MYCOMELIT: THE APP FOR PROFESSIONALS
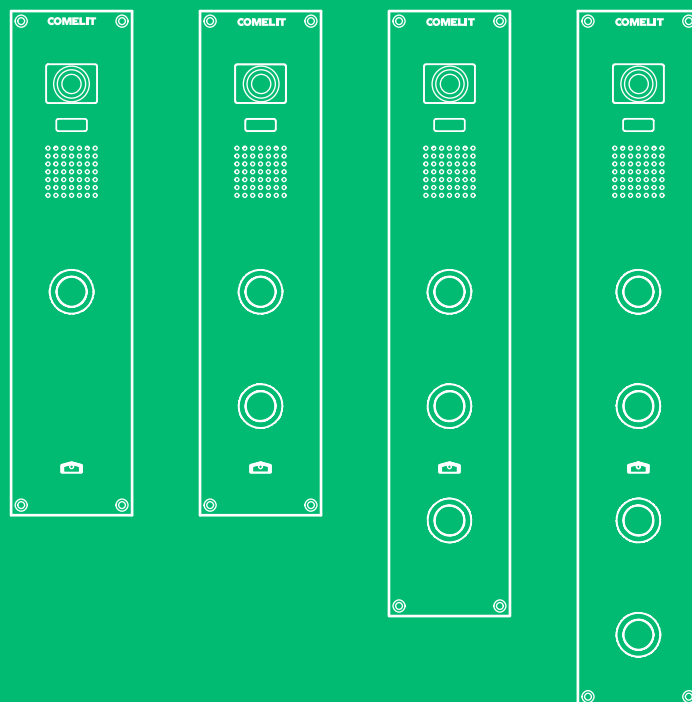

FREE DOWNLOAD

Download on the **App Store**

GET IT ON **Google Play**

Adam entrance panel with 1-2-3-4 buttons
Simplebus 2 System

art. AD2101, AD2102, AD2103, AD2104

COMELIT
W I T H · Y O U · A L W A Y S

Warning

Intended use

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.

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.

Wires

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).

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 repair work must be carried out

• for the products themselves, exclusively by **Comelit Group S.p.A.**,

• for systems, by qualified technical personnel.

Disclaimer

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 / Instruction sheet at any time and without prior notice.

The brands and commercial names appearing in this publication remain the property of their respective owners.

This product falls within the scope of European product directive 2012/19/UE concerning the management of waste electrical and electronic equipment (WEEE). The device should not be disposed of as unsorted domestic waste as it consists of various materials which can be recycled at relevant premises. Contact your local authority to find out the location of the environmental companies best suited to receiving the product for disposal and subsequent proper recycling. The product is not potentially harmful to human health, as it does not contain toxic substances as specified in Directive 2011/65/EU (RoHS), but if abandoned in the natural environment may negatively impact the ecosystem. Read the instructions carefully before using the product for the first time. We advise against using the product for any purpose other than its intended use, as improper use may present the risk of electric shocks.

This symbol on the product label indicates that the product complies with the standards concerning waste electrical and electronic equipment. Improper use of the equipment, or abandoning it in the natural environment, may be punished by law.

Table of contents

The buttons are pre-programmed to call door entry monitors with call code 1/2/3/4.

▶ To customise the call codes, please refer to **Customising the call code**

AD2101

1 🔔 → 1

AD2102

2 🔔 → 2
1 🔔 → 1

AD2103

3 🔔 → 3
2 🔔 → 2
1 🔔 → 1

AD2104

4 🔔 → 4
3 🔔 → 3
2 🔔 → 2
1 🔔 → 1
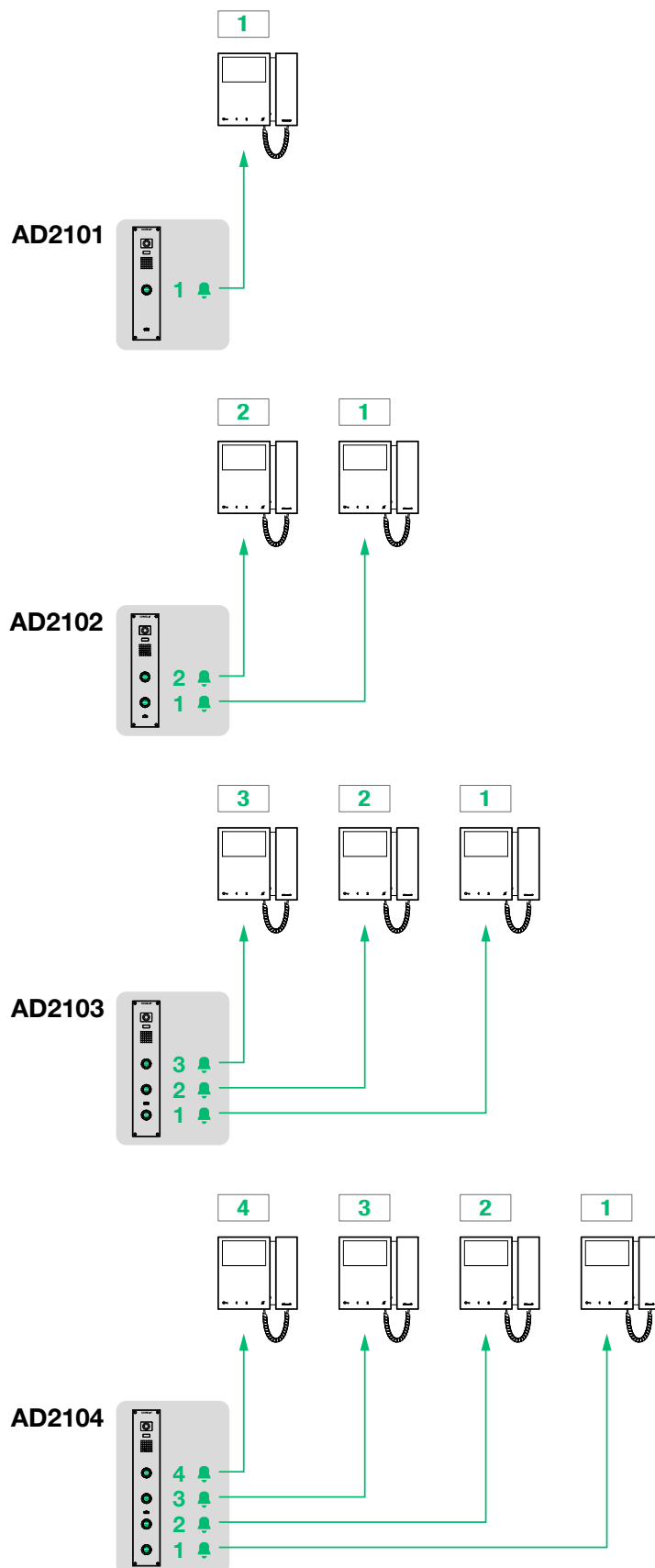
Description

*Adam series flush-mounted monolithic audio/video entrance panel. Digital 2-wire Simplebus 2 system. The front panel is made using anodised aluminium, offering resistance to atmospheric agents and acts of vandalism. Wide-angle camera. The buttons are pre-programmed to call door entry monitors with call code 1/2/3/4. The total width is just 60 mm, an extremely compact size which allows direct installation of the entrance panel on door jambs in addition to traditional wall installation. Also ideal for renovation projects. Nameplates art. **AD9201** and information cards art. **AD9202**, which can be customised by the user, can also be added.*

AD2101

AD2102

AD2103

AD2104
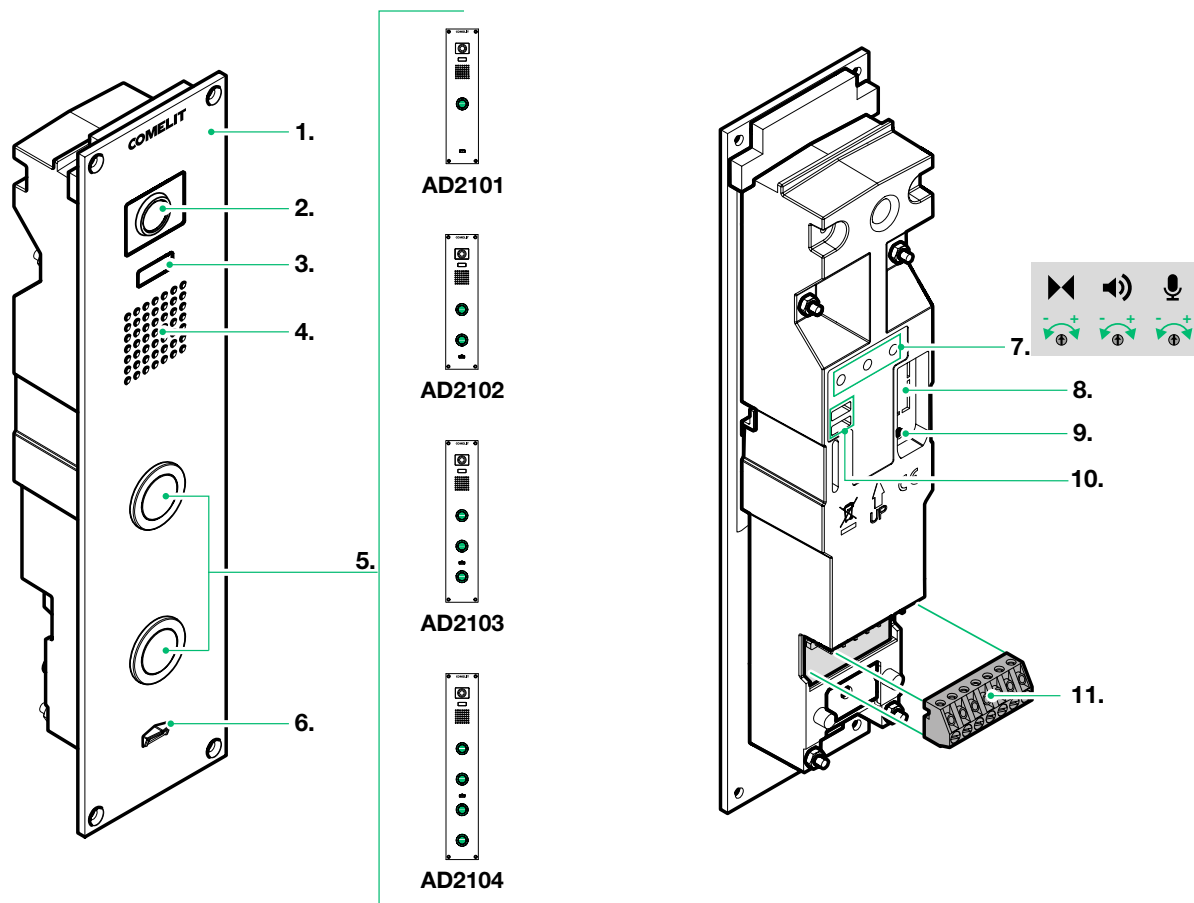
1. Anodised aluminium cover
2. Wide-angle camera
3. Camera lighting LED
4. Loudspeaker
5. Call buttons
6. Microphone

7. Adjustment trimmer

   ▶◀   audio balancing
   🔊   speaker volume
   🎤   microphone volume

8. Programming **DIP-SWITCHES**

9. **CNF** special programming confirmation button

10. **S1** Button programming selector
    S2 Special programming selector

11. Terminals

    LL bus line connection
    RTE local lock-release input
    GND SE- RTE and electric door lock input reference negative
    SE+ electric door lock connection
    C NO relay contacts

Technical specifications

AD2101 AD2102 AD2103 AD2104

250 mm 250 mm 300 mm 345 mm

60 mm 37 mm
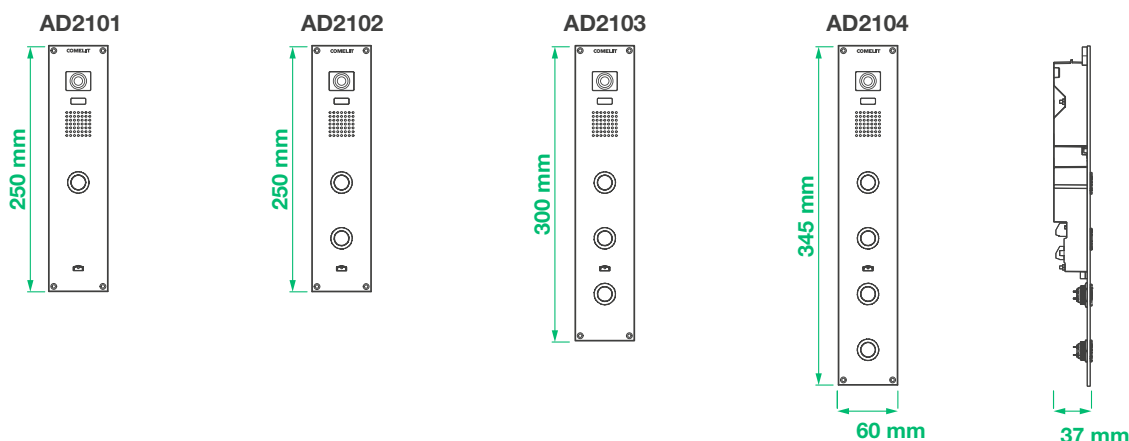
GENERAL DATA	
Type	Complete unit
Product colour	Aluminium
Coating material type	Polycarbonate, Anodised aluminium
Flush mounting	Yes
Surface mounting	Yes, with specific accessory

CAMERA FEATURES	
Camera	Colour
Sensor type	1/4" CMOS
Fixed lens dimensions (mm)	2.6
Viewing angle (H x V - °)	96 x 79 (diagonal 108°)
Sensitivity (lux)	0.1 (colours)
VIdeo resolution (H x V - pixel)	640x480

ELECTRICAL SPECIFICATIONS	
Type of power supply	Power supply via video entry bus
Power supply voltage	33 VDC
Absorption in standby (W)	1
Maximum absorption (W)	8.25

| HARDWARE SPECIFICATIONS	
Call type	Buttons
Type of buttons	Mechanical
Removable terminals	Yes
Number of inputs (no.)	1
Number of outputs (no.)	2
Output type	SE: 4A unlock pulse, maintenance current 200 mA for 12 VAC/DC door locks (maximum impedance 18 Ohm), Relay (C-NO, 4A@12-24 VAC/VDC)

SETTINGS	
Loudspeaker volume	Yes
Mic volume	Yes

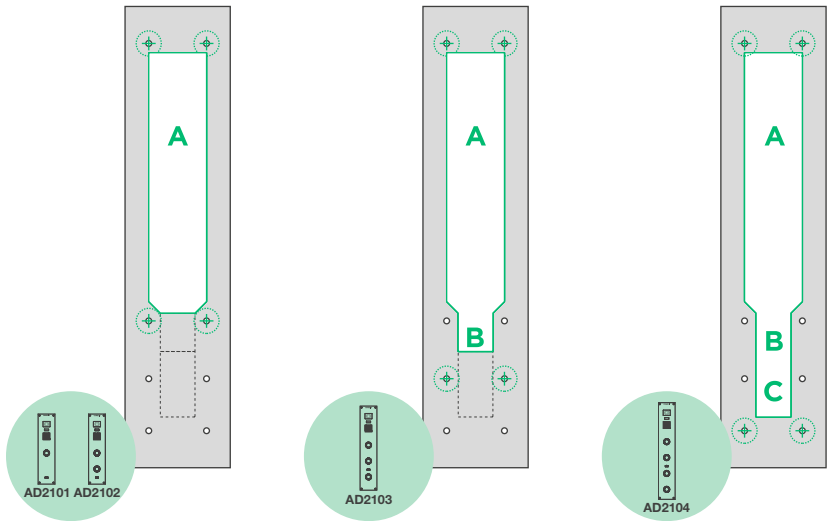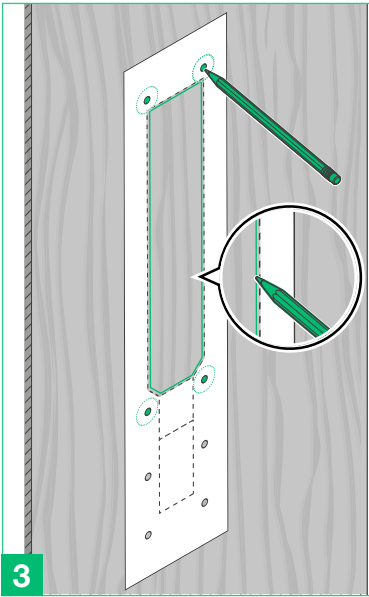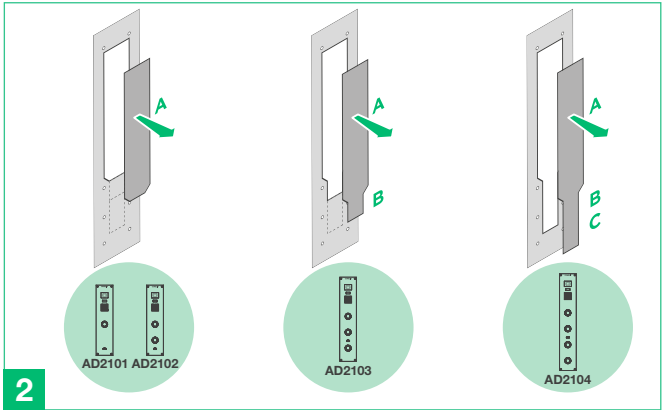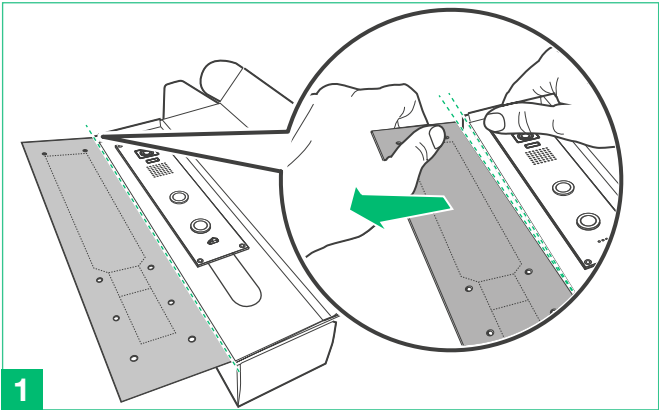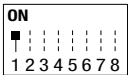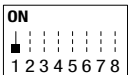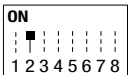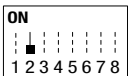| ENVIRONMENTAL AND CONFORMITY SPECIFICATIONS	
IP protection rating	IP54
IK anti-vandal protection rating	IK08
Operating temperature (°C)	-25 to 55
Operating humidity (max. RH) (%)	25 to 95
Environmental class	IV
CE certification	RoHS II - 2011/65/EU (EN IEC 63000:2018), EMC 2014/30/EU (EN 61000-6-1:2007, EN 61000-6-3:2007+A1:2011)

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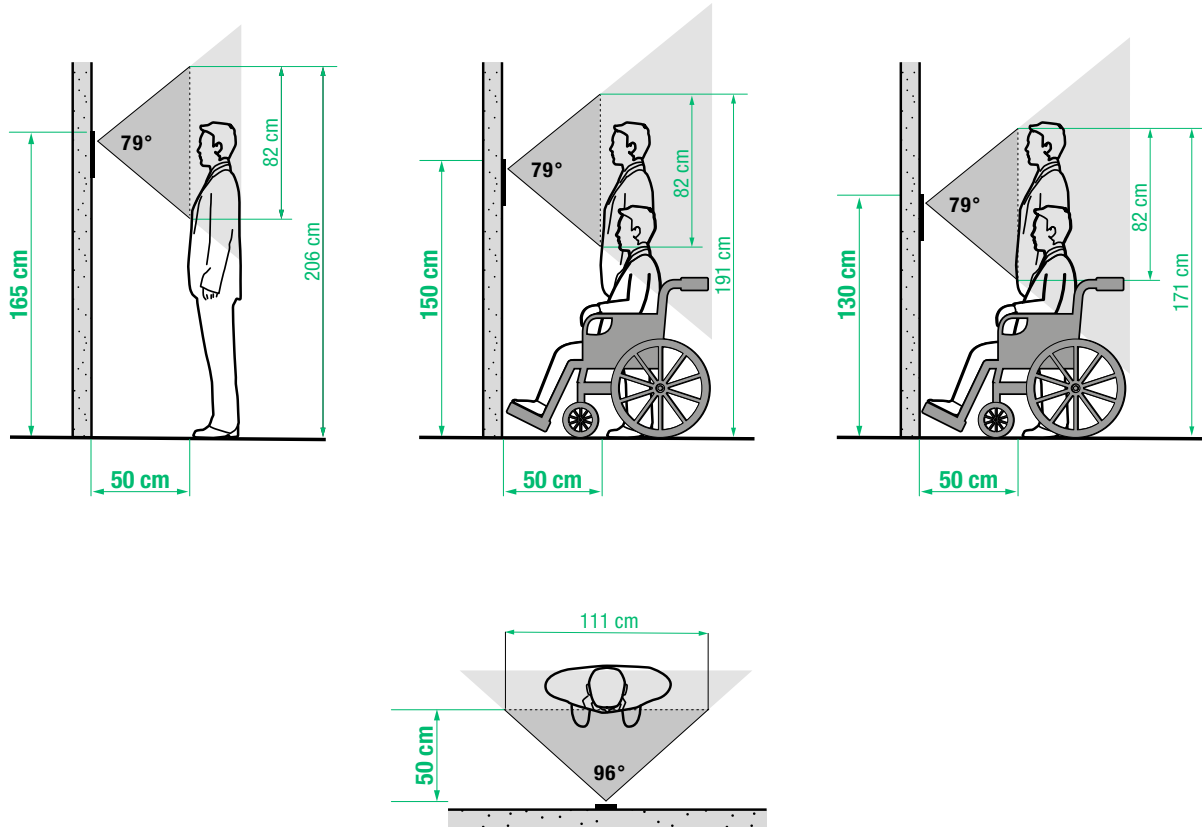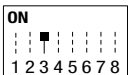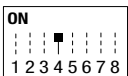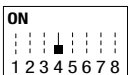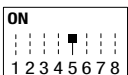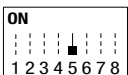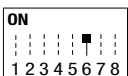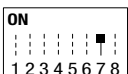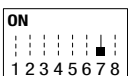
The camera must not be installed in front of light sources, or in places where the filmed subject is against the light. In dim environments, we recommend additional lighting is provided.

Installation

1

AD2101 AD2102   AD2103   AD2104

2

A   A   A

B   B

C

AD2101 AD2102   AD2103   AD2104

3

4

1

2

5

6

7

ENTRANCE PANEL INFO PANEL

AD9202 #

1

ENTRANCE PANEL NAMEPLATE

AD9201 #

1

1

2

15

2

JOHN SMITH

2

ALBERTO ROSSI

Customisation to be performed by the user

15   JOHN SMITH   ALBERTO ROSSI

OPTIONAL
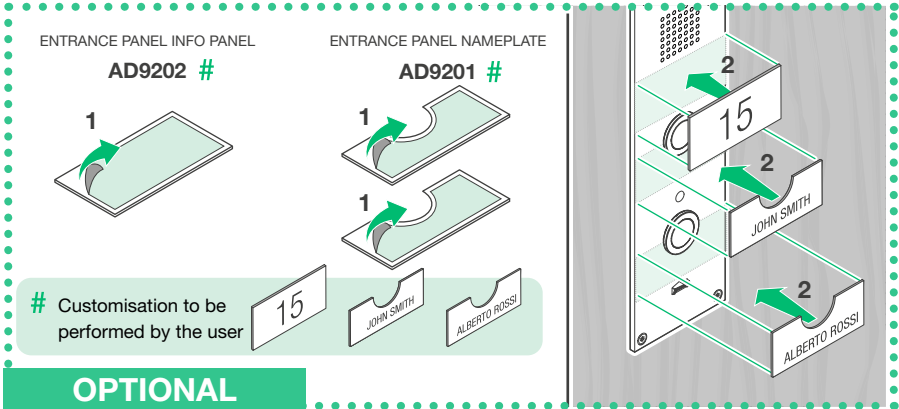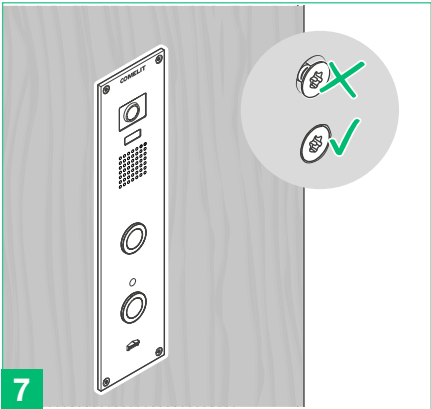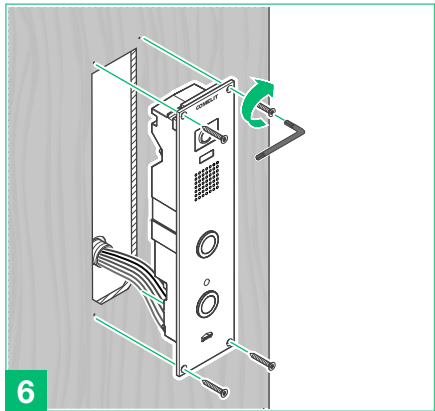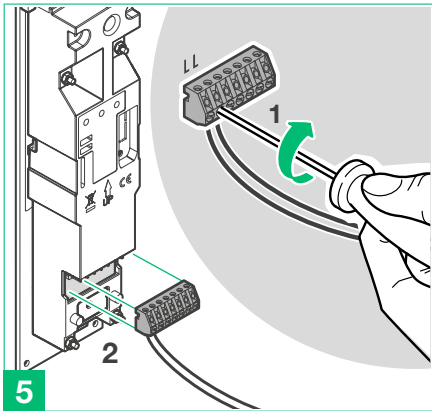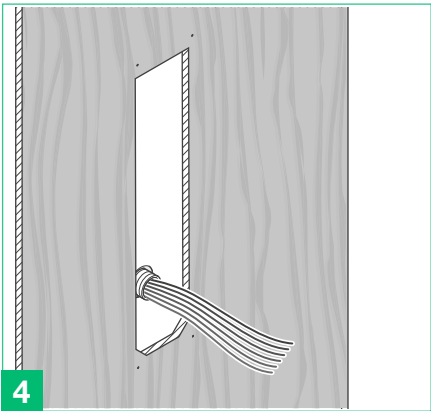
Settings

Permanently set the S1 DIP-switches corresponding to the function you want to programme in accordance with the table below (you do not need to enter programming mode)

DIP-SWITCH		FUNCTION
DIP 1	ON [1 up] 1 2 3 4 5 6 7 8	The SE output and the C-NO relay are controlled by 2 separate buttons on the internal unit: the key button (SE) and the actuator button (C-NO)
	ON [1 down] 1 2 3 4 5 6 7 8 ✳	The SE output and the C-NO relay are controlled by a single button on the internal unit: the key button
DIP 2	ON [2 up] 1 2 3 4 5 6 7 8	Lock-release activation time: 8 seconds (programmable, see **Special programming**)
	ON [2 down] 1 2 3 4 5 6 7 8 ✳	Lock-release activation time: 2 seconds
DIP 3	ON [3 up] 1 2 3 4 5 6 7 8	Relay activation time: 8 seconds
	ON [3 down] 1 2 3 4 5 6 7 8 ✳	Relay activation time: 2 seconds
DIP 4	ON [4 up] 1 2 3 4 5 6 7 8	Awaiting reset time: 1 seconds
	ON [4 down] 1 2 3 4 5 6 7 8 ✳	Awaiting reset time: 10 seconds
DIP 5	ON [5 up] 1 2 3 4 5 6 7 8	Call transmission: TRIPLE
	ON [5 down] 1 2 3 4 5 6 7 8 ✳	Call transmission: SINGLE
DIP 6	ON [6 up] 1 2 3 4 5 6 7 8	Confirmation tones (call, audio enabled): DISABLED
	ON [6 down] 1 2 3 4 5 6 7 8 ✳	Confirmation tones (call, audio enabled): ENABLED
DIP 7	ON [7 up] 1 2 3 4 5 6 7 8	Camera lighting LED: DISABLED
	ON [7 down] 1 2 3 4 5 6 7 8 ✳	Camera lighting LED: ENABLED
DIP 8		No associated function

✳ default

Programming an additional entrance panel

With switching device art. 1405, only one additional entrance panel may be installed.

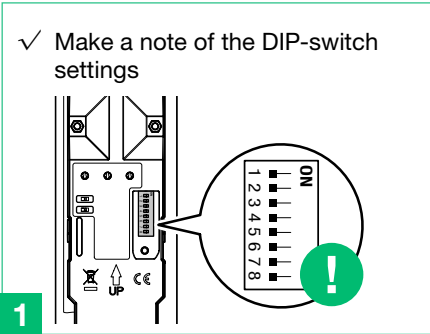The two entrance panels must be programmed as **main** (P) and **secondary** (S); see table below.

» The **"Main entrance panel"** (P) carries out lock-release (or actuator) commands only when it is in call or self activation status.

» The **"Secondary entrance panel"** (S) carries out lock-release (or actuator) commands whether it is in standby or in call or self activation status.

» If the system is in standby mode the first self-activation command will activate the camera of the secondary entrance panel. Further commands switch between the two entrance panels, activating the main entrance panel and the secondary entrance panel alternately.
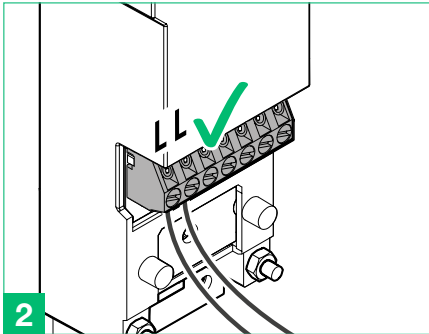
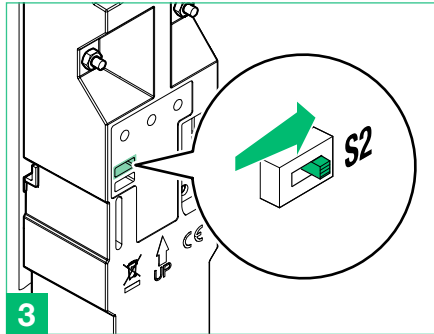*With switching device art. 1404, more than one additional entrance panel may be installed.*

All the entrance panels must be programmed as shown in the table below.
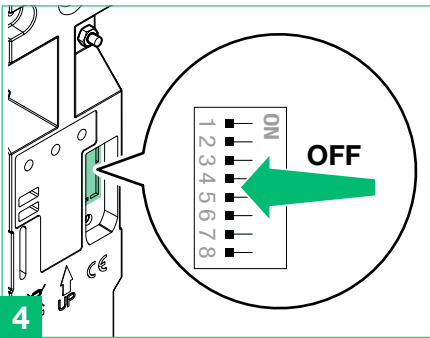
Please refer to the **full manual** for product 1404, which is available to download from the website **pro.comelitgroup.com**

✓ Make a note of the DIP-switch settings

1

2

3

OFF

4

Example code **32**

5
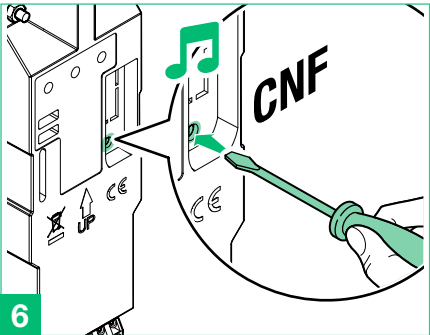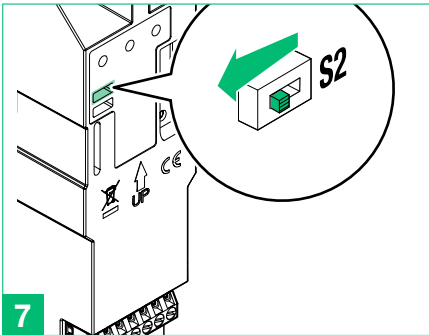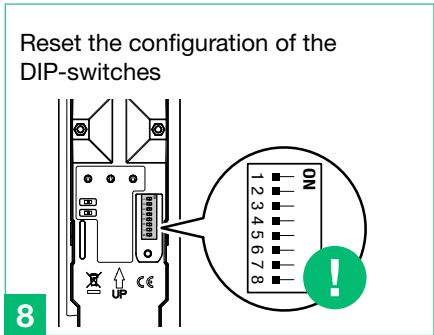
▶ Set the code corresponding to the desired programming

PROGRAMMING	DIP-SWITCH	CODE
Programming an entrance panel with switching device 1404		**8**
Programming a **secondary** (S) entrance panel with switching device 1405		**16**
Programming a **main** (P) entrance panel with switching device 1405		**32**

CNF

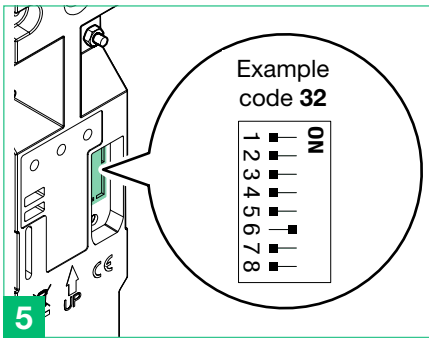**6**

7

Reset the configuration of the DIP-switches

8

Special programming

1 ✓ Make a note of the DIP-switch settings

2

3 S2

4 OFF

5 Example code **184**
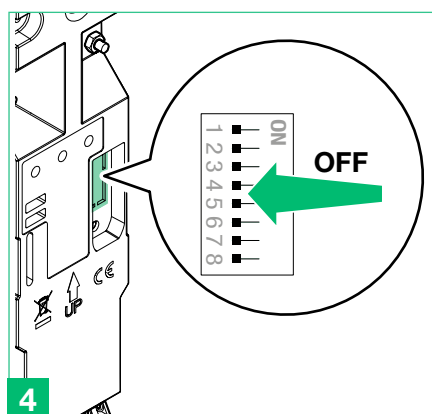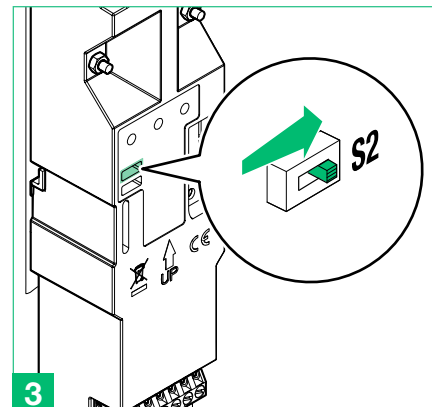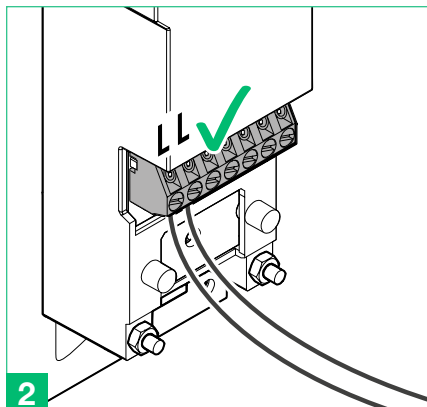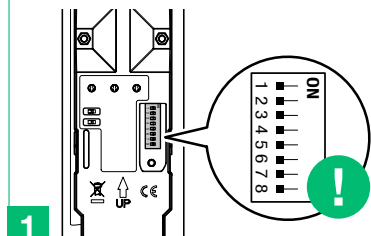
▶ Set the code corresponding to the desired programming

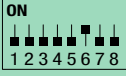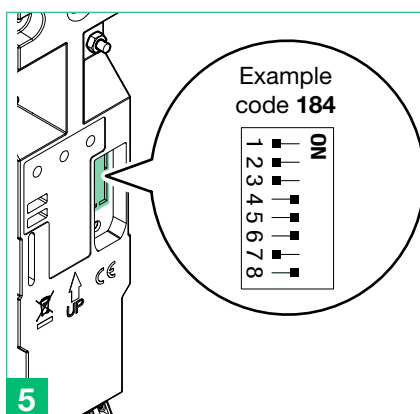| PROGRAMMING	DIP-SWITCH	CODE
Lock-release activation time: 100 msec ✱	ON 1 2 3 4 5 6 7 8	**184**
Lock-release activation time: 200 msec ✱	ON 1 2 3 4 5 6 7 8	**185**
Lock-release activation time: 500 msec ✱	ON 1 2 3 4 5 6 7 8	**186**
Lock-release activation time: 2 sec. + disabling tone ✱	ON 1 2 3 4 5 6 7 8	**245**
Lock-release activation time: 4 sec ✱	ON 1 2 3 4 5 6 7 8	**246**
Lock-release activation time: 8 sec **(default)** ✱	ON 1 2 3 4 5 6 7 8	**247**
The local door-opener button connected to the RTE input controls both the SE door lock and the second C NO relay **(default)**	ON 1 2 3 4 5 6 7 8	**215**
The local door-opener button connected to the RTE input controls the SE door lock	ON 1 2 3 4 5 6 7 8	**216**
The local door-opener button connected to the RTE input controls the second C NO relay	ON 1 2 3 4 5 6 7 8	**217**
Restores the factory values for the special programs	ON 1 2 3 4 5 6 7 8	**254**

✱ At the end of programming, set DIP2 to ON as shown in figure **9** on page **12**

6

7

Reset the configuration of the DIP-switches

8

9

Only for programs 184, 185, 186, 245, 246, 247

▶ **Set DIP2 to ON.** To set the "**lock-release activation time**" as programmed in step **5** on page **11**

Customising the call code

1 ✓ Make a note of the DIP-switch settings

2

3

4 OFF

5 example code **5**
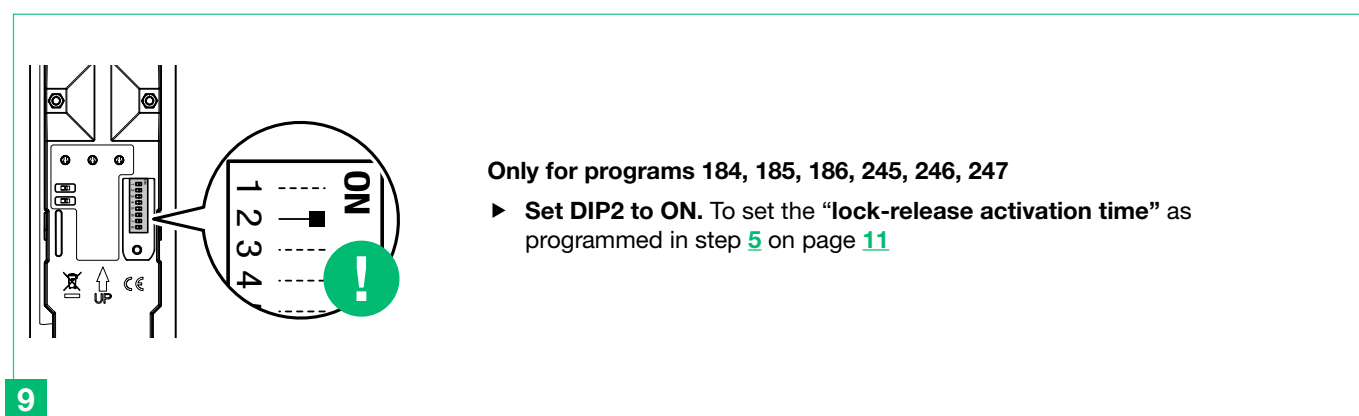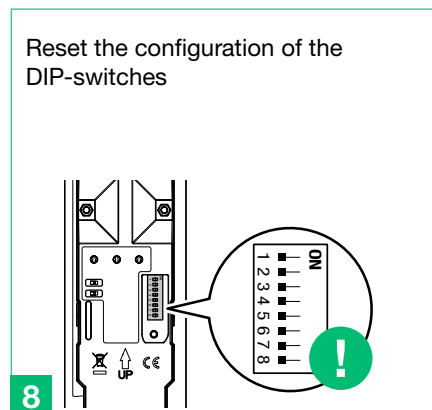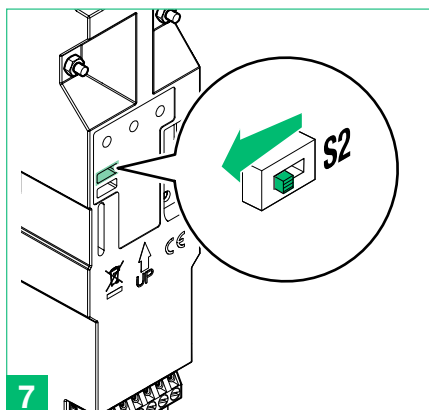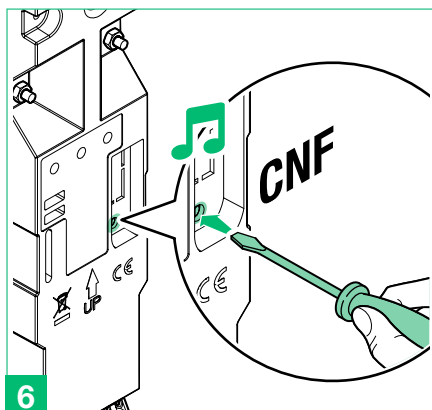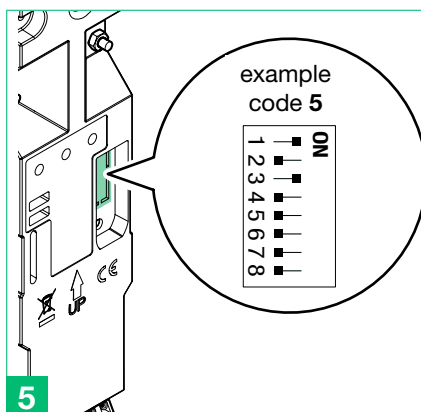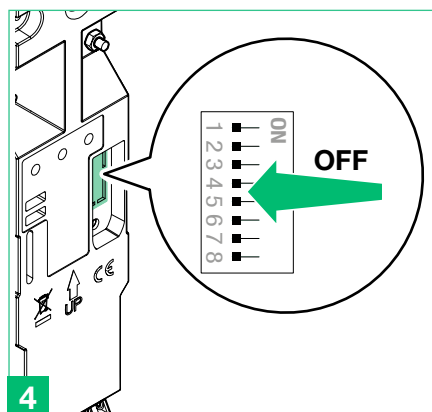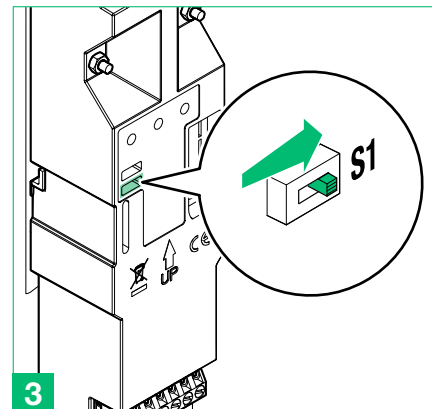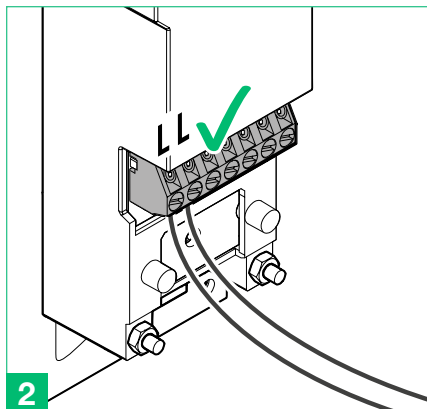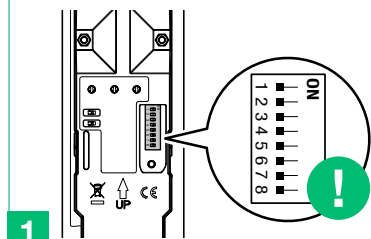
▶ Set the call code of the apartment you wish to call (for example: **5**) using the DIP-switches (see **Table of call codes**).

6 = 5 🔔

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

7 example code **1**

= 1 🔔

▶ Repeat steps 5 and 6 to assign a specific call code to each button

8 S1

9 Reset the configuration of the DIP-switches

Table of call codes

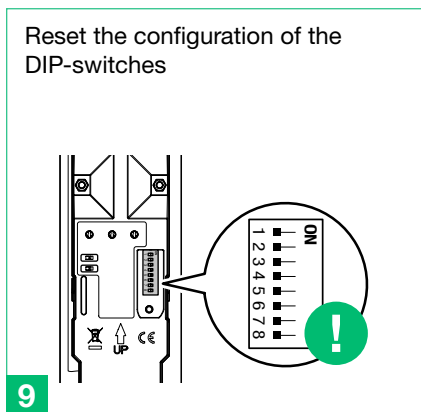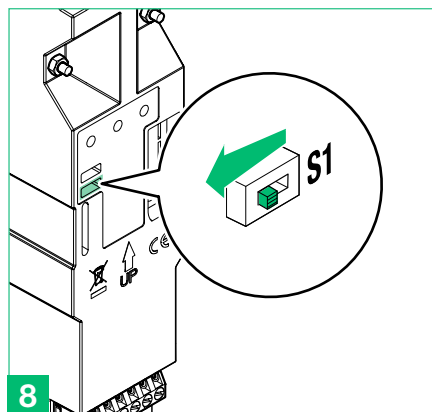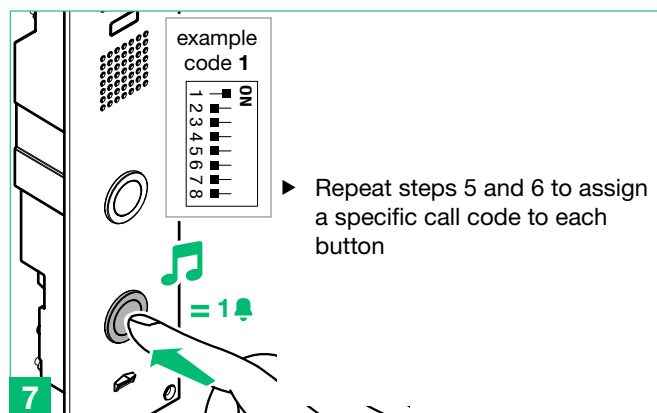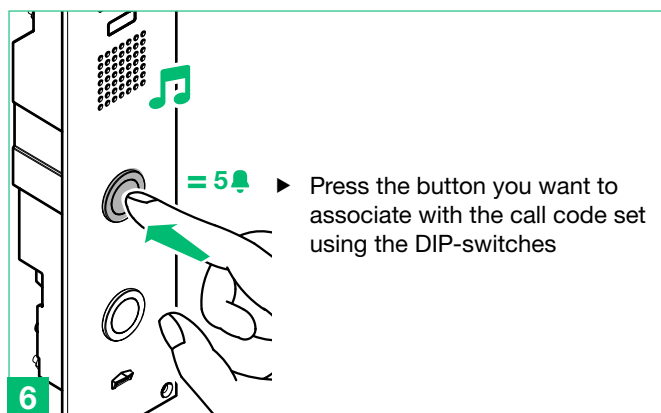| Code	DIP-switch ON	Code	DIP-switch ON	Code	DIP-switch ON	Code	DIP-switch ON	Code	DIP-switch ON	Code	DIP-switch ON
1	1	41	1,4,6	81	1,5,7	121	1,4,5,6,7	161	1,6,8	201	1,4,7,8
2	2	42	2,4,6	82	2,5,7	122	2,4,5,6,7	162	2,6,8	202	2,4,7,8
3	1.2	43	1,2,4,6	83	1,2,5,7	123	1,2,4,5,6,7	163	1,2,6,8	203	1,2,4,7,8
4	3	44	3,4,6	84	3,5,7	124	3,4,5,6,7	164	3,6,8	204	3,4,7,8
5	1.3	45	1,3,4,6	85	1,3,5,7	125	1,3,4,5,6,7	165	1,3,6,8	205	1,3,4,7,8
6	2.3	46	2,3,4,6	86	2,3,5,7	126	2,3,4,5,6,7	166	2,3,6,8	206	2,3,4,7,8
7	1,2,3	47	1,2,3,4,6	87	1,2,3,5,7	127	1,2,3,4,5,6,7	167	1,2,3,6,8	207	1,2,3,4,7.8
8	4	48	5.6	88	4,5,7	128	8	168	4,6,8	208	5,7,8
9	1.4	49	1,5,6	89	1,4,5,7	129	1.8	169	1,4,6,8	209	1,5,7,8
10	2.4	50	2,5,6	90	2,4,5,7	130	2.8	170	2,4,6,8	210	2,5,7,8
11	1,2,4	51	1,2,5,6	91	1,2,4,5,7	131	1,2,8	171	1,2,4,6,8	211	1,2,5,7,8
12	3.4	52	3,5,6	92	3,4,5,7	132	3.8	172	3,4,6,8	212	3,5,7,8
13	1,3,4	53	1,3,5,6	93	1,3,4,5,7	133	1,3,8	173	1,3,4,6,8	213	1,3,5,7,8
14	2,3,4	54	2,3,5,6	94	2,3,4,5,7	134	2,3,8	174	2,3,4,6,8	214	2,3,5,7,8
15	1,2,3,4	55	1,2,3,5,6	95	1,2,3,4,5.7	135	1,2,3,8	175	1,2,3,4,6.8	215	1,2,3,5,7,8
16	5	56	4,5,6	96	6.7	136	4.8	176	5,6,8	216	4,5,7,8
17	1.5	57	1,4,5,6	97	1,6,7	137	1,4,8	177	1,5,6,8	217	1,4,5,7,8
18	2.5	58	2,4,5,6	98	2,6,7	138	2,4,8	178	2,5,6,8	218	2,4,5,7,8
19	1,2,5	59	1,2,4,5,6	99	1,2,6,7	139	1,2,4,8	179	1,2,5,6,8	219	1,2,4,5,7,8
20	3.5	60	3,4,5,6	100	3,6,7	140	3,4,8	180	3,5,6,8	220	3,4,5,7,8
21	1,3,5	61	1,3,4,5,6	101	1,3,6,7	141	1,3,4,8	181	1,3,5,6,8	221	1,3,4,5,7,8
22	2,3,5	62	2,3,4,5,6	102	2,3,6,7	142	2,3,4,8	182	2,3,5,6,8	222	2,3,4,5,7,8
23	1,2,3,5	63	1,2,3,4,5.6	103	1,2,3,6,7	143	1,2,3,4,8	183	1,2,3,5,6,8	223	1,2,3,4,5,7,8
24	4.5	64	7	104	4,6,7	144	5.8	184	4,5,6,8	224	6,7,8
25	1,4,5	65	1.7	105	1,4,6,7	145	1,5,8	185	1,4,5,6,8	225	1,6,7,8
26	2,4,5	66	2.7	106	2,4,6,7	146	2,5,8	186	2,4,5,6,8	226	2,6,7,8
27	1,2,4,5	67	1,2,7	107	1,2,4,6,7	147	1,2,5,8	187	1,2,4,5,6,8	227	1,2,6,7,8
28	3,4,5	68	3.7	108	3,4,6,7	148	3,5,8	188	3,4,5,6,8	228	3,6,7,8
29	1,3,4,5	69	1,3,7	109	1,3,4,6,7	149	1,3,5,8	189	1,3,4,5,6,8	229	1,3,6,7,8
30	2,3,4,5	70	2,3,7	110	2,3,4,6,7	150	2,3,5,8	190	2,3,4,5,6,8	230	2,3,6,7,8
31	1,2,3,4,5	71	1,2,3,7	111	1,2,3,4,6.7	151	1,2,3,5,8	191	1,2,3,4,5,6,8	231	1,2,3,6,7,8
32	6	72	4.7	112	5.67	152	4,5,8	192	7.8	232	4,6,7,8
33	1.6	73	1,4,7	113	1,5,6,7	153	1,4,5,8	193	1,7,8	233	1,4,6,7,8
34	2.6	74	2,4,7	114	2,5,6,7	154	2,4,5,8	194	2,7,8	234	2,4,6,7,8
35	1,2,6	75	1,2,4,7	115	1,2,5,6,7	155	1,2,4,5,8	195	1,2,7,8	235	1,2,4,6,7.8
36	3.6	76	3,4,7	116	3,5,6,7	156	3,4,5,8	196	3,7,8	236	3,4,6,7,8
37	1,3,6	77	1,3,4,7	117	1,3,5,6,7	157	1,3,4,5,8	197	1,3,7,8	237	1,3,4,6,7.8
38	2,3,6	78	2,3,4,7	118	2,3,5,6,7	158	2,3,4,5,8	198	2,3,7,8	238	2,3,4,6,7.8
39	1,2,3,6	79	1,2,3,4,7	119	1,2,3,5,6.7	159	1,2,3,4,5.8	199	1,2,3,7,8	239	1,2,3,4,6,7,8
40	4.6	80	5.7	120	4,5,6,7	160	6.8	200	4,7,8	*240	5,6,7,8

* NOTE: Code 240 is reserved for the porter switchboard

Disabling the RTE input

✓ Make a note of the DIP-switch settings
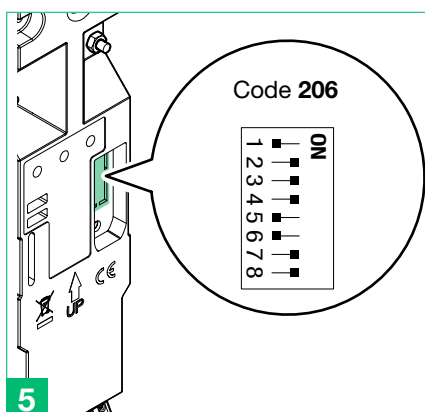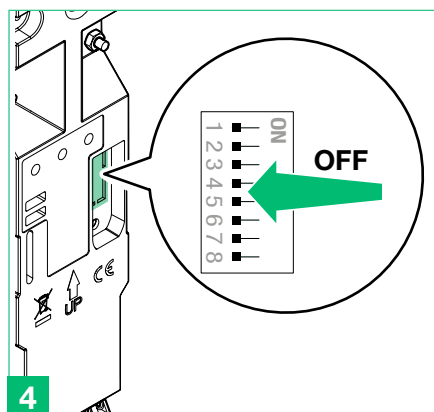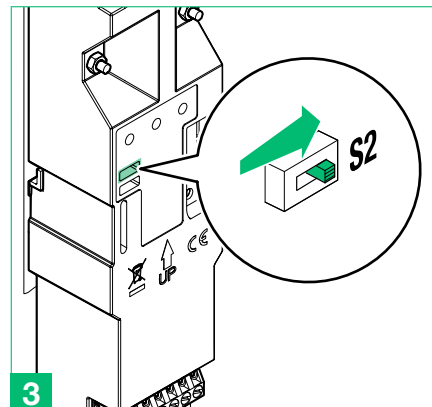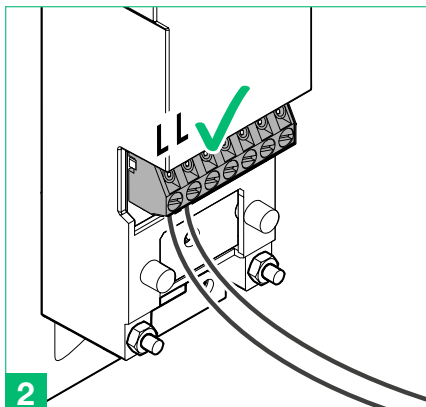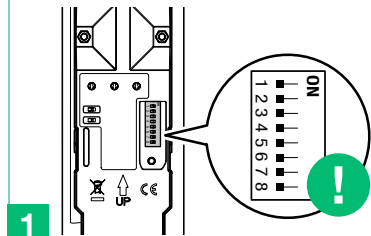
1

2

S2

3

OFF

4

Code **206**

▶ Set code **206**

5

PROGRAMMING	DIP-SWITCH	CODE
Disable RTE input.	ON 1 2 3 4 5 6 7 8	**206**

6

S2

7

Reset the configuration of the DIP-switches

8
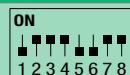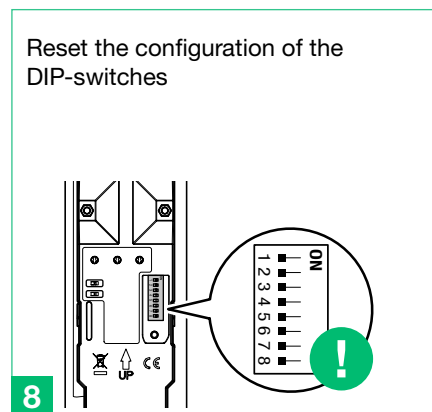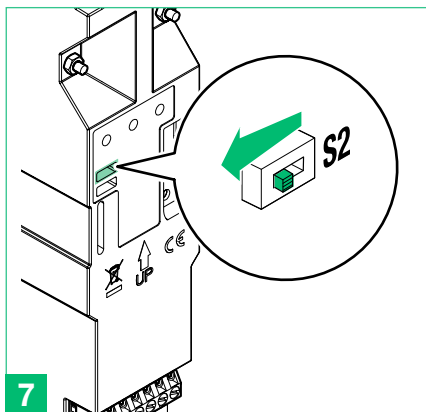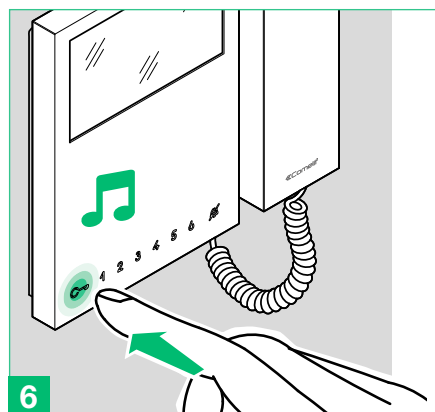
ℹ️ *To re-enable the function, repeat the procedure.*

Operating distances

6701W

A

1209

AD2101

C

B

1216
1214/2C
6721W **(MAX 4)**

A

1214/2C
6701W
6701W/8
(MAX 4)

1214/2C
6741W
(MAX 1)

(MAX. 3 DOOR ENTRY MONITORS)
6701W (/BM), 6701W/8, 6721W (/BM),
6801W (/BM) o 6601W (/BM)

1209

AD2103

C
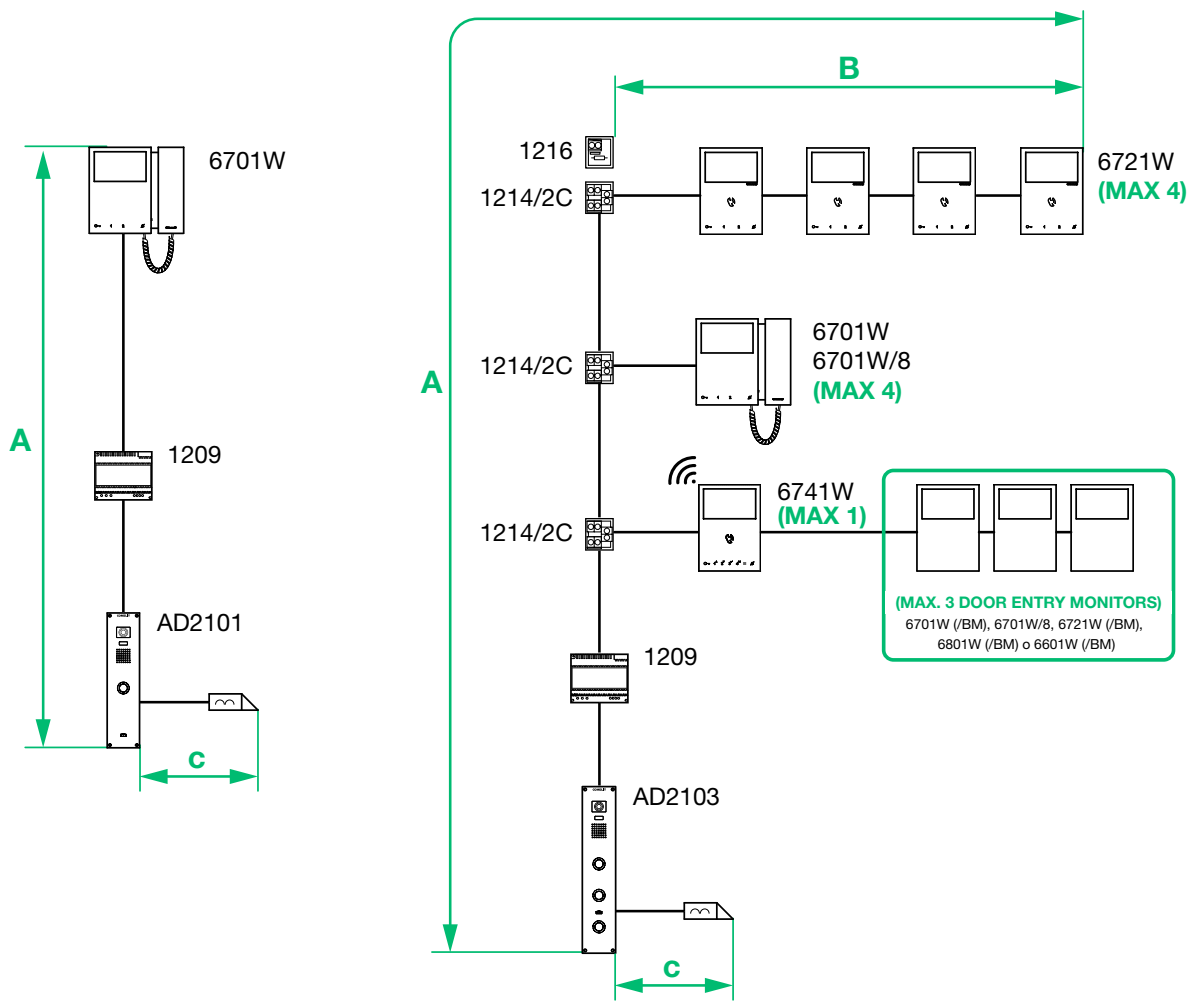
	A MAX	B MAX	C MAX
Comelit art. 4577 1 mm2 (Ø 1.2 mm AWG 17)	**200 m** (655 feet)	**100 m** (330 feet)	
UTP5 cat. 5 0.2 mm2 (Ø 0.5 mm AWG 24)	**100 m** (330 feet)	**60 m** (195 feet)	
0.28 mm2 (Ø 0.6 mm AWG 23)	**100 m** (330 feet)	**60 m** (195 feet)	
0.5 mm2 (Ø 0.8 mm AWG 20)	**100 m** (330 feet)	**60 m** (195 feet)	
1 mm2 (Ø 1.2 mm AWG 17)	**100 m** (330 feet)	**60 m** (195 feet)	**30 m** (98 feet)
1 mm2 (Ø 1.2 mm AWG 17)	**80 m** (260 feet)	**40 m** (130 feet)	
1.5 mm2 (Ø 1.4 mm AWG 15)	**100 m** (330 feet)	**60 m** (195 feet)	**50 m** (164 feet)
* UTP5 cat. 5 0.2 mm2 (Ø 0.5 mm AWG 24) **MULTI PAIR CABLE #** GREEN / GREEN / WHITE / ORANGE / WHITE / ORANGE / BLU / BLU / WHITE / BROWN / WHITE / BROWN	**200 m** (660 feet)	**70 m** (230 feet)	

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

Connections

Basic diagram
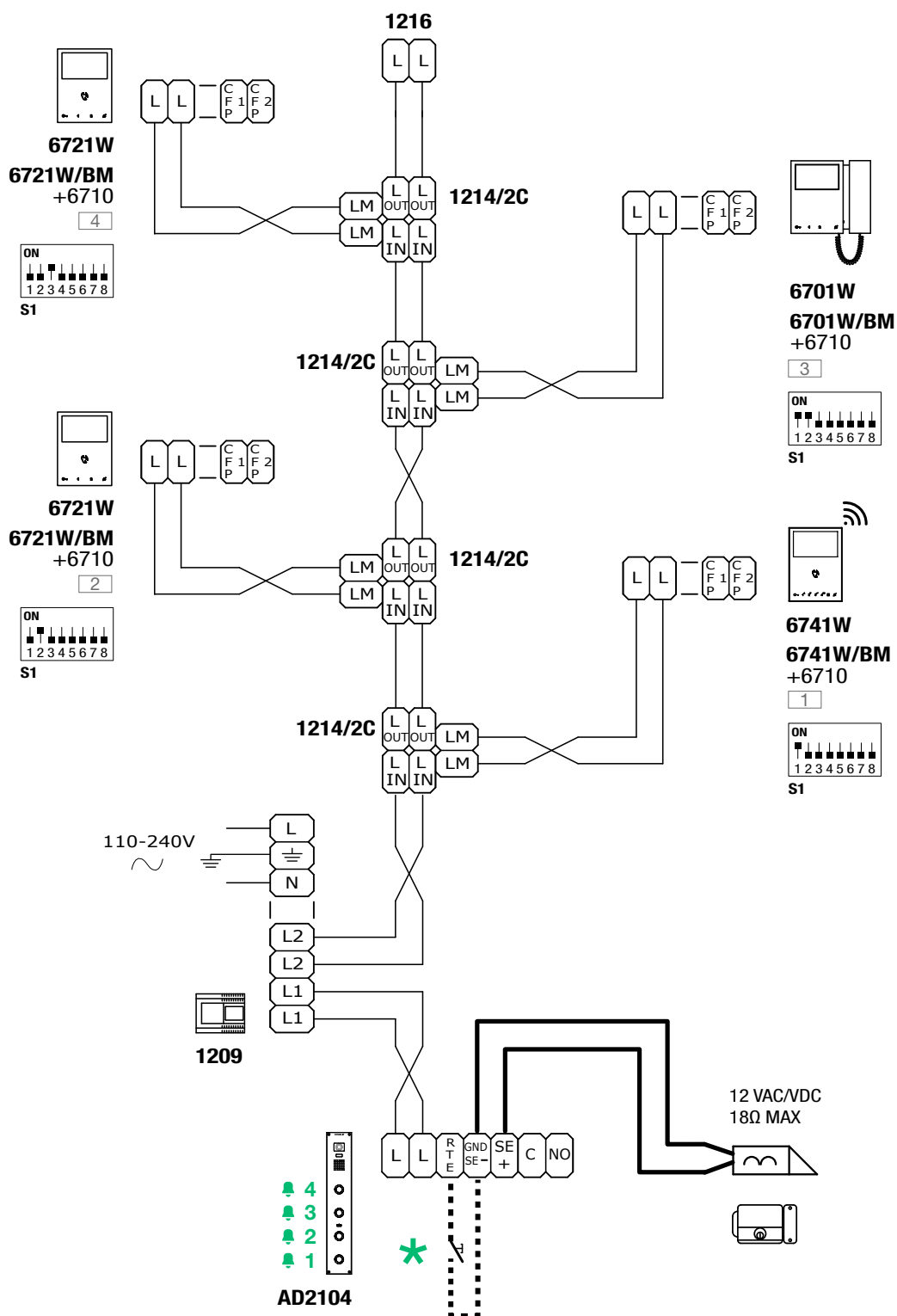
*Local door-opener button

Variant for using the external entrance panel relay

1209

12V/24V AC-DC 4A MAX

L L R T E GND SE– SE + C NO

AD2104

ON
1 2 3 4 5 6 7 8

"C.NO relay activation 2 sec."

▶ Set DIP switch 1 to ON permanently (as shown in the figure)
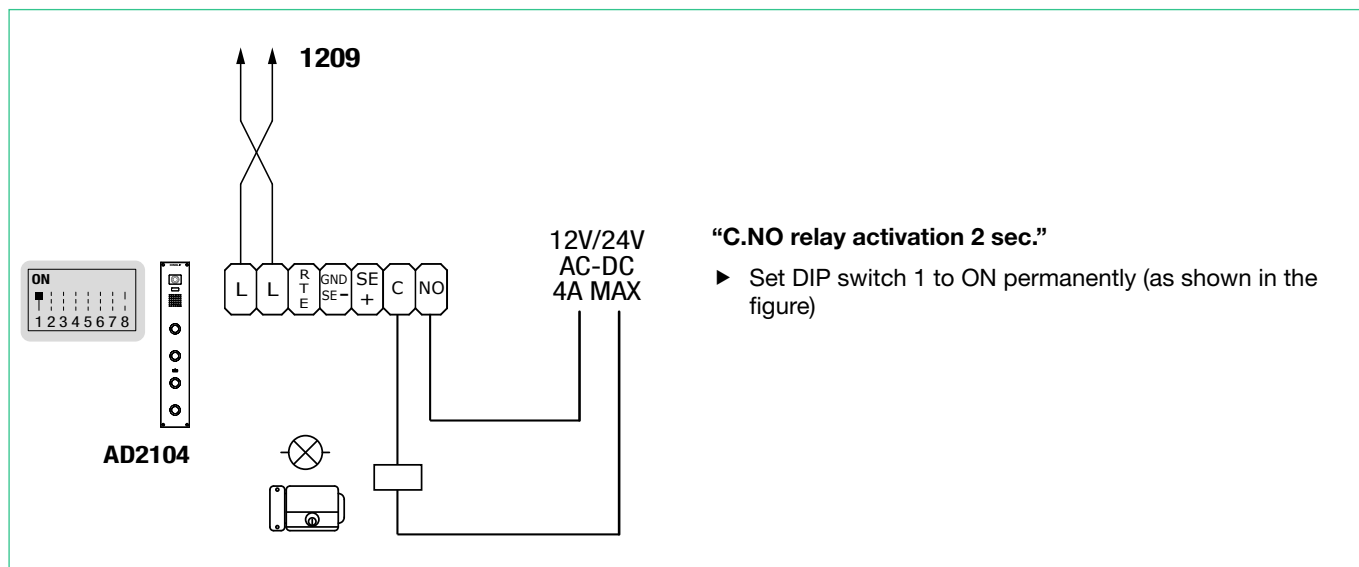
System with 2 entrance panels and switching device art. 1405

Video entry riser

L1 L1 L2 L2 L ⏚ N

1209

110-240V
∿

L M L M L S L S L P L P

1405

(S)

L L R T E GND SE– SE + C NO

12 VAC/VDC 18Ω MAX

🔔 4
🔔 3
🔔 2
🔔 1

✱

AD2104

(P)

L L R T E GND SE– SE + C NO

12 VAC/VDC 18Ω MAX

🔔 4
🔔 3
🔔 2
🔔 1

✱

AD2104

For "Main entrance panel" and "Secondary entrance panel" programming, see **Programming an additional entrance panel**

✱ Local door-opener button
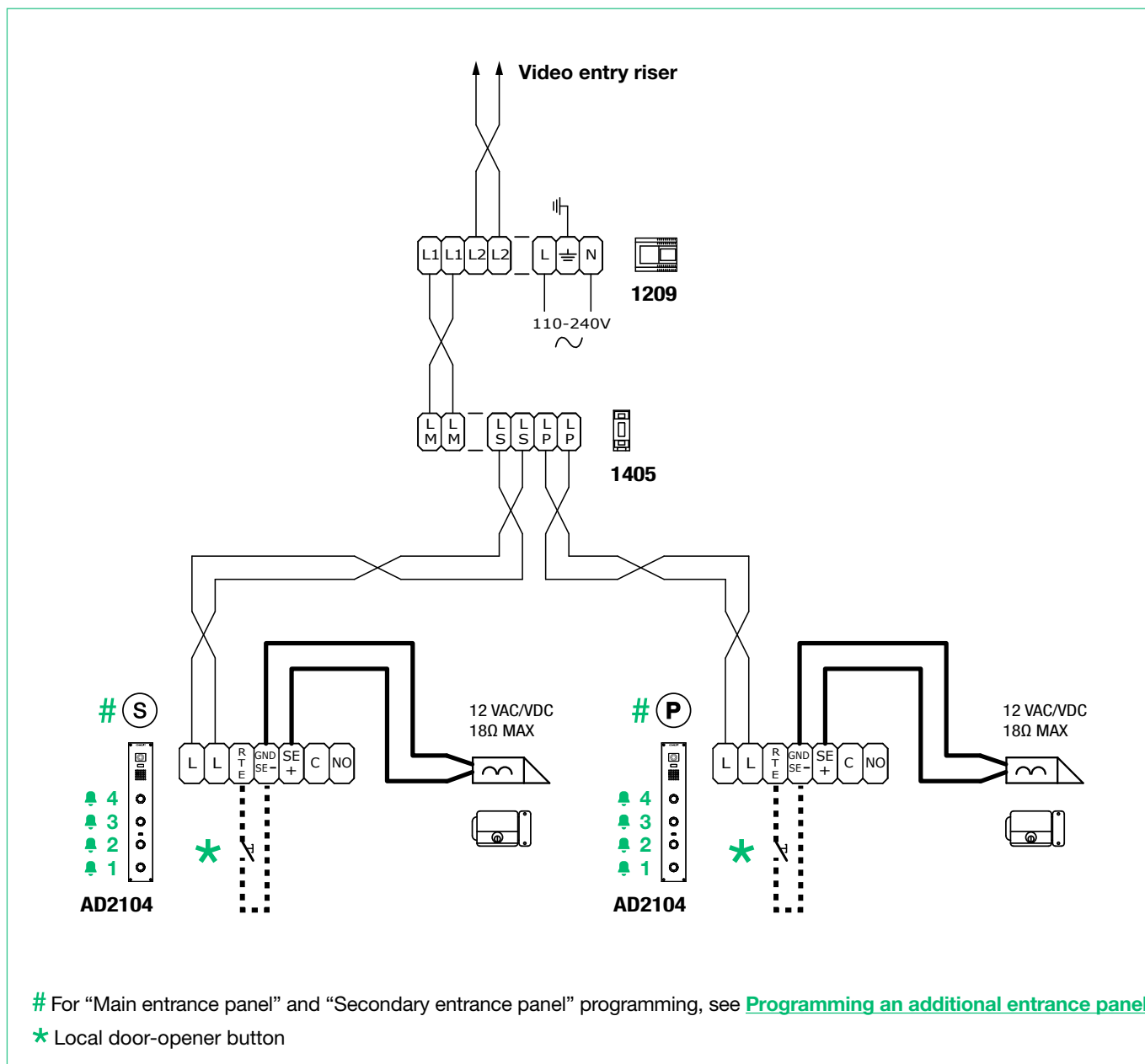
System with 3 entrance panels and switching device art. 1404

Video entry riser

S1   S2   1404

L M | L M | L S | L S | LP IN | LP OUT   1209

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

S1   S2   1404

110-240V ~

L / N

L2 L2 L1 L1   1209

110-240V ~

L / N

L2 L2 L1 L1   1209

110-240V ~

L / N

L2 L2 L1 L1   1209

12 VAC/VDC 18Ω MAX

L L R T E GND SE- SE+ C NO

★ Local door-opener button.

4 3 2 1

AD2104

12 VAC/VDC 18Ω MAX

4 3 2 1 **★**

AD2104

12 VAC/VDC 18Ω MAX

4 3 2 1 **★**

AD2104
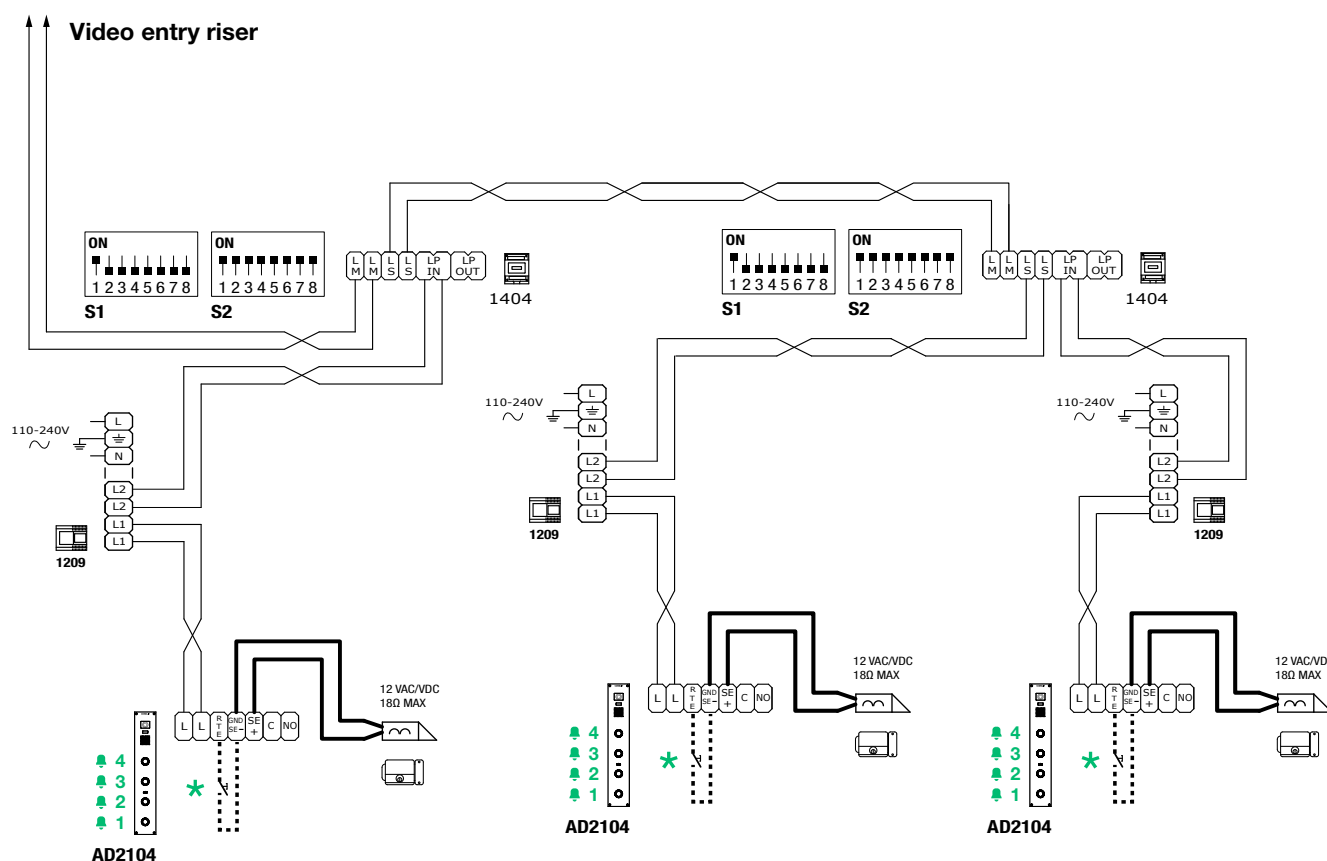
★ Local door-opener button.

ⓘ *The self activation function is available (with toggle function between 2 external units).*

www.comelitgroup.com

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

COMELIT®
WITH · YOU · ALWAYS