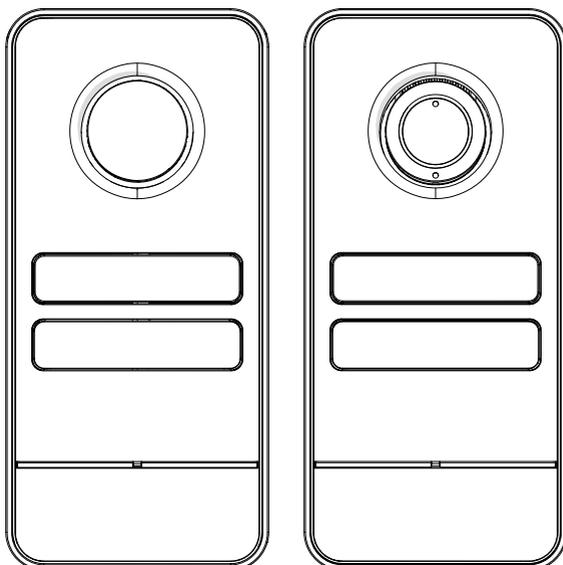




FA01639-EN



LHS A/01

LHS V/01

LHS V/01 PLUS

GENERAL PRECAUTIONS

Read the instructions carefully before beginning the installation and carry out the procedures as specified by the manufacturer.

- Installation, programming, commissioning and maintenance must only be carried out by qualified, expert technicians and in full compliance with the applicable law.
- Before carrying out any cleaning or maintenance, disconnect the device from the power supply.
- Wear anti-static clothing and footwear if performing work on the circuit board.
- Only use this product for its intended purpose. Any other use is hazardous.
- Came S.p.A. is not liable for any damage caused by improper, erroneous or unreasonable use.
- The product, in its original packaging supplied by the manufacturer must only be transported in a closed environment (railway carriage, containers, closed vehicles).
- If the product malfunctions, stop using it and contact an authorised support centre.

 **If the production batch is not immediately identifiable, please contact customer services.**

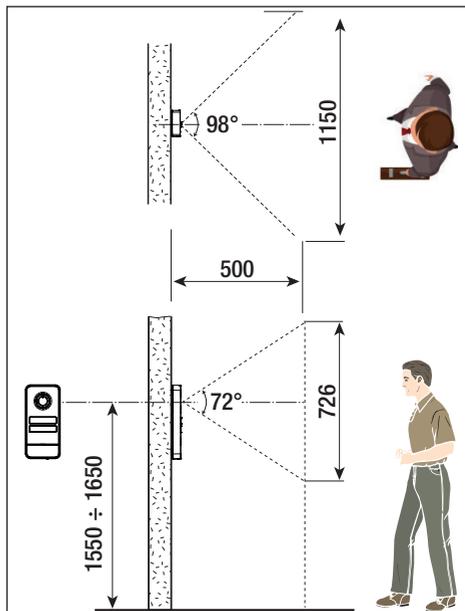
 **The general conditions of sale are given in the official CAME price lists.**

Legislative References

This product complies with the applicable standards in force at the time of manufacturing.

CAME S.p.A. declares that the product described in this manual complies with Directive 2014/53/EU and the Radio Equipment Regulations 2017.

The full EC declaration of conformity and UK Conformity Assessed (UKCA) marking information can be found at www.came.com.



Description

LHS A/01 (840AA-0060)

Monolith intercom entry panel for X1 system expandable up to 4 calls.

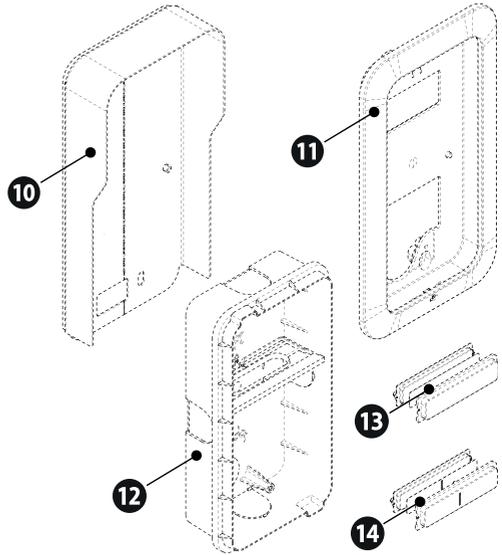
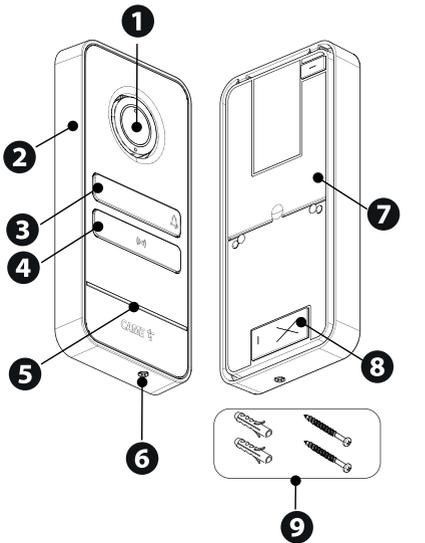
LHS V/01 (840AA-0040)

Monolith video entry panel for X1 system expandable up to 4 calls.

LHS V/01 PLUS (840AA-0050)

Monolith video entry panel for X1 system expandable up to 4 calls, with Bluetooth and built-in RFID reader for access control.

Description of parts

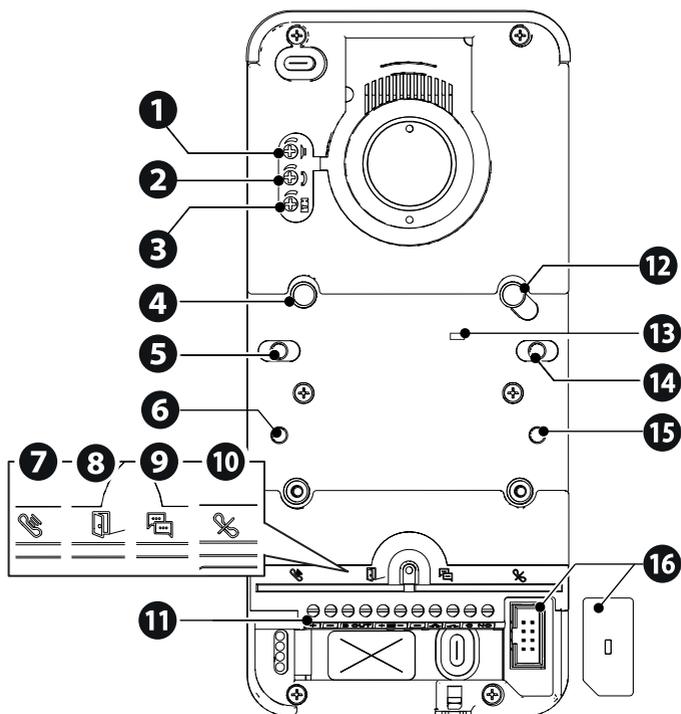


- 1 Video camera lens*
- 2 Front cover
- 3 Button
- 4 Hole cover
- 5 Microphone
- 6 Front cover fastening screw
- 7 Back
- 8 Wiring hole
- 9 Screws and expansion plugs

Optional accessories

- 10 Rain cover
- 11 Recessed-mount profile and frame
- 12 Back box
- 13 Single button
- 14 Double button

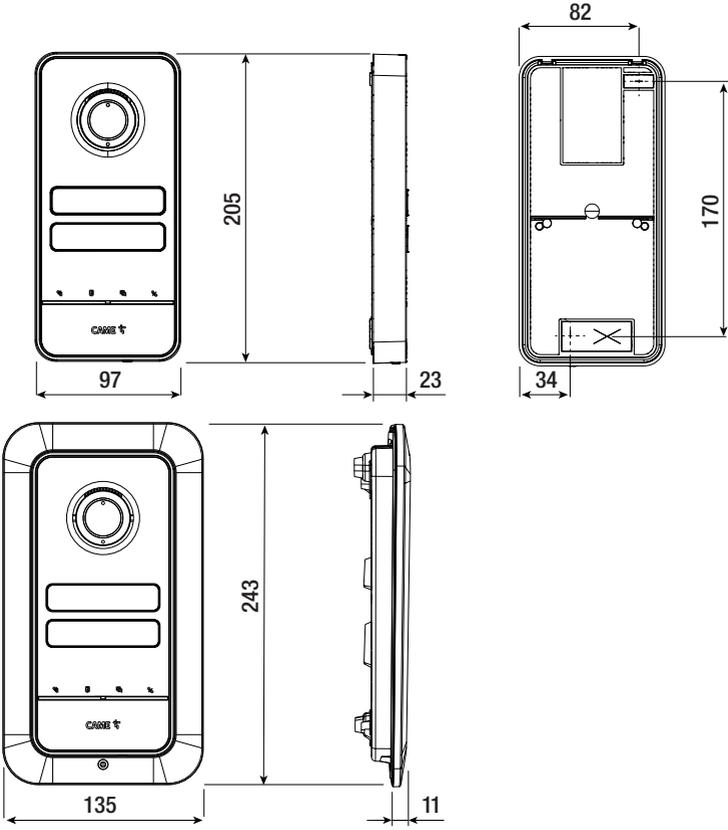
* Video versions only (840AA-0050/840AA-0040)



- | | |
|--|--|
| 1 Speaker volume control | 9 Warning LED Conversation in progress |
| 2 Microphone volume control | 10 Warning LED System busy |
| 3 Electric lock opening time control | 11 Terminal block |
| 4 RESET button | 12 PROG button |
| 5 Call button P1 | 13 PROG LED (yellow) |
| 6 Call button P3 | 14 Call button P2 |
| 7 Warning LED Call in progress | 15 Call button P4 |
| 8 Warning LED Electric lock activation | 16 CAME KEY connector and rubber cap |

RESET button

The [RESET] button allows you to restart the device.



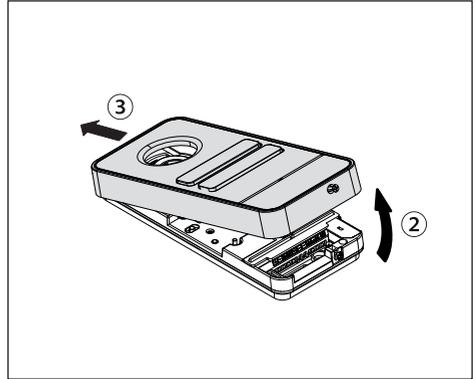
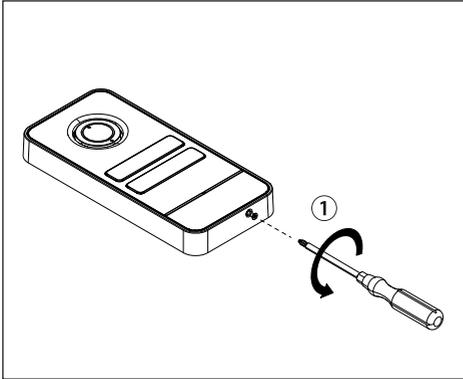
Technical data

MODELS	LHS V/01	LHS V/01 PLUS	LHS A/01
IP protection rating	54	54	54
IK protection rating	09	09	09
Operating temperature (°C)	-25 ÷ +55	-25 ÷ +55	-25 ÷ +55
Storage temperature (°C) *	-25 ÷ +70	-25 ÷ +70	-25 ÷ +70
Dimensions (mm)	97 x 205 x 23	97 x 205 x 23	97 x 205 x 23
Consumption (mA)	190	220	150
Consumption in stand-by mode (mA)	90	110	80
Power supply (V DC)	16-18 DC	16-18 DC	16-18 DC
Video standard	PAL	PAL	-
Minimum lighting (LUX)	1	1	-
Standard wireless	-	Bluetooth LE 5.0	-
Bluetooth radio frequency (MHz)	-	2400	-
RFID frequency (kHz)	-	125	-
Bluetooth transmission power (dBm)	-	-25 ÷ +3	-
Material colour	Matt grey 9023	Matt grey 9023	Matt grey 9023

(*) Before installing the product, keep it at room temperature where it has previously been stored or transported at a very high or very low temperature.

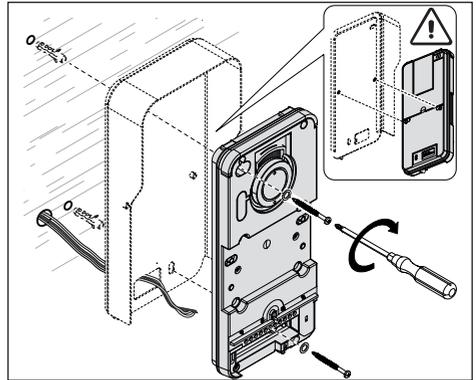
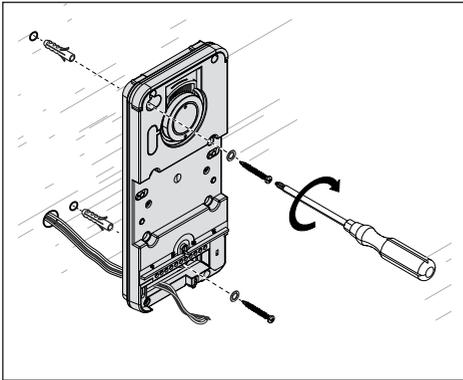
INSTALLATION

Preliminary operations

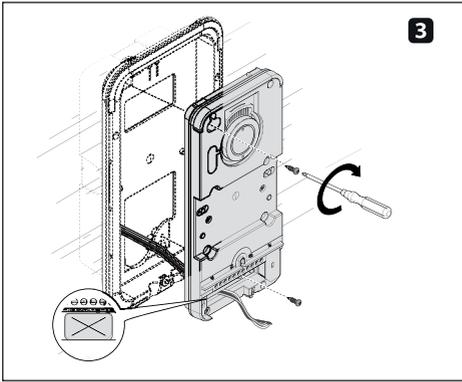
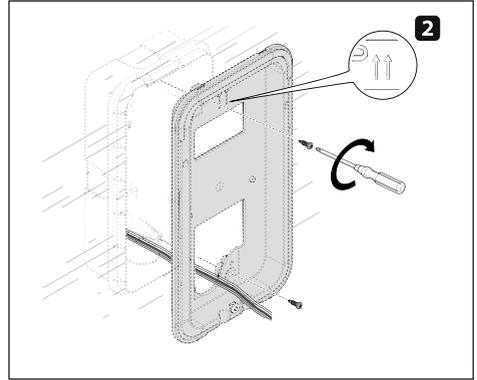
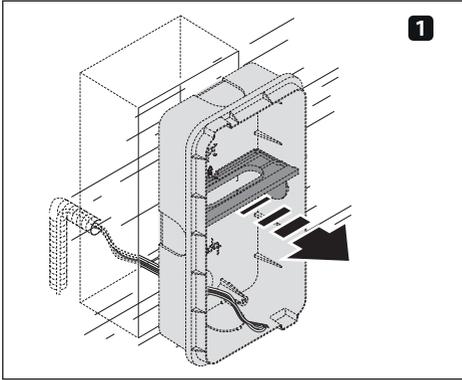


Wall-mounted installation

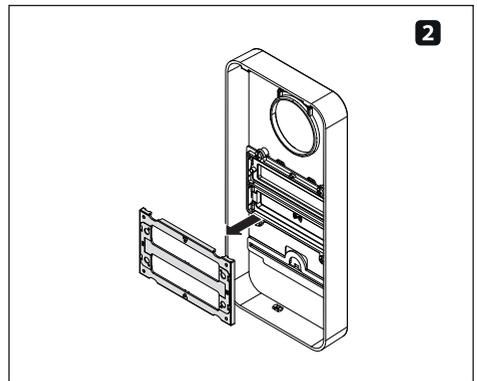
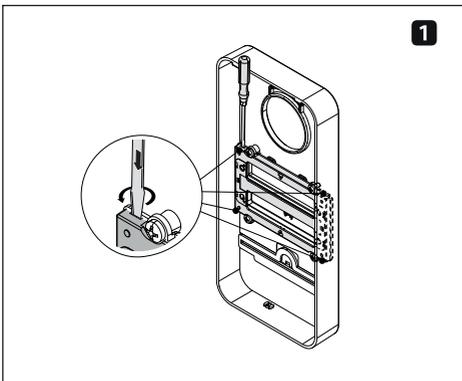
Installation with rain cover (optional)

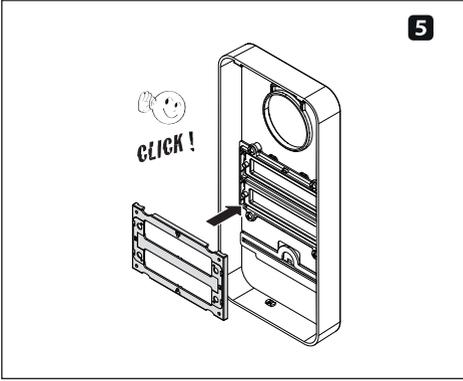
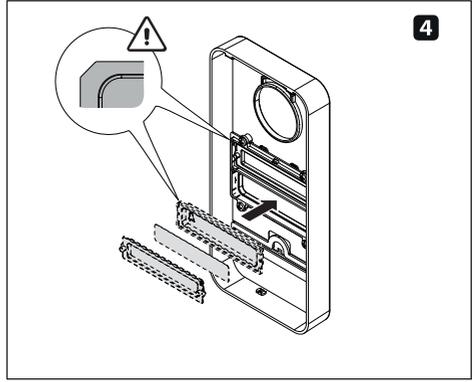
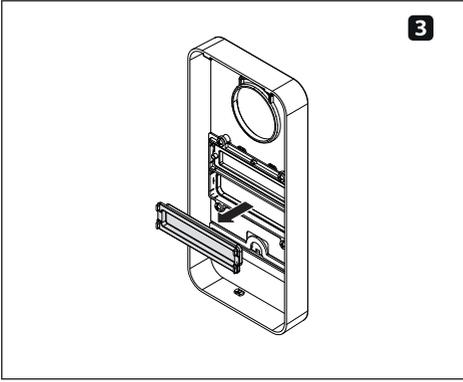


Recess installation

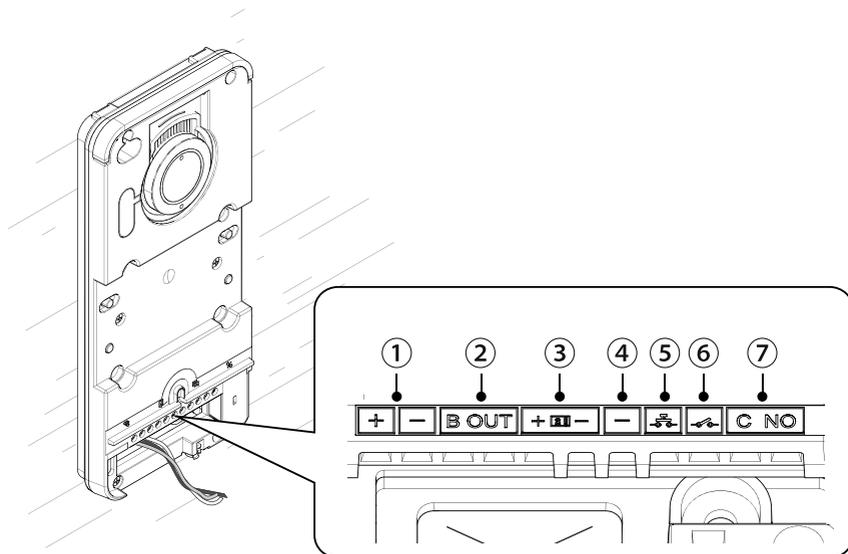


Button assembly



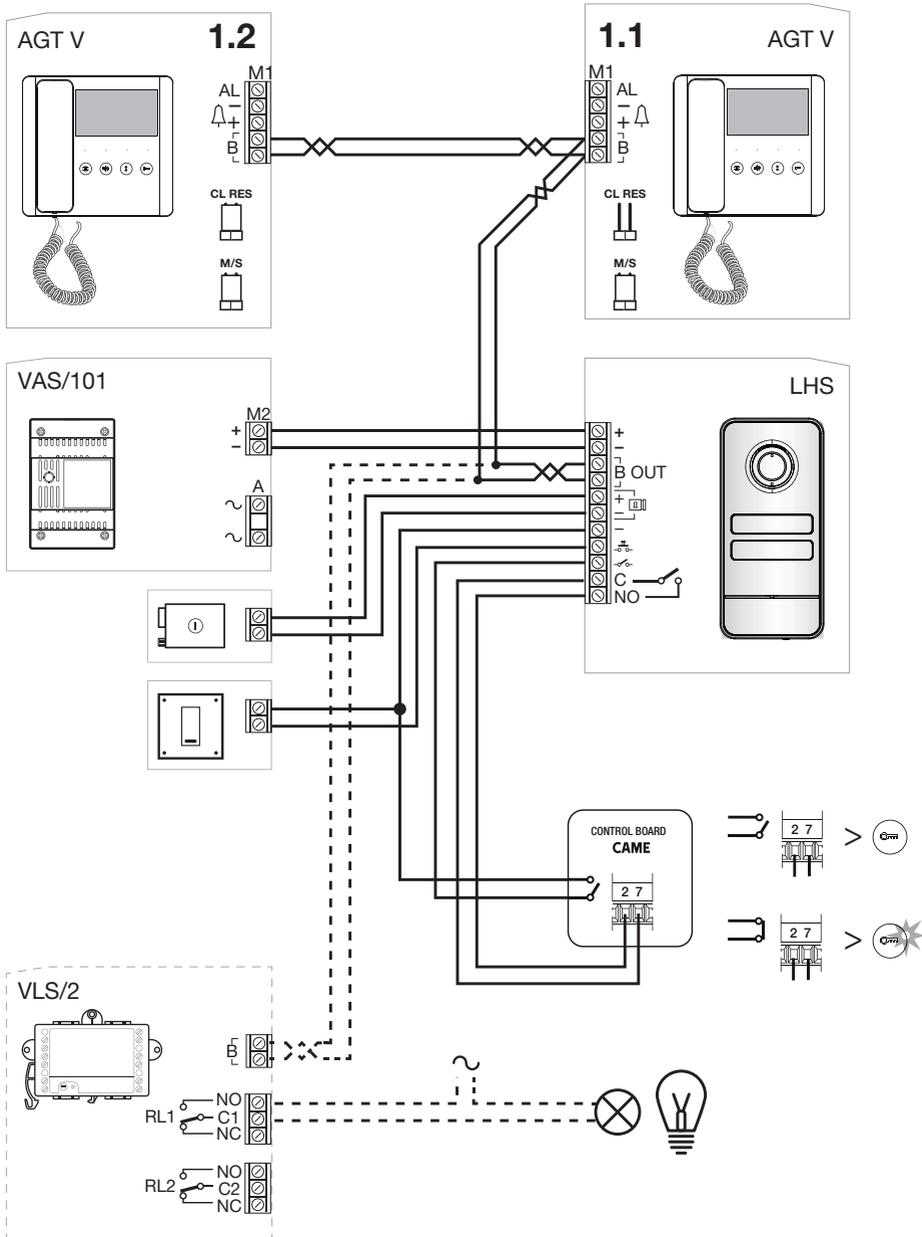


Function of terminals

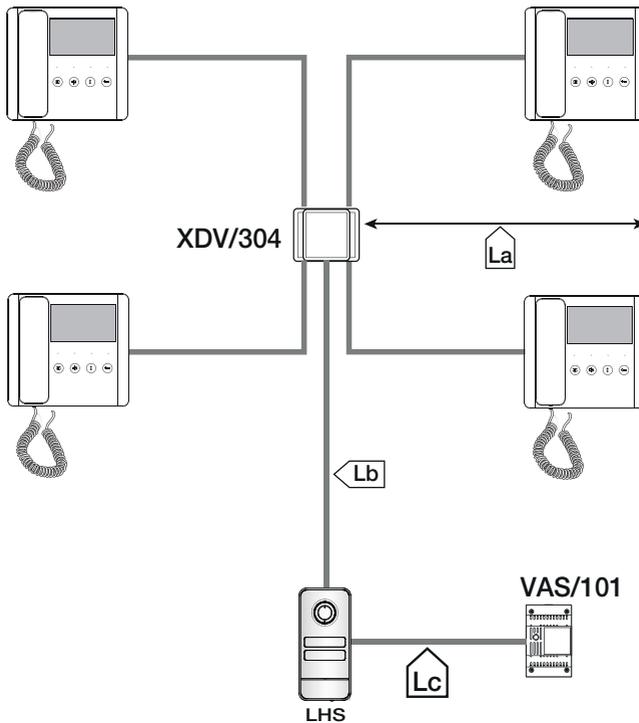


- ① Local power supply input 16-18 V DC
- ② BUS output
- ③ Max. 12V - 1A electric lock
- ④ Earth

- ⑤ Door release button (NO)
- ⑥ Programmable I/O (Default NO port contact input)
- ⑦ Max. auxiliary contact 1 A 30 V (Default AUX 2)



Example set-up without VA/01



Cable length

Section	Cable type
La, Lb	VCM/1D or UTP CAT5
Lc	2x1mm ² or 2x2.5mm ²

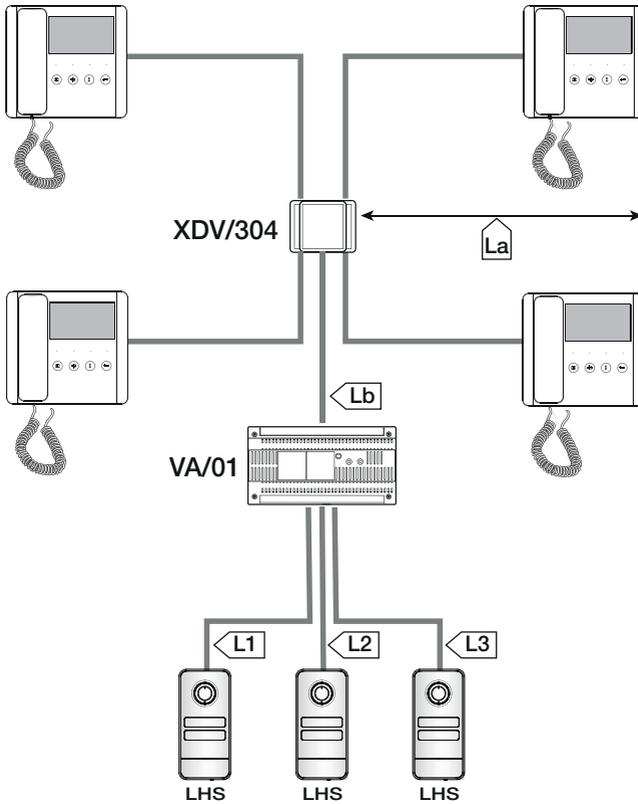
Section	Max. section length (m)
La + Lb	100 VCM/1D or 60 UTP/CAT 5
Lc	25 (2x1mm ²) or 60 (2x2.5mm ²)

Maximum number of internal receivers per cable type

		VCM/1D		
Master	Slave	3	2	1
	Master	0	3	7

		UTP CAT5	
Master	Slave	1	
	Master	7	

Example set-up with VA/01



Cable length

Section	Cable type
La, Lb	VCM/1D or UTP CAT5
L1, L2, L3	VCM/2D
Section	Max. section length (m)
La + Lb	100 VCM/1D or 60 UTP/ CAT 5
L1 + L2 + L3	300
La + Lb + L1 (L2, L3)	150
La + Lb + L1 + L2 + L3	600

Maximum number of internal receivers per cable type

		VCM/1D			
Master	4	3	2	1	
Slave	4	5	6	7	
		UTP CAT5			
Master	3	2	1		
Slave	0	6	7		

PROGRAMMING

 With a CAME KEY device, the CONNECT SetUp app can also be used for programming.



PROGRAMMING ENTRY PANELS WITHOUT VA/01 - A/01

Summary table PROG button functions

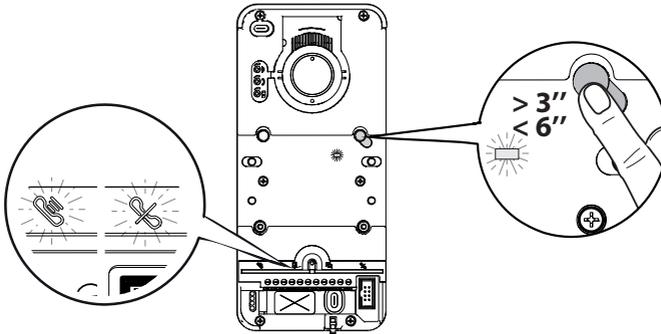
Press for 3 to 6 seconds	Enter first programming Program calls in an already programmed system Force switch from programming calls to programming buttons
Press for 8 to 11 seconds	Associating INTERCOM buttons
Press for more than 20 seconds	Enabling/Disabling the intercom function
Press once	Send the device serial number to programming tool Exit programming mode

PROG LED button

Fixed	Program call buttons
Slow flash	Programming calls Associating internal receivers Program proximity cards or tags*
Quick flash	Enable/disable intercom function Associating INTERCOM buttons

*LHS PLUS only

Entering programming mode



Press the [PROG] button for 3 seconds to enter programming mode.

⚠ **Release the button within 6 seconds.**

The warning LEDs   will flash together with the button LEDs.

The [PROG] LED will remain on.

⚠ **If the [PROG] LED does not light up, there has been a malfunction. Check the connections and try again.**

Programming the call buttons

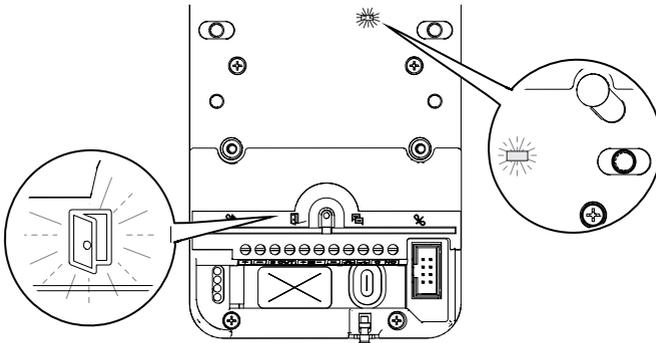
Press [P1] to configure 2 x two-way buttons (max 4 calls).

Press [P2] to configure two single buttons (max 2 calls).

The  LED and the call button LEDs switch off.

 **Once [Call button programming] is complete, you are automatically taken to [Programming calls].**

Programming calls



In [Programming calls] the  LED and the [PROG] LED will flash.

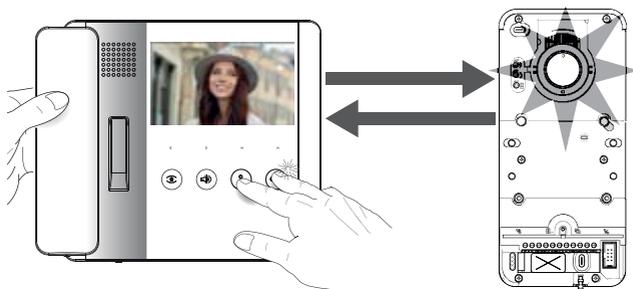
The call button LEDs will remain on.

From here you can continue with further programming.

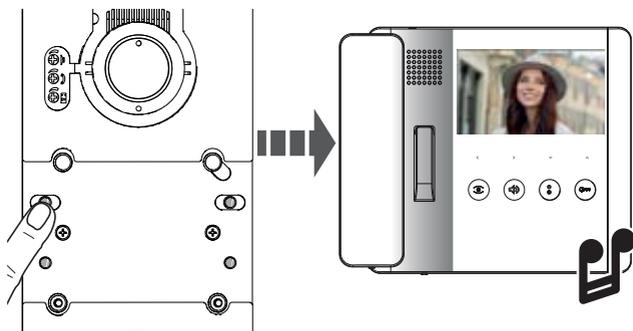
 **When reprogramming a system, you start from this step. You do not need to program the call buttons again.**

 **To repeat [Programming call buttons] see the paragraph on [Reprogramming a system].**

Associating internal receivers



In [Programming calls] lift the internal-receiver handset to be configured (if present) and press and hold the  and  buttons together
The video and the LED crown on the video camera will activate (video versions only).



On the entry panel, press the call button to be associated with the internal receiver.

 A tone confirms that the setting has been stored.

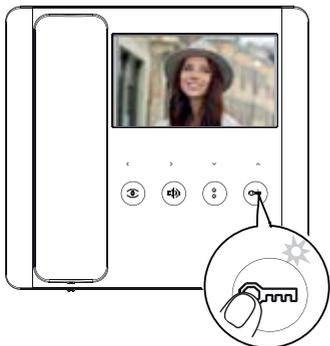
Programming OPEN GATE and GATE STATUS function (latch)*

*Only for internal receivers with OPEN GATE function

Use this function to control and display the gate status (open/closed). The operator status is indicated by the  LED on the internal receiver switching on or off.

 The operator can be controlled via the entry panel auxiliary relay.

 The DOOR STATUS function is active by default. It is automatically deactivated when the OPEN GATE and GATE STATUS function is enabled.



 **Enable the function when associating the internal receiver.**

Press and hold the  button. The LED switches on to confirm the function was activated.

 **Repeat the procedure for each internal receiver on which you wish to activate the function.**

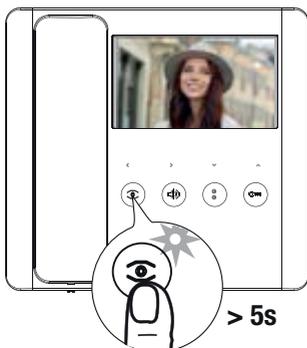
 **Re-associating the internal receiver automatically deactivates the OPEN GATE function, which must be reactivated.**

Programming the AUTOMATIC DOOR RELEASE function*

***For internal receivers with AUTOMATIC DOOR RELEASE function only**

This function is used to open the entrance automatically when there is a call from the entry panel. No communication is activated and the call ends automatically.

 **Enabling the function allows the user to activate/deactivate it as required. The function is enabled by default.**



 **Program the function when associating the internal receiver.**

Press and hold the  button for more than 5 seconds to enable or disable the function.

 **If the  LED remains on, the function is enabled.**

 **If the  LED flashes, the function is disabled.**

End the call and repeat programming for all of the other internal receivers.

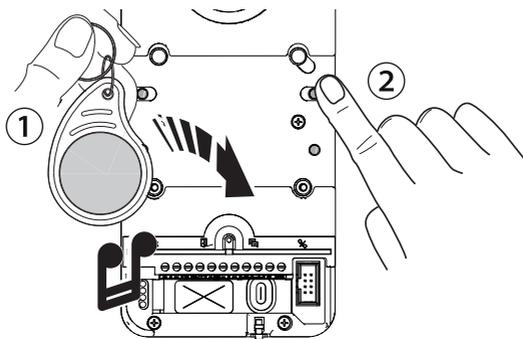
Programming proximity cards or tags*

*LHS V/01 PLUS model only

This function is used to program proximity cards or tags, and assign one or more outputs to each to be controlled.

⚠ Do this when there are no internal receivers being associated.

⚠ Each new programmed card/tag overwrites the previous one.



① In [Programming calls], run the proximity card or tag over the RFID reader.

② Assign a function to the card/tag by pressing and holding the corresponding call button. Continue to press the button until you hear a tone to confirm.

Key	Output/Function
P1	Door release
P2	Auxiliary relay
P3	Relay 1 of actuator (e.g. VSL/2)
P4	Relay 2 of actuator (e.g. VSL/2)

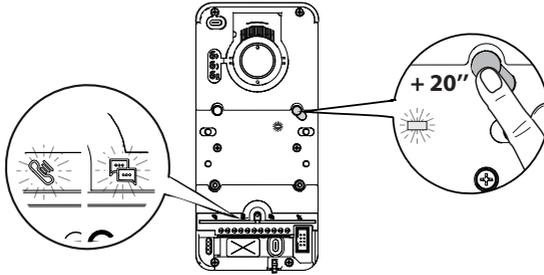
📖 Saved cards and tags can be deleted by restoring the device to factory settings. See the paragraph [Restoring factory settings].

Programming the intercom function

Enabling/Disabling the intercom function

 With VSE/301.01, please see the power supply unit documentation. Leave the function disabled on the entry panel.

 The feature is disabled by default.



Press and hold the [PROG] button for approximately 20 seconds, until the  and  LEDs flash quickly for 3 seconds. The [PROG] LED will flash quickly.

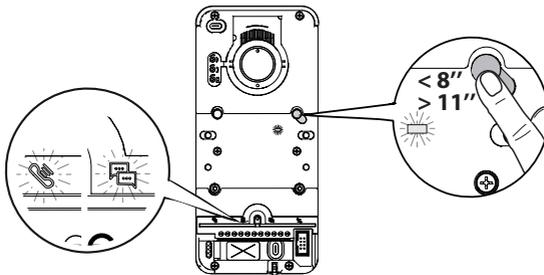
A beep confirms set-up was successful and the [PROG] LED switches off.

 In case of activation the  LED will switch off, and the  LED will stay on for a further 2 seconds.

 In case of deactivation the  LED will switch off, and the  LED will stay on for a further 2 seconds.

Associating INTERCOM buttons

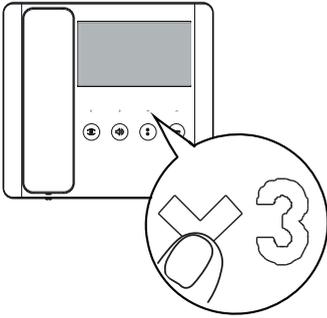
 Do this only after associating a call button to every receiver.



Press the [PROG] button for at least 8 seconds.

 Release the [PROG] button within 11 seconds.

The [PROG] LED and the  and  warning LEDs flash quickly.



On the internal receiver, press the INTERCOM button with which you wish to associate it.

Wait for the beep that will confirm successful programming.
Repeat for all the internal receivers you wish to include in the intercommunicating group.

Exiting programming mode

To exit programming mode, press the [PROG] button. All LEDs except the button LEDs will switch off.

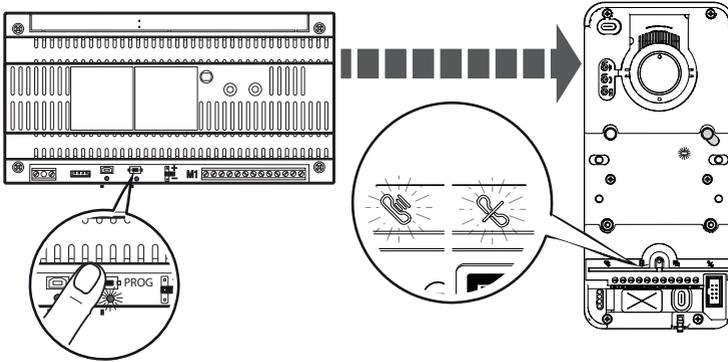
Reprogramming a system

In an already programmed system, pressing the [PROG] button takes you directly to the [Programming calls] phase.
You do not need to perform [Programming call buttons] again.

 To force [Programming call buttons] again, press and hold the [PROG] button for at least 3 seconds and no longer than 6.

 You will need to run [Associate internal receivers] and [Program OPEN GATE and GATE STATUS function] again

Entering programming mode

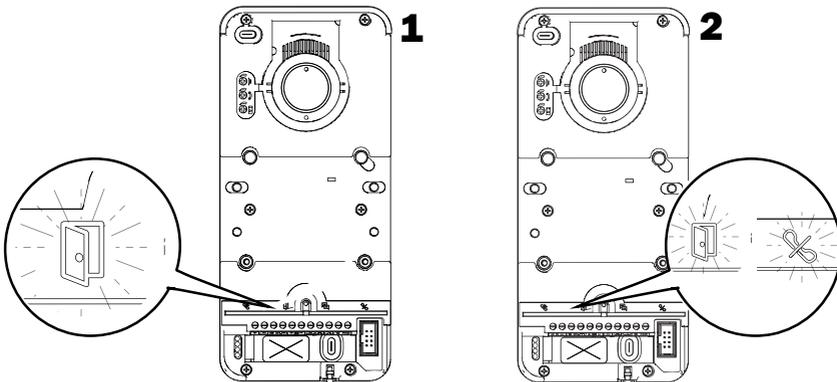


Press and hold the power supply unit [PROG] button for at least 3 seconds.
The  LEDs will flash together with the [P1-P4] button LEDs.
The [PROG] LED on the power supply unit and entry panel turn on and stay on.

Programming call buttons

Press [P1] to configure 2 x two-way buttons (max 4 calls).
Press [P2] to configure two single buttons (max 2 calls).
The  LED and the call button LEDs will stop flashing.

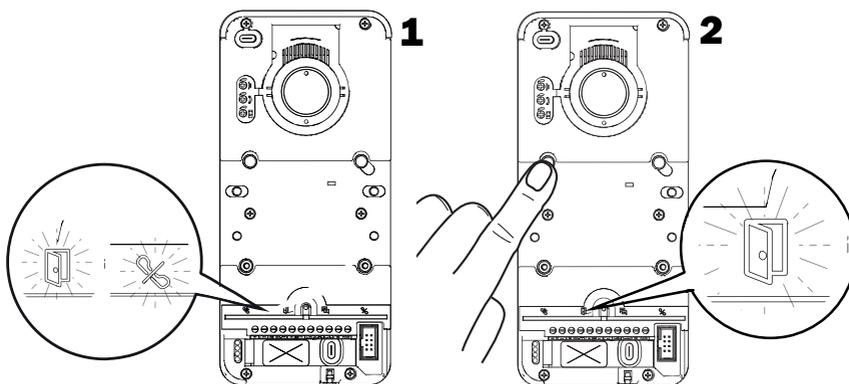
Programming calls



In [Programming calls], the  LED and the [PROG] LEDs flash.
The call button LEDs will remain on.

 In a system with multiple entry panels, you can only program one entry panel at a time only, identified by the lit  LED.

On the remaining entry panels, the  LED will remain on.

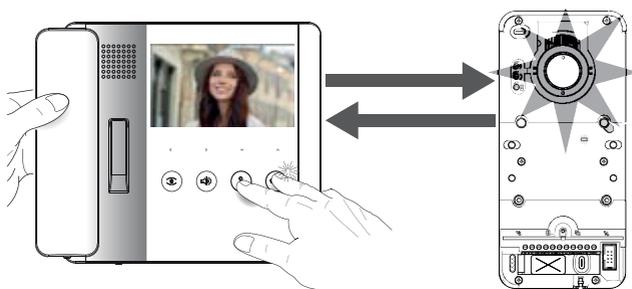


To continue with programming on a second entry panel, press any active call button. The  LED will switch off.

 **When reprogramming a system, you start from this step. You do not need to program the call buttons again.**

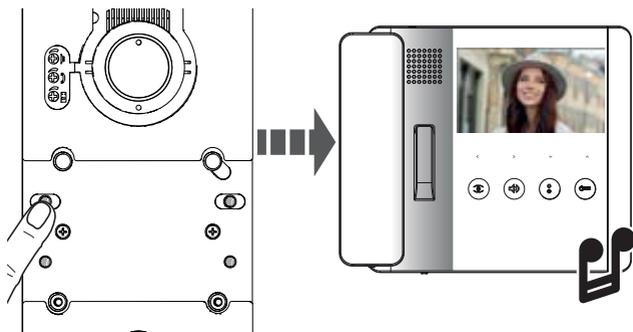
 **To repeat [Programming call buttons] see the paragraph on [Reprogramming a system].**

Associating internal receivers



In [Programming calls] lift the internal-receiver handset to be configured (if present) and press and hold the  and  buttons together

The video and the LED crown on the video camera will activate (video versions only).



On the entry panel, press the call button to be associated with the internal receiver.

 A tone confirms that the setting has been stored.

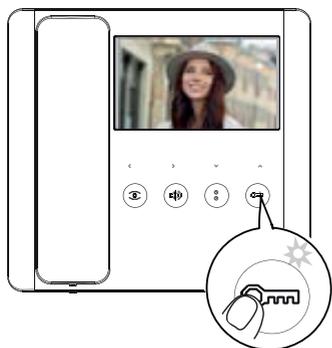
Programming OPEN GATE and GATE STATUS function (latch)

Only for internal receivers with OPEN GATE function

Use this function to control and display the gate status (open/closed). The operator status is indicated by the  LED on the internal receiver switching on or off.

 The operator can be controlled via the entry panel auxiliary relay.

 The DOOR STATUS function is active by default. It is automatically deactivated when the OPEN GATE and GATE STATUS function is enabled.



 Program the function when associating the internal receiver.

Press and hold the  button. The LED switches on to confirm the function was activated.

 Repeat the procedure for each internal receiver on which you wish to activate the function.

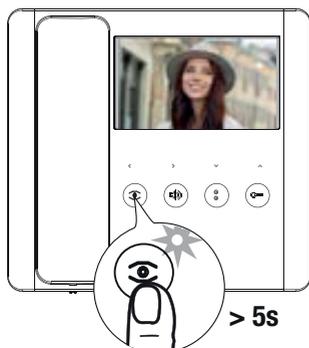
 Re-associating the internal receiver automatically deactivates the OPEN GATE function, which must be reactivated.

Programming the AUTOMATIC DOOR RELEASE function*

*For internal receivers with AUTOMATIC DOOR RELEASE function only

This function is used to open the entrance automatically when there is a call from the entry panel. No communication is activated and the call ends automatically.

 Enabling the function allows the user to activate/deactivate it as required. The function is enabled by default.



 Program the function when associating the internal receiver.

Press and hold the  button for more than 5 seconds to enable or disable the function.

 If the  LED remains on, the function is enabled.

 If the  LED flashes, the function is disabled.

End the call and repeat programming for all of the other internal receivers.

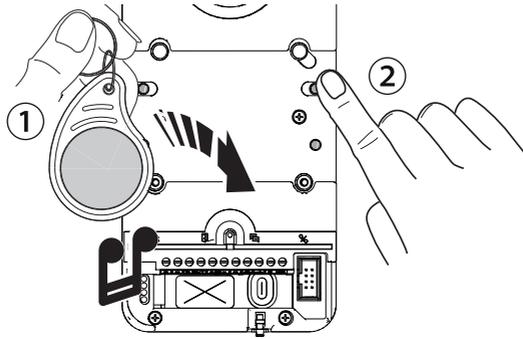
Programming proximity cards or tags with local control*

*LHS V/01 PLUS model only

This function is used to program proximity cards/tags, and assign one or more outputs to each to be controlled.

⚠ **Do this when there are no internal receivers being associated.**

⚠ **Each new programmed card/tag overwrites the previous one.**



① In [Programming calls], run the proximity card or tag over the RFID reader.

② Assign a function to the card/tag by pressing and holding the corresponding call button. Continue to press the button until you hear a tone to confirm.

Key	Output/Function
P1	Door release
P2	Auxiliary relay
P3	Relay 1 of actuator (e.g. VSL/2)
P4	Relay 2 of actuator (e.g. VSL/2)

📖 Saved cards and tags can be deleted by restoring the device to factory settings. See the paragraph [Restoring factory settings].

Enabling/disabling an intercommunicating group

📖 To program an intercommunicating group, please see the documentation for the VA/01 or A/01 power supply units. Leave the function disabled on the entry panel.

Exiting programming mode

To exit programming mode, press the [PROG] button on the power supply unit. All LEDs except the call button LEDs will switch off.

Reprogramming a system

In an already programmed system, pressing the [PROG] button takes you directly to the [Programming calls] phase. You do not need to perform [Programming call buttons] again.

To force programming call buttons again, press and hold the PROG button for at least 3 seconds and no longer than 6.

📖 You will need to run [Associate internal receivers] and [Program OPEN GATE and GATE STATUS function] again

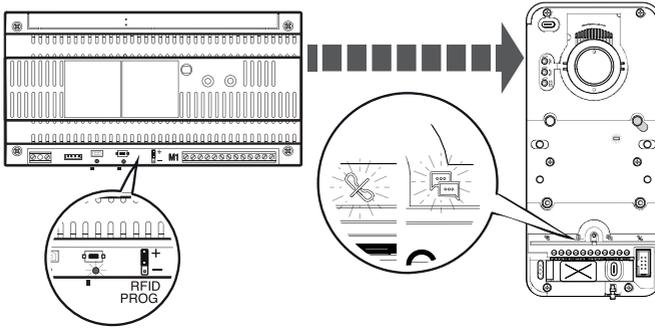
Programming proximity cards or tags with access control*

*LHS V/01 PLUS model only

 The internal receivers must be associated before programming.

 A tag or card saved with local control cannot perform the access control function and vice versa.

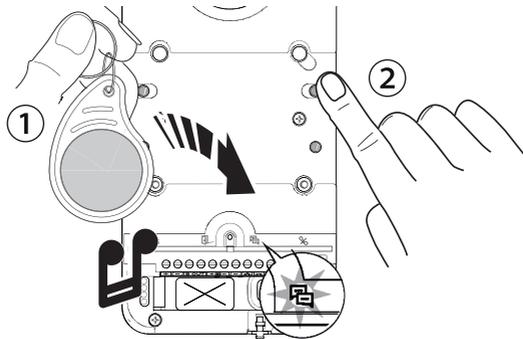
Inserting cards or tags



Press the [PROG] button on the power supply to exit programming mode.
Insert the RFID PROG jumper on the power supply unit in the "+" position.

The  LEDs and the PROG LEDs will flash slowly.

 If the LEDs suddenly switch off, this means there is a problem with the connection between the power supply unit and the entry panel. Check the connections and return to programming mode.



① Run the proximity card or tag over the RFID reader.

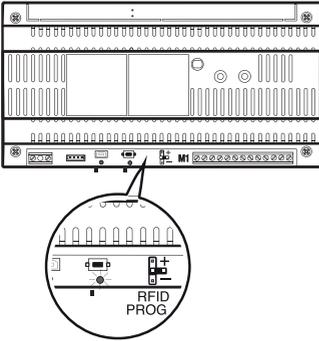
The  LED switches on and you will hear a tone to confirm.

② Press a call button previously assigned to a group/user. This button is associated with the card/tag.

 If the  LED does not light up, run the card or tag over the reader again.

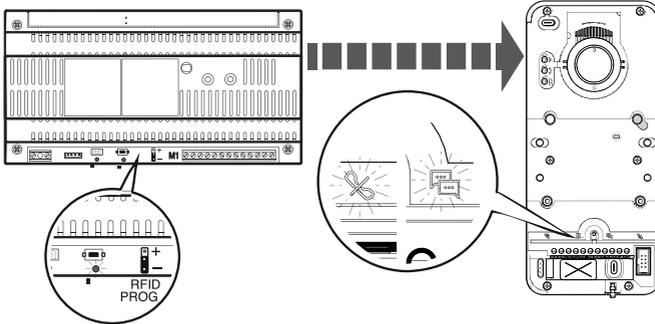
 A maximum of 5 cards or tags can be associated for each button/group. If the maximum number is exceeded an error tone will be generated for each new attempt.

At the end of the saving process, remove the PROG RFID jumper and put it to one side.



Deleting tags/cards

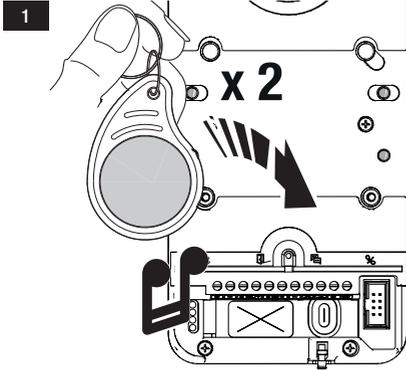
⚠ You can delete all cards or tags for a single group/button.



✂ Insert the power supply unit RFID PROG jumper in the “-” position, and the PROG LEDs will flash slowly.

⚠ If the LEDs suddenly switch off, this means there is a problem with the connection between the power supply unit and the entry panel. Check the connections and return to programming mode.

Perform the delete procedure, choosing from one of the following methods:

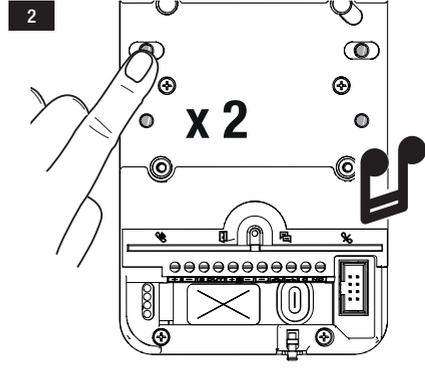


Run the proximity card or tag over the RFID reader. The  LED switches on and you will hear a tone to confirm.

Run the card/tag over the reader again.

You will hear a second tone to confirm. The procedure has been completed successfully.

 **If the  LED does not light up, run the card or tag over the reader again.**



Press the call button assigned to the group you want to delete.

The  LED switches on and you will hear a tone to confirm.

Press the call button again.

You will hear a second tone to confirm. The procedure has been completed successfully.

 **If the  LED does not light up, run the card or tag over the reader again.**

Then remove the PROG RFID jumper and put it to one side.

Restoring factory settings

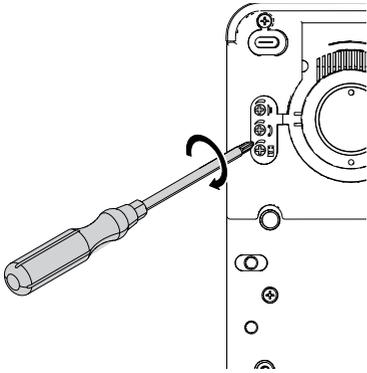
Manually disconnect the power supply to the entry panel or press and hold the RESET button.

Simultaneously press and hold the [P1] and [P2] call buttons and manually power up the device or release the RESET button.

Continue to press the call buttons until the [P1] and [P2] LEDs flash. The device will restart with the default settings.

 **If the entry panel does not restart, it has not been restored to factory settings.**

Audio and electric lock time settings

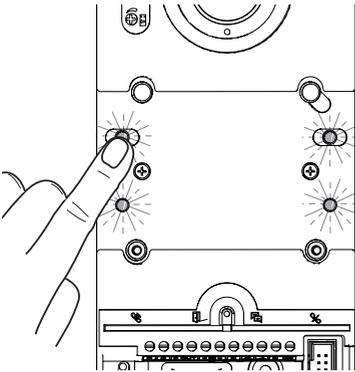


Remove the rubber cap to access the settings.

Use a screwdriver and turn the screws clockwise (to increase) or anticlockwise (to decrease).

 **The opening time of the electric lock can be set from 1 to 10 seconds (Default 1 second).**

Call button brightness level control

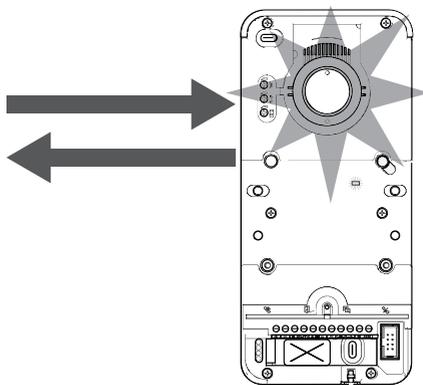
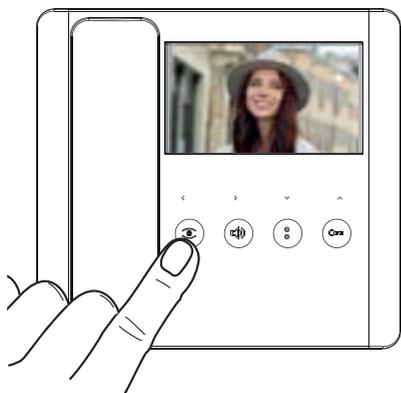


In [Programming calls], press any call button.

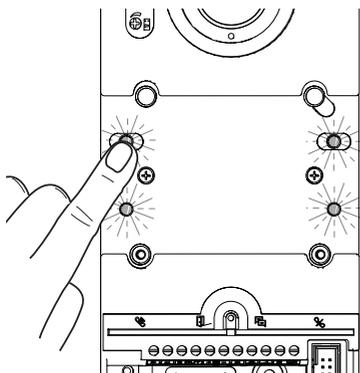
Every time you press the button, the five brightness levels will show in sequence (off, low, medium, high, maximum).

Adjusting video camera LED crown brightness*

*video models only



In [Programming calls], press the  button on any internal receiver connected to the system and activate the video camera.

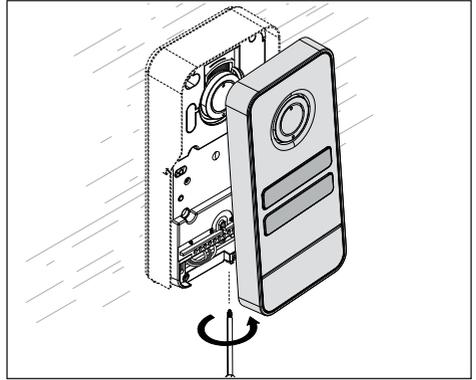
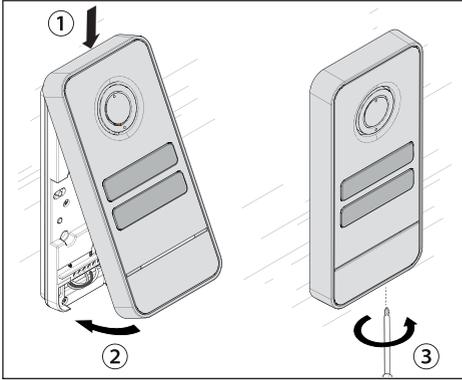


Press any call button to increase or decrease the brightness of the video camera LED crown.

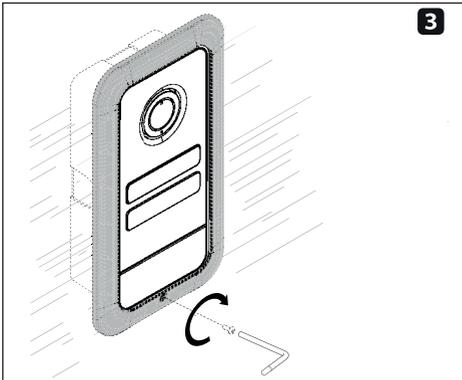
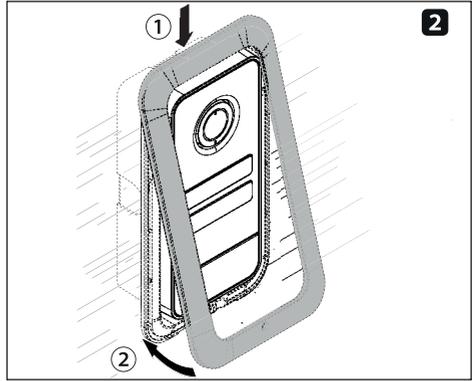
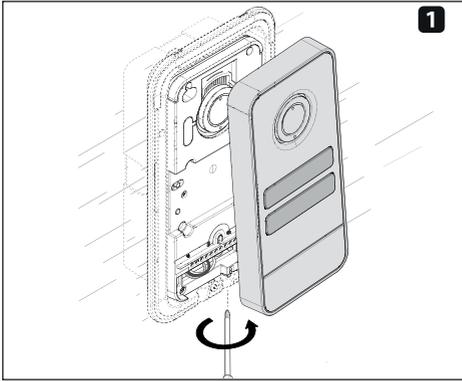
Every time you press the button, the five brightness levels will show in sequence (off, low, medium, high, maximum).

Wall-mounted installation

Installation with rain cover (optional)



Recess installation





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