bticino

www.bticino.com

IP DES - Video entrance panel with 10" touch display

374002

Description

Video entrance panel with 10" touch display and badge reader for access control functions. From the touch display, it is possible to make calls to the apartments and the guard station and enter the access code to release the lock. Configuration of different calling modes:
- Apartment code (Area - Building - Riser - Floor - Apartment)
- Numeric or alphanumeric codes for residents
- Address book with contact list

Enter the settings menu with a specific code for maintenance and for managing the settings (e.g. backlight brightness, ring volume, speaker volume, touch volume, screensaver time). Possibility to upload customized screensavers and advertisements using the configuration software. The entrance panel can be PoE (power over Ethernet) powered, or directly powered using power supply 375005. Flush mounted installation using the dedicated box 375007.

Related items

375007   Metal box for flush-mounting installation

Technical data

Voltage:	24 Vdc
Maximum consumption:	0.65 A
C NC NO contact output:	125 Vac/0.5A, 30Vdc/2A
Max. cable section for clamps:	0.8 mm^2
Operating temperature:	(- 40) – (+ 70) °C
IP degree of protection:	54
IK degree of protection:	07
Camera resolution:	1080 p
Camera viewing field angle:	H= 80°; V= 53°
Badge reader Frequency:	13.56 MHz
Badge reader transmission power:	< 42 dBuA/m @ 10m

Dimensional data
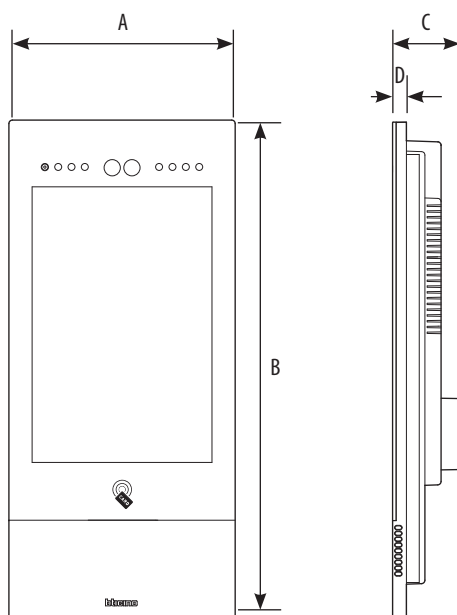
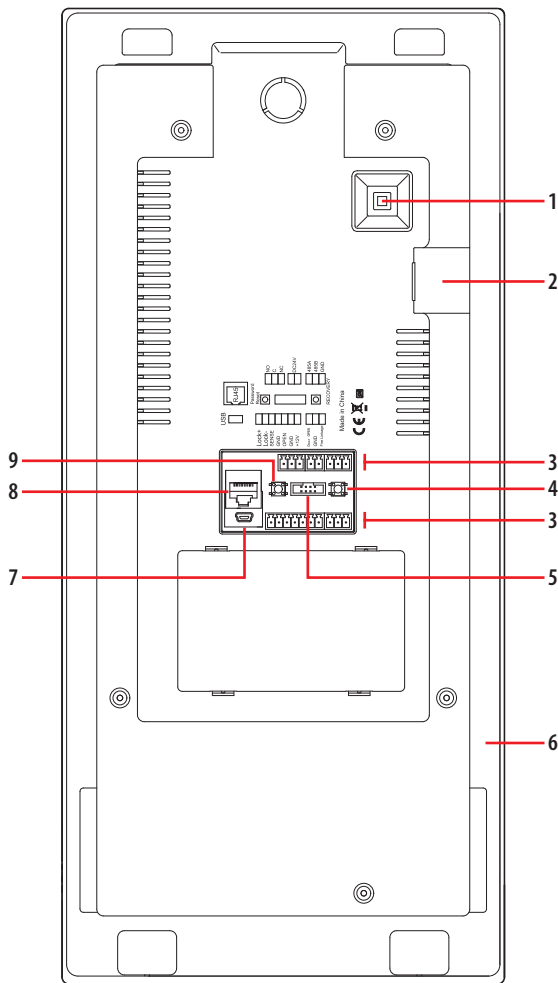| A	B	C	D
195 mm	430 mm	58 mm	12 mm

Front view

Legend

1. Microphone
2. LED for the shooting field lighting
3. Camera
4. Light sensor
5. Display 10" (touch screen)
6. Home Page
7. Badge reader for door lock opening
8. Loudspeaker
9. Locking screws

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Rear view

Legend

1. Tamper switch
2. SD card
3. Connection clamp
4. Not used
5. Not used
6. Mounting bracket
7. USB Connector (not used)
8. RJ45 Connector (*)
9. Reset setting password and local access code

(*) This device does not support standard POE power supplies, but only POE power supplies identified with item no. 375002.
Connect the cat5/5e/6 FTP or cat5/5e/6 UTP cable with ferrite supplied to the connector
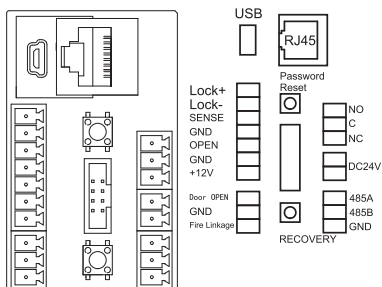
Connection clamps	
LOCK+	electric door lock connection and control
LOCK-	(12V - 4A impulsive on 3 Ohm maximum)
SENSE	door status signal input (dry contact)
GND	system common ground terminal for third party connection
OPEN	third party access control signal input for door lock opening (+12Vdc pulse)
GND	access control devices power supply
+12V	
Door OPEN – GND	local door lock release pushbutton connection
FIRE Linkage – GND	local door lock release pushbutton connection for firealarm system
NO	
C	interlocked contact
NC	
DC24V	additional power supply clamps (not polarized)
RS485A	Lift Control	terminal A
RS485B		terminal B
GND		system common ground terminal for RS485 connection

Configuration

To use the device, it is necessary to configure it and create the Community structure using the DES Server software, following the steps below:

Step	01	Community VLAN network creation
Step	02	Community structure definition
Step	03	Community structure creation
Step	04	Device MAC address registration
Step	05	Forwarding of the phonebook to the Server DES
Step	06	Installation of the devices
Step	07	Activation of the devices
Step	08	System test

For further information, please refer to the Server DES Software Manual, available for download from www.homesystems-legrandgroup.com website.

Wiring diagrams

| CABLES LEGEND | LAN PoE BTicino ━━━ | LAN Ethernet ━━━ | Copper cables ━━━ | 2 x Copper cables ━━━ |

It is possible to use two different types of connection according to installation situation:

A - Diagram with power supply by BTicino PoE Switch
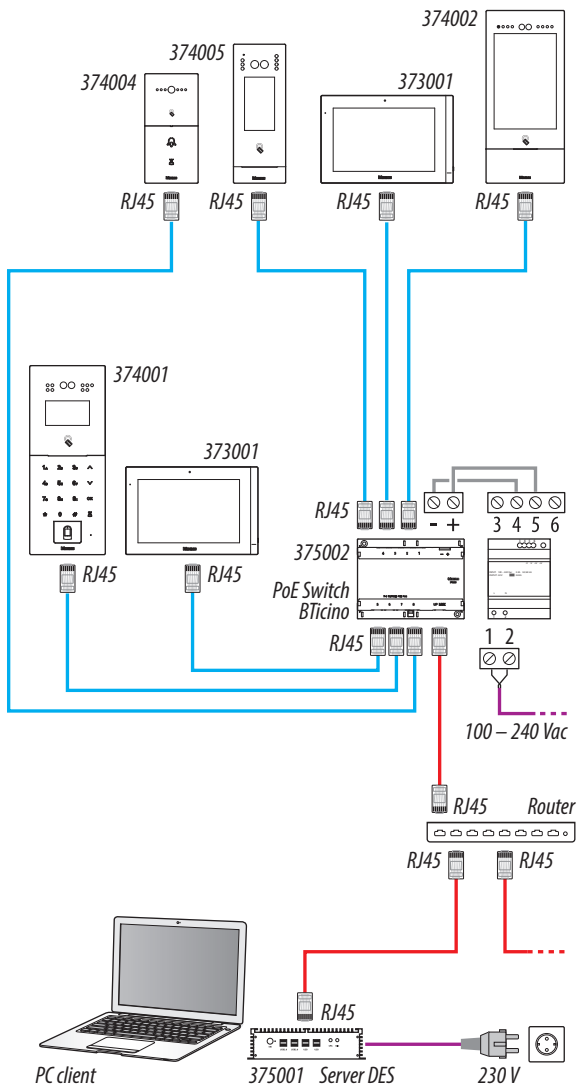
B - Diagram with local power supply
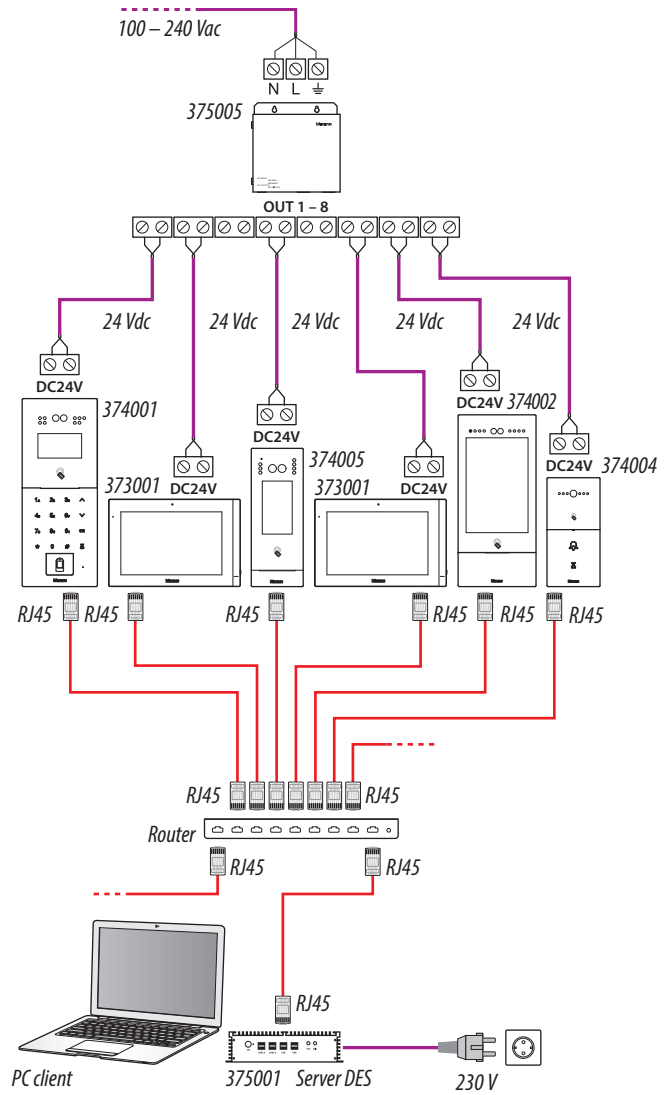
Attention: this device does not support standard POE power supplies, but only POE power supplies identified with 375002. Connect the cat5/5e/6 FTP or cat5/5e/6 UTP cable with ferrite supplied to the connector.

Attention: do not directly connect PoE ports to an unsuitable network interface, such as a device powered by a different voltage. Connect the UP LINK port to a suitable port, never to a PoE port.

Note: maximum length of every LAN permanent link line = 90 m.

Ethernet connection

CABLES LEGEND	LAN PoE Standard	LAN PoE BTicino	LAN Ethernet	Copper cables	2 x Copper cables

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Note: to connect the devices it is possible to use both types of wiring (diagram A or diagram B) or even mixed ones.

Fiber optic riser connection (case of higher bandwidth demand)

| CABLES LEGEND | LAN PoE Standard ━━ | LAN PoE BTicino ━━ | LAN Ethernet ━━ | Optical fiber ━━ | Copper cables ━━ | 2 x Copper cables ━━ |

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Lift control 1 - Lift control, 1 riser, 1 entrance panel

CABLES LEGEND	LAN PoE BTicino ———	LAN Ethernet ———	Copper cables ———	2 x Copper cables ———

FLOOR 3

APARTMENT 1 — 373001 — RJ45
APARTMENT 2 — 373001 — RJ45
APARTMENT 3 — 373001 — RJ45
APARTMENT 4 — 373001 — RJ45

RJ45 — Network switch
RJ45 — RJ45
RJ45

375002
PoE Switch BTicino
100 – 240 Vac
− + 3 4 5 6

FLOOR 2

APARTMENT 1 — 373001 — RJ45
APARTMENT 2 — 373001 — RJ45
APARTMENT 3 — 373001 — RJ45
APARTMENT 4 — 373001 — RJ45

RJ45 — Network switch
RJ45 — RJ45
RJ45

375002
PoE Switch BTicino
100 – 240 Vac
− + 3 4 5 6

FLOOR 1

APARTMENT 1 — 373001 — RJ45
APARTMENT 2 — 373001 — RJ45
APARTMENT 3 — 373001 — RJ45
APARTMENT 4 — 373001 — RJ45

RJ45 — Network switch
RJ45 — RJ45
RJ45

375002
PoE Switch BTicino
100 – 240 Vac
− + 3 4 5 6

RJ45 — Router

375002
PoE Switch BTicino
RJ45
100 – 240 Vac
− + 3 4 5 6

375000 — RJ45

RJ45

374002

Central Unit Lift Control

9 – 24 Vdc
2 1
KE ON
375010

PC client — 375001 Server DES — 230 V

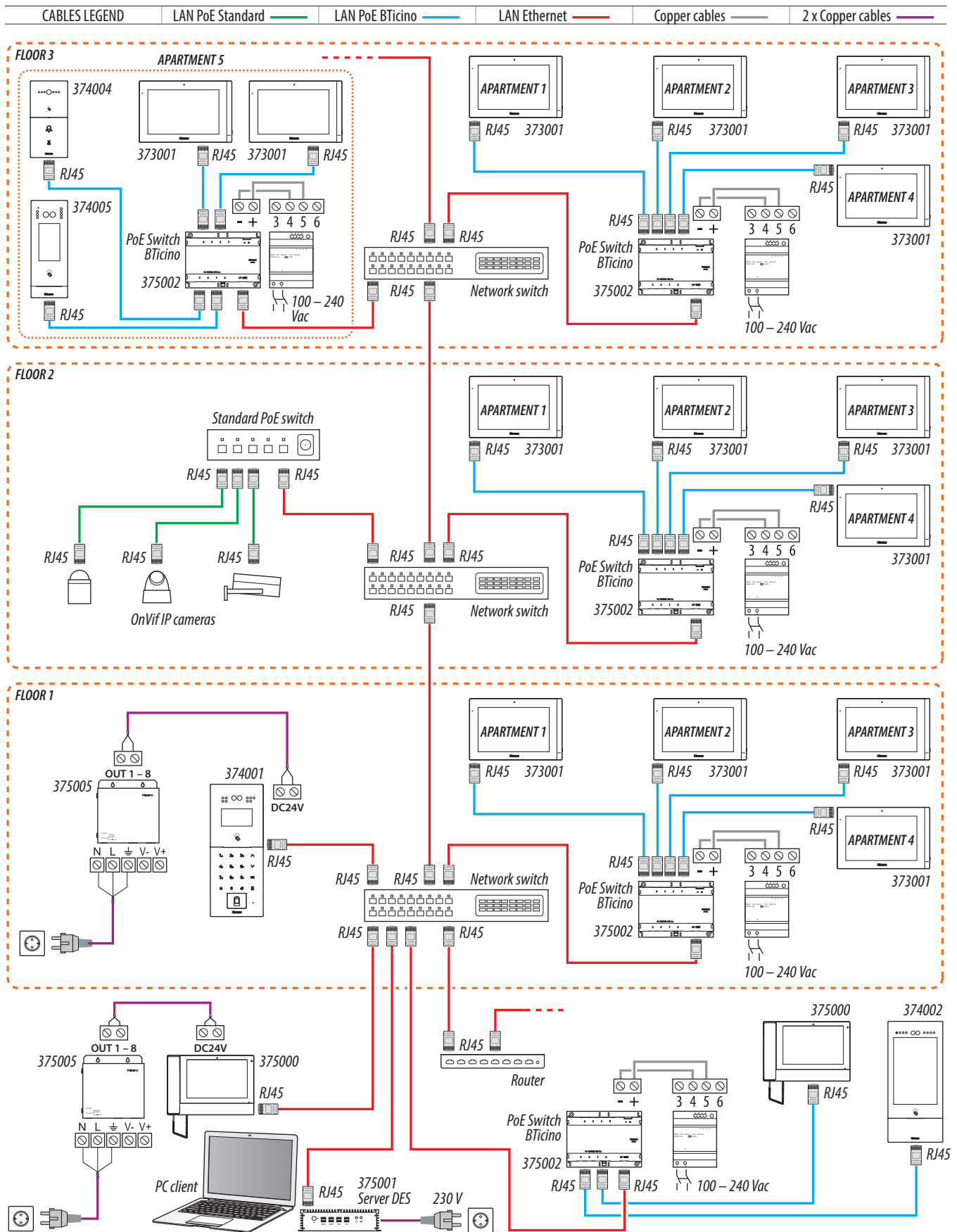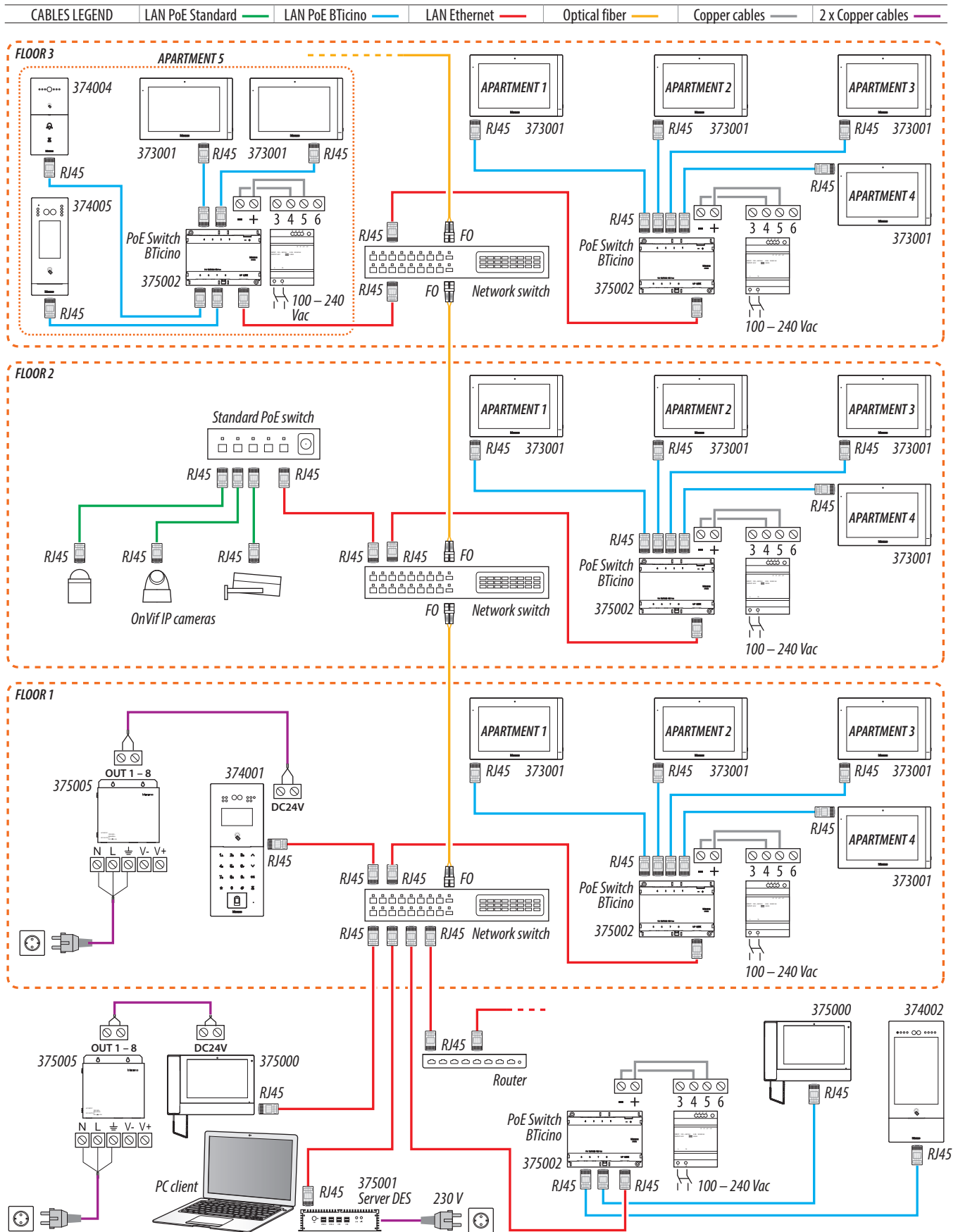GND 485B 485A | 485A 485B GND | 485A1 485B1 GND

RJ45

GND 485B 485A

RS 485

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Lift control 2 - Lift control, multi riser, 1 entrance panel

CABLES LEGEND	LAN PoE BTicino	LAN Ethernet	Copper cables	2 x Copper cables

RISER 1

FLOOR 3

APARTMENT 1 · APARTMENT 2 · APARTMENT 3
373001 RJ45 · RJ45 373001 · RJ45 373001
RJ45
RJ45 · Network switch
APARTMENT 4
− + 3 4 5 6 · 375002 · 373001
RJ45 · RJ45 RJ45
RJ45
PoE Switch BTicino
100 – 240 Vac

FLOOR 2

APARTMENT 1 · APARTMENT 2 · APARTMENT 3
373001 RJ45 · RJ45 373001 · RJ45 373001
RJ45
RJ45 · Network switch
APARTMENT 4
− + 3 4 5 6 · 375002 · 373001
RJ45 · RJ45 RJ45
RJ45
PoE Switch BTicino
100 – 240 Vac

FLOOR 1

APARTMENT 1 · APARTMENT 2 · APARTMENT 3
373001 RJ45 · RJ45 373001 · RJ45 373001
RJ45
RJ45 · Network switch
APARTMENT 4
− + 3 4 5 6 · 375002 · 373001
RJ45 · RJ45 RJ45
RJ45
PoE Switch BTicino
100 – 240 Vac

RISER 2

FLOOR 3

APARTMENT 1 · APARTMENT 2 · APARTMENT 3
373001 RJ45 · RJ45 373001 · RJ45 373001
RJ45
RJ45 · Network switch
APARTMENT 4
− + 3 4 5 6 · 375002 · 373001
RJ45 · RJ45 RJ45
RJ45
PoE Switch BTicino
100 – 240 Vac

FLOOR 2

APARTMENT 1 · APARTMENT 2 · APARTMENT 3
373001 RJ45 · RJ45 373001 · RJ45 373001
RJ45
RJ45 · Network switch
APARTMENT 4
− + 3 4 5 6 · 375002 · 373001
RJ45 · RJ45 RJ45
RJ45
PoE Switch BTicino
100 – 240 Vac

FLOOR 1

APARTMENT 1 · APARTMENT 2 · APARTMENT 3
373001 RJ45 · RJ45 373001 · RJ45 373001
RJ45
RJ45 · Network switch
APARTMENT 4
− + 3 4 5 6 · 375002 · 373001
RJ45 · RJ45 RJ45
RJ45
PoE Switch BTicino
100 – 240 Vac

RJ45
Router

− + 3 4 5 6 · 375000
375002
PoE Switch BTicino
RJ45 · RJ45 · 100 – 240 Vac · RJ45

− + 3 4 5 6 · 375000
375002
PoE Switch BTicino
RJ45 · 100 – 240 Vac · RJ45

RJ45

9 – 24 Vdc
Central Unit Lift Control
2 1
KE ON
375010
GND 485B 485A · 485A 485B GND 485A1 485B1 GND

PC client
RJ45
375001 Server DES · 230 V

9 – 24 Vdc
Central Unit Lift Control
2 1
KE ON
375010
GND 485B 485A · 485A 485B GND 485A1 485B1 GND
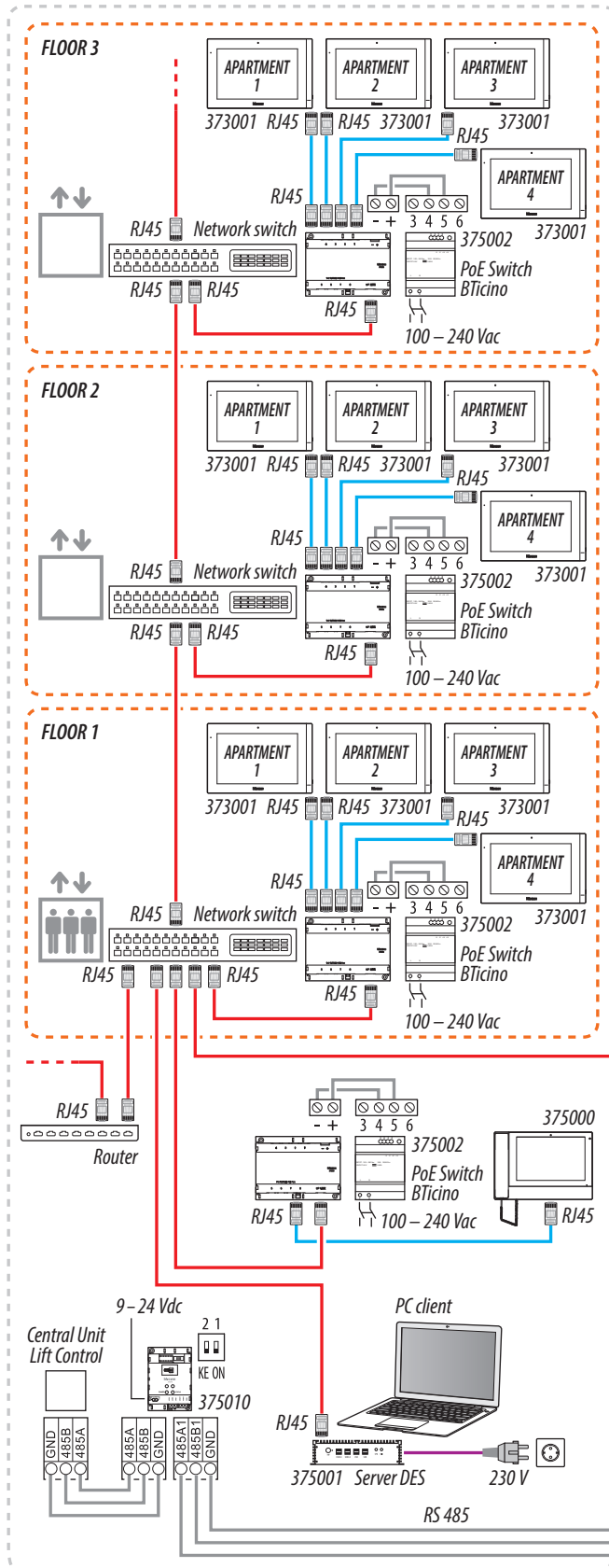
374002
GND 485B 485A

RS 485

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Note: to connect the devices it is possible to use both types of wiring (diagram A or diagram B) or even mixed ones.
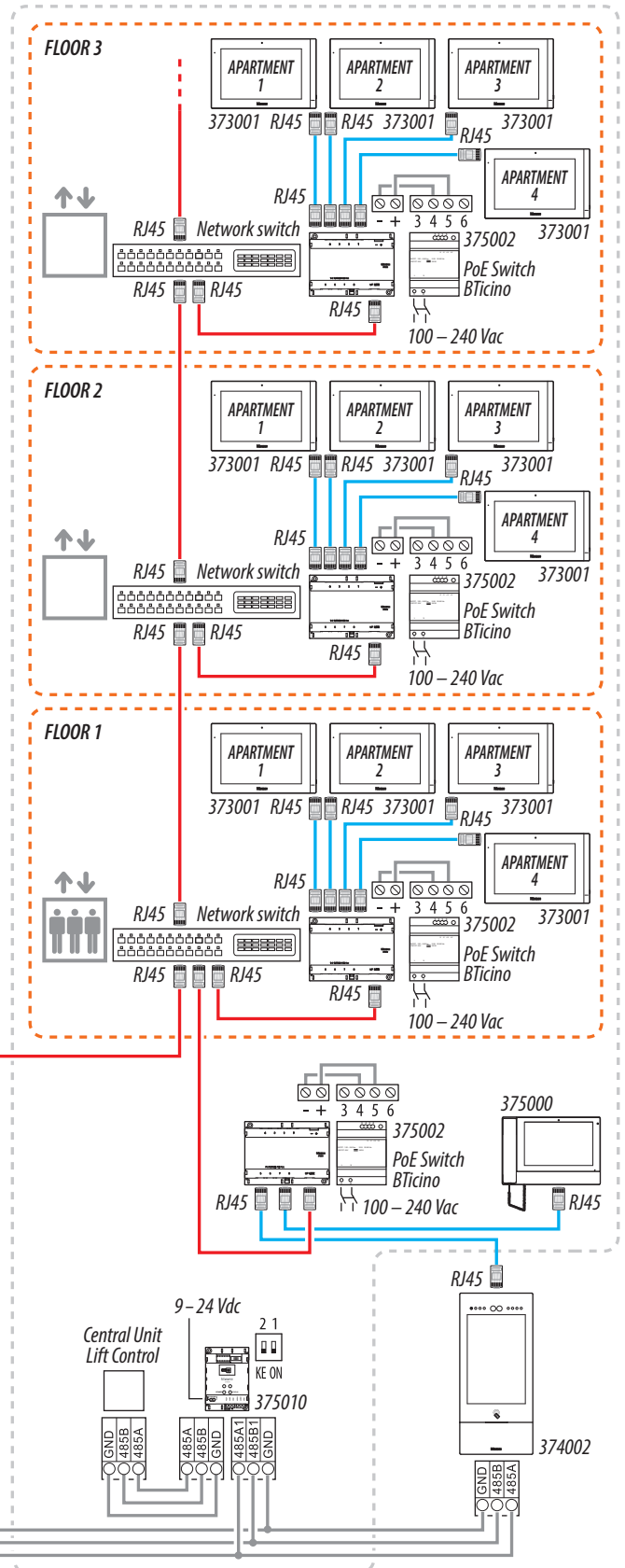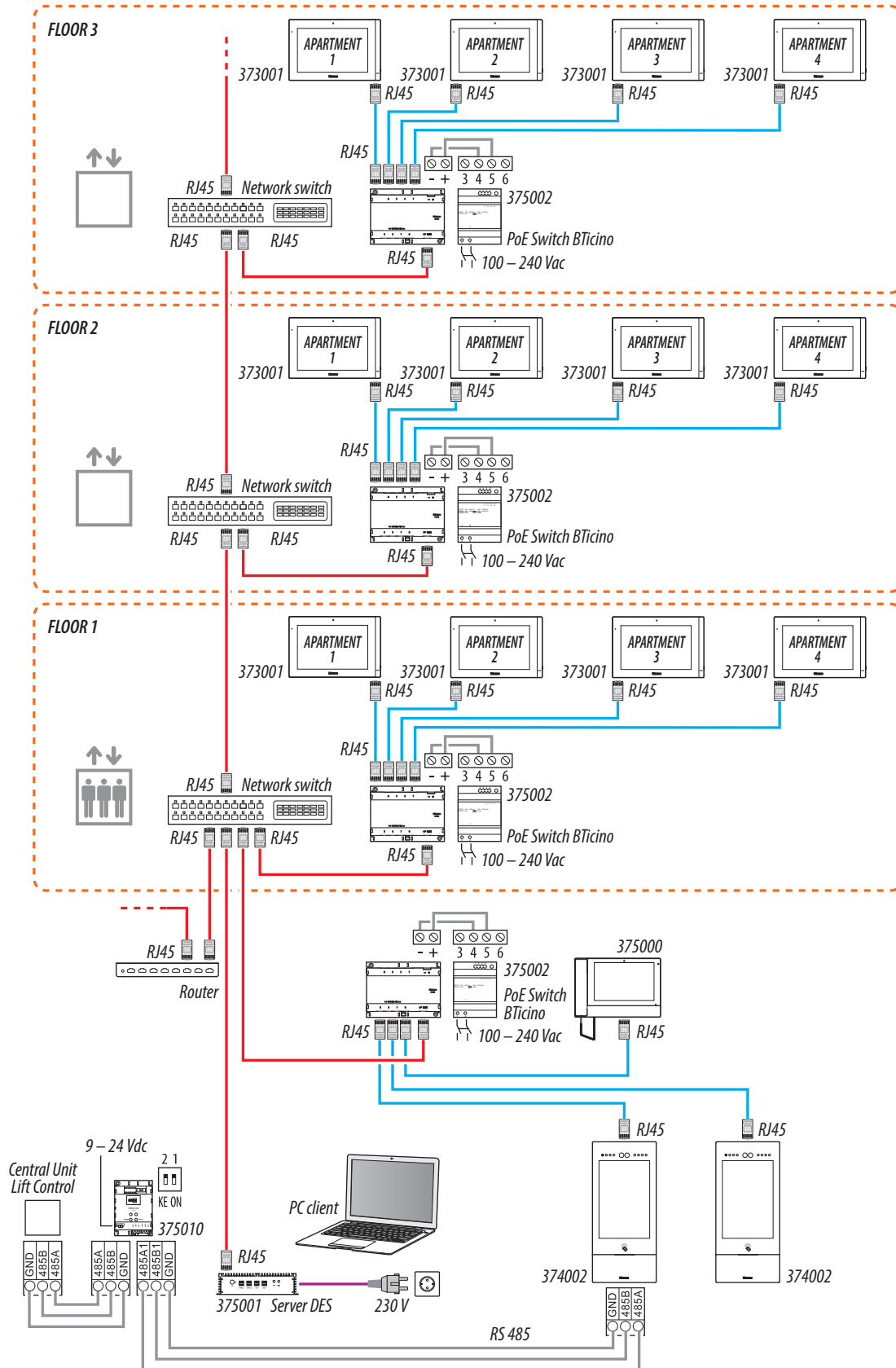
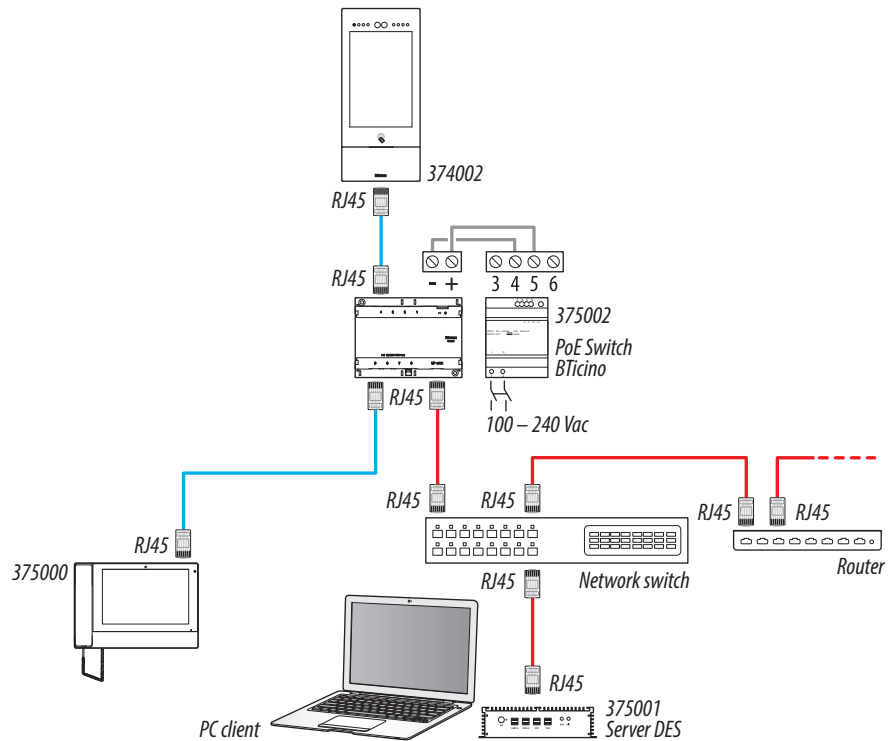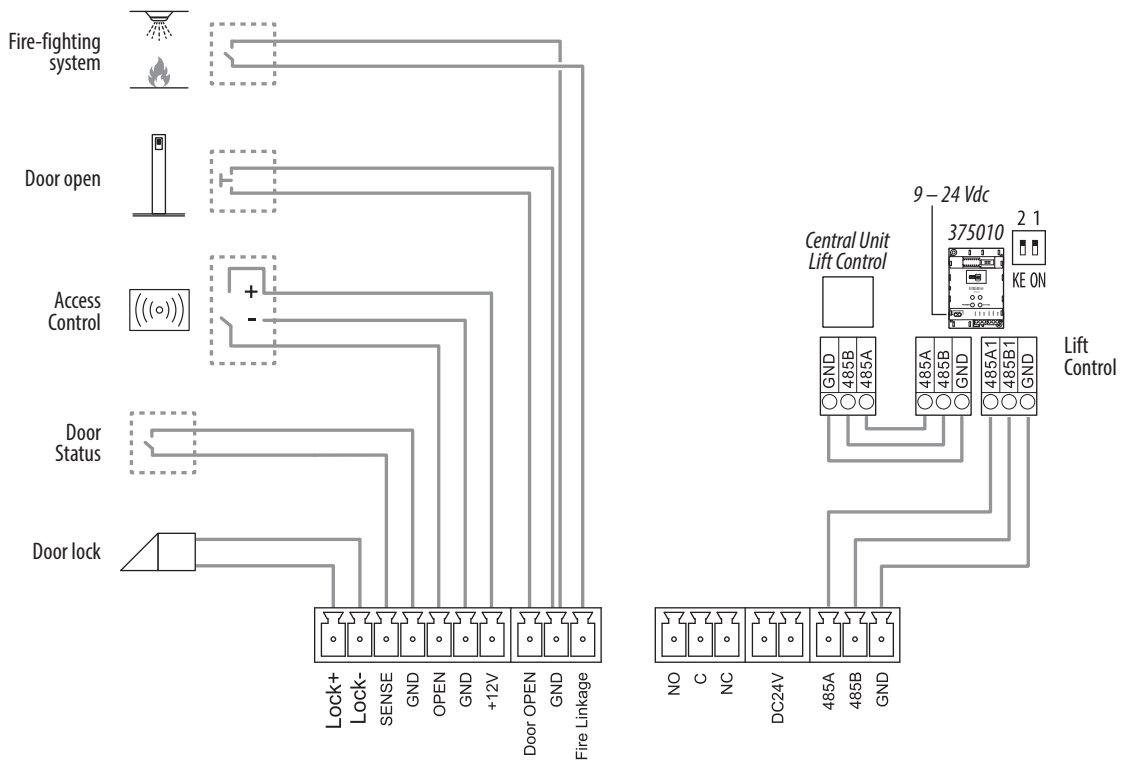**Lift control 3 - Lift control, 1 riser, multi entrance panel**

CABLES LEGEND	LAN PoE BTicino	LAN Ethernet	Copper cables	2 x Copper cables

FLOOR 3

APARTMENT 1 — 373001 — RJ45
APARTMENT 2 — 373001 — RJ45
APARTMENT 3 — 373001 — RJ45
APARTMENT 4 — 373001 — RJ45

RJ45

RJ45 — Network switch
RJ45 — RJ45
RJ45

− + 3 4 5 6 — 375002
PoE Switch BTicino
100 − 240 Vac

FLOOR 2

APARTMENT 1 — 373001 — RJ45
APARTMENT 2 — 373001 — RJ45
APARTMENT 3 — 373001 — RJ45
APARTMENT 4 — 373001 — RJ45

RJ45

RJ45 — Network switch
RJ45 — RJ45
RJ45

− + 3 4 5 6 — 375002
PoE Switch BTicino
100 − 240 Vac

FLOOR 1

APARTMENT 1 — 373001 — RJ45
APARTMENT 2 — 373001 — RJ45
APARTMENT 3 — 373001 — RJ45
APARTMENT 4 — 373001 — RJ45

RJ45

RJ45 — Network switch
RJ45 — RJ45
RJ45

− + 3 4 5 6 — 375002
PoE Switch BTicino
100 − 240 Vac

RJ45
Router

− + 3 4 5 6 — 375002
PoE Switch BTicino
100 − 240 Vac
RJ45

375000
RJ45

RJ45 — RJ45

Central Unit
Lift Control

9 − 24 Vdc
2 1
KE ON
375010

GND 485B 485A — 485A 485B GND — 485A1 485B1 GND

PC client

RJ45
375001 Server DES   230 V

RS 485

374002   374002

GND 485B 485A

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Available functions

CABLES LEGEND	LAN PoE BTicino ———	LAN Ethernet ———	Copper cables ———	2 x Copper cables ———

Fire-fighting system

Door open

Access Control

Door Status

Door lock

Lock+ · Lock- · SENSE · GND · OPEN · GND · +12V · Door OPEN · GND · Fire Linkage

NO · C · NC · DC24V · 485A · 485B · GND

Central Unit Lift Control

9 – 24 Vdc

375010

2 1 · KE ON

GND · 485B · 485A · 485A · 485B · GND · 485A1 · 485B1 · GND

Lift Control

374002

RJ45

RJ45

- + · 3 4 5 6

375002
PoE Switch BTicino

100 – 240 Vac

RJ45

RJ45 · RJ45

RJ45 · RJ45 · RJ45 · RJ45

RJ45

375000

Network switch

Router

RJ45

PC client

375001
Server DES

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Note: to connect the devices it is possible to use both types of wiring (diagram A or diagram B) or even mixed ones.

Main functions

From the Home Page of the device, it is possible to access the main functions, as described below:

Call a IU section
Call a GS section
Access using Code section
Settings
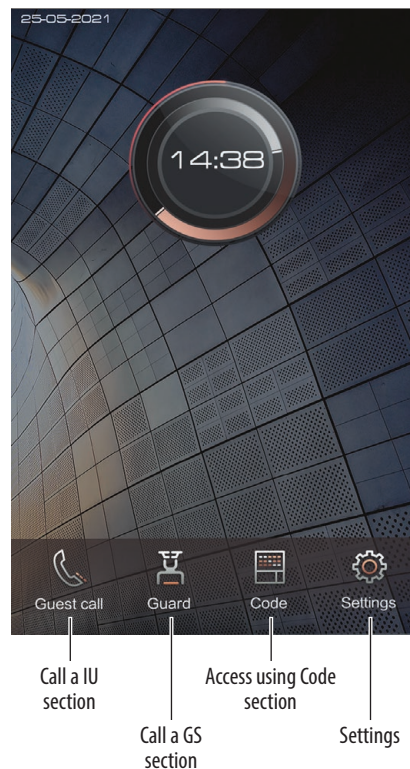
Call an IU Function

In this section it is possible to manage the calls to an IU.
Depending on how the community has been configured using the DES Server software, calls can be made in different ways:
- Call using the system address
- Call using the Alias (alphanumeric code)
- Call using the Phonebook
When the IU does not answer a message can be recorded.

Call a GS Function

This function allows to call the reference guard station.

Access Function

It is possible to access the building in different ways:
- by entering a code, using the Access using Code function on the Home Page
- using a configured badge or card.

Answering machine Function

Using this function, it is possible to leave a photo with own audio message if the IU does not answer after 30 seconds. This function must be active.

Messages and advertising Function

This function displays advertising messages or images sent to entrance panels through the DES Server Software.