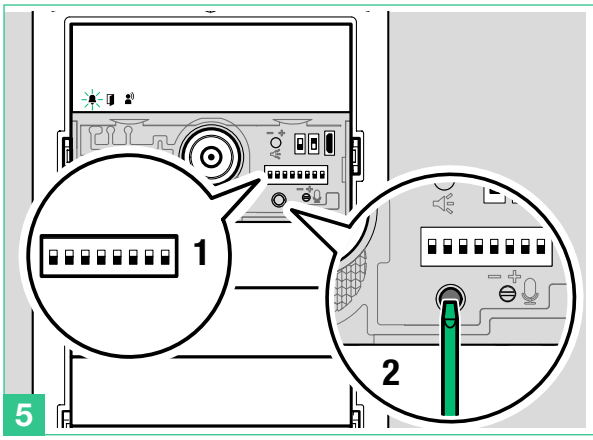


3

BEFORE you proceed:
Set
ALL DIP-switches to OFF, including DIP 6.

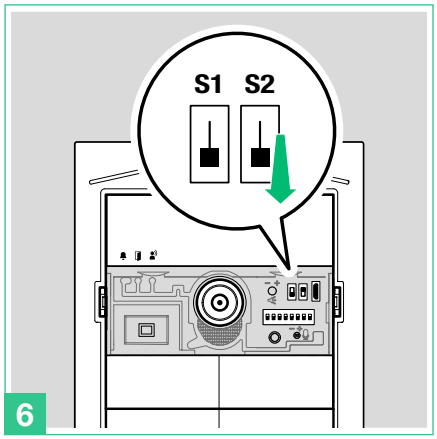


4

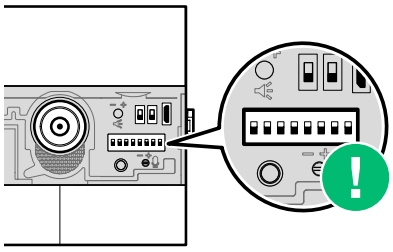


5

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

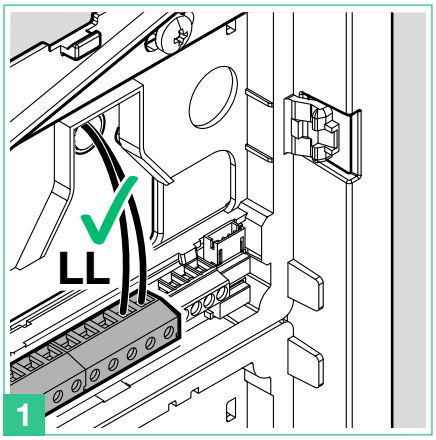
CODE	DIP SWITCHES ON	FUNCTIONS
		Audio-visual messages
193	1,7,8	Czech
195	1,2,7,8	Hebrew
196	3,7,8	Polish
197	1,3,7,8	Catalan
198	2,3,7,8	Galician
199	1,2,3,7,8	Basque
206	2,3,4,7,8	Danish
207	1,2,3,4,7.8	Norwegian
211	1,2,5,7,8	Swedish
215	1,2,3,5,7.8	Italian
216	4,5,7,8	French
217	1,4,5,7,8	Spanish
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. the system should not include art. 1256 in generic actuator mode.**
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

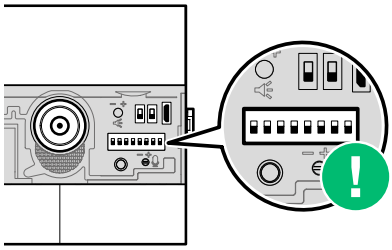
154	2,4,5,8	System busy signalling time: 10 sec **(default)**
155	1,2,4,5,8	System busy signalling time: 300 sec
239	1,2,3,4,6,7,8	Confirmation tone on user call = enabled **(default)**
240	5,6,7,8	Confirmation tone on user call = disabled
243	1,2,5,6,7.8	Reset wait time (after hang-up or after lock-release): 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 via flat cable)
		Reset
115	1,2,5,6,7	***Reset button programming:*** if the modules are addressable (see **Addressing button modules**) this resets the user codes programmed for the buttons
254	2,3,4,5,6,7,8	***Reset special programming:*** restore all the parameters described in this table to their factory values

Twilight sensor

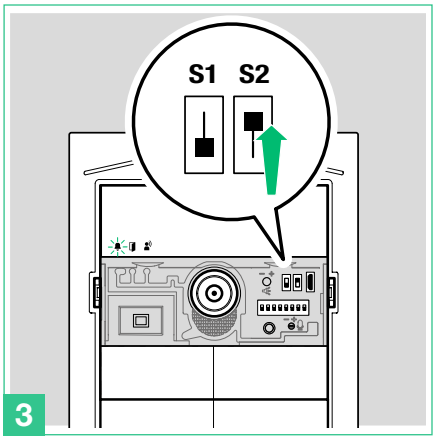
Camera LED lighting and button backlighting management

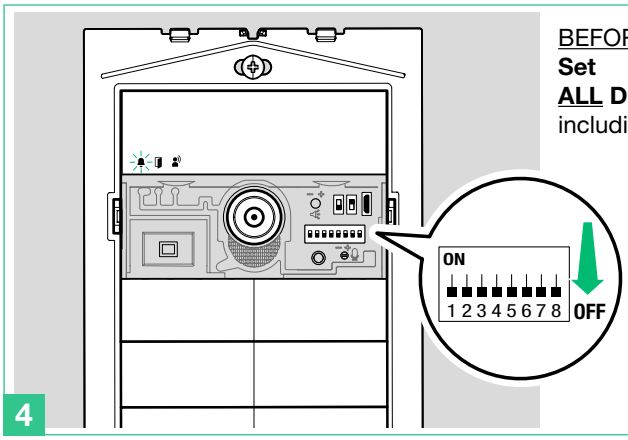
The twilight sensor is in AUTO mode by default: the camera and button LEDs light up at night and switch off during the day. To change the setting to ON (LEDs always on) or OFF (LEDs always off), proceed as follows:



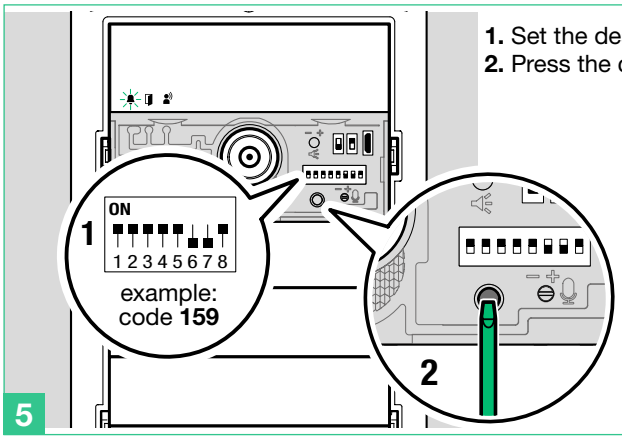


Take note of the DIP-switch settings

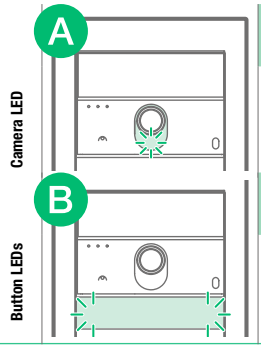




BEFORE you proceed:
Set
ALL DIP-switches to OFF,
including DIP 6.



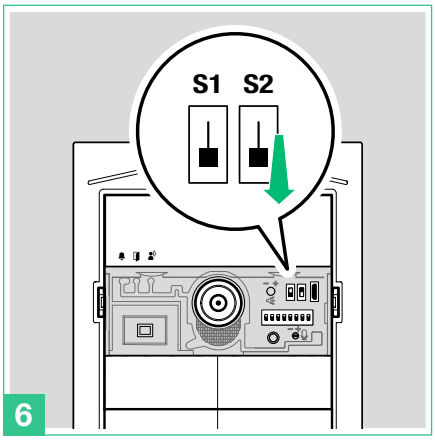
1. Set the desired mode for the camera **(A)** or the buttons **(B)**
2. Press the confirm button

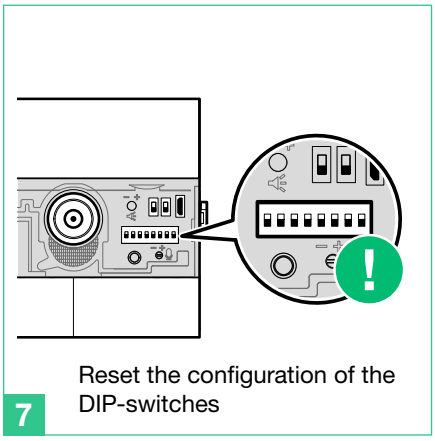


	OFF	ON	AUTO (default)
A	cod. 168	cod. 169	cod. 170
B	cod. 158	cod. 159	cod. 160

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).

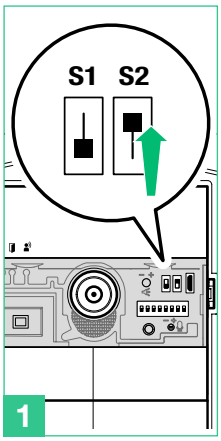
In AUTO mode the twilight sensor checks the ambient light level every 9 minutes; if the measured values exceed the specified minimum/maximum thresholds, it is activated/deactivated accordingly.

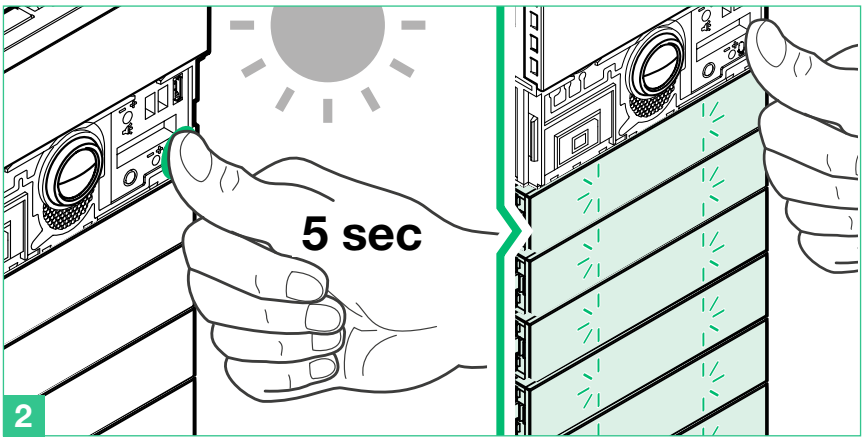


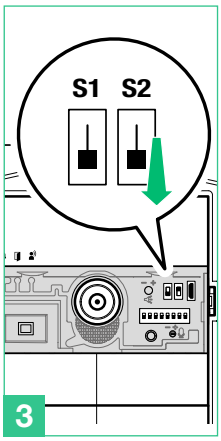


Reset the configuration of the DIP-switches

Checking twilight sensor operation



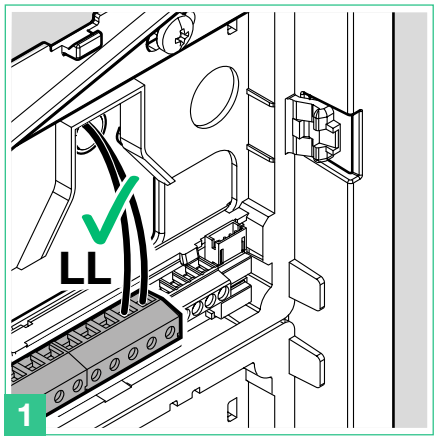


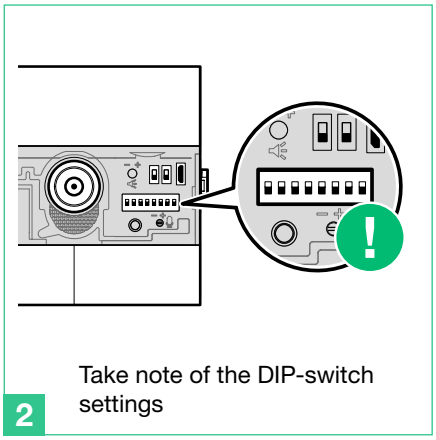


If it is daytime and you want to check AUTO mode operation for the twilight sensor, you can proceed as follows:

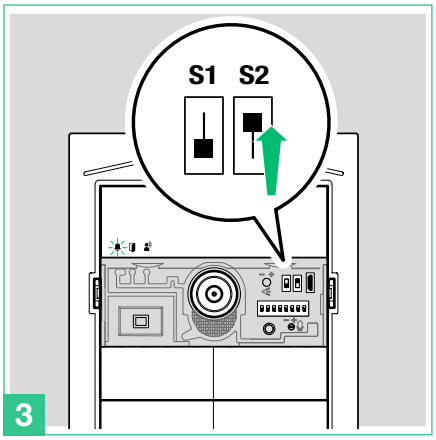
1. Enter programming mode
2. Block the twilight sensor for 5 seconds
   » *If AUTO mode has been set, the camera and button LEDs will come on.*
3. Exit programming

Adjusting the brightness of the button LEDs and the camera light

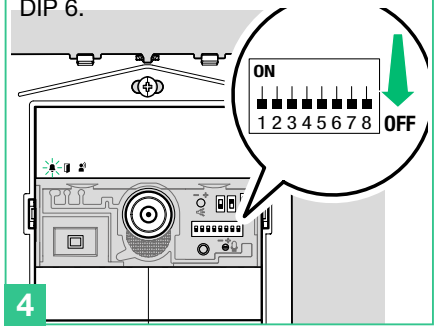


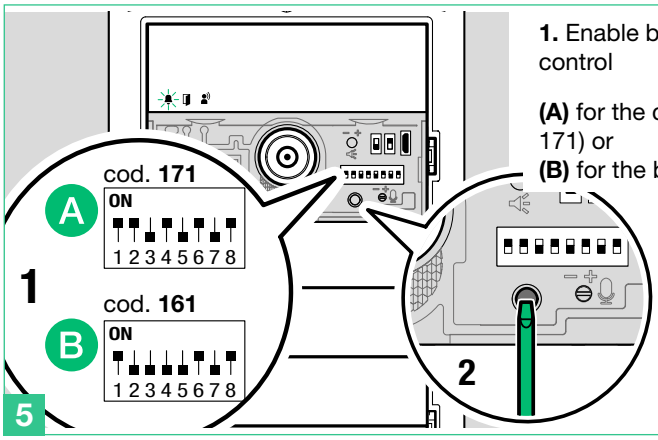


Take note of the DIP-switch settings



BEFORE you proceed:
Set
ALL DIP-switches to OFF, including DIP 6.

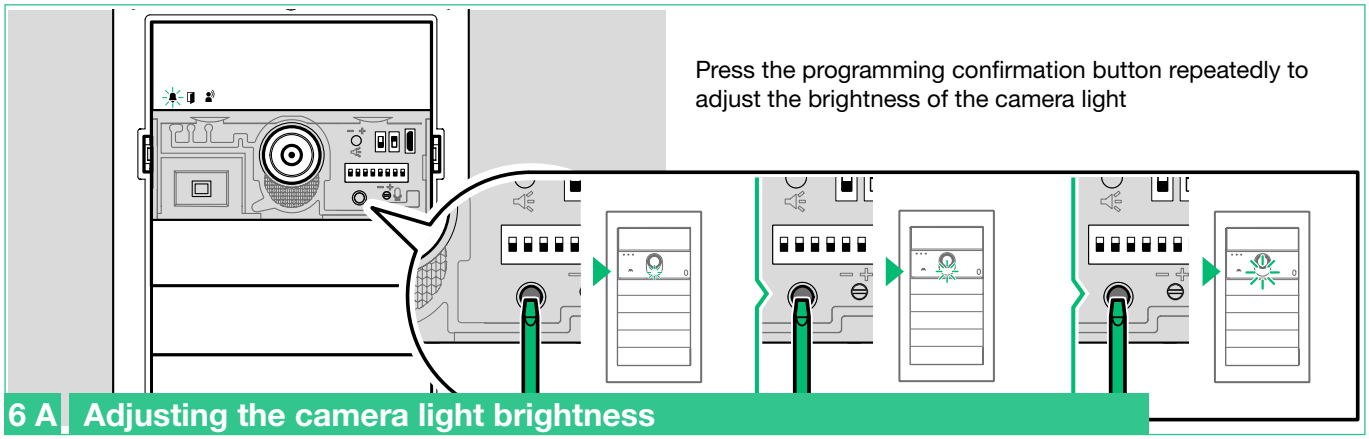




1. Enable brightness control

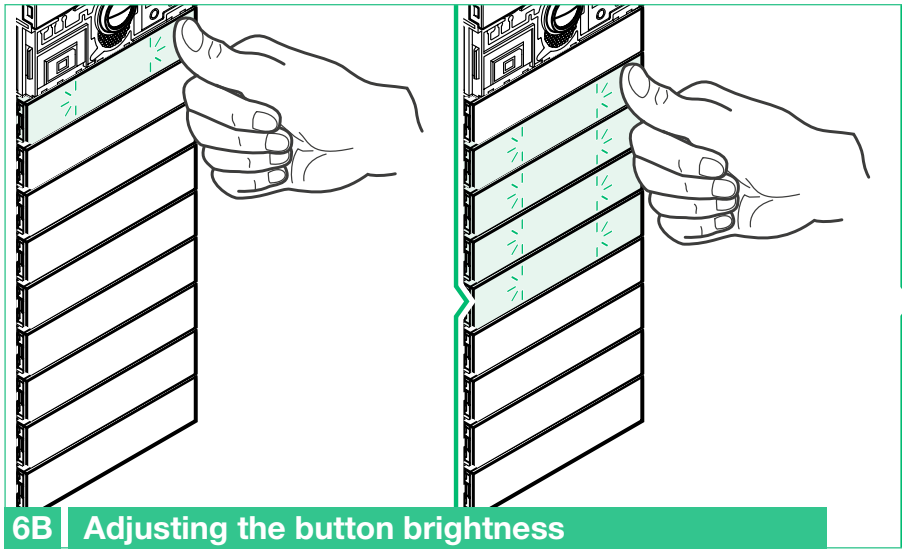
(A) for the camera light (code 171) or
(B) for the buttons (code 161)

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



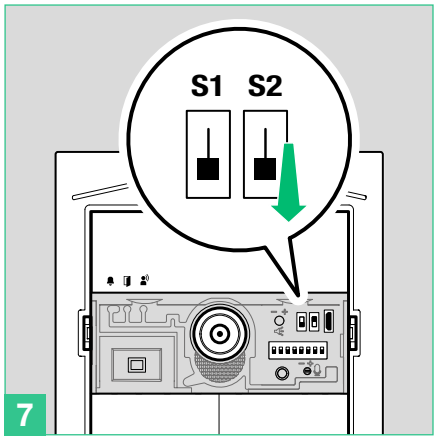
Press the programming confirmation button repeatedly to adjust the brightness of the camera light

6 A Adjusting the camera light brightness

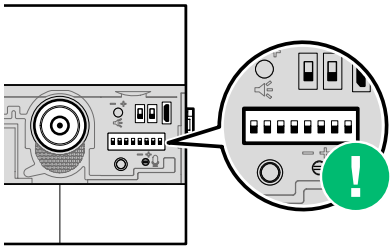


Press a button repeatedly for each module to change the individual brightness level of the buttons

6B Adjusting the button brightness



7



Reset the configuration of the DIP-switches

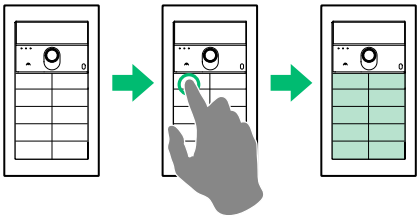
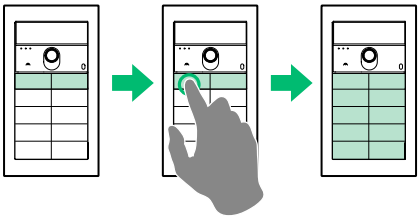
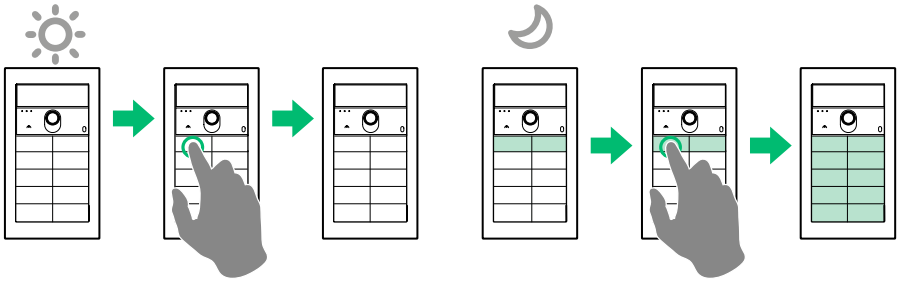
8

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.

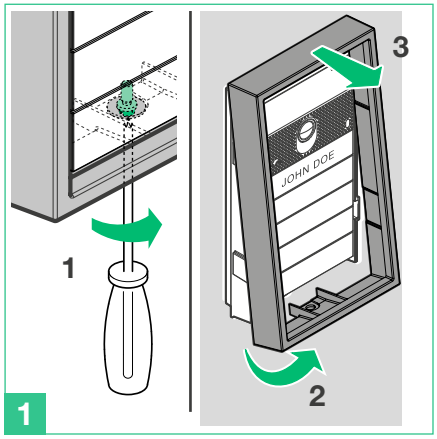
Backlighting management for this button depends on the twilight sensor setting. It is in AUTO mode by default: the LEDs light up at night and switch off during the day. It can be set to ON (LEDs always on) or OFF (LEDs always off).

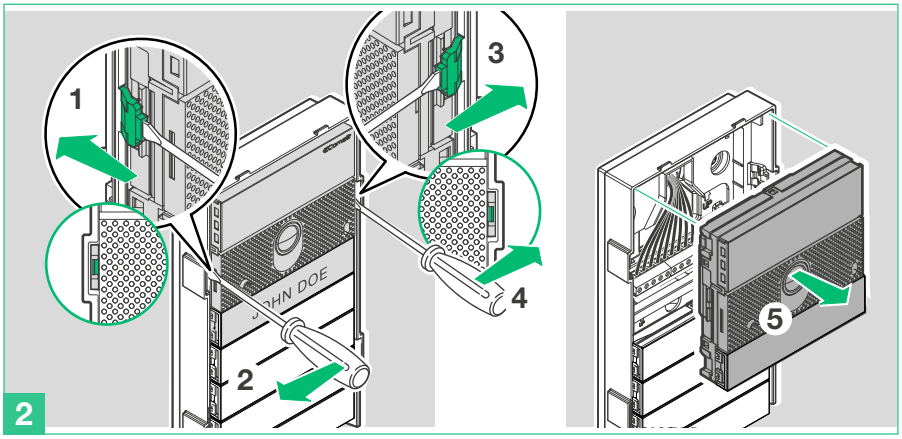
Light-me function behaviour on the basis of the LED backlighting mode

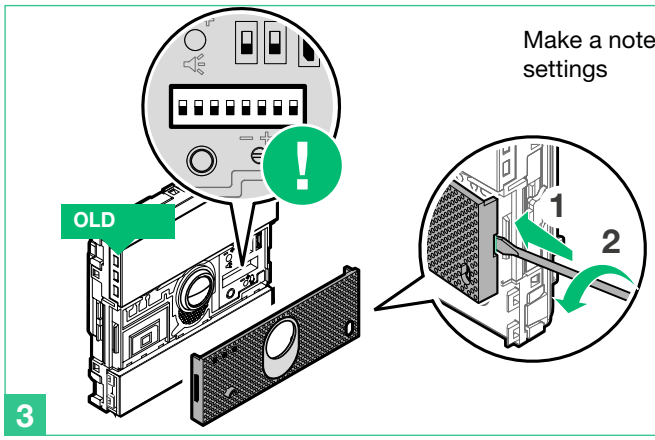
BUTTON BACKLIGHTING	With Light-Me function enabled [code 163]
OFF mode [code 158]	
ON mode [code 159]	
AUTO mode [code 160]	

Replacing the audio/video module with programming restore backup

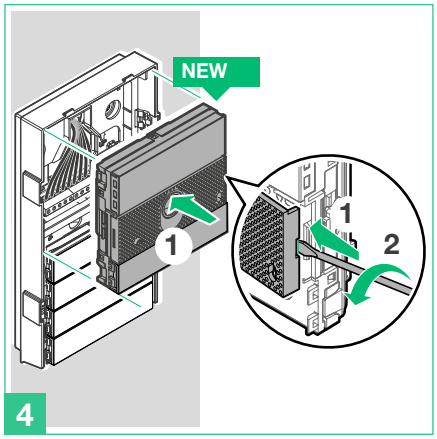
If the audio/video module is replaced, the following instructions must be observed.
The procedure should be completed within one hour of removal of the old module.

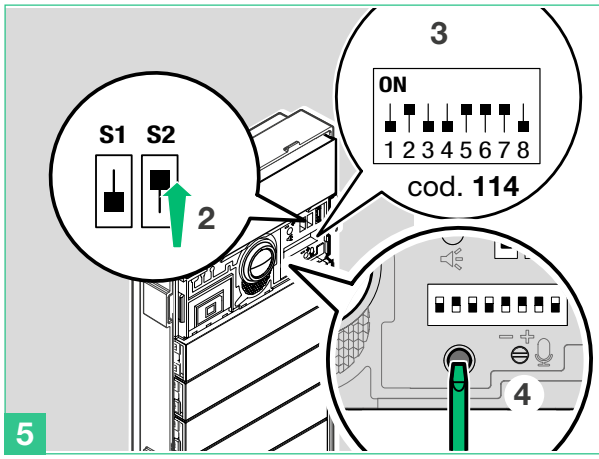






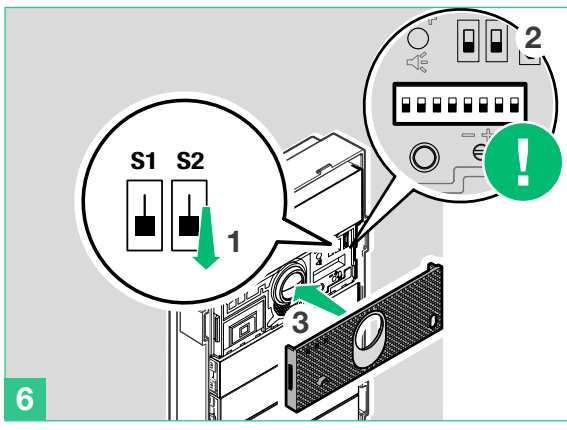
Make a note of the DIP-switch settings





1. Wait for 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 comes on and remains lit 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

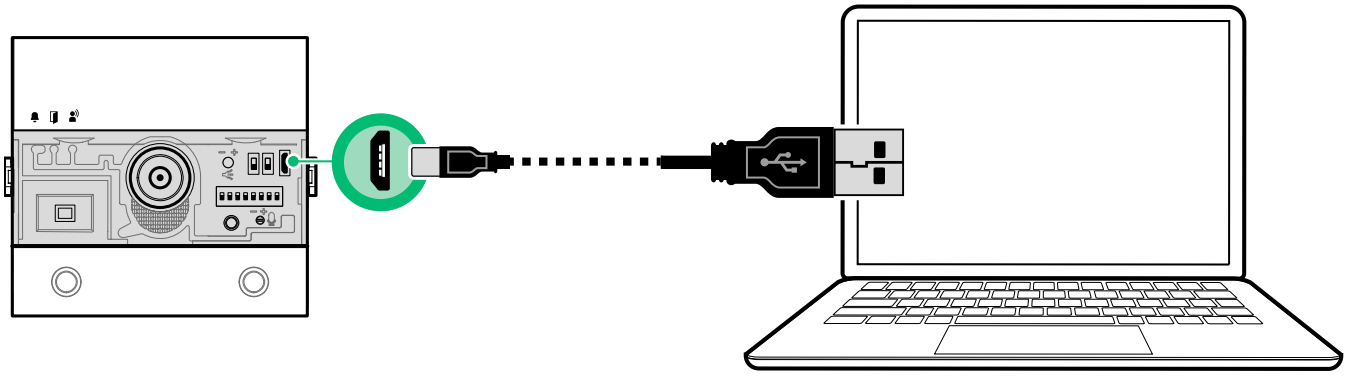
Configuring via PC

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

For example:

- programming the user codes associated with 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

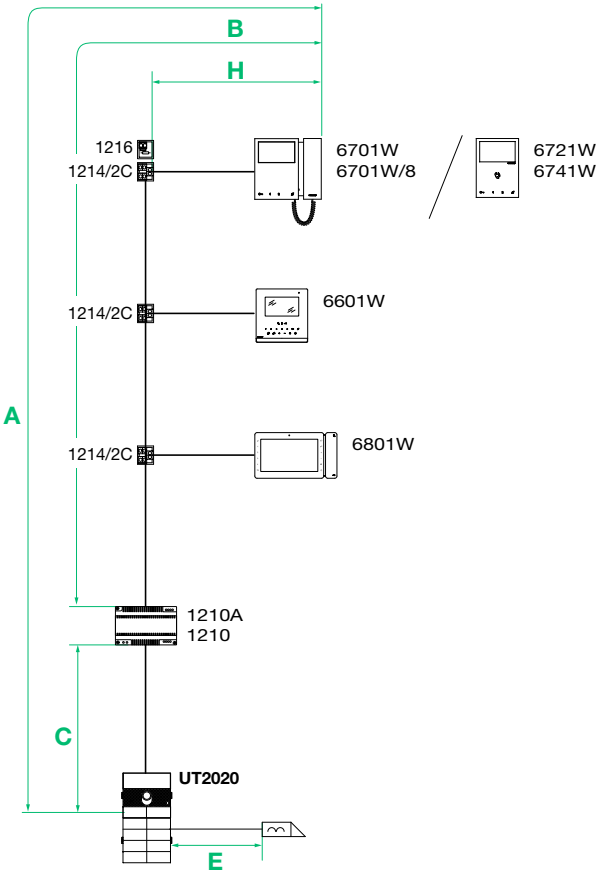
✓ You will need a USB micro-USB cable.

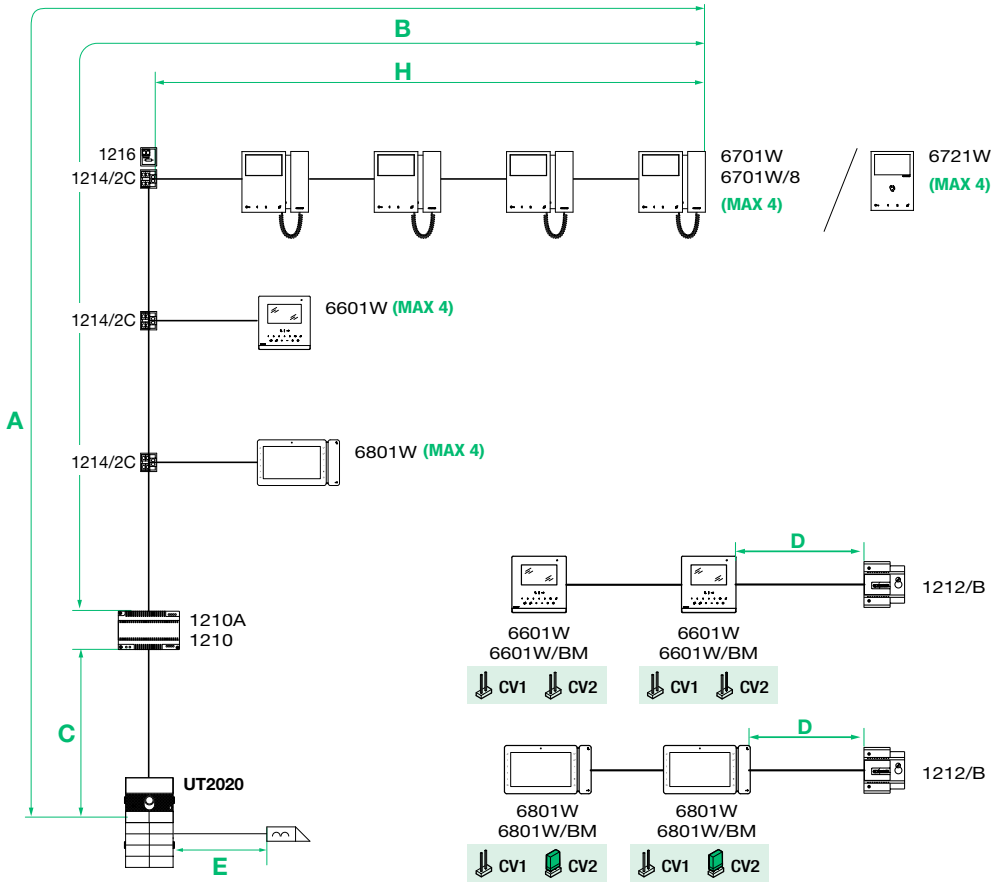


Errors and indications

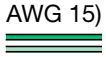
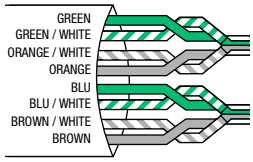
	INDICATION	SOLUTION
RED LED LIT STEADILY + DETERRENT TONE	Line short-circuit	Check connections
	Dual power supply present	Remove jumper J4 on the audio/video module
	Button modules with the same ID	Check the button module IDs
	Programming selector positioning error	Check the position of selectors S1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

System functions





Operating distances

	A MAX		B MAX		C MAX		H MAX		D MAX	E MAX	art. 1216
	6701W 6701W/8 6721W 6741W 6801W	6601W	6701W 6701W/8 6721W 6741W 6801W	6601W	6701W 6701W/8 6721W 6741W 6801W	6601W	6701W 6701W/8 6721W 6741W 6801W	6601W			
Comelit Art. 4577/4579 1 mm² (Ø 1.2 mm AWG 17)	**260 m** (850 feet)	**160 m** (525 feet)	**130 m** (425 feet)	**70 m** (230 feet)	**130 m** (425 feet)	**90 m** (295 feet)	**50 m** (164 feet)	**30 m** (98 feet)	**100 m** (328 feet)	/	
UTP5 cat. 5 0.2 mm² (Ø 0.5 mm AWG 24)	**80 m** (260 feet)	**80 m** (263 feet)	**40 m** (130 feet)	**40 m** (130 feet)	**40 m** (130 feet)	**40 m** (130 feet)	**30 m** (98 feet)	**30 m** (98 feet)	/	/	
0.28 mm² (Ø 0.6 mm AWG 23)	**100 m** (328 feet)	**90 m** (295 feet)	**50 m** (164 feet)	**40 m** (130 feet)	**50 m** (164 feet)	**50 m** (164 feet)	**30 m** (98 feet)	**30 m** (98 feet)	**10 m** (32.5 feet)	/	
0.5 mm² (Ø 0.8 mm AWG 20) 	**140 m** (460 feet)	**110 m** (360 feet)	**70 m** (230 feet)	**50 m** (164 feet)	**70 m** (230 feet)	**60 m** (197 feet)	**30 m** (98 feet)	**30 m** (98 feet)	**25 m** (82 feet)	/	
1 mm² (Ø 1.2 mm AWG 17) 	**200 m** (656 feet)	**140 m** (460 feet)	**100 m** (328 feet)	**70 m** (230 feet)	**100 m** (328 feet)	**70 m** (230 feet)	**40 m** (130 feet)	**30 m** (98 feet)	**50 m** (164 feet)	**30 m** (98 feet)	
1.5 mm² (Ø 1.4 mm AWG 15) 	**80 m** (260 feet)	**60 m** (197 feet)	**40 m** (130 feet)	**30 m** (98 feet)	**40 m** (130 feet)	**30 m** (98 feet)	**30 m** (98 feet)	**30 m** (98 feet)	**100 m** (328 feet)	**50 m** (164 feet)	
UTP5 cat. 5 0.2 mm² (Ø 0.5 mm AWG 24) **MULTI PAIR CABLE**⁜ 	**260 m** (850 feet)	**240 m** (786 feet)	**130 m** (425 feet)	**120 m** (393 feet)	**130 m** (425 feet)	**120 m** (393 feet)	**50 m** (164 feet)	**60 m** (197 feet)	/	/	

⁜ UTP cable with multi-cable connection: FOLLOW THE COLOURS SHOWN IN THE DIAGRAM!

Maximum system expansion

Devices	 6701W(/BM) 6701W/8	 6721W(/BM)	 6601W(/BM)	 6801W(/BM)	 6741W(/BM)
Maximum number of door entry monitors that can be powered from art. 1210A	**100**	**100**	**90**	**100**	**100**✳ (Building mode) **10**✳ (Kit mode)
Call repetition devices that can be used	**1229A**	**1229A**	**1229A** **1229** #	**1229A** **1229** #	**1229A**

✳ For further information, refer to the manual for Art. 6741W

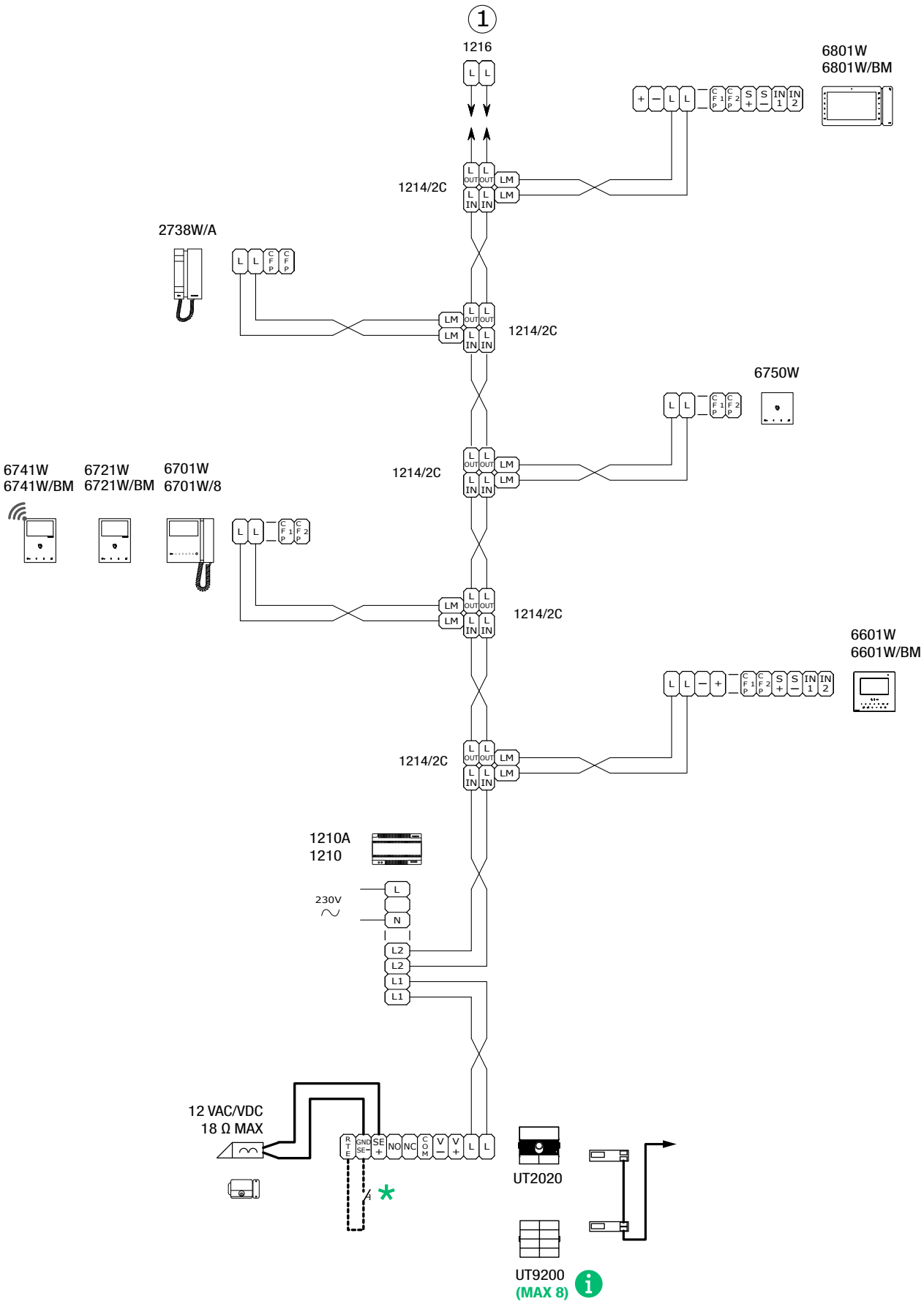
For installation information and limits, consult the relevant manual

Maximum expansion per apartment

Devices	 6701W(/BM) 6701W/8	 6721W(/BM)	 6601W(/BM)	 6801W(/BM)	 6741W(/BM)
Maximum number of internal units (including call repetition devices) with the same user code	**4**	**4**	**4**	**4**	**1** ✳
Maximum number of main door entry monitors powered from the riser	**1**	**1**	**1**	**1**	**1**
Maximum number of main door entry monitors that can be powered by Art. 1212/B	**/**	**/**	**3**	**3**	**/**

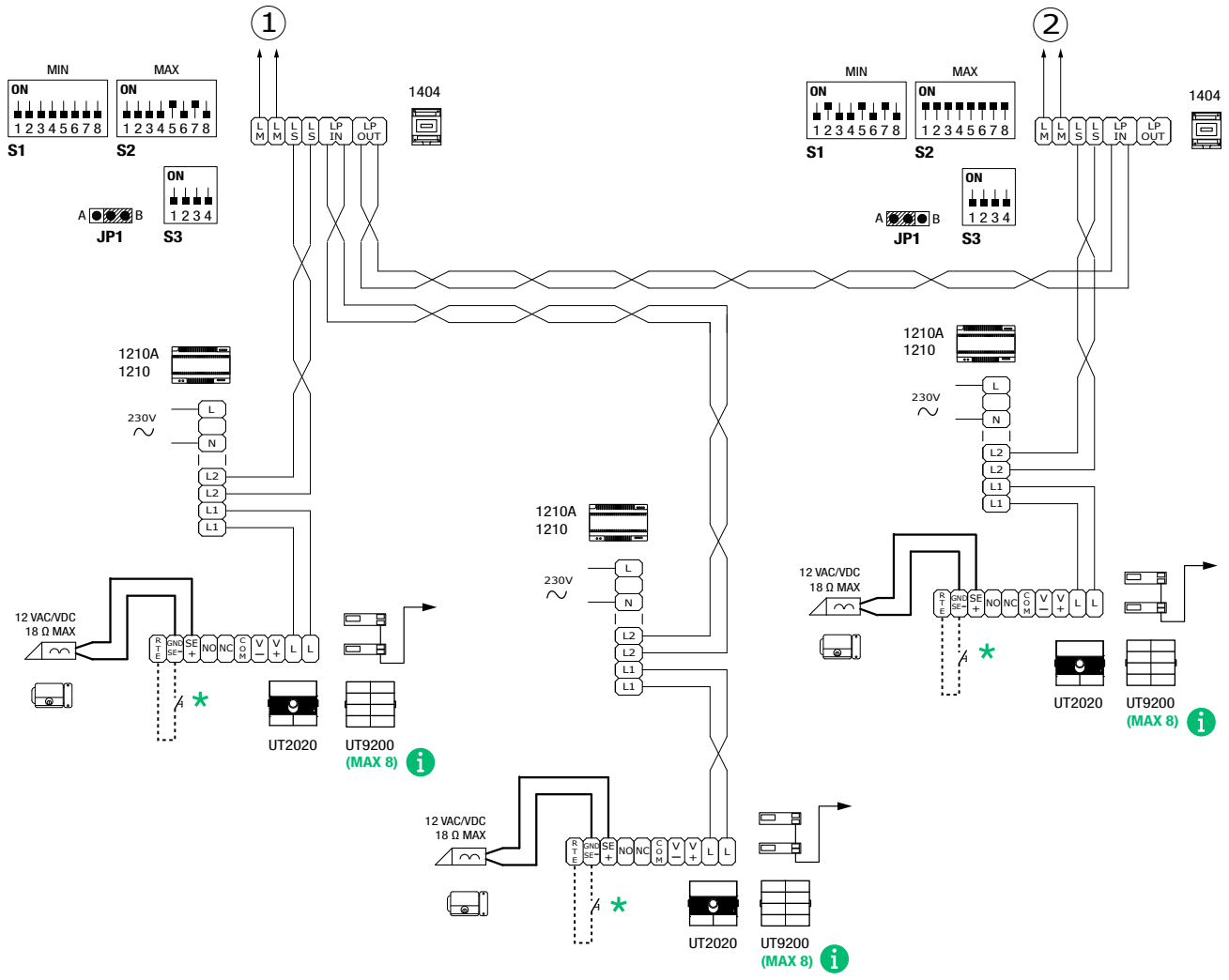
✳ A **single 6741W(/BM) door entry monitor** can be installed for each user code; this will also be the only main door entry monitor.
In Building mode: up to 3 secondary door entry monitors can also be added (6701W (/BM), 6701W/8, 6721W (/BM), 6801W (/BM), 6601W (/BM)).
In Kit mode: up to 1 door entry monitor can also be added (6701W (/BM), 6701W/8, 6721W (/BM), 6801W (/BM), 6601W (/BM)).

Wiring diagrams



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

For external unit configurations (model, number and type of modules) other than those indicated in the diagrams, please refer to the **Outdoor entrance panel module consumption table**



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

For external unit configurations (model, number and type of modules) other than those indicated in the diagrams, please refer to the Outdoor entrance panel module consumption table

System performance and layouts

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

- Simplebus2 audio/video

Table of user codes

Code	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
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79	1,2,3,4,7
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87	1,2,3,5,7
88	4,5,7
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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	5,6,7
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

* NOTE: Code 240 is reserved for the porter switchboard

4th edition 09/2023
code 2G40003061

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