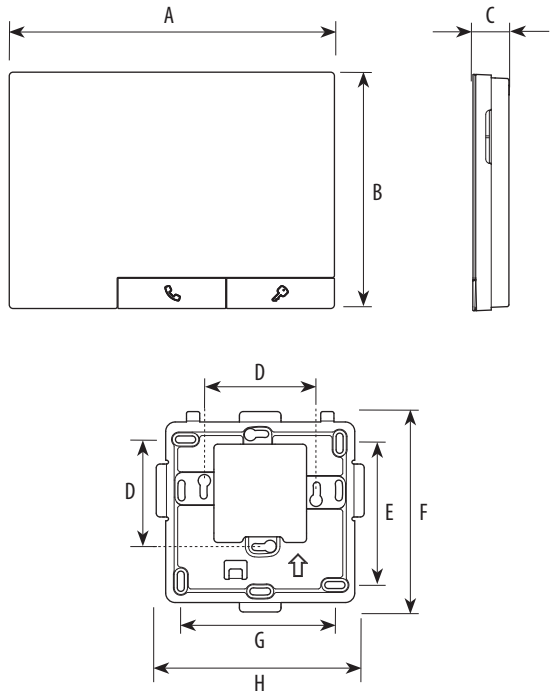
Classe 300X connected video internal unit with inductive loop

344745 - 344746

Description

2 wires/Wi-Fi hands-free connected video internal unit with inductive loop, Light or Dark finish, with 7" horizontal touch screen LCD display, resolution 1024 x 600 pixel. Featuring two physical keys for answering/ending calls, entrance panel activation, and controlling the electric door lock. The remaining video door entry system functions e.g. entrance panel activation, camera scrolling, additional door lock activation, video door entry system answering machine, staircase light control, intercom etc. are managed via specific menus and touch display. Featuring a digital echo canceller for better audio quality. LED visual signals for: Wi-Fi network connection status, info / notifications and call exclusion. Using the touch display, it is possible to access the notification list, as well as your favourite door entry controls. Advanced 'Professional Studio' and 'Do Not Disturb' functions: customisable and schedulable by day/time. Possibility of voice communication with the switchboard - if present in the system - after a specific call. The device must be configured by physically connecting the configurators, or using the menu and the touch display, which will give better possibilities of customisation of associated functions and texts. Thanks to the Wi-Fi 6 connectivity, the video door entry system can connect to 5 GHz or 2.4 GHz band routers to take advantage of the functions available on the Home + Security App (available for Android and iOS): call reception, door lock release, event timeline display, entrance panel activation, camera scrolling and advanced "Professional Studio" and "Do Not Disturb" functions. Using the Home + Security App, it is also possible to manage products from Netatmo security offering. 15 different ringtones available. Wall mounted installation using the bracket supplied and tabletop installation (with support 344632) to be purchased separately. Made with over 25% chemically recycled plastic. Designed, engineered, and manufactured in Italy.

Dimensional data



A	B	C	D	E	F	G	H
172 mm	125 mm	19 mm	60 mm	75 mm	106 mm	82 mm	110 mm

Related items

344632	Support for the tabletop installation of the Classe 300X video internal units
392050/51	Outdoor Original camera
392060/61	Outdoor Original camera with PoE
391950/51/52/53	Advance indoor camera

Technical data

Power supply from SCS BUS:	22 – 27 Vdc
Maximum SCS absorption in Stand by:	38 mA
Maximum SCS absorption in operation:	550 mA
Additional power supply of clamp 1-2:	27 Vdc
Maximum absorption from clamp 1 – 2:	320 mA
Maximum cable section for each clamp:	2 x 1 mm^2
Operating temperature:	5 – 40 °C

Wireless device in compliance with 802.11 b/g/n/ac/ax standard, frequency 2412 – 2472 MHz; 5180 – 5825 MHz
Transmission power < 20 dBm. WPA/WPA2/WPA3 safety protocol
Teleloop: frequency 0 – 9 kHz, transmission power < 1.005 A/m.

Update your firewalls to allow media traffic to flow to and from your home:
- For media (audio and video), set up outbound UDP ports 3478 and 0-65536.
- For web traffic and user authentication, use outbound UDP and TCP port 22, 80, 443, 5014, 25050.

This device includes the Open Source software. For license and software information, connect your Windows/Linus PC to the device through the USB-C port.

Warning: in case of a power failure, the device does not work and cannot be reached, any collection of personal data is interrupted.

Wi-Fi Installation

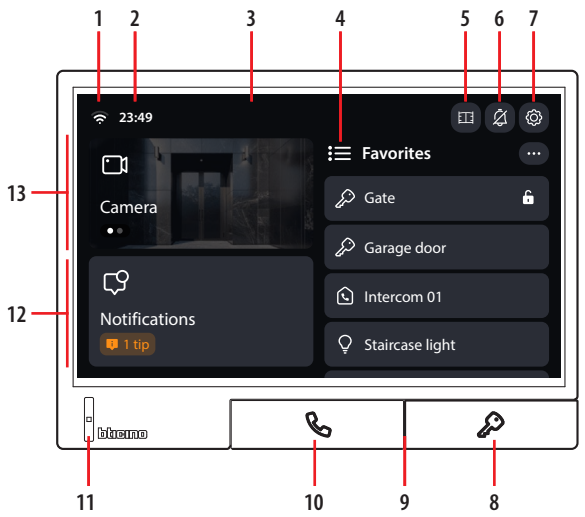
Note: It is recommended that the Classe 300X is installed near the Wi-Fi router.
Note: the best performance levels can be achieved by installing one single Classe 300X for each Wi-Fi network (SSID).

Check the Wi-Fi signal quality from the device display (see the Installer Manual).
If it is low or does not exist, make sure that:
- the device is not installed near large metal objects or electric devices that can generate electromagnetic field;
- are fewer possible walls between the router/access point and the Classe 300X.

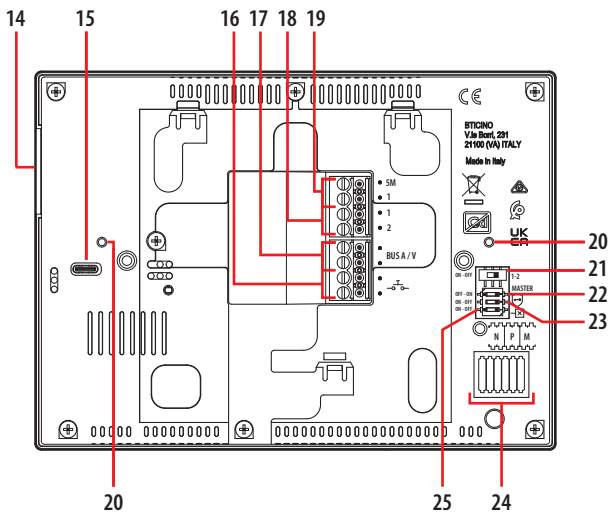
Note: *over time, some product components may be subject to changes due to material availability, technological evolution or production requirements. These changes will in no way alter the functionality and overall quality of the product, which will remain consistent with the stated standards.*
BTicino reserves the right to update or replace individual components, always ensuring consistency with the technical specifications and the intended user experience.

Legend

Front view



Rear view



1. Wi-Fi signal notification icon
2. Time display
3. 7" touch screen display
4. "Favourites" menu
5. Professional studio (office) icon; if it is on, the function is active
6. Ringtone icon: enabled - disabled
7. "Settings" menu icon
8. Door lock key: during the call it opens the door lock, when idle it opens the lock of the associated EP.
9. Microphone
10. Communication key: during the call it activates the sound, when idle it automatically switches on the associated EP.
11. Status LED (see table)
12. Notification panel
13. Camera panel
14. Speaker
15. USB-C for device firmware update
16. Clamps ( ) for the connection of an external call to the floor pushbutton
17. 2 WIRES SCS/BUS connection clamps
18. Additional power supply clamps (1 - 2)
19. Additional ringtone connection clamps (5M – 1). The connection must be point - point on the clamps of the additional ringtones.
20. Table-top base fastening
21. ON / OFF micro switch to enable the additional power supply
22. Master / Slave micro switch
23. OFF / ON micro-switch for "safe door lock" function"
24. Configurator socket (N - P - M)
25. Line termination ON/OFF micro-switch

Status LED table

Colour	Meaning
OFF	No active event (default)
White	Missed call; Firmware update available; Tip available
Red	Wi-Fi network enabled but not connected to a network / no Internet connectivity on the network
Purple	Silent mode
Yellow	Professional studio (office) active
Green	Data exchange with app in progress

LED priority (in case of multiple events)

1	Green / Red (equal priority)
2	White
3	Yellow
4	Purple

⚠ When several events occur simultaneously, the colour with the highest priority is displayed.

Note: the image (*) shows the device with all its functions enabled. Check on the Installer Manual how to enable the functions.

(*) The background and icons shown may differ from those on the device.

Configuration

Digital configuration

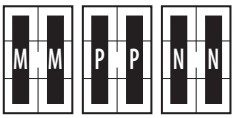
If physical configurators are not used, it is possible to perform the complete configuration of the device without being bound to a predefined set.
The initial tutorial can be used to set the video door entry system parameters and create the objects that perform the functions. Later on, it will be possible to add new objects or modify existing ones using the appropriate menus. See the Classe 300X Use and Installation Manual.

NOTE: If the device has already been physically configured, after extracting the configurators, it is necessary to reset.

Physical configuration

You can configure the device physically using configurators.
With this type of configuration, objects will be added in the Cameras and Favourites sections.
You will not be able to add more objects, but only customise the names of those created automatically.

The available configurators are:

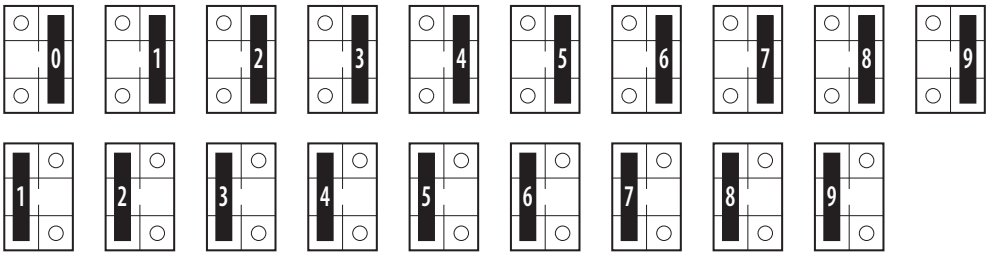


Set the **operating mode**.
Depending on the value entered **a function will be implemented and one or more specific icons will appear in the Cameras and Favourites sections of the home page**.

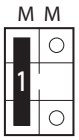
With the IU idle, it defines **the address of the EP whose door lock is opened and auto switch-on is performed.**

Device address in the video door entry system.

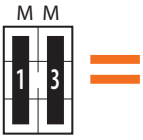
The configurations available in M are (click to view details):



For intermediate configurations, the functions that can be performed are given by the sum of the functions of the units + the functions of the tens.
For example, entering 1 in the tens and 3 in the units will result in:



- Internal intercom. It sends the call to all the handsets with the same address.
- EP door lock release (configured with P+1/2), directly without call, **OR** activation of the actuator 346210 (configured with P+1/2 and MOD=5), **OR** activation of actuator 346230 (configured with P+1/2)
- Activation of the EP (configured with P+1) directly without call **OR** activation of actuator 346210 (configured with P+1 and MOD=9)



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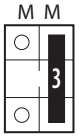
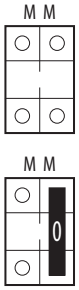
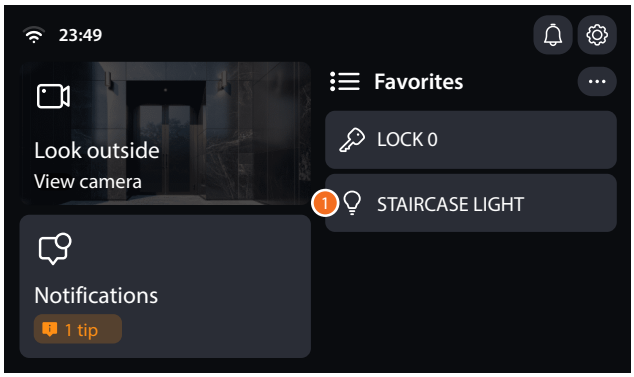


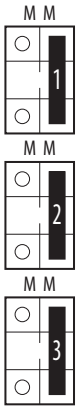
- EP door lock release (configured with P+3), directly without call, **OR** activation of the actuator 346210 (configured with P+3 and MOD=5), **OR** activation of actuator 346230 (configured with P+3)

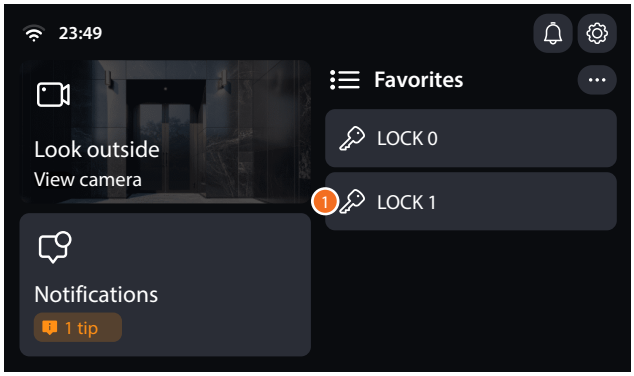




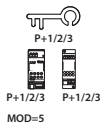
Functions

1. Staircase Light Control

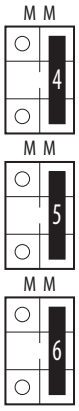


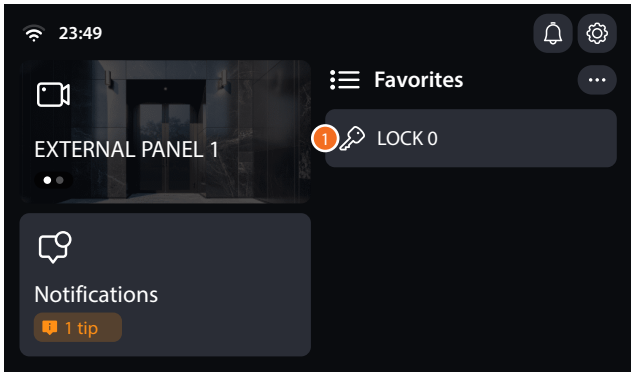


Functions

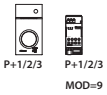


1. EP door lock release (configured with P+1/2/3), directly without call, **OR** activation of the actuator 346210 (configured with P+1/2/3 and MOD=5), **OR** activation of actuator 346230 (configured with P+1/2/3)

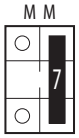


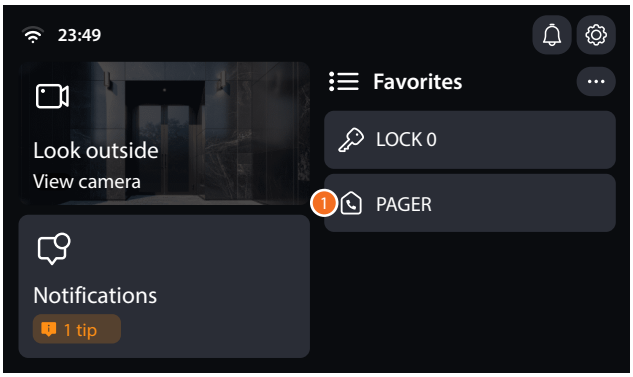


Functions

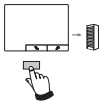


1. Activation of the EP (configured with P+1/2/3) directly without call **OR** activation of actuator 346210 (configured with P+1/2/3 and MOD=9)

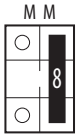


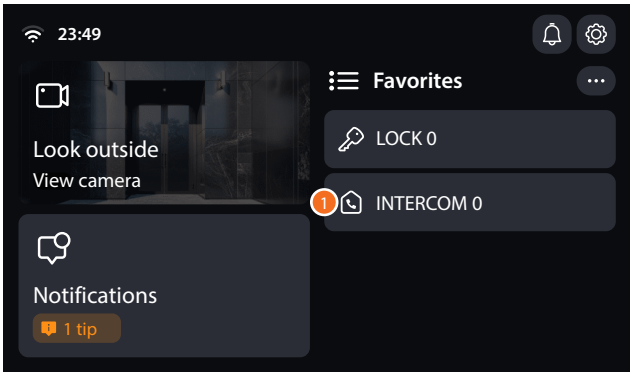


Functions

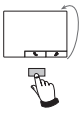


1. Paging, makes a general intercom. It sends the call to all the handsets of the system

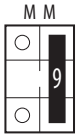


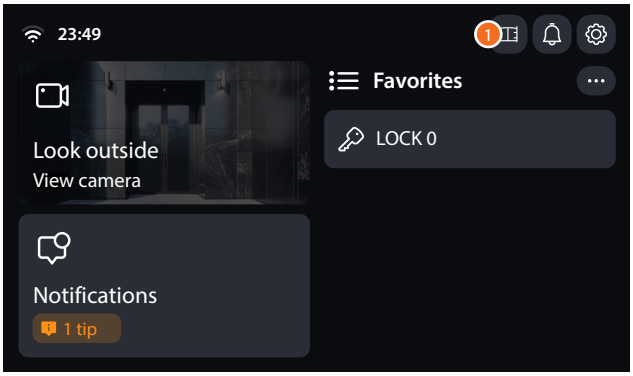


Functions



1. Internal intercom. It sends the call to all the handsets with the same address

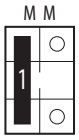


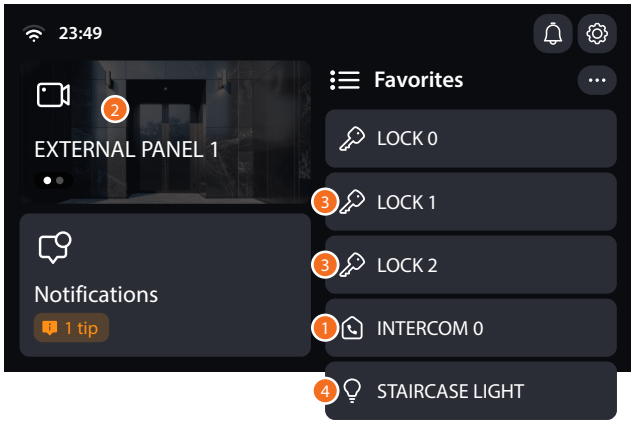


Functions

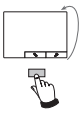
1. Enabling/disabling Professional Studio (office) function

NOTE: In the configurations shown below, if we insert configurator 0 or if we do not insert any configurator, the Staircase Light object will be added.



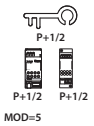


Functions



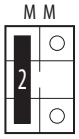
1. Internal intercom. It sends the call to all the handsets with the same address

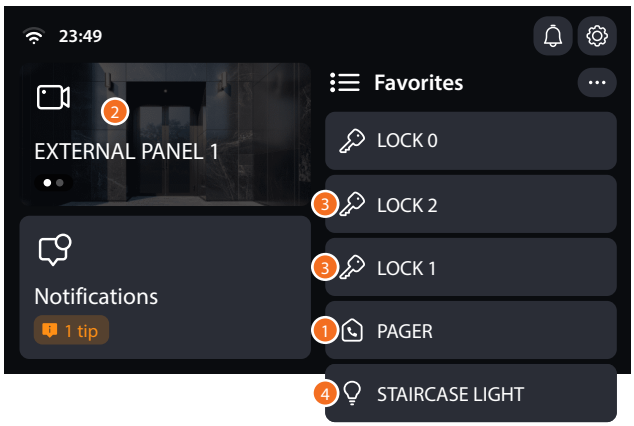
2. Activation of the EP (configured with P+1) directly without call OR activation of actuator 346210 (configured with P+1 and MOD=9)



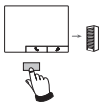
3. EP door lock release (configured with P+1/2), directly without call, OR activation of the actuator 346210 (configured with P+1/2 and MOD=5), OR activation of actuator 346230 (configured with P+1/2)

4. Staircase Light Control



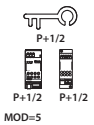


Functions



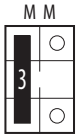
1. Paging, makes a general intercom. It sends the call to all the handsets of the system

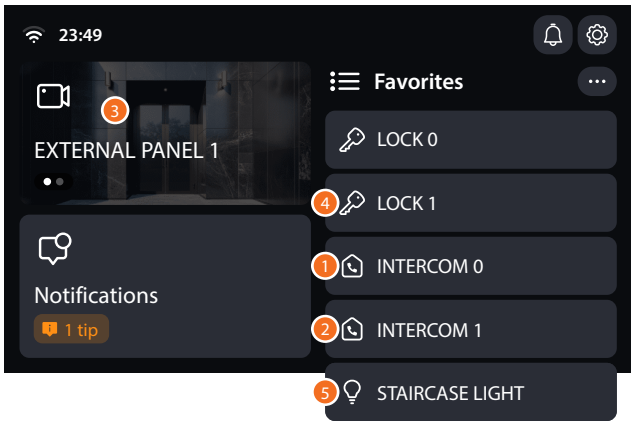
2. Activation of the EP (configured with P+1) directly without call OR activation of actuator 346210 (configured with P+1 and MOD=9)



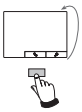
3. EP door lock release (configured with P+1/2), directly without call, OR activation of the actuator 346210 (configured with P+1/2 and MOD=5), OR activation of actuator 346230 (configured with P+1/2)

4. Staircase Light Control

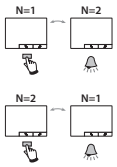




Functions

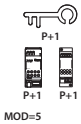


1. Internal intercom. It sends the call to all the handsets with the same address



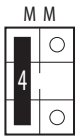
2. Intercom inside the apartment, in systems with apartment interface 346850, **OR** intercom among apartments in systems without apartment interface

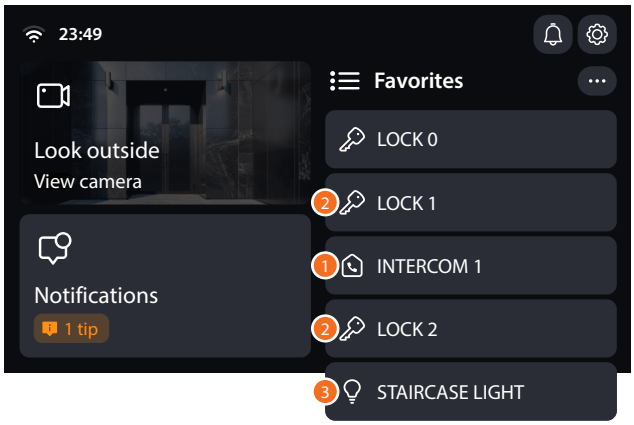
3. Activation of the EP (configured with P+1) directly without call **OR** activation of actuator 346210 (configured with P+1 and MOD=9)



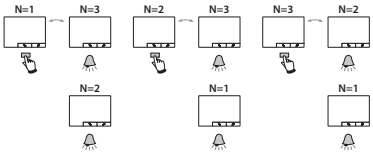
4. EP door lock release (configured with P+1), directly without call, **OR** activation of the actuator 346210 (configured with P+1 and MOD=5), OR activation of actuator 346230 (configured with P+1)

5. Staircase Light Control

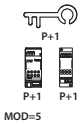




Functions

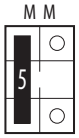


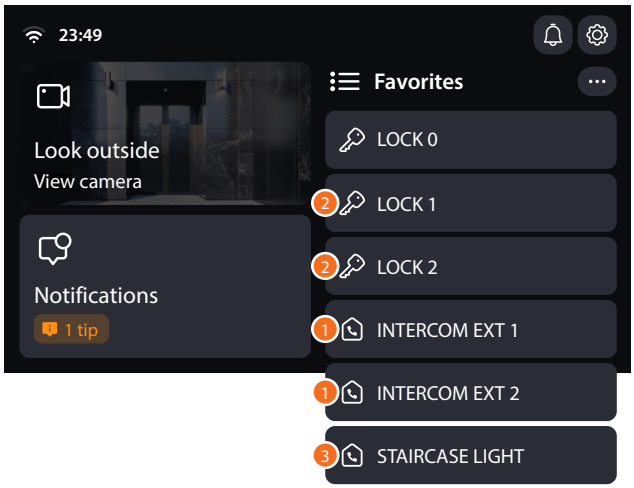
1. Intercom inside the apartment, in systems with apartment interface 346850, OR intercom among apartments in systems without apartment interface



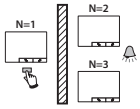
2. EP door lock release (configured with P+1/2), directly without call, OR activation of the actuator 346210 (configured with P+1/2 and MOD=5), OR activation of actuator 346230 (configured with P+1/2)

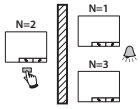
3. Staircase Light Control

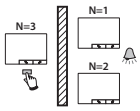




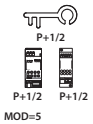
Functions





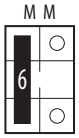


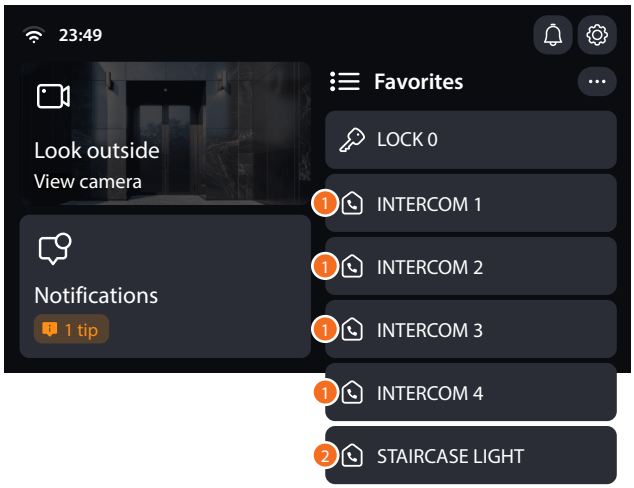
1. Intercom among apartments in systems with apartment interface 346850



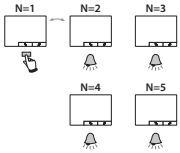
2. EP door lock release (configured with P+1/2), directly without call, **OR** activation of the actuator 346210 (configured with P+1/2 and MOD=5), **OR** activation of actuator 346230 (configured with P+1/2)

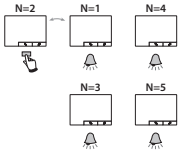
3. Staircase Light Control

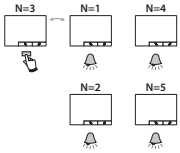


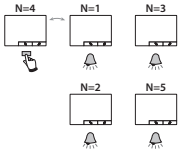


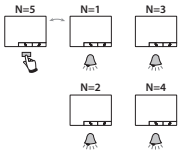
Functions





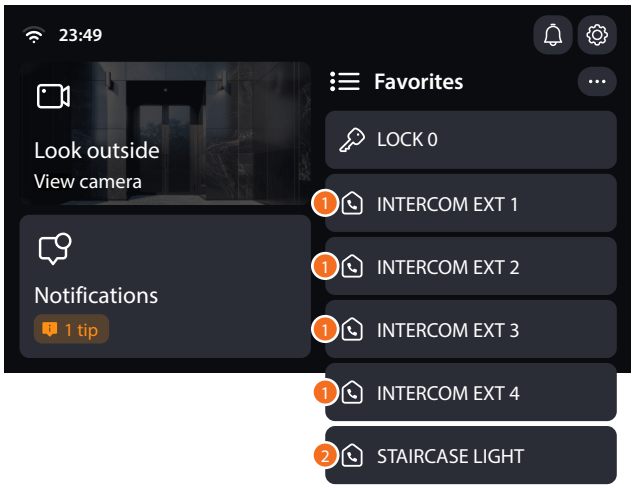




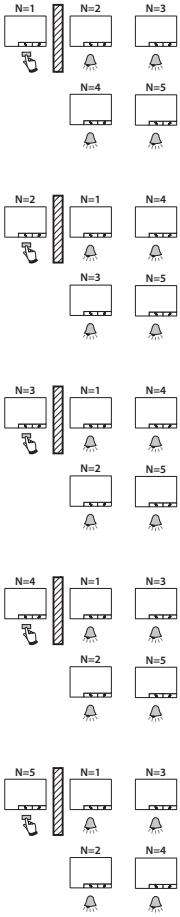


1. Intercom inside the apartment, in systems with apartment interface 346850, **OR** intercom among apartments in systems without apartment interface

2. Staircase Light Control

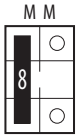


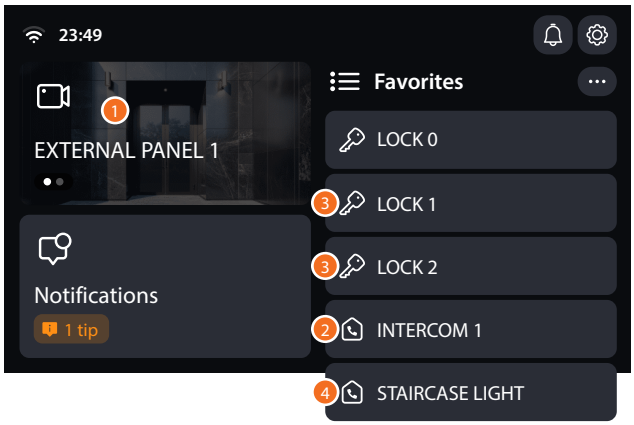
Functions



1. Intercom among apartments in systems with apartment interface 346850

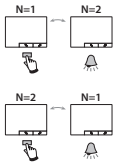
2. Staircase Light Control



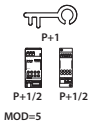


Functions

1. Activation of the EP (configured with P+1) directly without call **OR** activation of actuator 346210 (configured with P+1 and MOD=9)

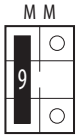


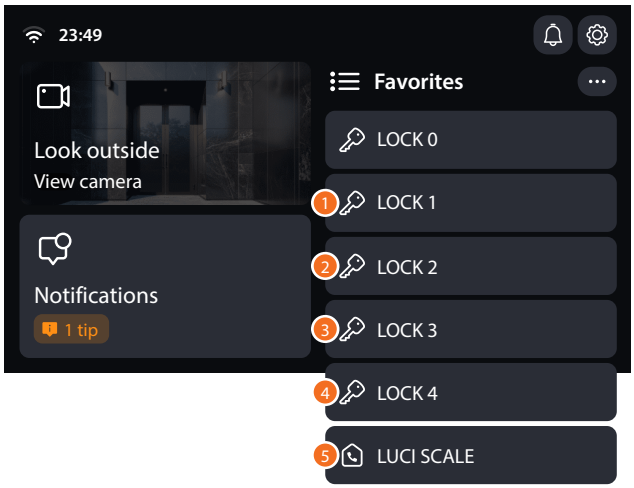
2. Intercom inside the apartment, in systems with apartment interface 346850, **OR** intercom among apartments in systems without apartment interface



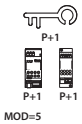
3. EP door lock release (configured with P+1/2), directly without call, **OR** activation of the actuator 346210 (configured with P+1/2 and MOD=5), **OR** activation of actuator 346230 (configured with P+1/2)

4. Staircase Light Control

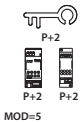




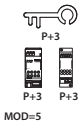
Functions



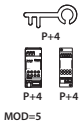
1. EP door lock release (configured with P+1), directly without call, **OR** activation of the actuator 346210 (configured with P+1 and MOD=5), **OR** activation of actuator 346230 (configured with P+1)



2. EP door lock release (configured with P+2), directly without call, **OR** activation of the actuator 346210 (configured with P+2 and MOD=5), **OR** activation of actuator 346230 (configured with P+2)



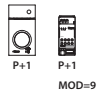
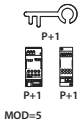
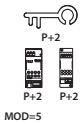
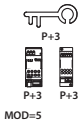
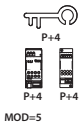
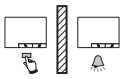
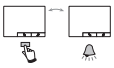
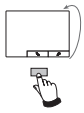
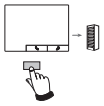
3. EP door lock release (configured with P+3), directly without call, **OR** activation of the actuator 346210 (configured with P+3 and MOD=5), **OR** activation of actuator 346230 (configured with P+3)



4. EP door lock release (configured with P+4), directly without call, **OR** activation of the actuator 346210 (configured with P+4 and MOD=5), **OR** activation of actuator 346230 (configured with P+4)

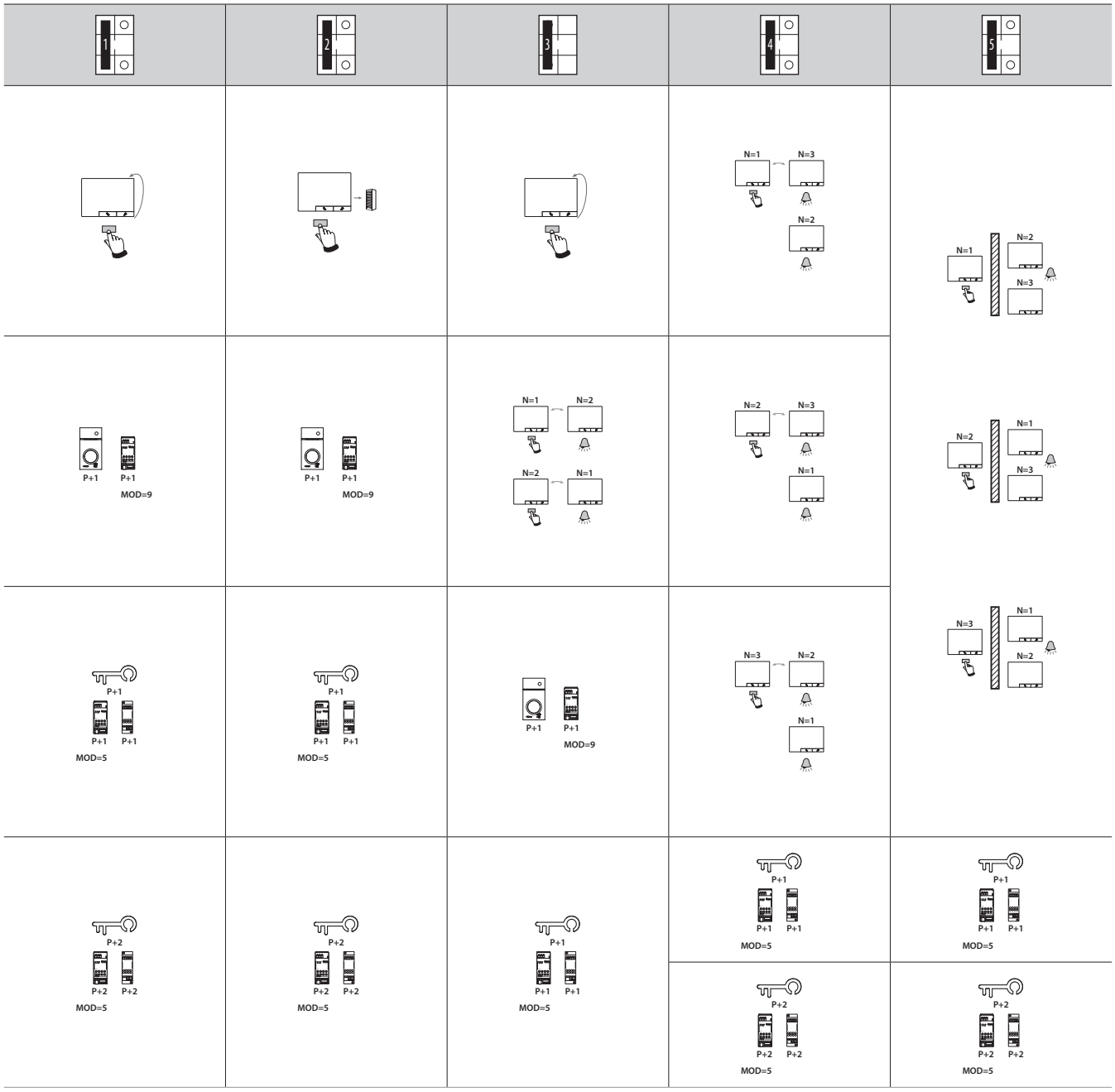
5. Staircase Light Control

Configuration summary table

Legend	
	Activation of the EP (configured with P+1) directly without call or activation of actuator 346200 (configured with P+1 and MOD=9)
	EP door lock release (configured with P+1), directly without call, or activation of the actuator 346210 (configured with P+1 and MOD=5), or activation of door lock actuator 346230 (configured with P+1)
	EP door lock release (configured with P+2), directly without call, or activation of the actuator 346210 (configured with P+2 and MOD=5), or activation of door lock actuator 346230 (configured with P+2)
	EP door lock release (configured with P+3), directly without call, or activation of the actuator 346210 (configured with P+3 and MOD=5), or activation of door lock actuator 346230 (configured with P+3)
	EP door lock release (configured with P+4), directly without call, or activation of the actuator 346210 (configured with P+4 and MOD=5), or activation of door lock actuator 346230 (configured with P+4)
	Intercom among apartments in systems with apartment interface 346850
	Intercom inside the apartment, in systems with apartment interface 346850, or intercom among apartments in systems without apartment interface.
	Internal intercom. It sends the call to all the handsets with the same address
	Paging, makes a general intercom. It sends the call to all the handsets of the system

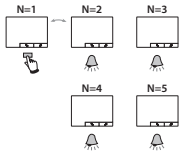
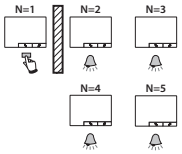
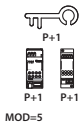
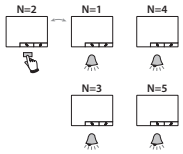
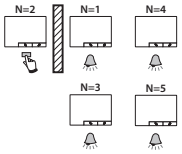
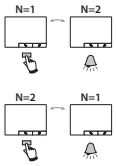
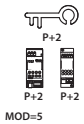
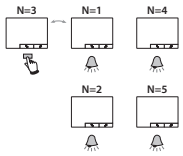
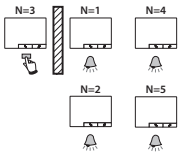
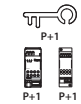
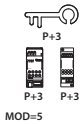
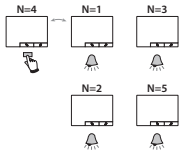
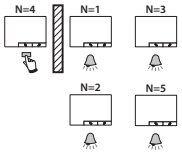
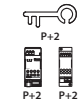
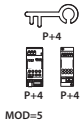
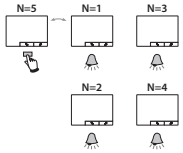
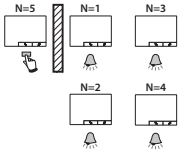
M M 0	Staircase Light Control	
M M 1	Direct control of P+1 Door lock	P+1 P+1 P+1 MOD=5
M M 2	Direct control of P+2 Door lock	P+2 P+2 P+2 MOD=5
M M 3	Direct control of P+3 Door lock	P+3 P+3 P+3 MOD=5
M M 4	P+1 direct auto-switching on	P+1 P+1 MOD=9
M M 5	P+2 direct auto-switching on	P+2 P+2 MOD=9
M M 6	P+3 direct auto-switching on	P+3 P+3 MOD=9
M M 7	Paging	
M M 8	Internal intercom	
M M 9	Enabling/disabling Professional Studio (office) function	

MOD = MM



CAUTION: In case of device reconfiguration, wait one minute before reconnecting it to the system.

MOD = MM

6	7	8	9
 N=1 N=2 N=3 N=4 N=5	 N=1 N=2 N=3 N=4 N=5	P+1 P+1 MOD=9	 P+1 P+1 P+1 MOD=5
 N=2 N=1 N=4 N=3 N=5	 N=2 N=1 N=4 N=3 N=5	 N=1 N=2 N=2 N=1	 P+2 P+2 P+2 MOD=5
 N=3 N=1 N=4 N=2 N=5	 N=3 N=1 N=4 N=2 N=5	 P+1 P+1 P+1 MOD=5	 P+3 P+3 P+3 MOD=5
 N=4 N=1 N=3 N=2 N=5	 N=4 N=1 N=3 N=2 N=5	 P+2 P+2 P+2 MOD=5	 P+4 P+4 P+4 MOD=5
 N=5 N=1 N=3 N=2 N=4	 N=5 N=1 N=3 N=2 N=4		

Maximum distances and cable features

CAUTION: The use of conductors with characteristics other than the prescribed ones does NOT guarantee correct performance of the system and good quality of the video signal.

Single family video systems made only with new Classe 300X Internal Units

Cable section mm²	2 normal cables > 0.2 mm²	BTicino cable L4669 0.35 mm²	BTicino cable 336904/336905 0.5 mm²	Telephone twisted pair 0.28 mm²	One PTT 278 TP 0.28 mm²	BTicino cable C9881U/5E AWG24 cable or UTP5 cable	OneSYT +Digital TP 5/10	OneSYT +Num TP 5/10	GIGA TW CAT5E AWG24	OneSYT +Num TP 8/10	ARB.6060-1 cable 6/10	EV6R 6/10 cable	1 mm²
Max. distance Entrance Panel - Internal Unit	50 m		200 m	140 m		145 m				200 m	50 m		-
Max. distance Entrance Panel - Power supply	50 m		200 m	115 m		80 m				200 m	50 m		-
Max. distance Power supply - Internal Unit	50 m		140 m (*)	50 m		50 m				140 m	50 m		-
Max. distance Entrance Panel - Door lock	30 m		50 m	30 m		-				-	-		100 m

(*) **Note:** if Classe 300X is locally powered 200 m.

- In systems where the EP is replaced by apartment interface 346850, and where the distance Entrance Panel - Power Supply is less than 1 m, the distance Power Supply - Internal Unit can reach the maximum distance of 200 m when using the 336904/336905 cable.

Multifamily video systems made only with new Classe 300X Internal Units

Max. distance Entrance Panel - Furthest Internal Unit

Cable section mm²	2 normal cables > 0.2 mm²	BTicino cable 336904/336905 0.5 mm²	Telephone twisted pair 0.28 mm2	A pair of the multipair data cable CAT5
2 IU/2 pushbuttons	50 m	200 m	140 m	180 m
5 IU/5 pushbuttons	50 m	200 m	140 m	155 m
10 IU/10 pushbuttons	50 m	200 m	140 m	145 m
26 IU/26 pushbuttons	50 m	200 m	140 m	125 m
38 IU/38 pushbuttons	50 m	200 m	140 m	110 m
38 IU/ display call	50 m	200 m	140 m	115 m
64 IU/ display call	50 m	200 m	140 m	-

Max. distance Entrance Panel - Power supply

Cable section mm²	2 normal cables >0.2 mm² or L4669	BTicino cable 336904/336905 0.5 mm²	Telephone twisted pair 0.28 mm²	A pair of the multipair data cable CAT5
2 pushbuttons	50 m	200 m	130 m	95 m
5 pushbuttons	50 m	190 m	120 m	85 m
10 pushbuttons	50 m	180 m	110 m	80 m
26 pushbuttons	50 m	150 m	100 m	70 m
38 pushbuttons	50 m	140 m	90 m	65 m
Display call	50 m	150 m	95 m	65 m

Max. distance Power Supply - Furthest Internal Unit

Cable section mm²	2 normal cables > 0.2 mm²	BTicino cable 336904/336905 0.5 mm²	Telephone twisted pair 0.28 mm²	A pair of the multipair data cable CAT5
2 IU In/Out	25 m	130 m	50 m	50 m
5 IU In/Out	25 m	110 m	50 m	45 m
10 IU In/Out	25 m	95 m	50 m	35 m
5 IU (with SHUNT)	25 m	100 m	50 m	40 m
10 IU (with SHUNT)	25 m	90 m	50 m	35 m

Max. distance Entrance Panel - Door lock

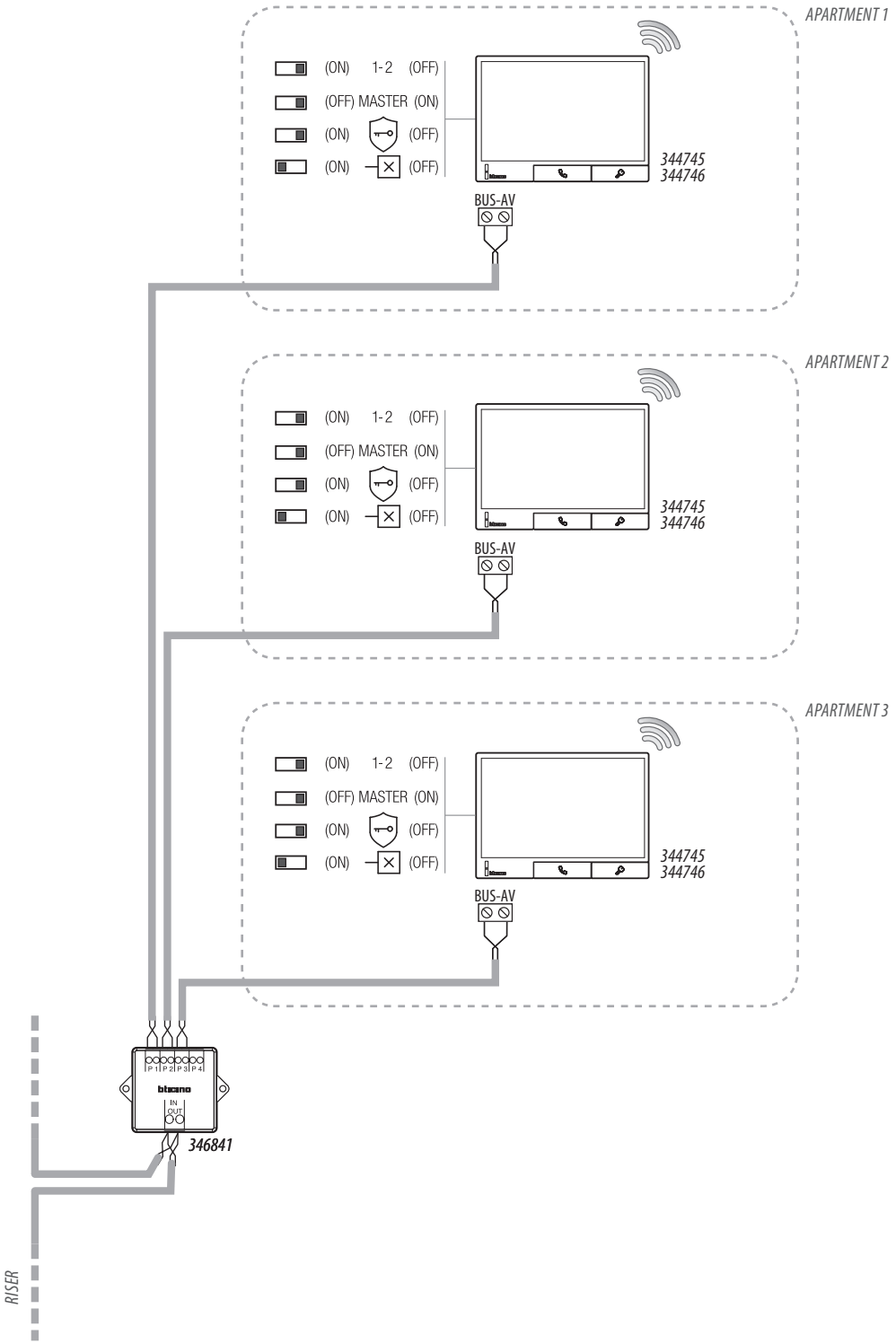
Cable section mm²	0.28 mm²	L4669 BTicino cable 0.35 mm²	BTicino cable 336904/336905 0.5 mm²	1 mm²
(S+/S–) clamps	30 m	30 m	50 m	100 m

- Risers with max 26 internal units should be made in systems with more than 26 internal units
- For systems with more than 10 Classe 300X units, the additional power supply 346020 is necessary from the eleventh Classe 300X unit installed onwards.
- If Classe 300X is locally powered 200 m
- To ensure the correct operation of the system, we recommend the use of the YouDiagram software, which can be downloaded free of charge from www.professionisti.bticino.it

Wiring diagrams

Below are some examples of connection of the Classe 300X 344742/344743 video internal unit in single-family and multi-family 2 WIRES video door entry systems.

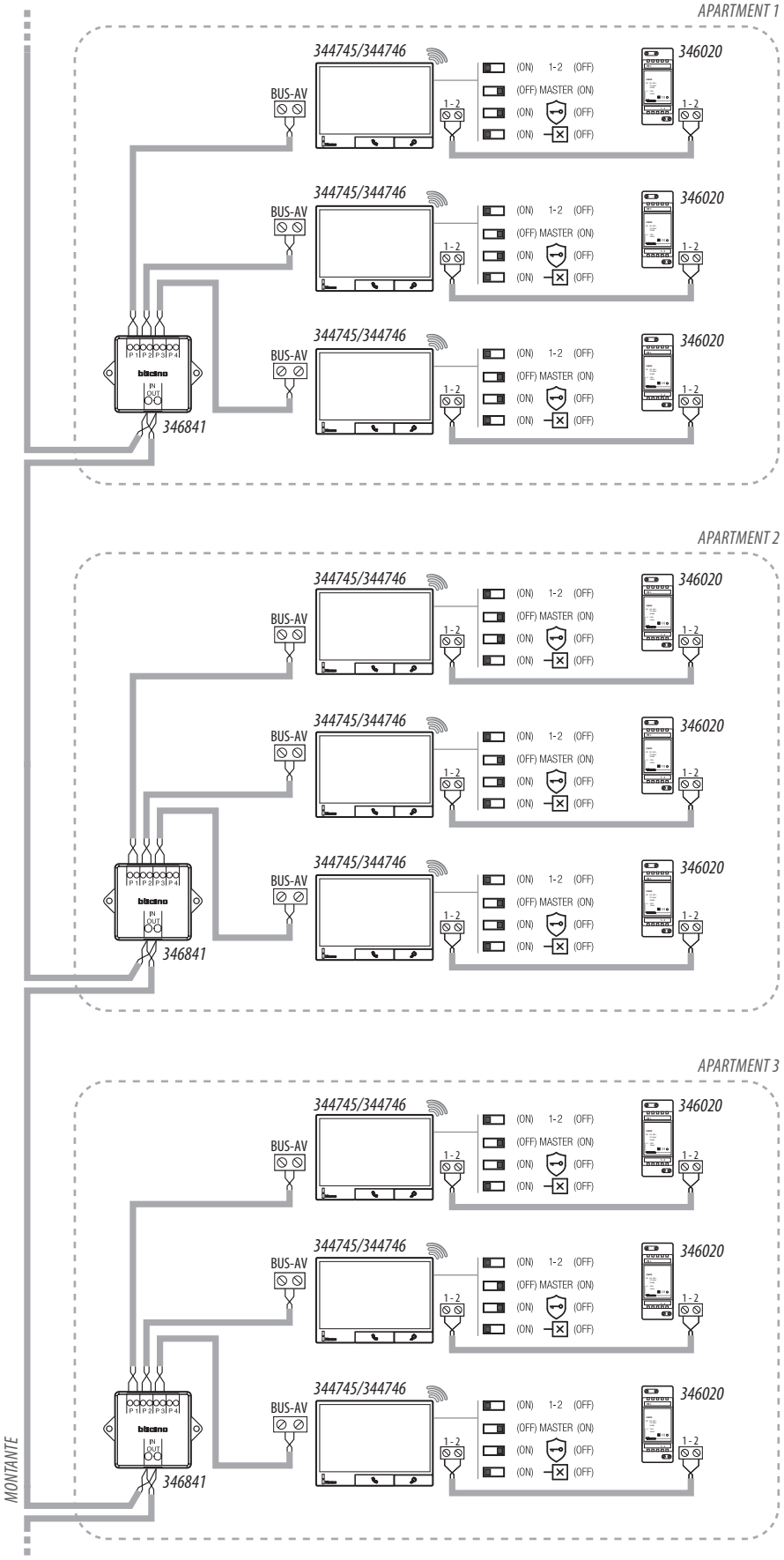
DIAGRAM 1 - EXAMPLE OF MULTI-FAMILY SYSTEM



NOTE:

- *For systems with more than 10 Classe 300X units, the additional power supply 346020 is necessary from the eleventh Classe 300X unit installed onwards*
- *Classe 300X must be installed only in systems completely made with 2 wires technology*
- *For other system particularities, refer to the technical guide*

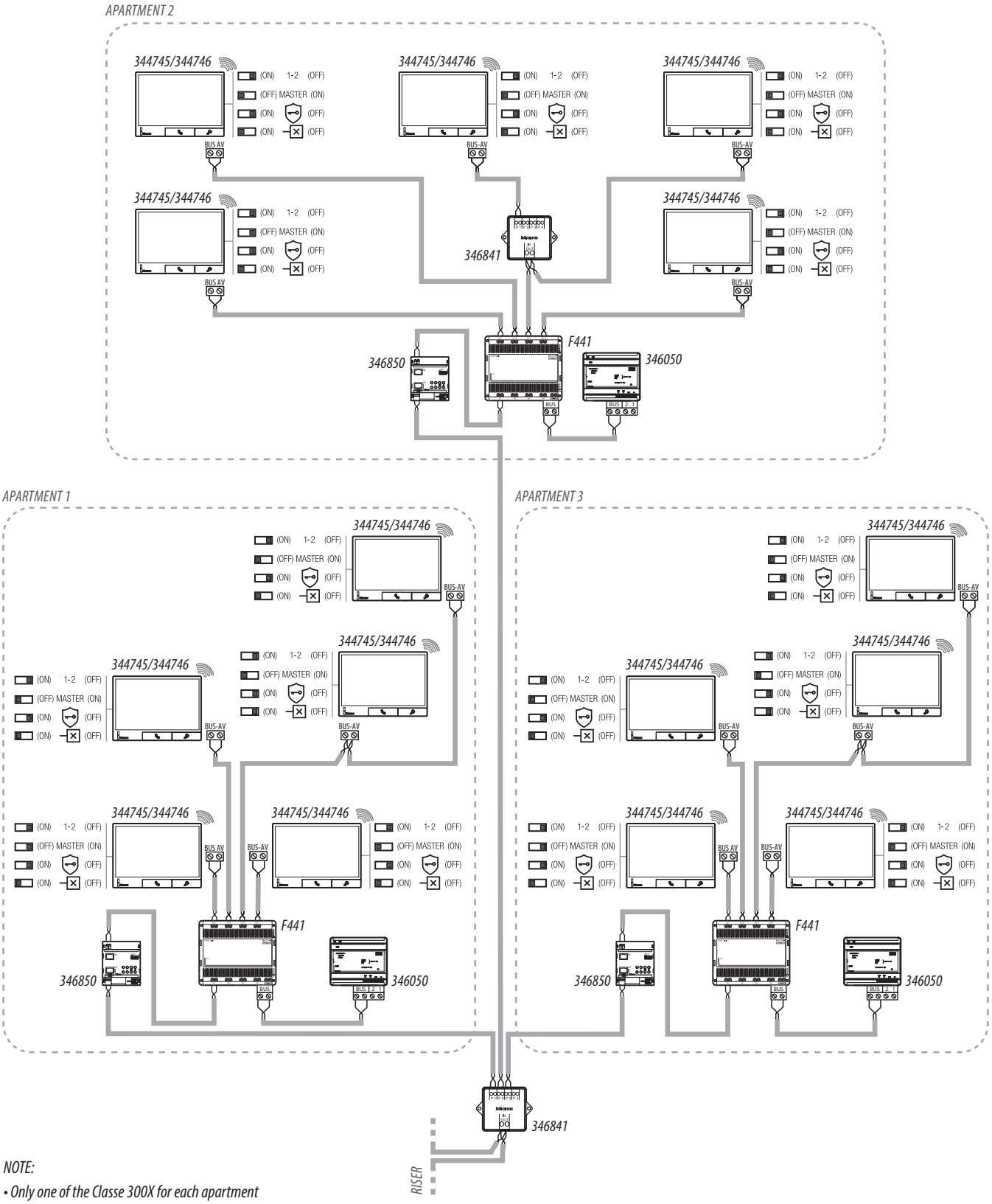
DIAGRAM 2 - EXAMPLE OF MULTI-FAMILY SYSTEM WITH ADDITIONAL INTERNAL UNITS W



NOTE:

- *Only one of the Classe 300X for each apartment must be connected to the Home + Security App (configured as Main)*
- *For systems with more than 10 Classe 300X units, the additional power supply 346020 is necessary from the eleventh Classe 300X unit installed onwards*
- *Max. 3 internal units for each apartment*
- *Classe 300X must be installed only in systems completely made with 2 wires technology*
- *For other system particularities, refer to the technical guide*

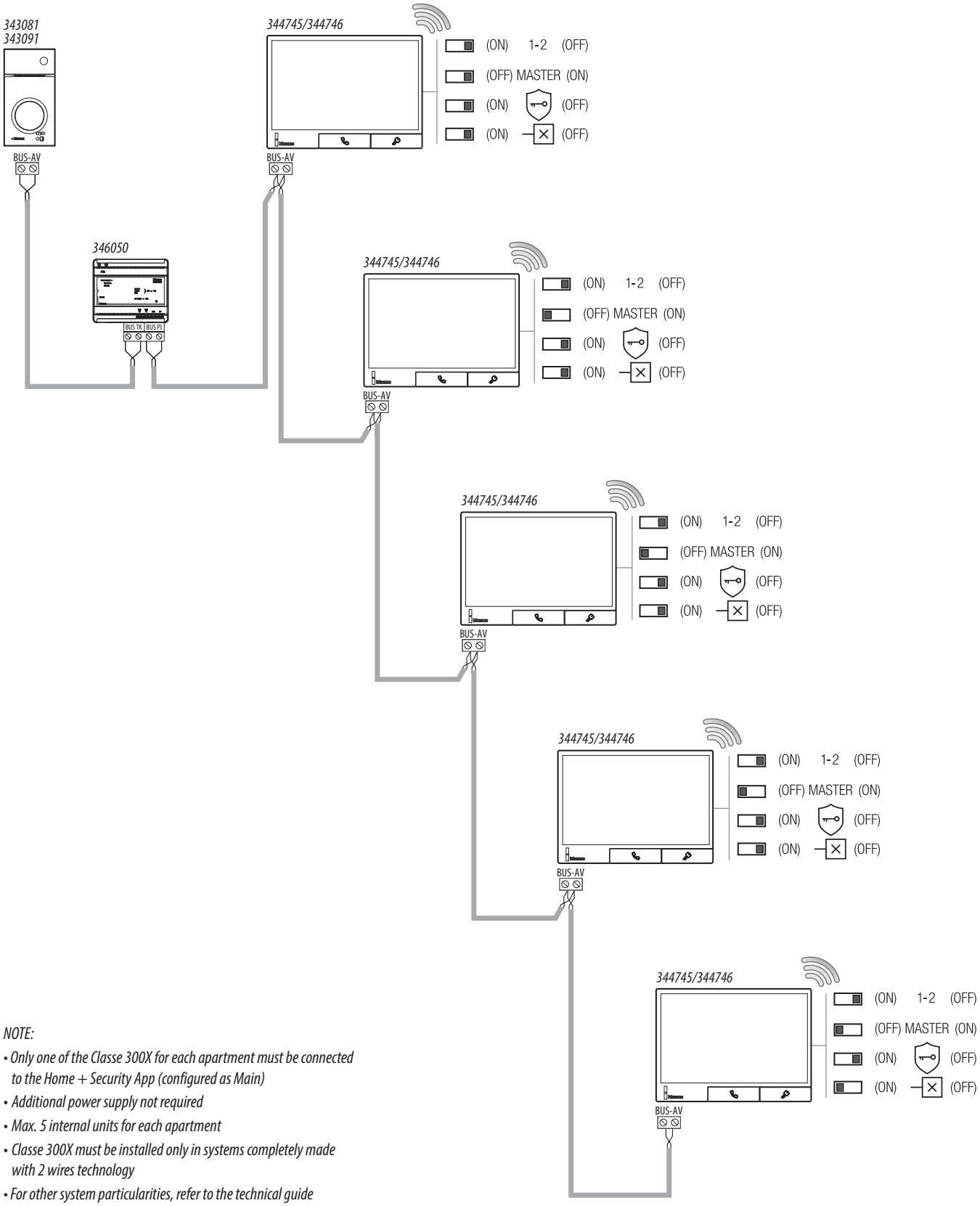
DIAGRAM 3 - EXAMPLE OF MULTI-FAMILY SYSTEM WITH APARTMENT INTERFACE 346850



NOTE:

- *Only one of the Classe 300X for each apartment must be connected to the Home + Security App (configured as Main)*
- *Additional power supply not required, each apartment has its own local power supply*
- *Max. 5 internal units for each apartment*
- *Classe 300X must be installed only in systems completely made with 2 wires technology*
- *For other system particularities, refer to the technical guide*

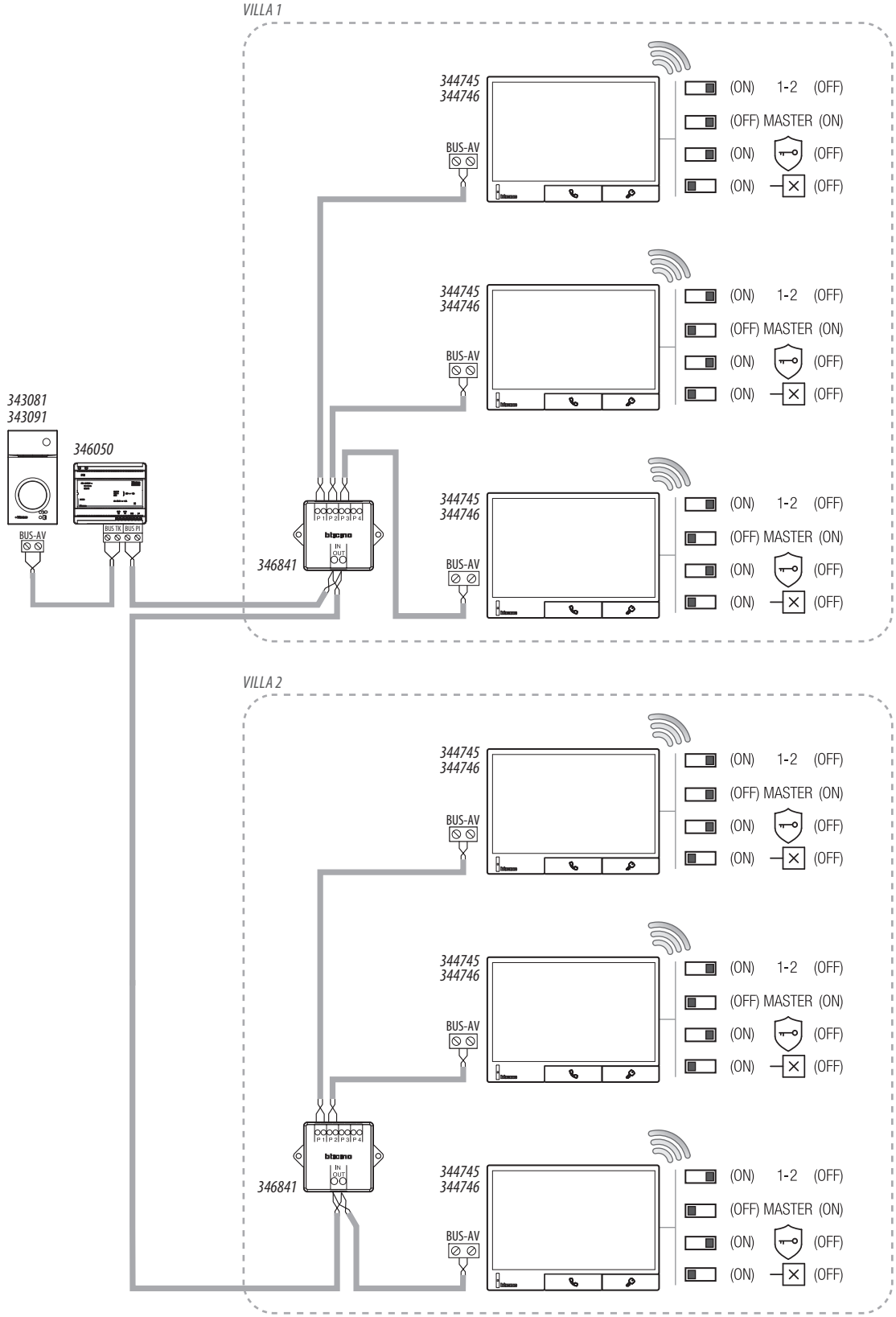
DIAGRAM 4 - EXAMPLE OF SINGLE-FAMILY DIAGRAM



NOTE:

- *Only one of the Classe 300X for each apartment must be connected to the Home + Security App (configured as Main)*
- *Additional power supply not required*
- *Max. 5 internal units for each apartment*
- *Classe 300X must be installed only in systems completely made with 2 wires technology*
- *For other system particularities, refer to the technical guide*

DIAGRAM 5 - EXAMPLE OF TWO-FAMILY DIAGRAM



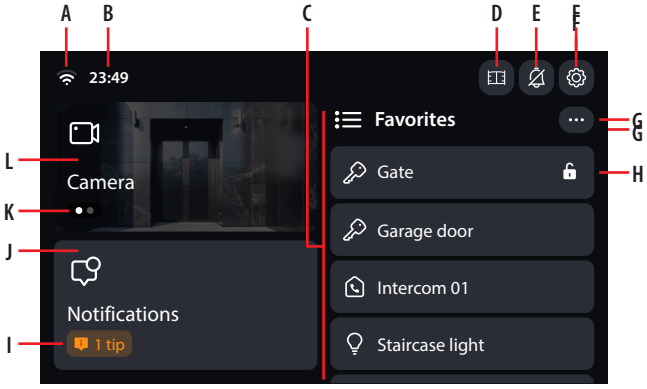
NOTE:

- *Only one of the Classe 300X for each apartment must be connected to the Home + Security App (configured as Main)*
- *Max. 3 internal units for each apartment*
- *Classe 300X must be installed only in systems completely made with 2 wires technology*
- *For other system particularities, refer to the technical guide*

Functions

Main functions

From the Home Page of the device, it is possible to access the main functions. This page may show different content according to the configuration.
The Home Page, with all the functions enabled, is shown below.



A Wi-Fi Status

	Wi-Fi disabled or not working
	Wi-Fi enabled but not connected to the network
	Wi-Fi enabled and connected to a network
	Wi-Fi network enabled but not connected to a network / no Internet connectivity on the network

B Time display

C Favourites zone

D Professional studio (office) icon; if is on, the function is active

E Ringtone icon: enabled - disabled

F Opens the Settings menu

G It opens directly the Home page in the settings menu

H Door open icon (only with actuator 346260).
This indicator appears if the door lock remains open; at the same time, the door lock key LED also flashes.

I Notification

J Notification zone

K Indication of the number of connected cameras/ EPs, scroll to display

L Cameras zone

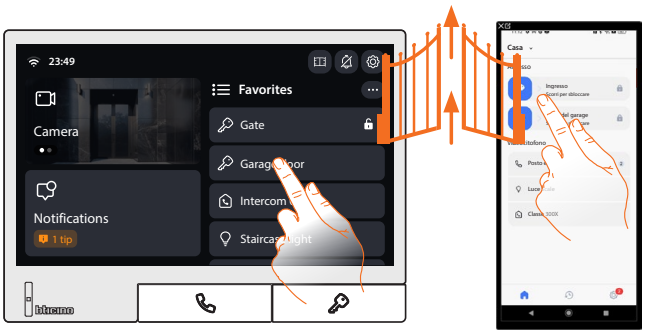
The video internal unit offers the possibility to select among 15 types of bells with programmed ringtones, which can be freely associated to the following type of calls:
Call from the entrance panel (configured with S=0)
Call from the entrance panel (configured with S=1)
Call from the entrance panel (configured with S=2)
Call from the entrance panel (configured with S=3)
Intercom call within the apartment
Intercom call outside the apartment
Floor call

The association of the type of ringtone to the event is performed using the dedicated menu on the device.

Using the advanced configuration, the video internal unit gives the possibility of programming up to:
15 generic activations/door locks
15 intercoms within the apartment
15 intercoms outside the apartment
15 direct auto-switching on to the EP

It is possible to use the video door entry functions:

- Directly from the device, using the object inserted in the Favourites zone;
- Remotely using the Home + Security App.



Use of Home + Security App

You can interact with your Classe 300X using the free Home + Security App.
After registering and authenticating, you must make the association with the device; at this point you can:

- answer a video door entry call from the Entrance Panels;
- CALL HOME (call your Classe 300X);
- display the images from the Entrance Panels and cameras;
- display the images from the associated Netatmo cameras;
- open the door lock of the Entrance Panels;
- update the firmware of your Classe 300X;
- display the event timeline
- use the advanced "Professional Studio" and "Do Not Disturb" functions.

To use the functions by means of the app, refer to the documentation that can be downloaded from the on-line catalogue of the device.

Download App

Home + Security

The apps can be downloaded from their respective stores.
It is recommended to update the smartphone or tablet operating systems to the latest available version.

Communication with Entrance Panels

Following an Entrance Panel call, this function allows to display the images recorded by the camera, and if necessary, to activate the audio and answer the call.

Communication with Internal Units (Intercom)

With this function it is possible to communicate with other video/audio internal units installed in the home, or in other apartments.

Activate door locks and more

This function enables certain actuators (e.g. door locks, garden light, etc.) in your system.

Camera display

This function makes it possible to view the images recorded by the associated entrance panel camera, control the home by activating the cameras in the apartment, common areas (e.g. garages, garden) and Entrance Panels.

Staircase Lights

This function allows the timed activation of common areas.

Activate and listen to the video door entry answering machine

This function enables to view audio/video messages recorded by the Entrance Panel while you are away from home.

Customisable home page

This function allows to customise the main screen: it is possible to rename and reorder favourites, set a camera preview and organise items according to personal needs.

Notification centre

Section dedicated to the centralised display of all system notifications: includes missed calls, firmware update notices and information messages about new features. It allows complete monitoring of device status and recent activities.

Advanced professional studio (office)

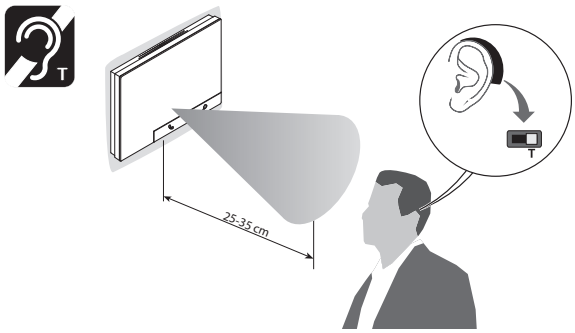
Automation mode that allows programming the automatic opening of doors or gates on certain days and times. Ideal for professional environments such as offices, surgeries or commercial activities; it simplifies recurring access management.
When this function is enabled, the user has 15 seconds (instead of the default 30) to answer the call, so that the audio/video channel is released more quickly.
NOTE: If the answering machine is active, the response time remains 30 seconds.

Advanced silent mode

Setting that allows to set specific time intervals or days when audible call notifications are deactivated. Ideal for situations where noise reduction or protection of privacy is required.

Inductive loop use

The Inductive Loop function enables the device to be used by people wearing hearing aids with (T) selector. Switch the acoustic device to the T position. To ensure correct magnetic coupling between the handset and the acoustic device, we recommend a position in front of the device, at a distance of 25 - 35 cm.
NOTE: the presence of metal and background noise generated by electric/electronic devices (e.g. computer) may compromise the performance and the quality of the coupling device.



Note: for more information and a complete description of all other standard functions, please refer to the 2 wires technical guide.