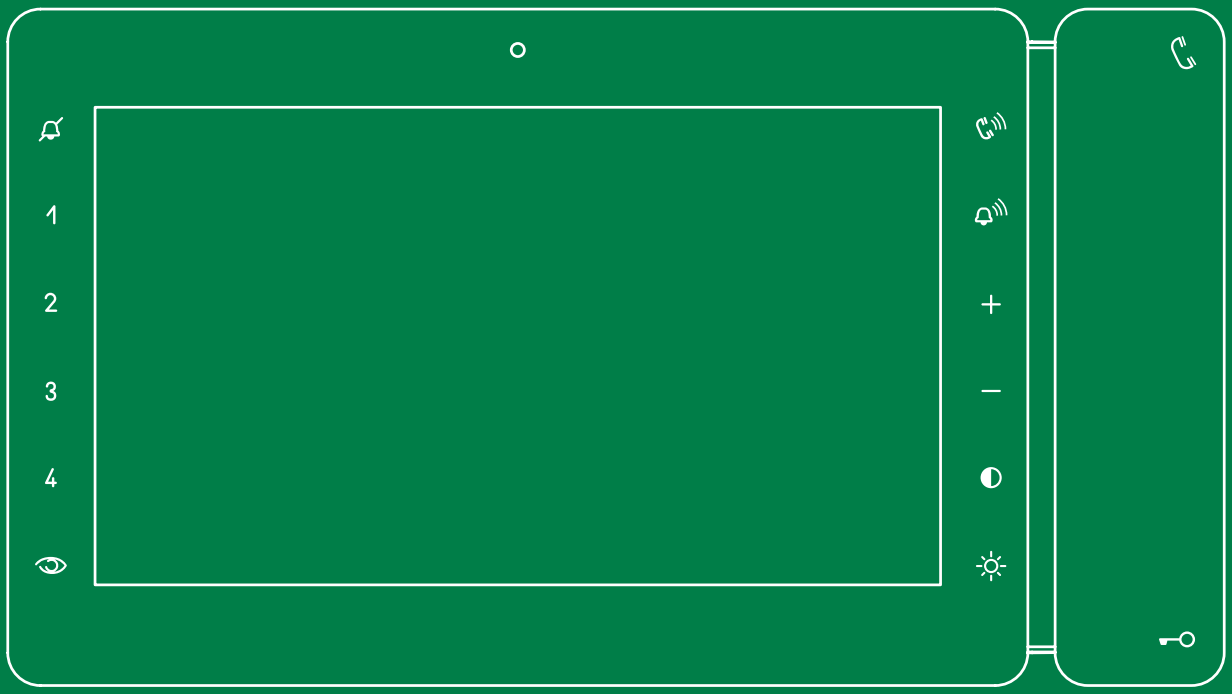
EN

TECHNICAL
MANUAL



Maxi door entry monitor
Art. 6801W

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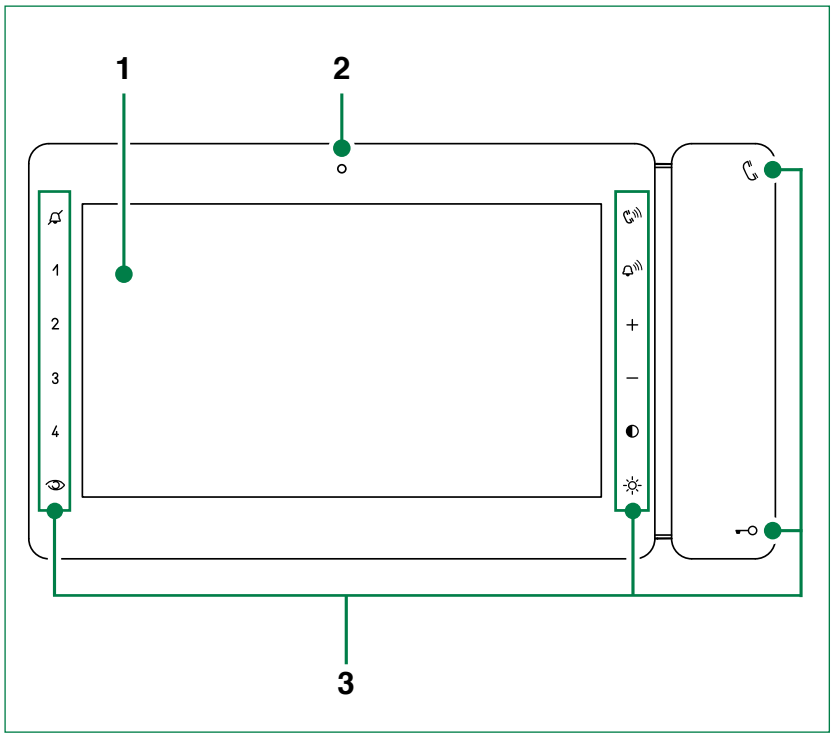
Table of contents

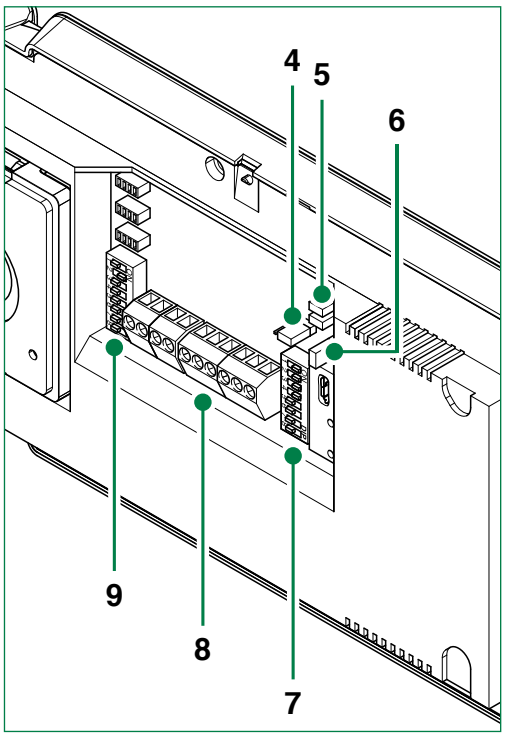
Warning

Description

The Maxi series is comprised of hands-free monitors that can be used in "Building Kit" (exclusively 2-wire), Simplebus Top and Kit Video systems.

- *Article 6801W is a colour monitor equipped as standard with 8 function buttons and 6 adjustment buttons.*
- *Article 6801W/BM is a colour monitor equipped as standard with 8 buttons, 6 adjustment buttons and an induction loop.*





1. 7" colour LCD screen
2. Microphone
3. Soft-touch keys/Led
4. **CV6**

   position A = contact IN1-IN2 > LED (default)

   position B = contact CFP2-IN1 > ALARM/LOCK-RELEASE/ACTUATOR
5. **CV1 CV2** remove in case of separate power supply
6. **CV5** Jumper for video closure. In systems with more than one monitor connected in cascade, only the monitor furthest away must have CV5 closed.
7. **S2** Ⓟ Micro-switches for programming keys and functions

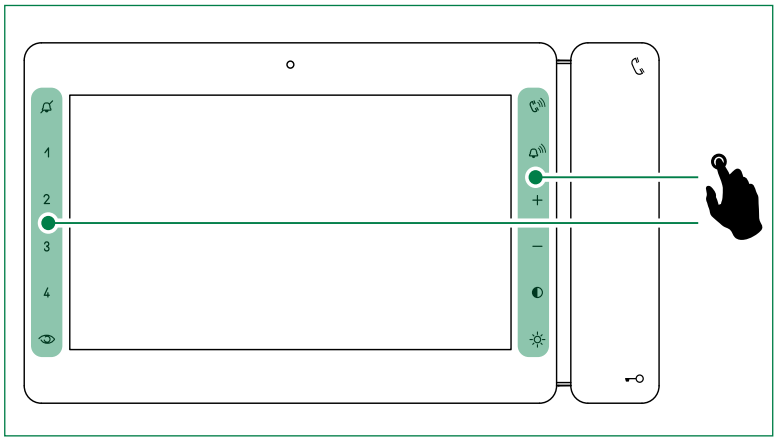
   DIP 1-2-3-4 for key function programming

   DIP 5-6 access to programming

   DIP 7 for management of power supply voltage, see **"Power supply configuration and management"**

   DIP 8 for main and secondary monitor setting, see **"Configuration of Main and Secondary internal units"**
8. Terminal block for system connection:
   CFP1 CFP2 Outside door call input
   S+ S- Terminals for additional ringtone output
   IN1 IN2 Input terminals (programmable)
   - + Power supply terminals
   L L Bus line connection terminals
9. **S1** Ⓐ User code programming microswitches (see **addressing table**)

Soft-touch key activation



- Touch to activate the function keys
- Press the desired key once to activate the function associated with it

Wait for approximately 1 sec. before pressing the same key again. Pressing the same key several times in quick succession will cancel the command.

Soft-touch key description

Audio key
Lock-release key
1 2 3 4 Keys 1-2-3-4 (programmable)
Self-ignition key (programmable)
Privacy key
Audio volume key
Ringtone volume key
+ — Value 'Up/Down' key
Contrast key
Brightness key

Indicator LED description

Audio LED
steady = audio enabled/hands-free function
continuous flashing = call received

Lock-release LED
1 flash = confirm lock-release
4 flashes = programming successful
10 flashes = programming error
continuous flashing = door open

Privacy LED - Doctor
4 flashes = device engaged
slow flashing = programming
3 flashes (every 5 s.) = Doctor function enabled
steady = privacy function enabled

The monitor Art. 6801W is designed for use in colour systems, in the SB2 section downstream of Art. 4888C, or in systems without mixer, such as the system with 2-wire KIT or Art. 1210.

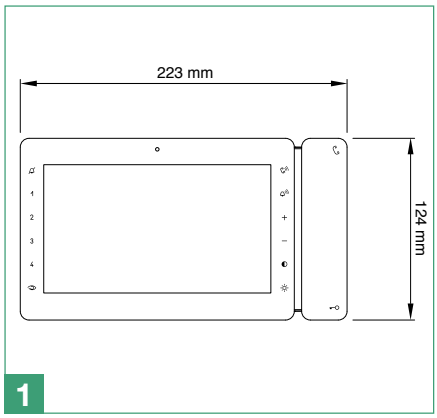
Technical specifications

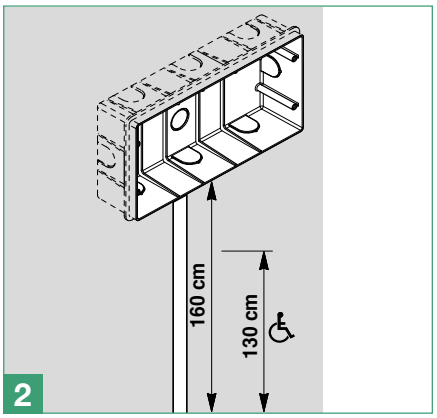
MAIN SPECIFICATIONS	6801W	6801W/BM
Flush-mounted	Yes	Yes
Wall-mounted	Yes	Yes
Desk base-mounted	Yes	Yes
Hands-free function	Yes	Yes
Induction loop	-	Yes
Type of display	LCD	LCD
Display size (inches)	7" 16:9	7" 16:9
Display resolution (H x V)	800x480 pixel	800x480 pixel
B/W or colour display	Color	Color
Product colour	White RAL9003	White RAL9003
Sensitive Touch technology	Yes	Yes
Total buttons	8	8
LED signaling	14	14
COMPATIBILITY		
Simplebus Top audio/video system	Yes	Yes
Building Kit audio/video system	Yes	Yes
Kit audio/video system	Yes	Yes
FUNCTIONS		
Actuator control function	Yes	Yes
Self-ignition	Yes	Yes
Switchboard call function	Yes	Yes
Intercom function	Yes	Yes
Call forwarding	Yes	Yes
Privacy function	Yes	Yes
Redial	Yes	Yes
Floor door call function	Yes	Yes
Customisable ringtone	Yes	Yes
Alarm function	Yes	Yes
Sound diffusion control	Yes	Yes
Receiving text messages	Yes	Yes
Images reception	Yes	Yes
HARDWARE SPECIFICATIONS		
Removable terminals	Yes	Yes
SETTINGS		
Loudspeaker volume control	Yes	Yes
Microphone volume control	Yes	Yes
Ringtone volume control	Yes	Yes
Display brightness control	Yes	Yes
Display contrast control	Yes	Yes
Display colour control	Yes	Yes
GENERAL INFO		
Product height (mm)	124	124
Product width (mm)	223	223
Product depth (mm)	25	25

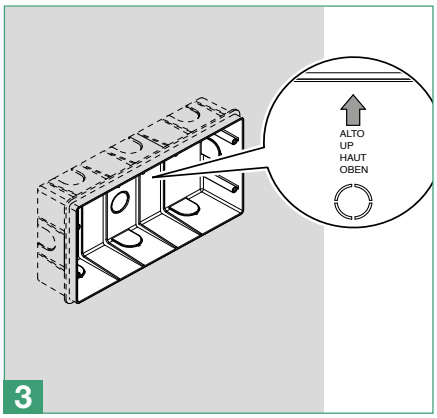
TECHNICAL SPECIFICATIONS	6801W	6801W/BM
Power supply voltage	22÷28Vdc	22÷28Vdc
Maximum current absorption (mA)	400	-
Power consumption stand-by (mA)	36	36
In called absorption (mA)	310	310
In communication absorption (mA)	400	400
Loudspeaker	80mm 80Ohm 1W	80mm 80Ohm 1W
Operating temperature (°C)	-5÷40	-5÷40
RH max operating humidity (%)	25 - 75 %	25 - 75 %
Clamps	CFP1 CFP2 IN1 IN2 S+ S-	CFP1 CFP2 IN1 IN2 S+ S-

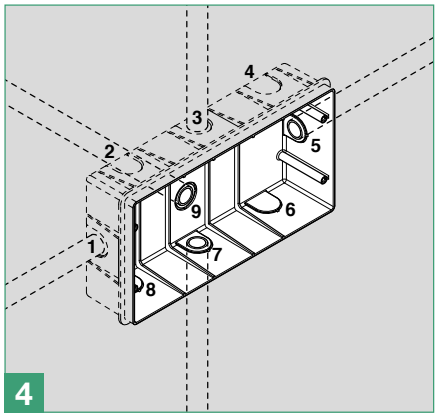
Installation

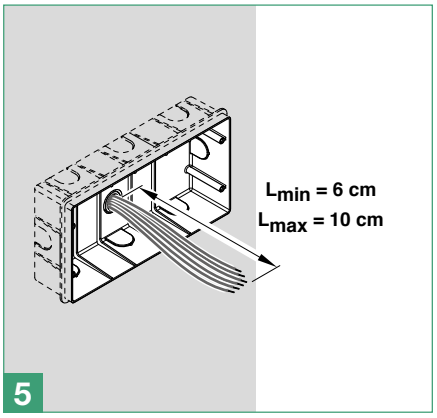
Mounting the 7" MAXI SBC monitor on flush-mounted box Art. 6817

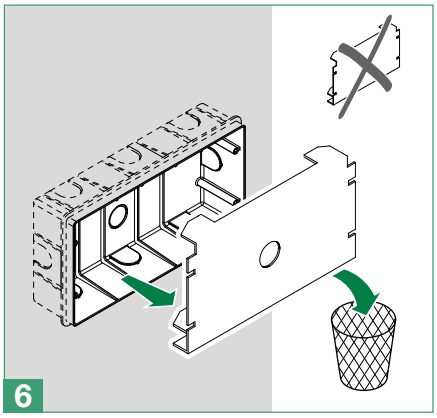


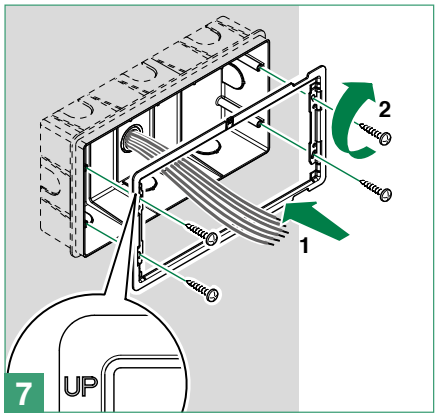


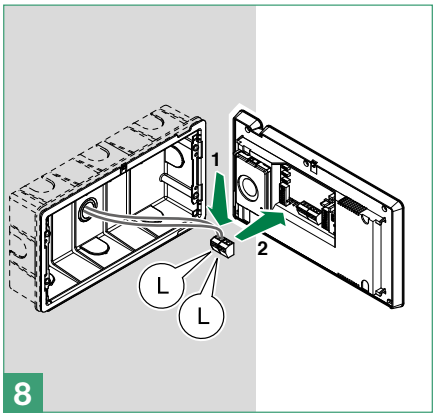


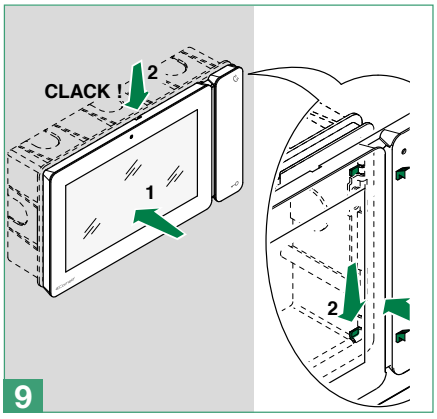


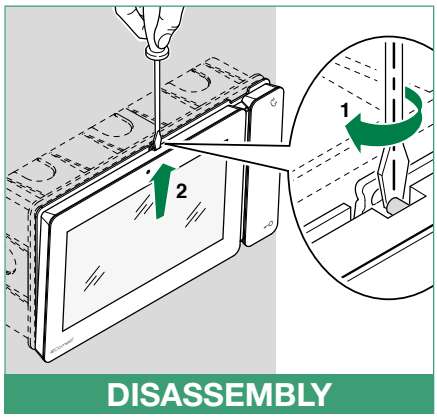






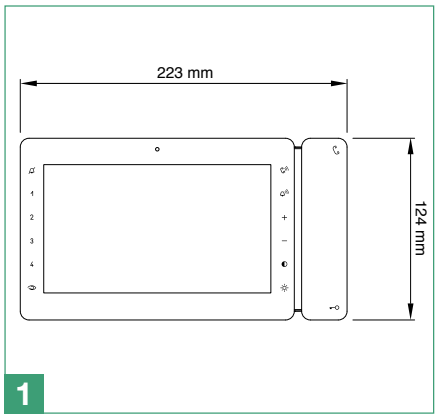


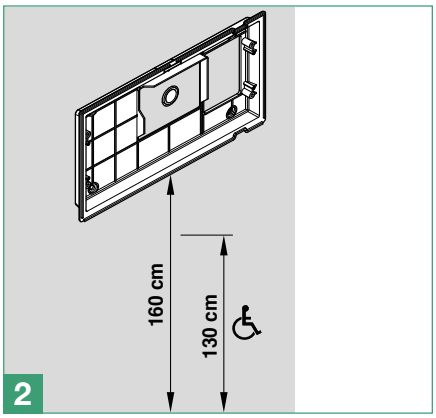


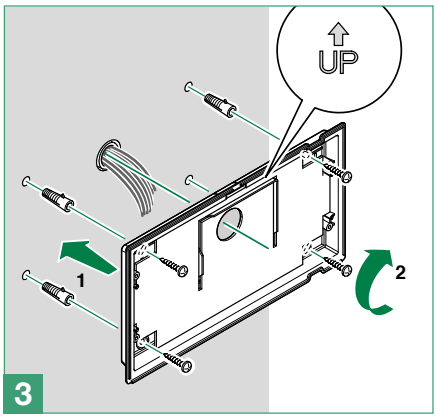


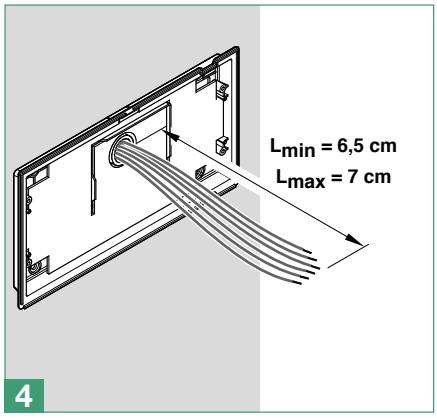
DISASSEMBLY

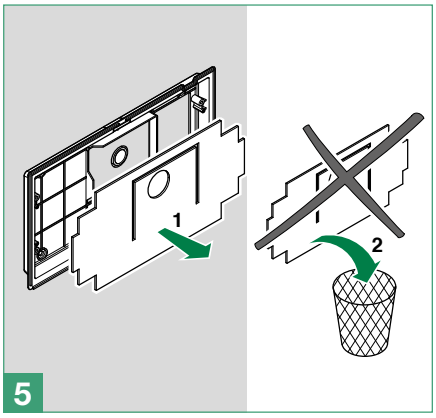
Wall-mounting (Art. 6820 - optional)

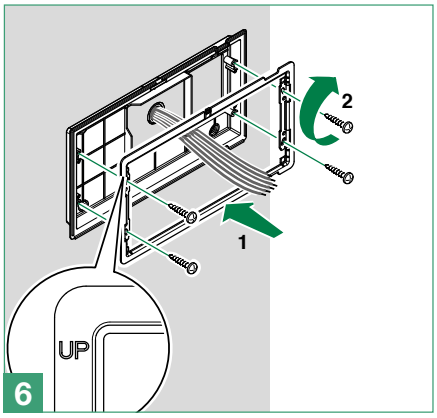


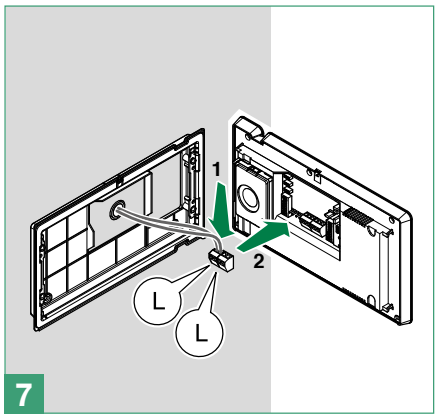


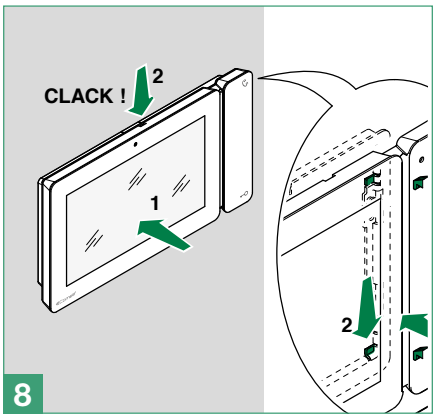


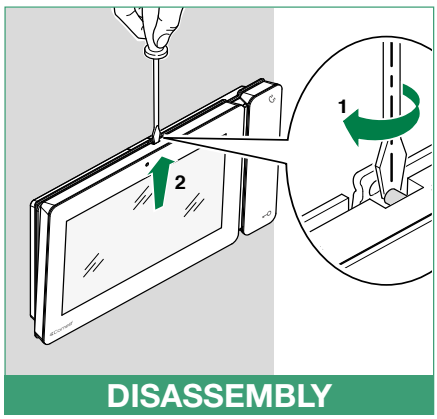




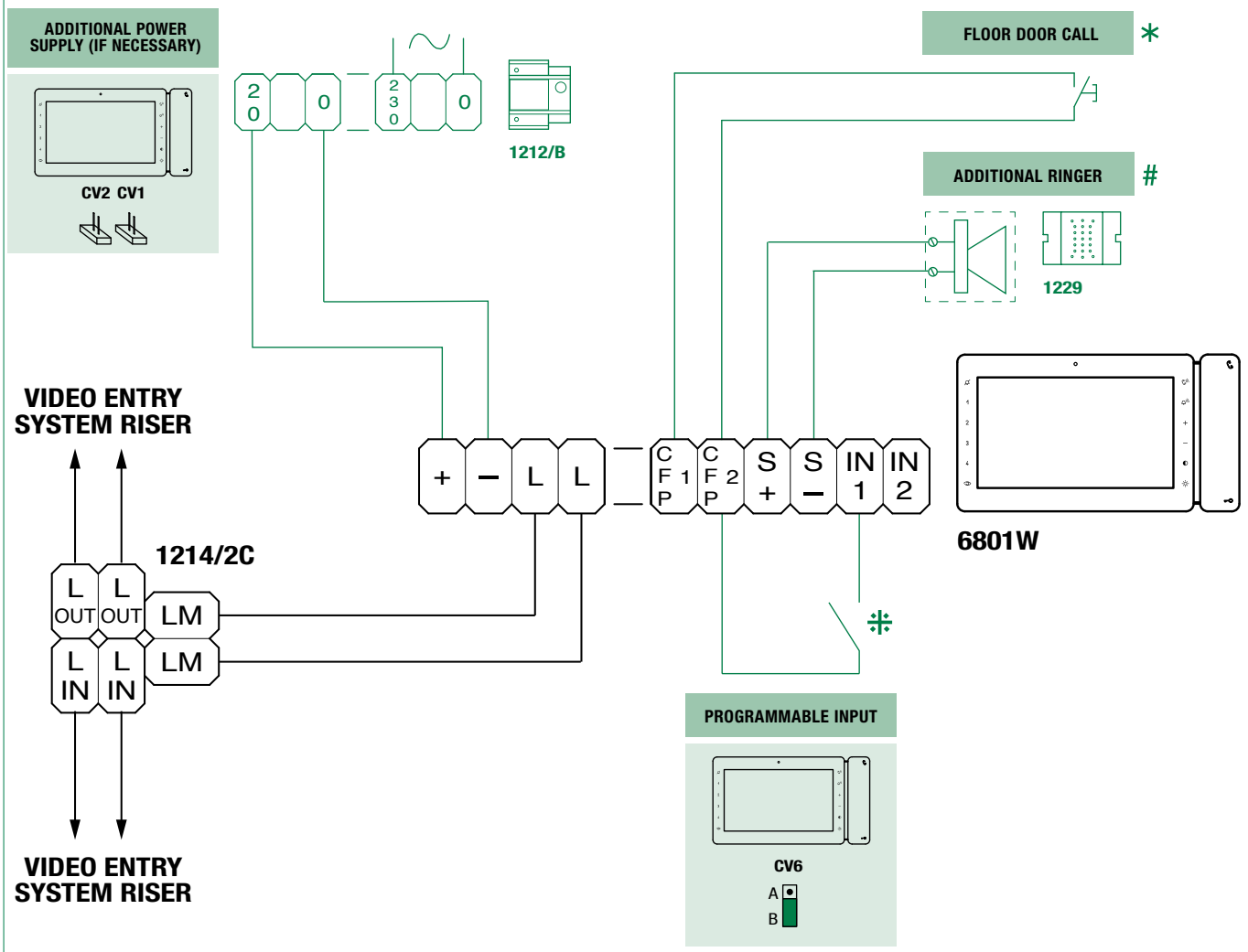








Connections

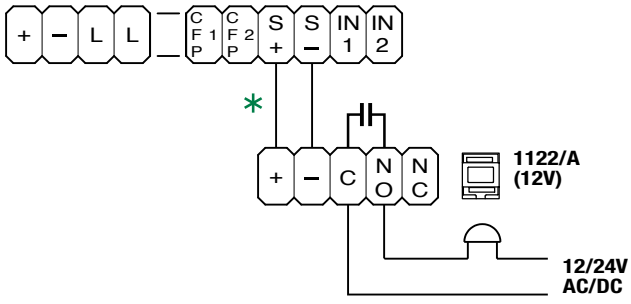


20 m MAX - Connect only one call repetition device for each user code.

* **20 m MAX** - Use shielded cable for the connection and do not route the cables in the vicinity of heavy inductive loads or power supply cables (230V/400V).
Where multiple door-entry phones or monitor backplates have the same user code, connect the CFP button on one only; all the devices will ring simultaneously.

⁜ For the programming procedure, see paragraph: **LED/alarm/lock-release/actuator programming**.

Variant: connection of call repetition device Art. 1122/A



* **20 m MAX -** Connect only one call repetition device for each user code. If inductive loads are connected, the connection of 470nF capacitance in parallel with the C-NO contacts of Art. 1122/A is advisable.

Monitor configuration

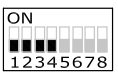
	Legend
0	DIP-switch OFF
1	DIP-switch ON
🔑	**Lock- release**
📞	**Audio**
ACT	**Actuator**
AI	**Self-ignition** **
CCP	**Main switchboard call** [not for use in systems with KIT]
CCS	**Secondary switchboard call** [not for use in systems with KIT]
K	**Guardian doorentry phone call**
D	**Doctor**
PAN	**Panic** [not for use in systems with KIT]
INT	**General or selective programmable intercom** [general internal call as standard for KIT and Simplebus Top]
INTb	**Two-family intercom** [for KIT only]
NULL	**No function**
PROG	**Programmed functions, see "Advanced monitor configuration". In this DIP switch setting, the buttons control the programmed functions; the NON-programmed buttons control functions referred to on line 0000 (default).**

** **Press and hold to enable/disable the function**

Standard configuration for soft-touch keys

DIP-switch S2			
DIP 1	**DIP 2**	**DIP 3**	**DIP 4**
0	0	0	0
1	0	0	0
0	1	0	0
1	1	0	0
0	0	1	0
1	0	1	0
0	1	1	0
1	1	1	0
0	0	0	1
1	0	0	1
0	1	0	1
1	1	0	1
0	0	1	1
1	0	1	1
0	1	1	1
1	1	1	1

Programmable functions						
📞	🔑	1	2	3	4	👁
		CCS	**ACT**	**D**	**PAN**	**AI**
	🔑	**ACT**	**INT**	**INTb**	**D**	**AI**
		INT	**INTb**	**ACT**	**CCS**	**AI**
		ACT	**CCP**	**PAN**	**K**	**CCS**
	ACT	**ACT**	**ACT**	**ACT**	**ACT**	**ACT**
		INT	**CCS**	**CCP**	**INTb**	**ACT**
📞		**AI**	**K**	**CCS**	**CCP**	**D**
		INTb	**AI**	**INT**	**PAN**	**INT**
		CCS	**D**	**AI**	**INT**	**PAN**
	🔑	**K**	**PAN**	**CCP**	**AI**	**CCS**
		CCP	**PAN**	**ACT**	**INT**	**K**
		PAN	**CCS**	**K**	**ACT**	**CCP**
		D	**INT**	**ACT**	**AI**	**INTb**
		INT	**INT**	**INT**	**INT**	**INT**
NULL	**NULL**	**NULL**	**NULL**	**NULL**	**NULL**	**NULL**
PROG						

Standard configuration for DIP switches 1-2-3-4 

Activation/deactivation Doctor mode

- ▶ Press and hold (4 s.) the programmed key *(Default key 3)*
  - » (ACTIVATION) ♪ + 3 flashes every 5 s.
  - » (DEACTIVATION) **BEEP**

Activation/deactivation Automatic Answer mode

- ▶ Press on the audio activation key 📞 for 4sec
  - » (ACTIVATION) ♪ + audio LED with FIXED ILLUMINATION
  - » (DEACTIVATION) **BEEP** + audio LED OFF

Configuration of Main and Secondary internal units - DIP 8 of S2

- To configure an internal unit as the main unit, set **DIP8** of **S2** to **OFF**.
- To configure an internal unit as a secondary unit, set **DIP8** of **S2** to **ON**.

In systems with Art. 1209 or Art. 1210, you can configure a maximum of 1 main monitor (+ 3 separately powered) while in systems with Art. 4888C you can configure a maximum of 2 main monitors (+ 2 separately powered).

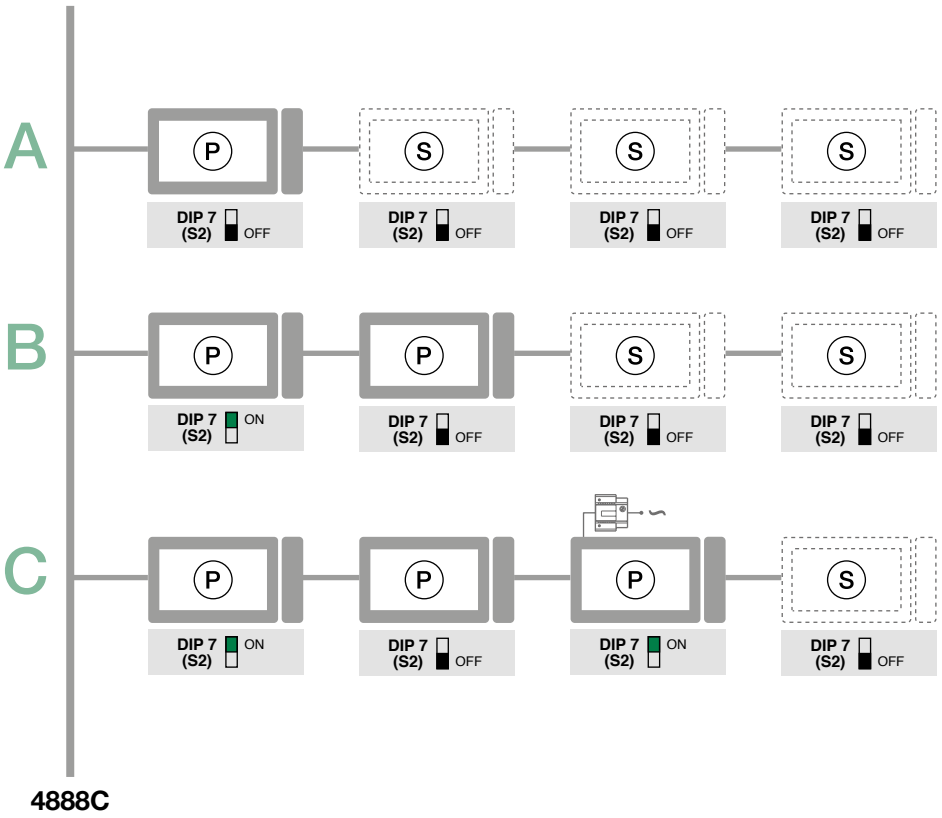
Power supply configuration and management - DIP 7 of S2

- For correct power management, the DIP switch should be set in accordance with the type of system and its configuration:
- **in systems with power supply units 1209 and1210:** always set the DIP switch to **ON**
- **in systems with power supply unit 4888C:** for secondary internal units, always set the DIP switch to **OFF**, for main internal units, follow the indications given in the examples in the figure below:

  A. 1 main internal unit,

  B. 2 main internal units,

  C. 3 main internal units of which 1 is powered separately.



Advanced monitor configuration

Warning

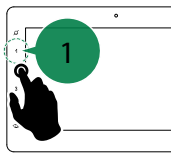
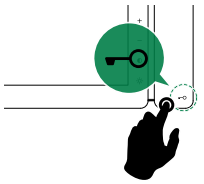
If the default settings (see table **"Standard configuration for soft-touch keys"**) do not reflect requirements, the keys can be programmed differently by carrying out the steps below.
At the end, set S2 DIP switches 1-2-3-4 to the combination 1111 (PROG setting in the configuration tables "Advanced monitor configuration"). In this dip switch setting, the keys control the programmed functions; the NON-programmed keys control functions referred to on line 0000 (see table "Standard configuration for soft-touch keys". Restore the user code setting on S1, see addressing table.

Programming for intercom call

General intercom: function allowing calls to one or more internal units identified by the same call address as used by the external unit.
Selective intercom: function allowing calls to one or more internal units identified by a dedicated call address (see table B) which is different from the one used by the external unit.
General and selective intercoms CANNOT be used together on the same riser.

Programming/deleting intercom address (selective intercom only)

Take note of the S2, S1 setting and restore it when programming is complete

1)	2)	3)	
Programming; set code, table B S1 ON 1 2 3 4 5 6 7 8	S2 DIP: 1 2 3 4 5 6 / 0 0 0 1 1 1 S2 ON 1 2 3 4 5 6 7 8		
Cancellation **DIP ON** S1 ON 1 2 3 4 5 6 7 8	S2 DIP: 1 2 3 4 5 6 / 1 1 1 1 1 1 S2 ON 1 2 3 4 5 6 7 8		

Selective intercom addresses

You must set the intercom address on all the riser's internal units.
You can assign the same intercom address to a maximum of 3 internal units.
For group calls, select the desired intercom codes simultaneously (max. 3).

TAB. B

Code	DIP switch ON	S1	Code	DIP switch ON	S1
1	1		5	5	
2	2		6	6	
3	3		7	7	
4	4		8	8	

Programming buttons for intercom call

DIP-switch S2					DIP S1
DIP 1	DIP 2	DIP 3	DIP 4		
0	0	0	0		
1	0	0	0		
0	1	0	0		
1	1	0	0		
0	0	1	0		
1	0	1	0		
0	1	1	0		
1	1	1	0		
0	0	0	1		
1	0	0	1		
0	1	0	1		
1	1	0	1		
0	0	1	1		
1	0	1	1		
0	1	1	1		
1	1	1	1		

		1	2	3	4	
			INT	INTb		
		INT	INTb			
		INT			INTb	
		INTb		INT		INT
					INT	
					INT	
			INT			INTb
		INT	INT	INT	INT	INT
PROG						

ADDRESS

ON
12345678

Example 1 - all systems (INCLUDING KITS!) - General intercom
on a monitor with user code 5, P2 programming = general internal call, P3 = general intercom with address 9

Example 2 - Selective intercom
on a monitor with user code 1 and intercom address 1, P2 programming = selective intercom with address 2, P3 = selective intercom with address 3

1. Set S2 DIP switches 6 to the combination 1.
   - » the privacy LED flashes.

S2 DIP						
1	2	3	4	5	6	S2
0	0	0	0	0	1	

ON
12345678

2. Refer to the table **"Programming buttons for intercom call"** and select a combination in which the intercom function (either INT or INTb) is listed for the buttons you wish to program.
   EXAMPLE 1: for P2= general internal call, set S2 DIP switches 1-2-3-4 to the combination 1000 or 0011 or 1011 (P2=INT) or 0100 (P2=INTb) and set S1 with address 5 as per **addressing table**, then go to point 3
   EXAMPLE 1: for P3= general intercom, set S2 DIP switches 1-2-3-4 to the combination 1110 or 1011 (P3=INT) or 1000 (P3=INTb) and set S1 with address 9 as per **addressing table**, then go to point 3
   EXAMPLE 2: for P2= selective intercom, set S2 DIP switches 1-2-3-4 to the combination 1000 or 0011 or 1011 (P2=INT) and set S1 with address 2 as **table B**, then go to point 3
   EXAMPLE 2: for P3= selective intercom, set S2 DIP switches 1-2-3-4 to the combination 1110 or 1011 (P3=INT) and set S1 with address 3 as **table B**, then go to point 3.
3. Press and release the key to be associated with the function
   - » the lock-release LED flashes 4 times.
   - » a confirmation tone will sound.
4. To exit programming mode, set S2 DIP switches 5-6 to the combination 00
   - » the privacy LED switches off
5. **When programming is complete, set S2 DIP switches 1-2-3-4 to the combination 1111. Restore the user code setting on S1, see addressing table.**

Direct programming of intercom call

Allows direct programming of intercom call via the internal units.

✓ Requires 2 operators

Step 1: enter programming mode

Operator 1 and Operator 2 carry out the following procedures on 2 internal units:

1. Set S2 DIP switches 1-2 -3-4 to the combination 1111
2. Press the Key and Self-ignition button for 2 seconds.
   - » The internal unit emits 1 tone.
   - » The privacy LED flashes.
   - » The audio button LED lights up.
   - » The internal unit enters audio mode.
   - » At this point the 2 operators will be communicating with each other.

Step 2: intercom call programming

Operator 1:

▶ Press the key you want to program to call operator 2 (e.g. 2).

» The internal unit manned by operator 1 emits a confirmation tone.

Operator 2:

▶ Press the key you want to program to call operator 1 (e.g. 1).

» The internal unit manned by operator 2 emits a confirmation tone.

Operator 1/ Operator 2:

▶ Press the audio key .

» The audio button LED goes OFF.

» Programming of the 2 internal units is now complete.

To program another internal unit, move on to STEP 3.

Step 3: programming other internal units

Operator 1/ Operator 2:

1. Once the new station has been reached, carry out step 1 to begin communication
2. Repeat step 2

NOTE If a call is received during programming, it must be answered and the programming procedure resumed afterwards.

Programming keys for generic or coded actuator

DIP-switch S2												DIP S1
DIP 1	DIP 2	DIP 3	DIP 4	📞	🔑	1	2	3	4	👁		
0	0	0	0				ACT					
1	0	0	0			ACT						
0	1	0	0		🔑			ACT				
1	1	0	0			ACT						
0	0	1	0		ACT	ACT	ACT	ACT	ACT	ACT		
1	0	1	0							ACT		
0	1	1	0									ADDRESS
1	1	1	0	📞								
0	0	0	1									
1	0	0	1		🔑							
0	1	0	1					ACT				
1	1	0	1						ACT			
0	0	1	1					ACT				
1	0	1	1									
0	1	1	1									
1	1	1	1	PROG								

Example:
on a monitor with user code 5, P1 programming = generic actuator, 👁 = coded actuator (code 125)

Take note of the DIP-switch settings

1. Set S2 DIP switches 6 to the combination 1.

» the privacy LED 🔔 flashes.

S2 DIP						
1	2	3	4	5	6	S2
0	0	0	0	0	1	

2. Refer to the table **"Programming keys for generic or coded actuator"** select a combination in which the actuator function (ACT) is listed for the buttons you wish to program.
E.g.: for P1= generic actuator, set S2 DIP switches 1-2-3-4 to the combination 1000 or 1100 or 0010 (P1=ACT), set S1 DIP switches to the combination 11111111, then go to point 3.
E.g.: for 👁 = coded actuator (code 125), set S2 DIP switches 1-2-3-4 to the combination 0010 or 1010 (👁 =ACT), set S1 with address 125 as per **addressing table**, then go to point 3.

3. Press and release the key to be associated with the function.

» the lock-release LED 🔑 flashes 4 times.

» a confirmation tone will sound.

4. To exit programming mode, set S2 DIP switches 5-6 to the combination 00.

» the privacy LED 🔔 switches off.

5. When programming is complete, set S2 DIP switches 1-2-3-4 to the combination 1111. Restore the user code setting on S1, see addressing table.

Programming buttons for other functions

DIP-switch S2				Programmable functions							DIP S1
DIP 1	DIP 2	DIP 3	DIP 4	📞	🔑	1	2	3	4	👁	
0	0	0	0			CCS		D	PAN	AI	
1	0	0	0		🔑				D	AI	
0	1	0	0						CCS	AI	
1	1	0	0				CCP	PAN	K	CCS	
0	0	1	0								
1	0	1	0				CCS	CCP			
0	1	1	0	📞		AI	K	CCS	CCP	D	ADDRESS
1	1	1	0				AI		PAN		ON 12345678
0	0	0	1			CCS	D	AI		PAN	
1	0	0	1		🔑	K	PAN	CCP	AI	CCS	
0	1	0	1			CCP	PAN			K	
1	1	0	1			PAN	CCS	K		CCP	
0	0	1	1			D			AI		
1	0	1	1								
0	1	1	1	NULL	NULL	NULL	NULL	NULL	NULL	NULL	
1	1	1	1	PROG							

Example:
on a monitor with user code 5, P4 programming = self-ignition, P1 = Doctor.

1. Set S2 DIP switches 6 to the combination 1.

» the privacy LED 🔔 flashes.

S2 DIP						S2	ON 12345678	⇒	🔔
1	2	3	4	5	6				
0	0	0	0	0	1				

2. Refer to the table **"Programming buttons for other functions"** and select a combination in which the desired/necessary functions are listed for the buttons you wish to program.
E.g.: for P4= self-ignition, P1 = Doctor, set S2 DIP switches 1-2-3-4 to the combination 0011 (P4=AI, P1=D).

3. Press and release the keys to which you wish to assign the functions

» the lock-release LED 🔑 flashes 4 times.

» one confirmation tone is emitted.

4. To exit programming mode, set S2 DIP switches 5-6 to the combination 00

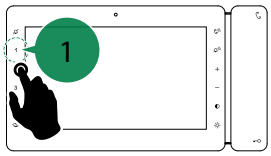
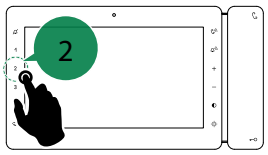
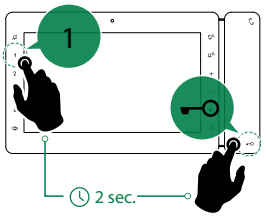
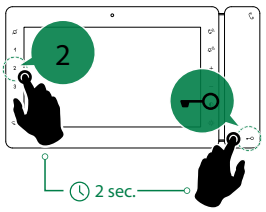
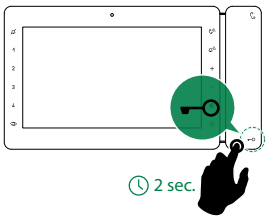
» the privacy LED 🔔 switches off.

5. When programming is complete, set S2 DIP switches 1-2-3-4 to the combination 1111.

Programming range

Take note of the S2, S1 setting and restore it when programming is complete

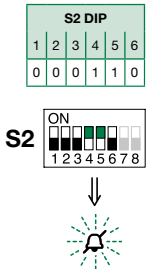
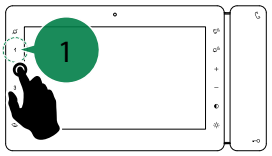
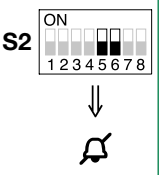
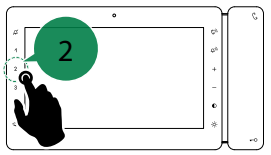
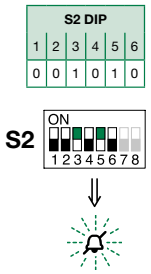
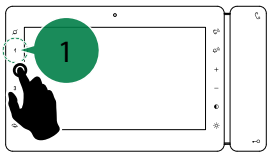
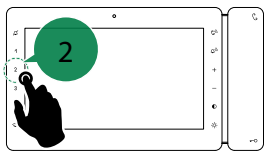
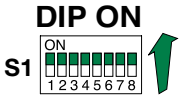
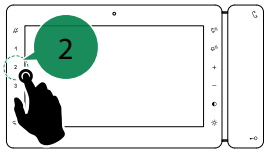
▶ Carry out steps 1 to 4

	1)	2)	3)		4)
Range minimum address	S1 ON 1 2 3 4 5 6 7 8 set code, addressing table	S2 DIP: 1 2 3 4 5 6 / 0 0 0 0 1 0 S2 ON 1 2 3 4 5 6 7 8 ⇓		OK Prog. x4 KO Prog. x10	S2 ON 1 2 3 4 5 6 7 8 ⇓
Range maximum address					
Enable range					
Disable range					
Deleting the range	DIP ON S1 ON 1 2 3 4 5 6 7 8	S2 DIP: 1 2 3 4 5 6 / 1 1 1 1 1 0 S2 ON 1 2 3 4 5 6 7 8 ⇓			

LED/alarm/lock-release/actuator programming

Take note of the S2, S1 setting and restore on completion of programming

▶ Carry out steps 1 to 4

	1)	2)	3)		4)
Input IN 1- IN 2 ⟹ LED (default)*					
Input CFP2 - IN 1 ⟹ ALARM*					
Input CFP2 - IN 1 ⟹ LOCK-RELEASE*					
Input CFP2 - IN 1 ⟹ CODED ACTUATOR*	 set code, addressing table				
Input CFP2 - IN 1 ⟹ GENERIC ACTUATOR*					

* See "Connections".

Changing monitor ringtones

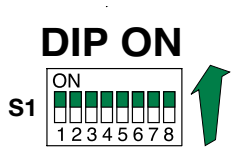
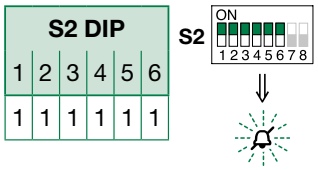
1. Keep the ⊸O button pressed until a confirmation tone is emitted (this operation is only possible with the system in stand-by; otherwise the signalling LED will flash to warn the user)
2. Press and release the ⊸O button:
   once (1 confirmation tone is emitted) to change the ringtone of calls from the external unit.
   twice (2 confirmation tones are emitted) to change the ringtone for calls from the switchboard.
   3 times (3 confirmation tones are emitted) to change the ringtone for intercom calls made from the internal unit.
   4 times (4 confirmation tones are emitted) to change the floor door ("CFP") call ringtone.
   Any further pressing of the ⊸O repeats the sequence described above.
3. Press and release button 1 to scroll through the various available ringtones in sequence.
4. Press button 2 to confirm selection of the last ringtone heard and to exit (at any time) the monitor ringtone change mode. On exiting the monitor ringtone selection mode a confirmation tone will be emitted.

Programming reset

Factory settings:

- Button functions for the S2 DIP switch 1-2-3-4 combination;
- Intercom address absent;
- Range function and min./max. addresses absent;
- Ringtone reset.
- Input IN 1 - IN 2 > LED (default).
- Doctor, Privacy and Hands Free functions disabled.

Take note of the S2, S1 setting and restore on completion of programming

1)	2)	3)
		

System performance and layouts

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

- **Audio/video kit** for the creation of audio-video systems for *individual residences*
- **Building Kit audio/video system** for the creation of audio-video systems for *small apartment blocks*
- **SBTOP audio/video system** for the creation of audio-video systems for *residential complexes*.

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