



# EL632/G+/48



INSTALLER MANUAL



T632/G+/48 IP ML REV.0121

## SAFETY AND CAUTIONS

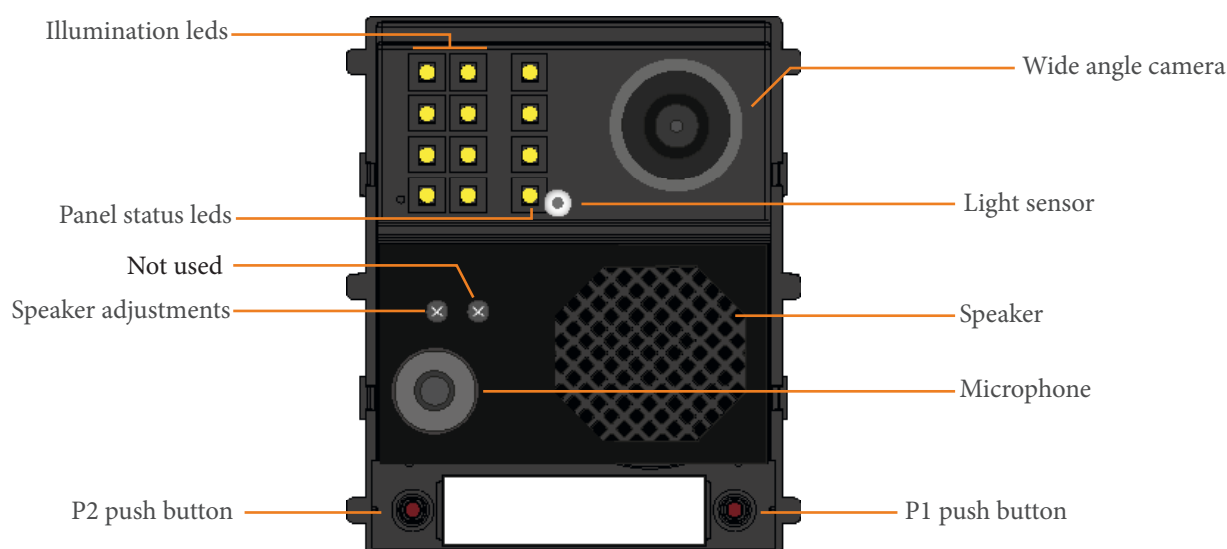
- The installation and handling of this module should be carried out by professional installers.
- The current regulations oblige to protect the power supply by means of a thermal magnetic circuit breaker.
- All the installation conduits must distance at least 40 cm. from any other installation.
- In regards of the power supply FA-G+:
  - Do not overtighten the screws of the terminal block at FA-G+ power supply.
  - Install the power supply in a dry and secure area, protected against water drops or sprays.
  - Avoid placing the power supply close to heating sources, humid or dusty areas.
  - Do not cover the power supply ventilation openings to assure air flow circulation.
  - To prevent damages, the power supply has to be strongly mounted. Use a DIN rail 46277 (8 DIN) to fix it.
  - To avoid an Electrical shock, do not remove the protection cover and do not handle the cables connected

## SPECIFICATIONS

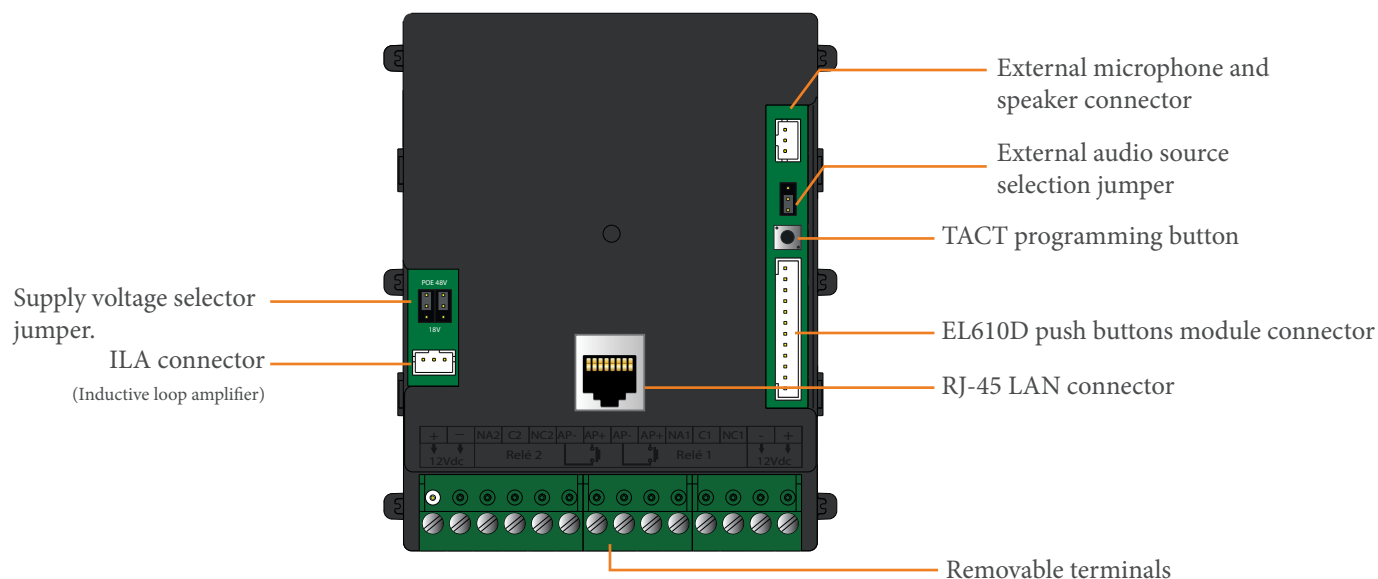
- TCP/IP video intercom system with technology IP-G+.
- Installation over existing ethernet network (D4L-G+/POE are required).
- Up to 98 blocks in one system.
- Up to 19 entry panels at each block.
- Up to 799 flats per each block.
- Up to 19 guard units for the general compound and 9 guard units at each block.
- Up to 32 ONVIF cameras.

## MODULE DESCRIPTION

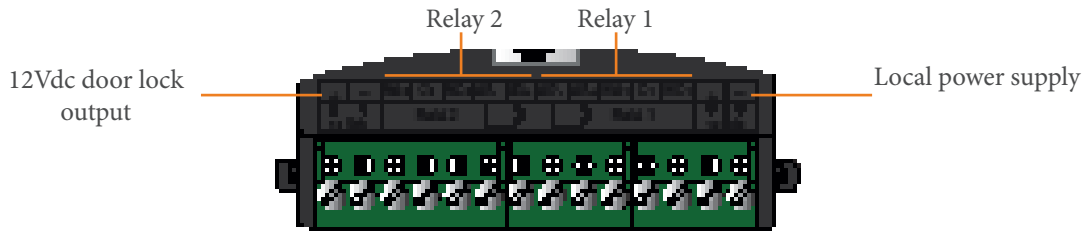
- Front view



- Backside view



## CONNECTION TERMINALS DESCRIPTION



+,- : 12Vdc door lock output.  
 NA2 : Normally open dry contact (relay 2).  
 C2 : Common terminal (relay 2).  
 NC2 : Normally closed dry contact (relay 2).  
 AP- : Exit button terminal (relay 2).  
 AP+ : Exit button terminal (relay 2).

AP- : Exit button terminal (relay 1).  
 AP+ : Exit button terminal (relay 1).  
 NA1 : Normally open dry contact (relay 1).  
 C1 : Common terminal (relay 1).  
 NC1 : Normally closed dry contact (relay 1).  
 +,- : Local power supply (HRF-12/1.25A).

## JUMPERS DESCRIPTION

- This jumper in the right hand of the module selects the audio source. In case you would like to use an existing external microphone and speaker, the position of the jumper should be as follows:



- Position 1-2 (default).  
 Internal built-in microphone and speaker.



- Position 2-3.  
 External microphone and speaker.

The jumper in the left hand of the module selects the supply voltage for the proper operation of the device. It has to change its location as follows:



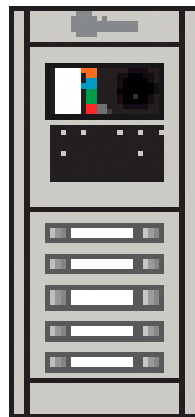
- Position 48V (default).  
 The device is ready to be supplied at 48V from an standard PoE switch.



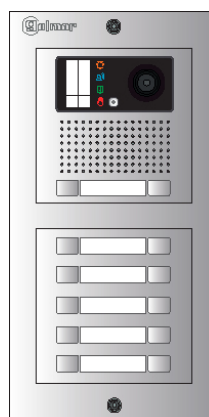
- Position 18V.  
 The device is ready to be supplied at 18V from a D4-L-G+/PoE or an DCS/G+ Ethernet switch.

## MODULE INSTALLATION

- Mechanical composition of the Nexa panel:



Nexa Aluminium



Nexa Inox

### Nexa Aluminium

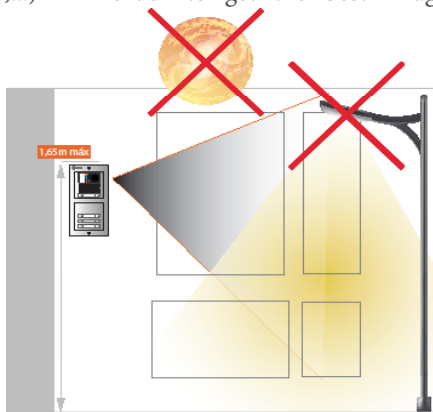
- Select an embedding box, depending on the number of modules:  
For 1 module panel, use NCEV-90CS, 2 modules use NCEV-90C, 3 modules use CEV-90 and for 4 modules use CE-4M.
- Select the assembling set, depending on the number of modules:  
For 1 module use N6001/AL, 2 modules use N6002/AL, 3 modules use N6003/AL and for 4 modules use N6004/AL.
- Select the video grille module for EL632/G+/48 as per required number of push buttons:  
N1000/AL (without integrated buttons), N1110/AL (1 button), N1220/AL (2 buttons).
- Add as many push buttons modules as required (max.132 push buttons):  
Single button: N3110/AL (1 button), N3120/AL (2 buttons), N3130/AL (3 buttons), N3140/AL (4 buttons), N3150/AL (5 buttons),  
Double button N3220/AL (2 buttons), N3240/AL (4 buttons), N3260/AL (6 buttons), N3280/AL (8 buttons), N3210/AL (10 buttons).  
Each of the modules requires a push buttons module EL610D.

### Nexa Inox

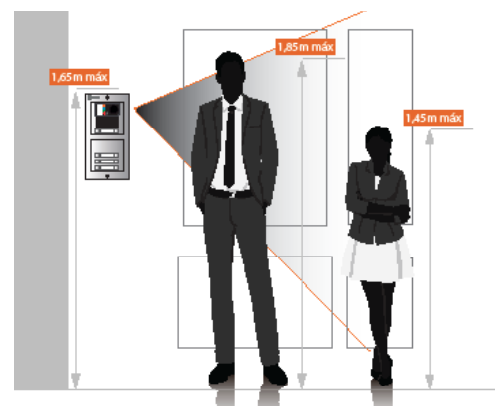
- Select an embedding box, depending on the number of modules:  
For 1 module panel use CE610, 2 modules use CE620, 3 modules use CE630 and for 4 modules use CE640.
- Select the assembling set, depending on the number of modules:  
For 1 module use NX6001, 2 modules use NX6002, 3 modules use NX6003 and for 4 modules use NX6004.
- Select the video grille module for EL632/G+ as per required number of push buttons:  
NX1000 (without integrated buttons), NX1110 (1 button), NX1220 (2 buttons).
- Add as many push buttons modules as required (max.132 push buttons):  
Single button: NX3110 (1 button), NX3120 (2 buttons), NX3130 (3 buttons), NX3140 (4 buttons), NX3150 (5 buttons),  
Double button NX3220 (2 buttons), NX3240 (4 buttons), NX3260 (6 buttons), NX3280 (8 buttons), NX3210 (10 buttons).  
Each of the modules requires a push buttons module EL610D.

### Entry panel location

1- Avoid to expose the panel to direct light sources (sun, street lights,...) in order to get the best image quality:



2- Locate the upper part of the panel at 1,65 m height for a correct view of the visitors:



### Necessary elements to complete an installation:

- Power supply FA-G+, use one for every 8 devices (door entry panels, monitors...).
- To connect the devices use the switching units D4L-G+/PoE. Each one can connect 4 devices.
- Chose the video monitor ART 7/G+ or ART 7W/G+ (with Wifi built-in), to receive the calls at the smartphone through the App G2CALL+ (available on Android and iOS).
- If it is required a private call module PCM/G+, select the monitors ART 7/G+/PCM or ART 7W/G+/PCM

In case of daisy-chain connections (IN/OUT) use the power injectors DCP/G+, together with the power supply FA-DC48/G+. Each of the monitors requires 1 single line switch DCS/G+.

## MODULE CONFIGURATION

- The master panel (Block 1, Panel 1), can be set without the use of any computer through the TACT button.



To set the panel as master, press the TACT button 5 times. The module leds will blink.  
The new address of the module will change to 10.0.14.9.

- For other settings it will be necessary to get connected to the web server of the module as detailed in next section

- In case it is necessary to reset the module to factory default settings:



Keep pressed for 5 seconds the TACT button, leds will blink.  
The module will boot and the address will be again the factory default 10.0.0.254.

- In both cases the module leds will blink three times to confirm that the process has been correctly completed.

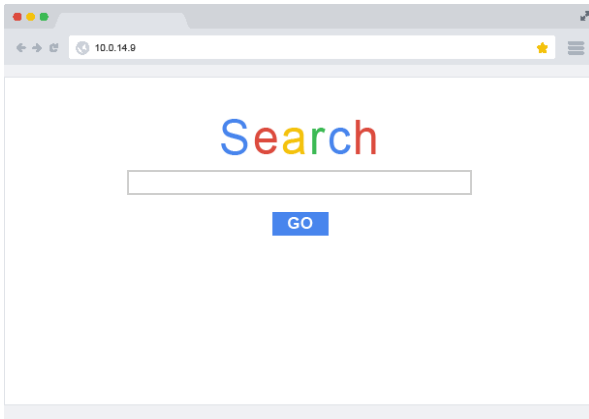
**IMPORTANT:** Those process delete the module data base and configuration. In case that the module was previously set-up, it is warmly recommended to previously save the configuration and data base using the export option (through the Web server).

## MODULE SETTING USING THE WEB SERVER

The module EL632/G+/48 can be set only as a block panel (block 1-98), not being possible to set as general panel (block 99). When the number of block and panel needs to be different than 1 or it is required to adjust any other setting, it will be mandatory to use the web server.

- If the module is set to factory default settings, it will be possible to access the web server by browsing the IP address 10.0.0.254. In case the module has been set as master panel by the TACT button, the IP address that should be used is 10.0.14.9.

Open the browser and type the IP address :

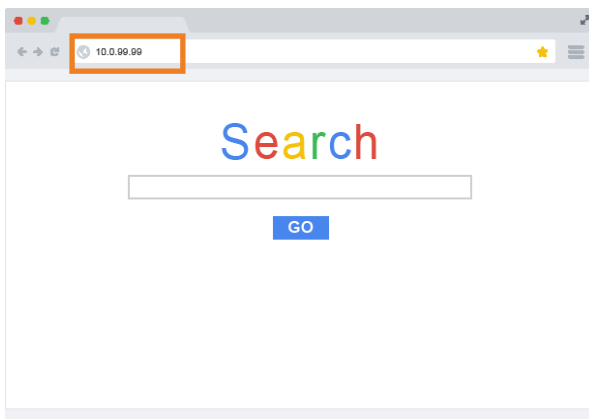


Log-in into the web server:

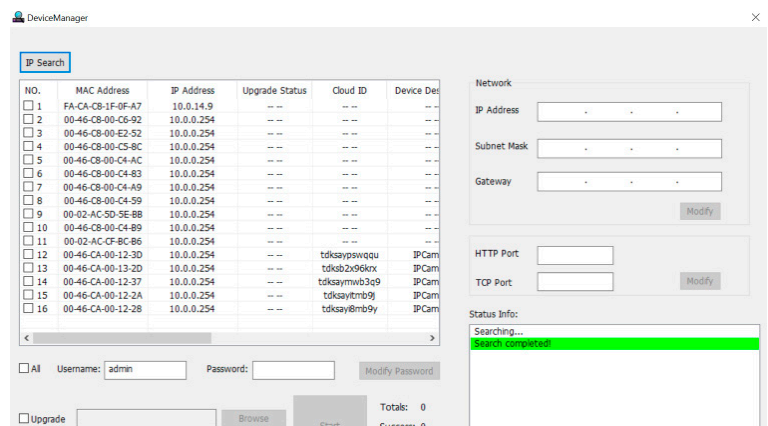


The factory password is 888999.

-After setting a module as block number and panel number, the new IP address should be loaded on the url bar.



New IP address should be automatically loaded.



Use specific tool to find IP-G+ devices "Device Manager".

## WEB SERVER

In this section it is described the web server menu of the module EL632/G+/48:

Setting page

SETTINGS

From the settings page it will be possible to modify the module parameters. :

- Settings page 1

DOOR PANEL

Dialing code length

5

Block number

1

Door panel number

1

Floor number

1

Time

16:59

Date

23/ 11/ 20

Devices edition allowed

☐

Length of the calling code, 5

Block number (1-98)

Door panel number (1-19)

Floor where the module is located (1-96)

Time and date adjustment

Allow devices to change their device name

Network

Automatic settings

☐

Local IP

10.0.14.9

Subnet Mask

255.0.0.0

Gateway

10.0.0.1

Server IP

255.0.0.0

DNS

8.8.8.8

Associate camera

☐

IP Address

10.0.14.40

Set as main

☐

IP address setting: Manual or automatic

Manual IP address setting

Enable the external camera function

External camera IP address

Enable to show this camera by default

- Settings page 2

DOOR PANEL

Camera disabled

☐

Illumination leds \*

2

Prompt messages \*\*

0

\* Illumination modes

0 OFF - 1 ON - 2 Auto

\*\* Prompt modes

0 OFF 3 Dutch 6 Greek  
1 Spanish 4 English 7 Portuguese  
2 Danish 5 French 8 Ring tones

Disable the built-in camera

Illumination leds setting  
0 = Always off 1=Always on 2=Automatic

Prompt messages language:  
0 = No message 3=Dutch 6=Greek  
1 = Spanish 4=English 7=Portuguese  
2 = Danish 5=French 8=Calling tones

Lock 1

Unlock time

3

Exit button unlock mode \*

0

Exit button delay time

0

Lock 2

Unlock time

3

Exit button unlock mode \*

0

Exit button delay time

0

\* Unlock modes

0 Normally Open - 1 Normally Closed

Relay 1 unlock time (1-15 s)

Exit button setting  
0 = Normally open / 1 = Normally closed

Exit button operation delay time

Relay 2 unlock time (1-15 s)

Exit button setting  
0 = Normally open / 1 = Normally closed

Unlock time (1-15 s)

RELÉ 1 RELÉ 2

PUSH BUTTONS

By default the module is set as double button configuration, being both buttons at each row on EL610D enabled. It is possible to set the module as single push button. In that case, the operative buttons will be the ones marked as 1,3,5,7 and 9 at the module EL610D.

PUSH BUTTONS

Single push button type

☐

Built-in push buttons

Left

132 132

Right

131 131

10 010 20 020 30 030

9 009 19 019 29 029

8 008 18 018 28 028

7 007 17 017 27 027

6 006 16 016 26 026

5 005 15 015 25 025

4 004 14 014 24 024

3 003 13 013 23 023

2 002 12 012 22 022

1 001 11 011 21 021

Reset

Apply

Next

Golmar

Settings

Push buttons

SIP servers

Devices

Event log

About

Reset, set the default values.

Apply modifications.

Next push buttons address page.

Single button

Double button

Default call addresses.  
The values for both single and double push buttons are modifiable. Allowing to associate a different call address to each push-button. As well as assigning the same call address to more than one push button if required.

The dip switch configuration of the EL610D module will be set as shown in the next table.

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In the following table it is detailed the default address of each button and the corresponding EL610D dip switch configuration.

#### DOUBLE BUTTON

EL610D DIP SWITCH								PUSH BUTTON CALLING ADDRESS									
1	2	3	4	5	6	7	8	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10
ON	OFF	OFF	OFF	OFF	OFF	OFF	ON	1	2	3	4	5	6	7	8	9	10
OFF	ON	OFF	OFF	OFF	OFF	OFF	ON	11	12	13	14	15	16	17	18	19	20
OFF	OFF	ON	OFF	OFF	OFF	OFF	ON	21	22	23	24	25	26	27	28	29	30
OFF	OFF	OFF	ON	OFF	OFF	OFF	ON	31	32	33	34	35	36	37	38	39	40
OFF	OFF	OFF	OFF	ON	OFF	OFF	ON	41	42	43	44	45	46	47	48	49	50
OFF	OFF	OFF	OFF	OFF	ON	OFF	ON	51	52	53	54	55	56	57	58	59	60
OFF	OFF	OFF	OFF	OFF	OFF	ON	ON	61	62	63	64	65	66	67	68	69	70
ON	OFF	OFF	OFF	OFF	OFF	OFF	OFF	71	72	73	74	75	76	77	78	79	80
OFF	ON	OFF	OFF	OFF	OFF	OFF	OFF	81	82	83	84	85	86	87	88	89	90
OFF	OFF	ON	OFF	OFF	OFF	OFF	OFF	91	92	93	94	95	96	97	98	99	100
OFF	OFF	OFF	ON	OFF	OFF	OFF	OFF	101	102	103	104	105	106	107	108	109	110
OFF	OFF	OFF	OFF	ON	OFF	OFF	OFF	111	112	113	114	115	116	117	118	119	120
OFF	OFF	OFF	OFF	OFF	ON	OFF	OFF	121	122	123	124	125	126	127	128	129	130



#### SINGLE BUTTON

EL610D DIP SWITCH								PUSH BUTTON CALLING ADDRESS				
1	2	3	4	5	6	7	8	P1	P3	P5	P7	P9
ON	OFF	OFF	OFF	OFF	OFF	OFF	ON	1	2	3	4	5
OFF	ON	OFF	OFF	OFF	OFF	OFF	ON	6	7	8	9	10
OFF	OFF	ON	OFF	OFF	OFF	OFF	ON	11	12	13	14	15
OFF	OFF	OFF	ON	OFF	OFF	OFF	ON	16	17	18	19	20
OFF	OFF	OFF	OFF	ON	OFF	OFF	ON	21	22	23	24	25
OFF	OFF	OFF	OFF	OFF	ON	OFF	ON	26	27	28	29	30
OFF	OFF	OFF	OFF	OFF	OFF	ON	ON	31	32	33	34	35
ON	OFF	OFF	OFF	OFF	OFF	OFF	OFF	36	37	38	39	40
OFF	ON	OFF	OFF	OFF	OFF	OFF	OFF	41	42	43	44	45
OFF	OFF	ON	OFF	OFF	OFF	OFF	OFF	46	47	48	49	50
OFF	OFF	OFF	ON	OFF	OFF	OFF	OFF	51	52	53	54	55
OFF	OFF	OFF	OFF	ON	OFF	OFF	OFF	56	57	58	59	60
OFF	OFF	OFF	OFF	OFF	ON	OFF	OFF	61	62	63	64	65



The built-in push buttons of the EL632/G+/48 module have the following call address: When set as double push button, 132 (left), 131 (right).

In case of single button, the operative button will be the one on the right and its calling address is 66.



DEVICES

The devices section will be visible when the module is working as master panel.  
In this menu the existing devices in the installation are listed, being possible to display its configuration and edit certain information:

Registered devices in the master panel (installation)

“Golmar management system”

DEVICE LIST

Block 1

Apartment 1

Monitor 1

Monitor 2

Apartment 2

Door panel 1

GMS

DEVICE INFORMATION

Address1801

IP address10.0.14.9

MAC addresse6:f6:f78:6a:27

NameDoor panel 1

Floor number1

Delete

Apply

Settings

SIP

Devices

Event log

About

Export

Import

Add Camera

Add SIP Device

Settings about selected device

Export and import: Allow to export and import the database of the module, containing the devices information.  
In case the master panel needs to be replaced by a new one, import the \*.db file generated with the export option.  
Add Camera: Allow to add up to 32 ONVIF cameras into the system, which will be seen by the monitors.  
Add SIP Devices: Allow to add SIP devices in the installation. Refer to its manual for further information.

EVENT LOG

It is possible to check the log of events of the module. Those events can be exported into a file using the Export function.

Event type	Address / Code	Time	Date
Call to	109	10:28:36	27/09/2019
Communication established	109	10:28:66	27/09/2019
Lock 1 activation	109	10:28:06	27/09/2019
Lock 2 activation	109	10:28:10	27/09/2019
Exit button activation		11:04:10	02/10/2019
Call to	109	10:28:36	27/09/2019

Export

Settings

SIP

Devices

Event log

About

ABOUT

In this page it is displayed the information about the panel like the IP and MAC addresses, as well as the FW version. It is possible in this page to change the password to access the web server and to update the FW of the module.

Panel information

LOCAL INFORMATION

Block number1

Door panel number1

Local IP10.0.14.9

Subnet Mask255.0.0.0

Gateway10.0.0.1

Server IP10.0.14.9

MAC addresse6:f6:f78:6a:27

UNIT VERSION

HardwareC

Firmware1.00

PASSWORD

Administrator888999

Apply

Reboot

Update

Settings

SIP

Devices

Event log

About

Hardware version

Firmware version

Password to access the web server  
(Keep in a safe location the new password if modified)

Reboot the module

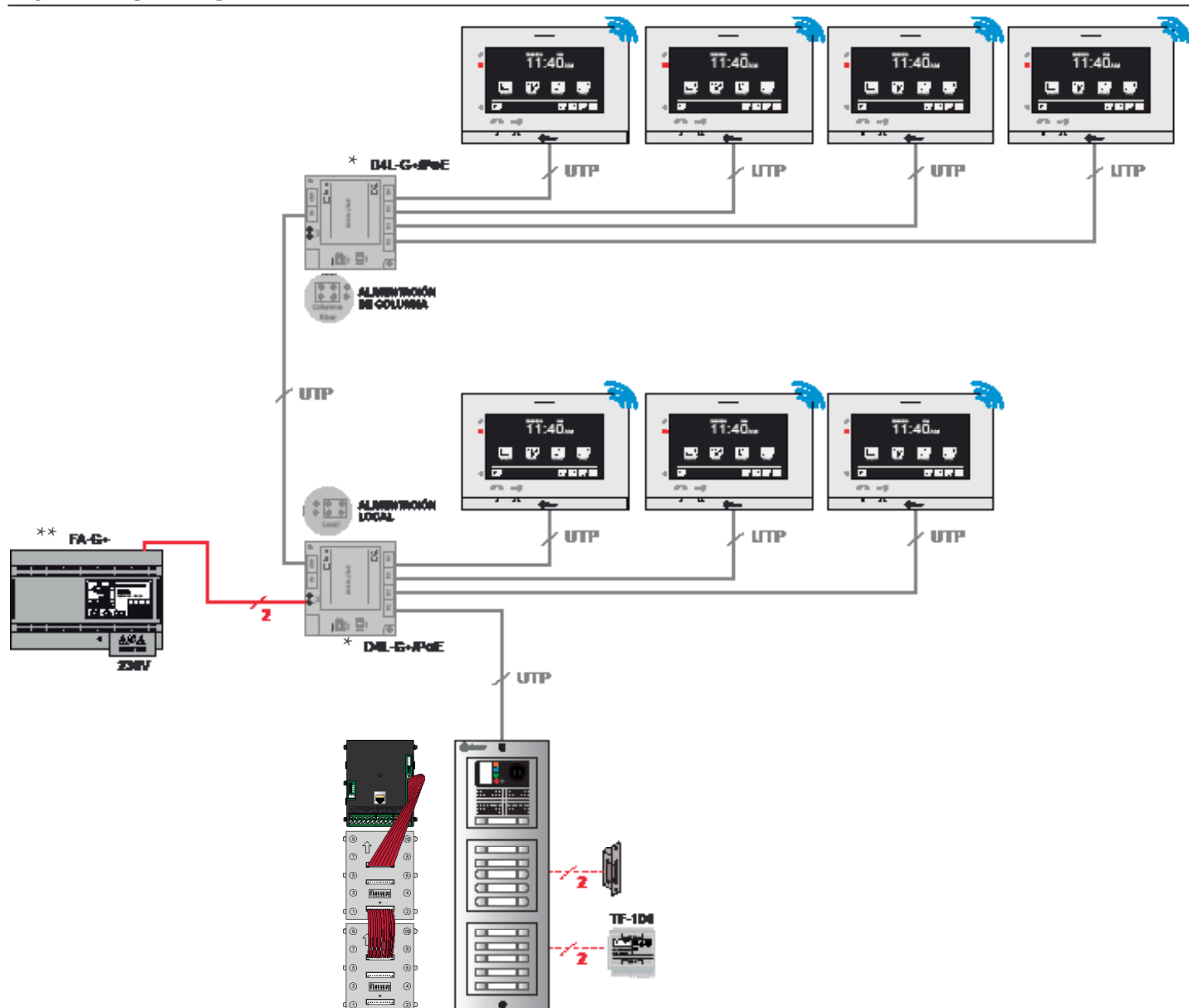
Update module FW

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## INSTALLATION DIAGRAM



\* Power up the switching units D4L-G+/POE using FA-G+ power supply (18 Vdc).

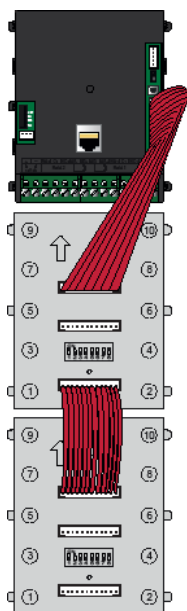
The D4L-G+/POE can be locally powered, by connecting the power supply to the “+” and “-” terminals. Set the jumper at D4L-G+/POE in “Local” setting position.

When setting the jumper as “Riser”, the power is supplied through the IN terminal at D4L-G+/POE. In that case the IN terminal should be linked to OUT terminal from the precedent switching unit D4L-G+/POE.

\*\* The maximum distance between switching unit D4L-G+/POE and a device is 70 m.  
The maximum number of devices that can be connected to FA-G+ is 8.

For more connection topologies see the annex “Schematics”.

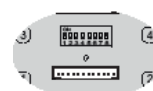
## CONNECTION OF EL632/G+ TO THE PUSH BUTTONS MODULE EL610D



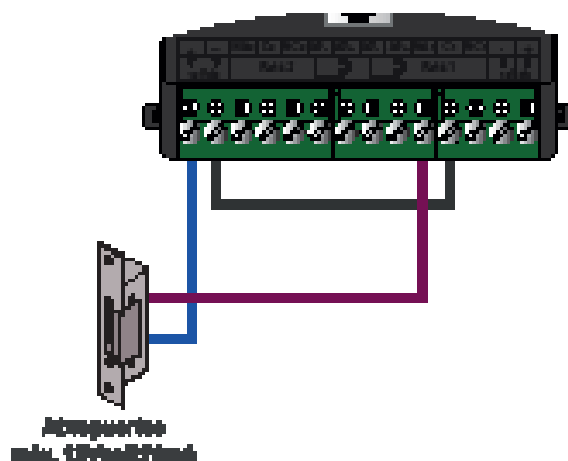
To connect the module EL632/G+/48 to the modules EL610D, use the ribbon cable RAP610D supplied with the buttons module.

Connect one end at the 12 pin connector located at EL632/G+/48 and the other end at the EL610D push buttons module at the upper terminal.

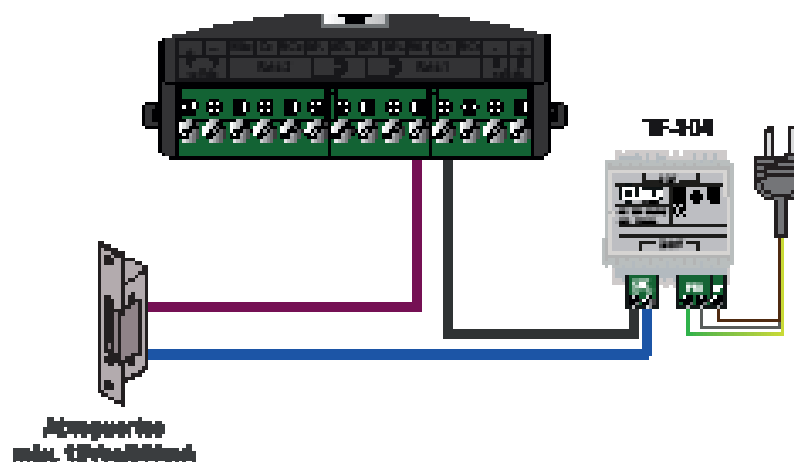
Link all push buttons modules EL610D in daisy-chain, by connecting the bottom terminal to the upper terminal of the next push buttons module using the ribbon cable.



## DC DOOR LOCK CONNECTION



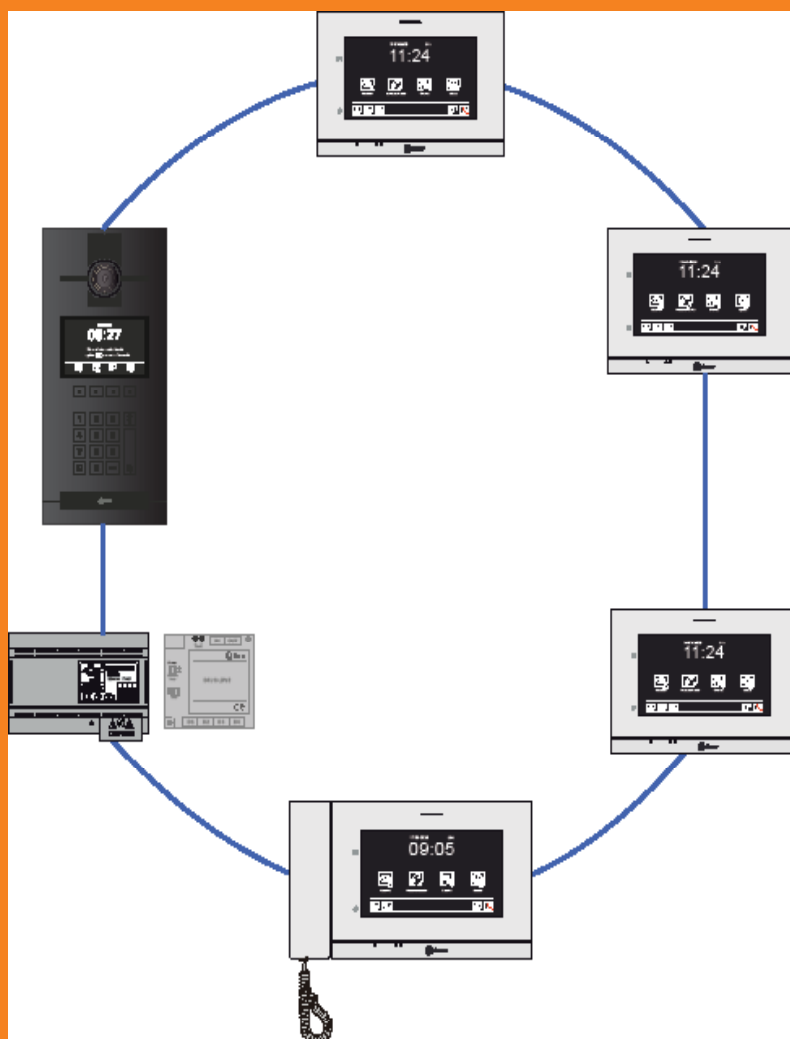
## AC DOOR LOCK CONNECTION



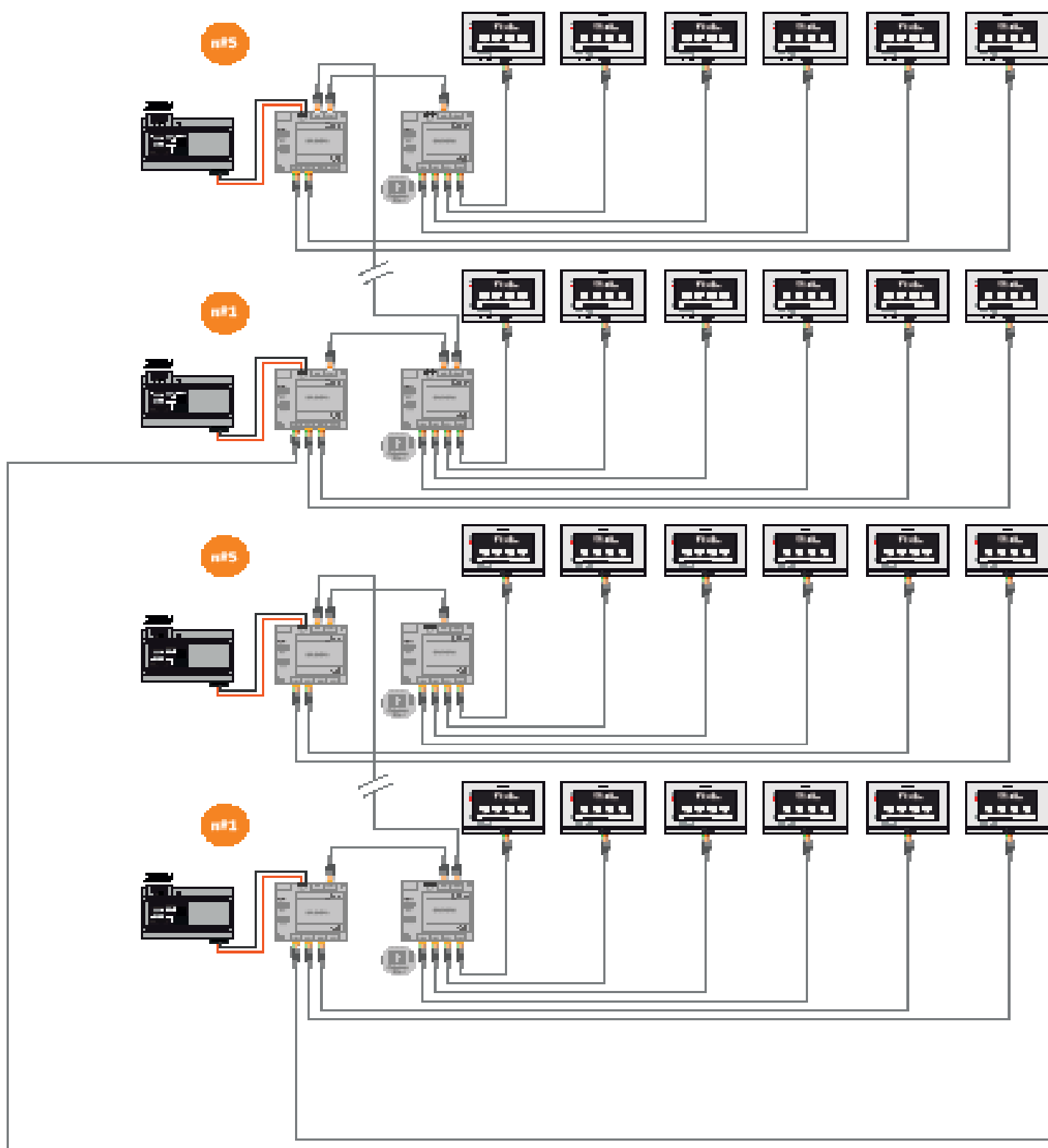


# ANNEX

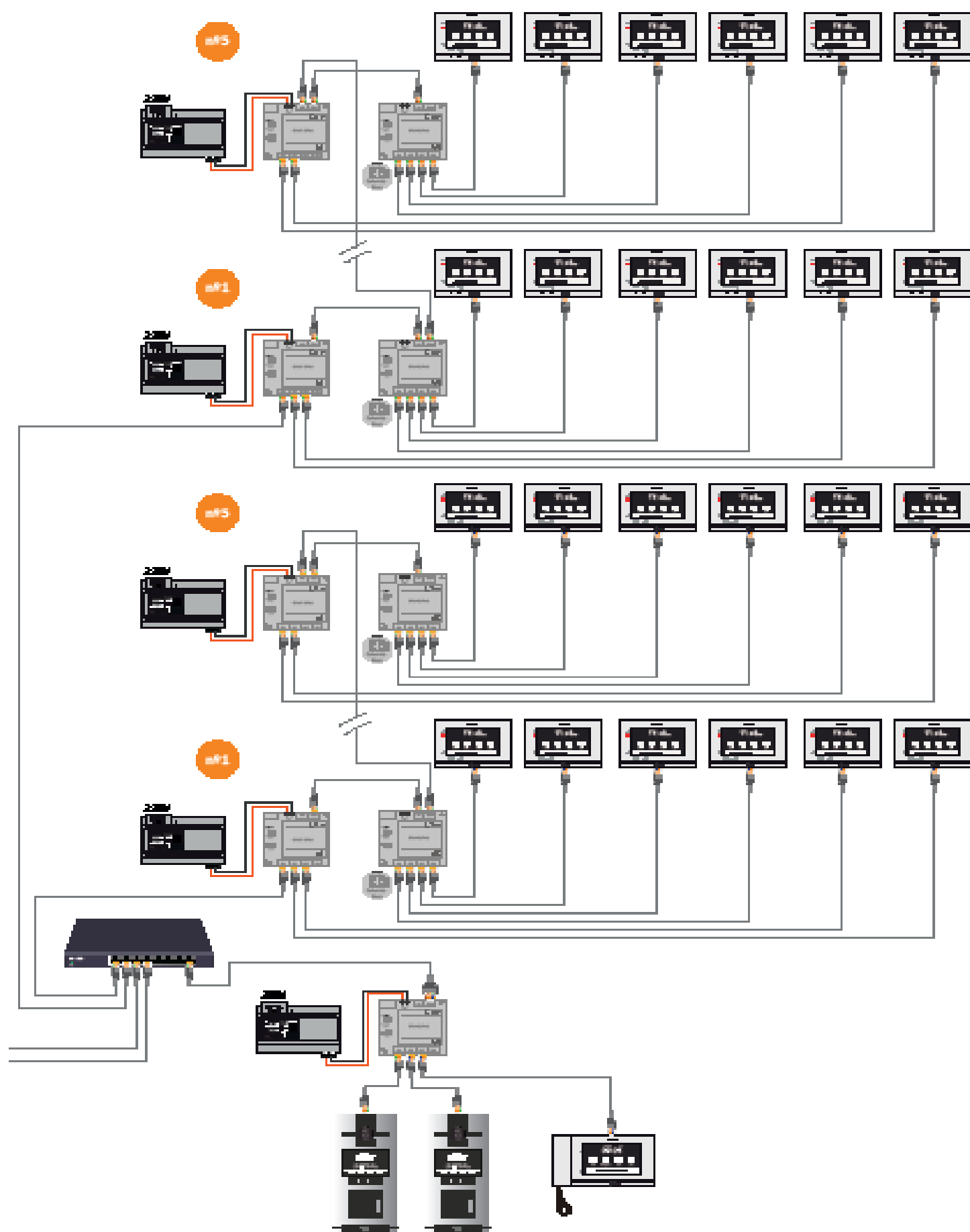
## INSTALLATION DIAGRAMS



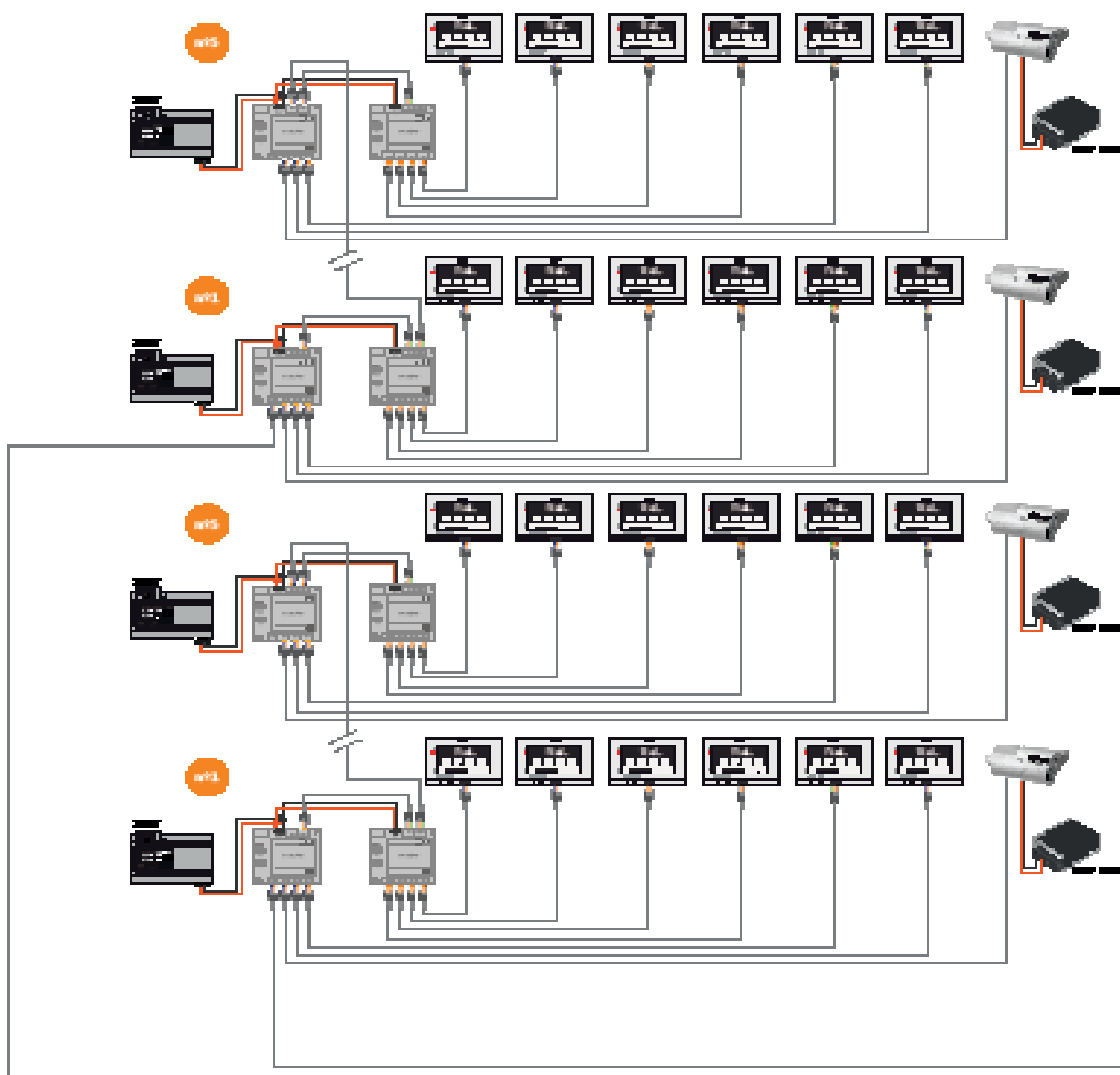
# CONNECTION USING D4L-G+/POE AND A CORE SWITCH (1/2)

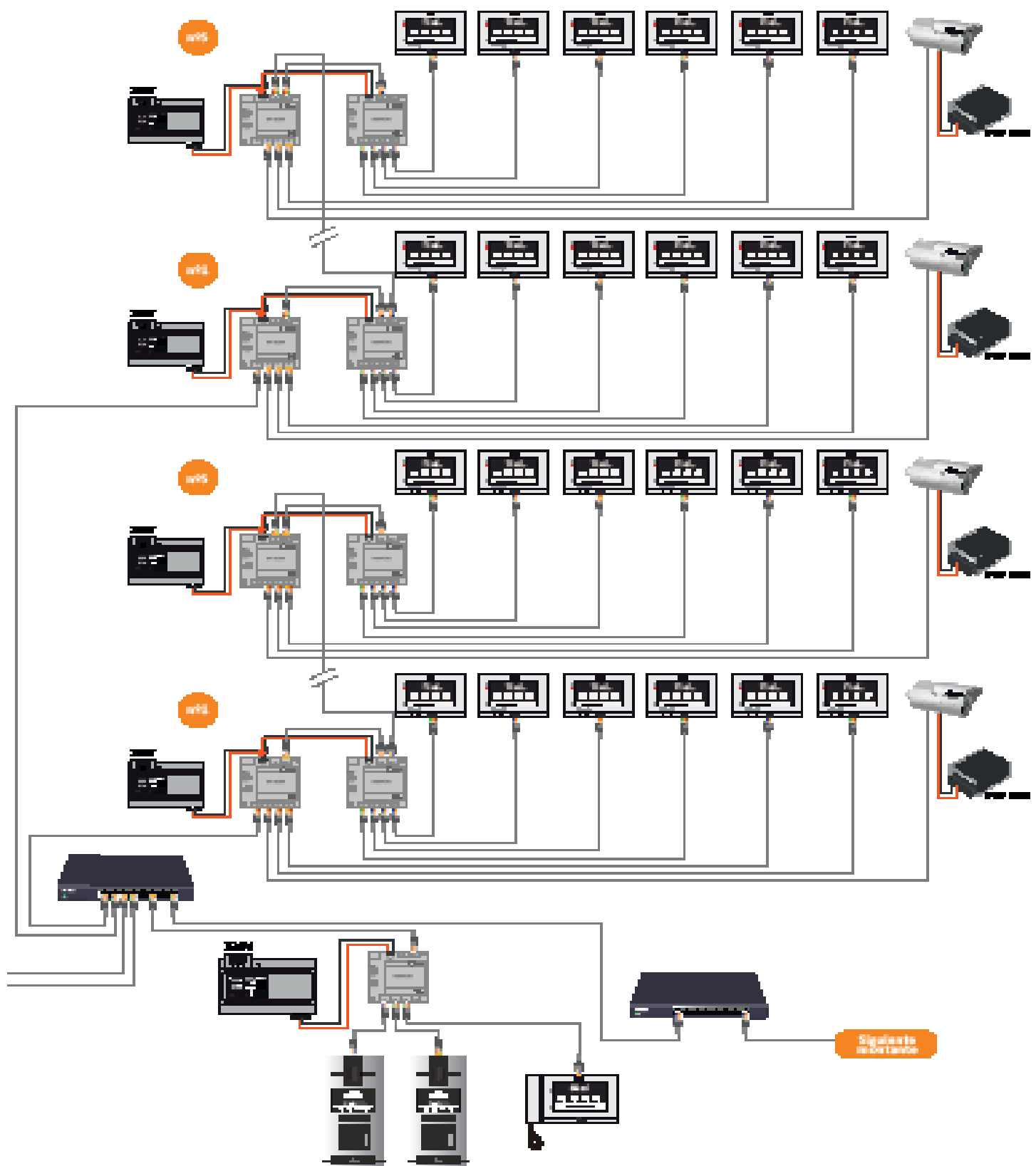


## CONNECTION USING D4L-G+/POE AND A CORE SWITCH (2/2)



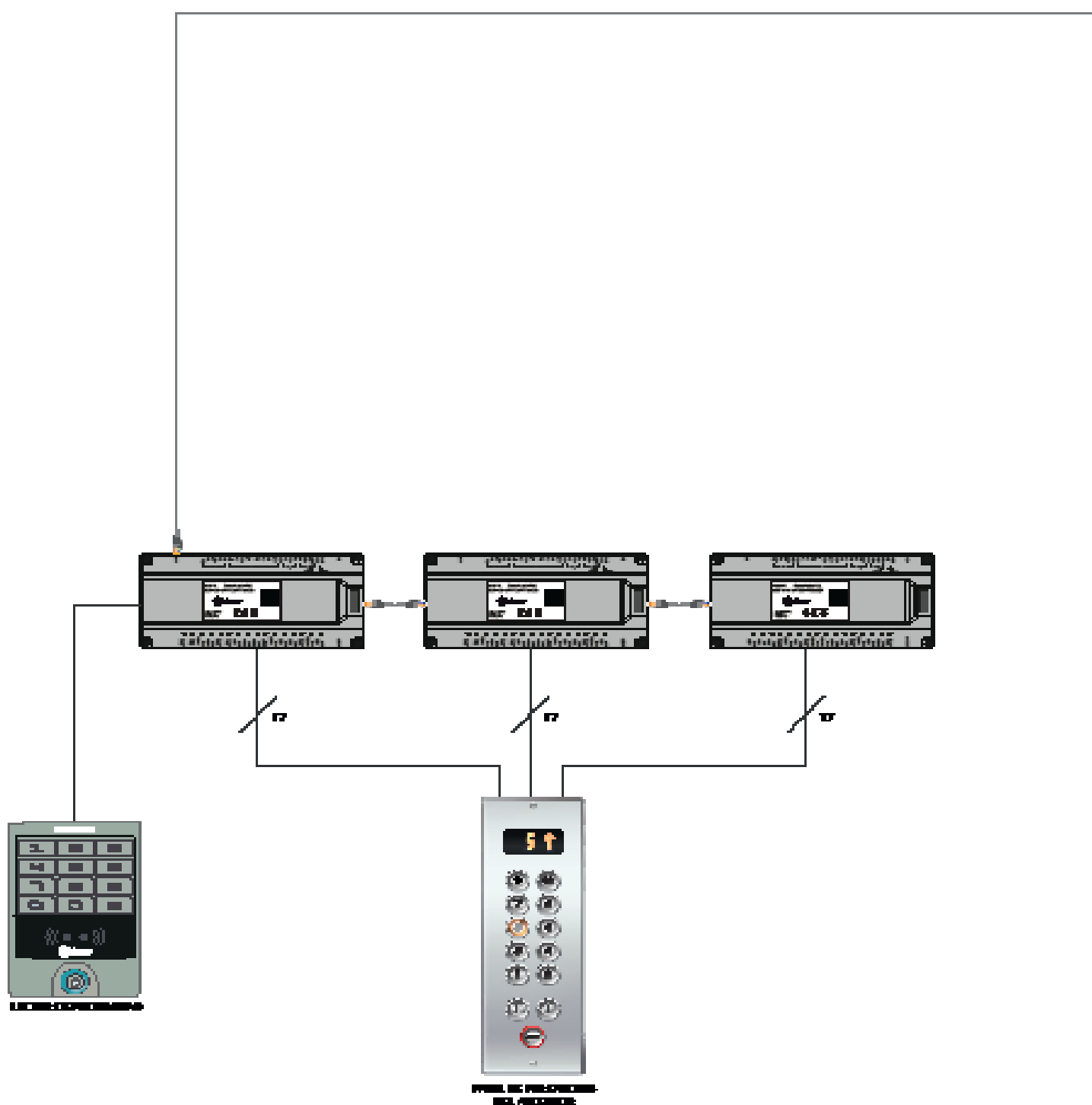
CONNECTION USING D4L-G+/POE AND A CORE SWITCH. CCTV ONVIF CAMERAS AT EACH FLOOR (1/2)



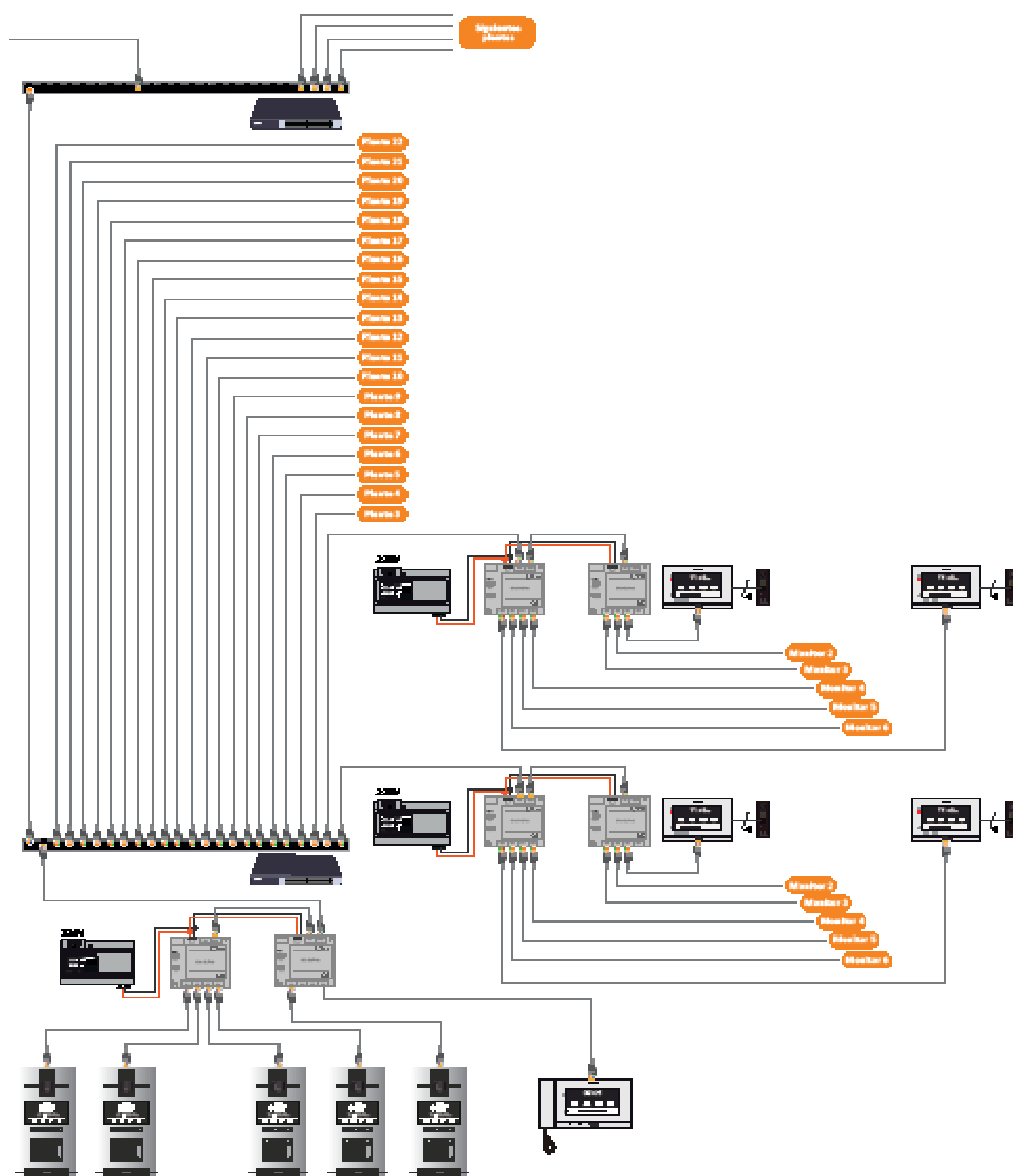
**CONNECTION USING D4L-G+/POE AND A CORE SWITCH. CCTV ONVIF CAMERAS AT EACH FLOOR (2/2)**



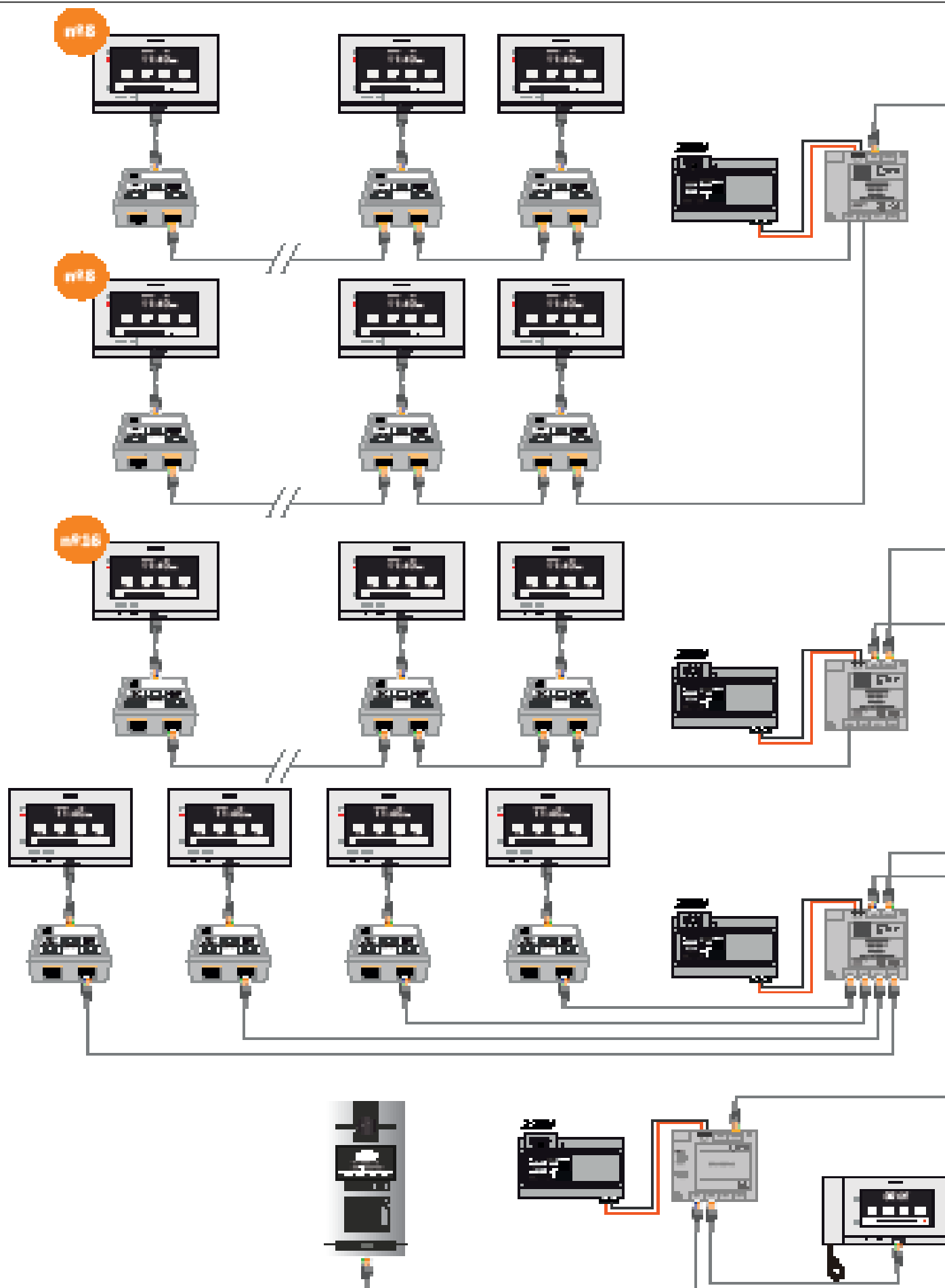
INSTALLATION USING LIFT CONTROL UNIT LCU-16/G+ (1/2)



## INSTALLATION USING LIFT CONTROL UNIT LCU-16/G+ (2/2)



INSTALLATION USING DAISY-CHAIN SWITCHING UNITS DCS-G+ AND POE INJECTORS DCP-G+







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