BTICINO

www.bticino.com

IP DES - Video entrance panel with 10" touch display with face recognition and finger print

374000

Description

Video entrance panel with 10" touch display, double face recognition camera, fingerprint reader 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) ℃
Working temperature finger print:	(- 10) – (+ 55) ℃ (± 2)
IP degree of protection:	54
IK degree of protection:	07
Camera resolution:	1080 p
Camera viewing field angle:	H= 80°; V= 53°
Face recognition distance during daytime:	30 – 80 cm
Face Recognition Distance at Night:	30 – 50 cm
Badge reader Frequency:	13.56 MHz
Badge reader transmission power:	< 42 dBuA/m @ 10m

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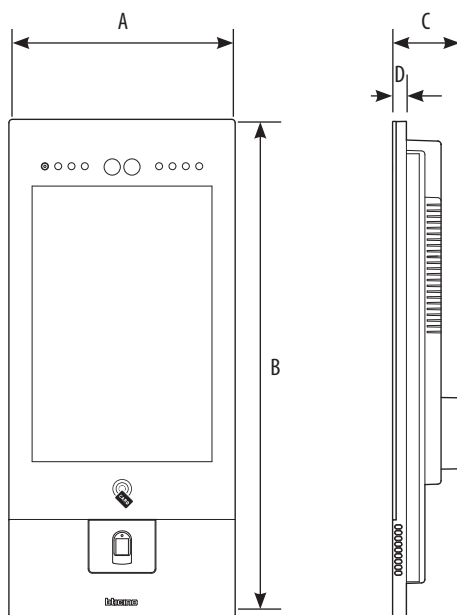
| A	B	C	D
195 mm	430 mm	58 mm	12 mm

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. Finger print reader
10. Locking screws

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Rear view
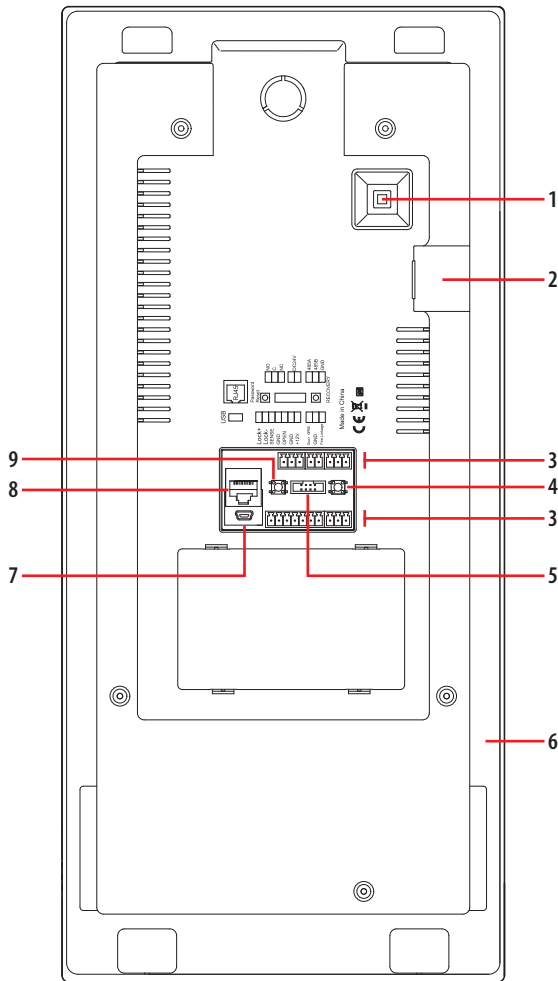
Legend

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. The wrong wiring of the Ethernet cable connecting the device to the Poe Switch 375002 could damage the device itself. The RJ45 cable must be at least 200 mm long.
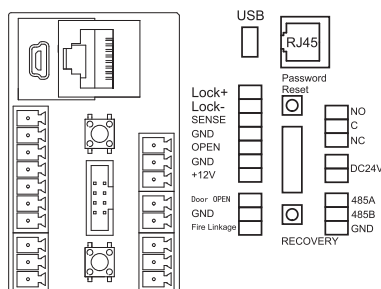
Connection clamps

LOCK+	electric door lock connection and control
LOCK-	(12V - 4A impulsive on 30 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	access control devices power supply
Door OPEN – GND	local door lock release pushbutton connection
FIRE Linkage – GND	local door lock release pushbutton connection for firealarm system
NO	interlocked contact
C	interlocked contact
NC	interlocked contact
DC24V	additional power supply clamps (not polarized)
RS485A	Lift Control — terminal A
RS485B	Lift Control — terminal B
GND	Lift Control — 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 IP DES System 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	Community customisation
Step	06	Saving of passwords
Step	07	Registration of the Community on the installer's Cloud
Step	08	Forwarding of the address book to the DES Server
Step	09	Installation of the devices
Step	10	Activation of the devices
Step	11	System test

For further information, please refer to the IP DES System Software Manual and Small video entrance panel manual, available for download from www.homesystems-legrandgroup.com website

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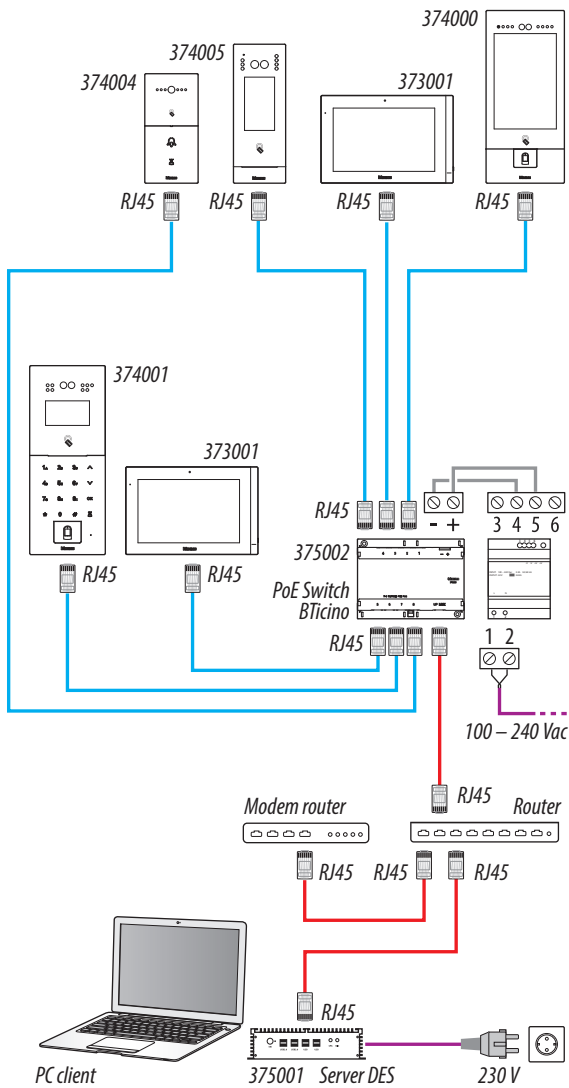
B - Diagram with local power supply
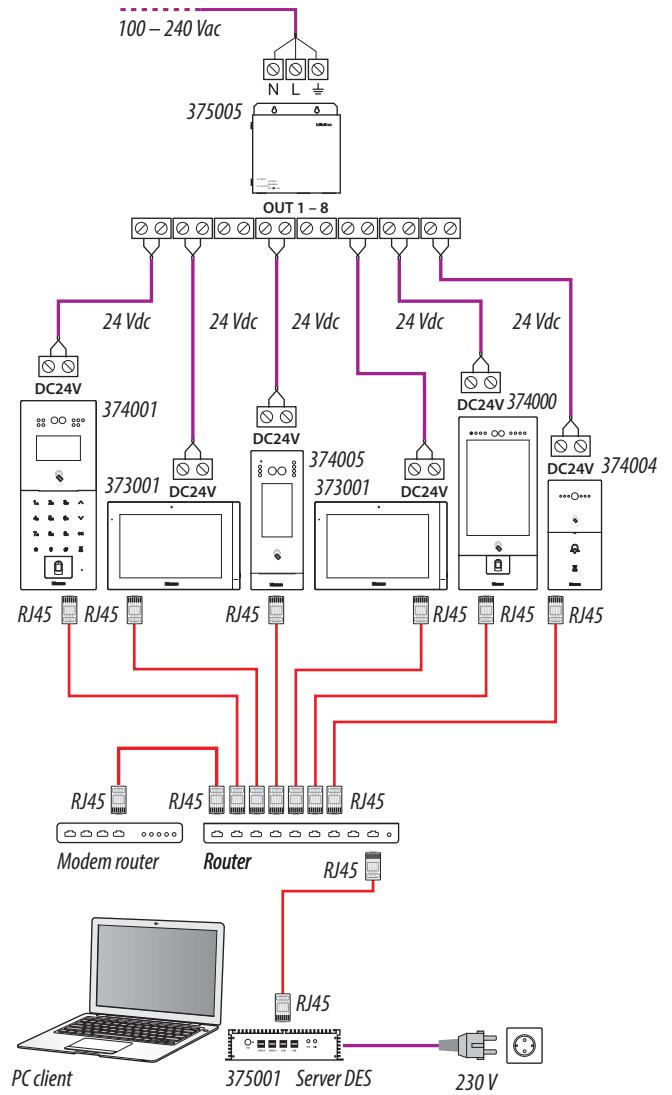
Attention: This device does not support standard POE power supplies, but only POE power supplies identified with 375002. Connect the cat5/5e/6 FTP or cat5/5e/6 UTP cable with ferrite supplied to the connector.

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

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

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Ethernet connection

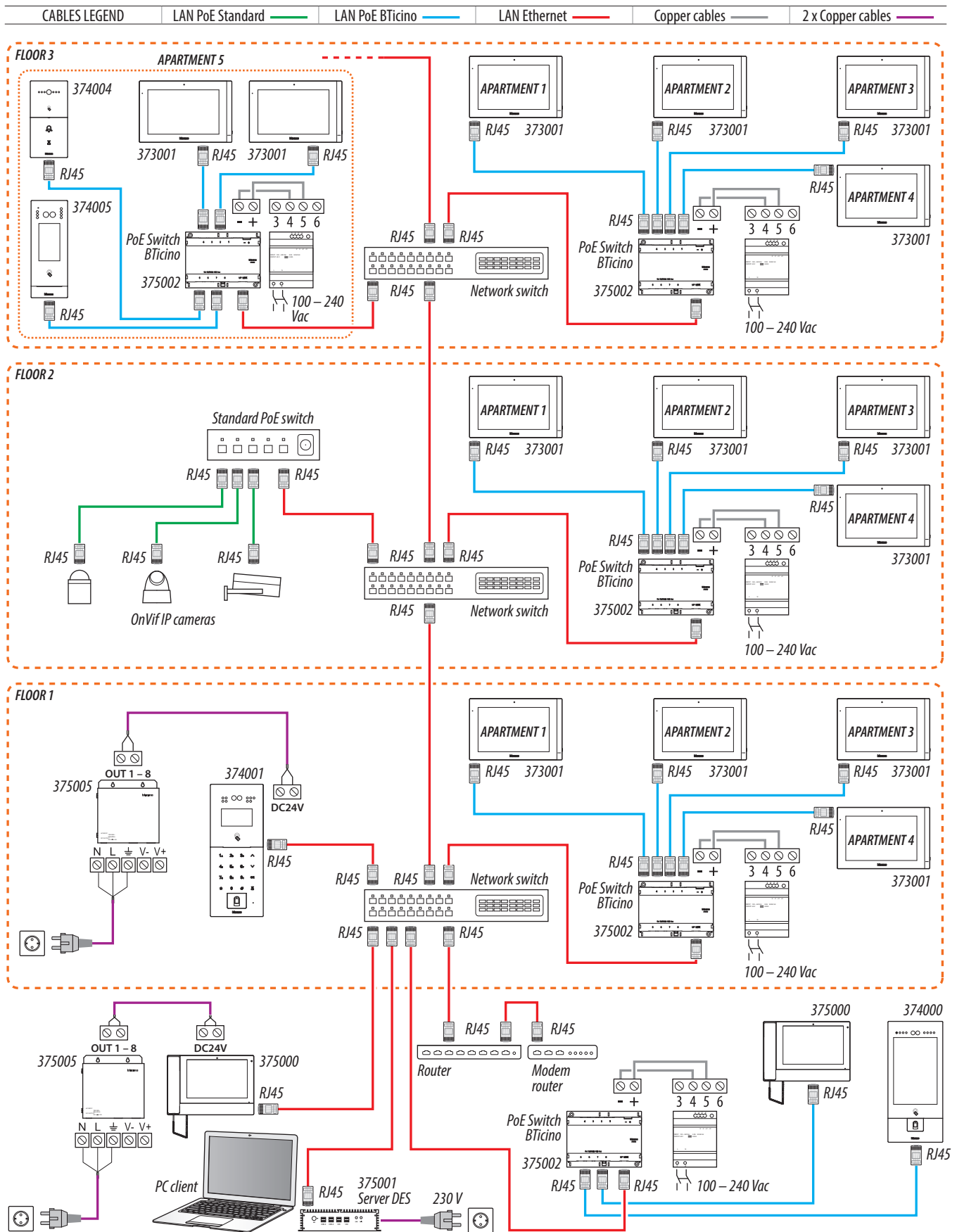| CABLES LEGEND	LAN PoE Standard	LAN PoE BTicino	LAN Ethernet	Copper cables	2 x Copper cables

FLOOR 3 APARTMENT 5

374004

373001 RJ45 373001 RJ45

RJ45

374005

PoE Switch BTicino

375002

RJ45

- + 3 4 5 6

100 – 240 Vac

RJ45 RJ45

RJ45 RJ45 Network switch

APARTMENT 1 RJ45 373001
APARTMENT 2 RJ45 373001
APARTMENT 3 RJ45 373001

RJ45 APARTMENT 4 373001

RJ45 - + 3 4 5 6

PoE Switch BTicino 375002

100 – 240 Vac

FLOOR 2

Standard PoE switch

RJ45 RJ45

RJ45 RJ45 RJ45

OnVif IP cameras

RJ45 RJ45 Network switch

RJ45

APARTMENT 1 RJ45 373001
APARTMENT 2 RJ45 373001
APARTMENT 3 RJ45 373001

RJ45 APARTMENT 4 373001

RJ45 - + 3 4 5 6

PoE Switch BTicino 375002

100 – 240 Vac

FLOOR 1

OUT 1 – 8

375005

N L V- V+

374001

DC24V

RJ45

RJ45 RJ45 RJ45 Network switch

RJ45 RJ45 RJ45

APARTMENT 1 RJ45 373001
APARTMENT 2 RJ45 373001
APARTMENT 3 RJ45 373001

RJ45 APARTMENT 4 373001

RJ45 - + 3 4 5 6

PoE Switch BTicino 375002

100 – 240 Vac

OUT 1 – 8 DC24V

375005 375000

N L V- V+

PC client

RJ45

375001 Server DES 230 V

RJ45 Router RJ45

Modem router

375000 374000

RJ45

- + 3 4 5 6

PoE Switch BTicino

375002 RJ45 100 – 240 Vac

RJ45

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Fiber optic riser connection (case of higher bandwidth demand)

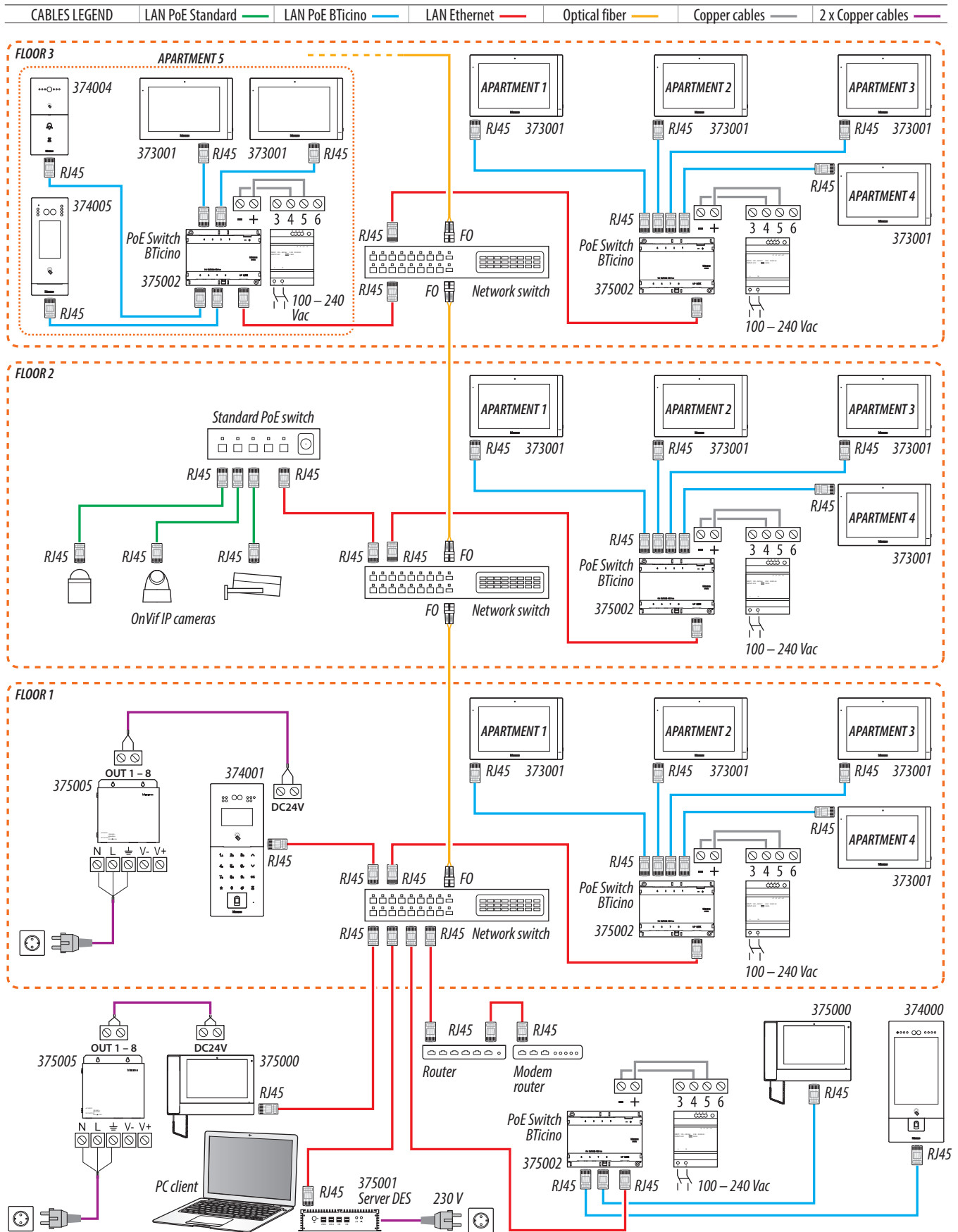| CABLES LEGEND	LAN PoE Standard ▬▬	LAN PoE BTicino ▬▬	LAN Ethernet ▬▬	Optical fiber ▬▬	Copper cables ▬▬	2 x Copper cables ▬▬

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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

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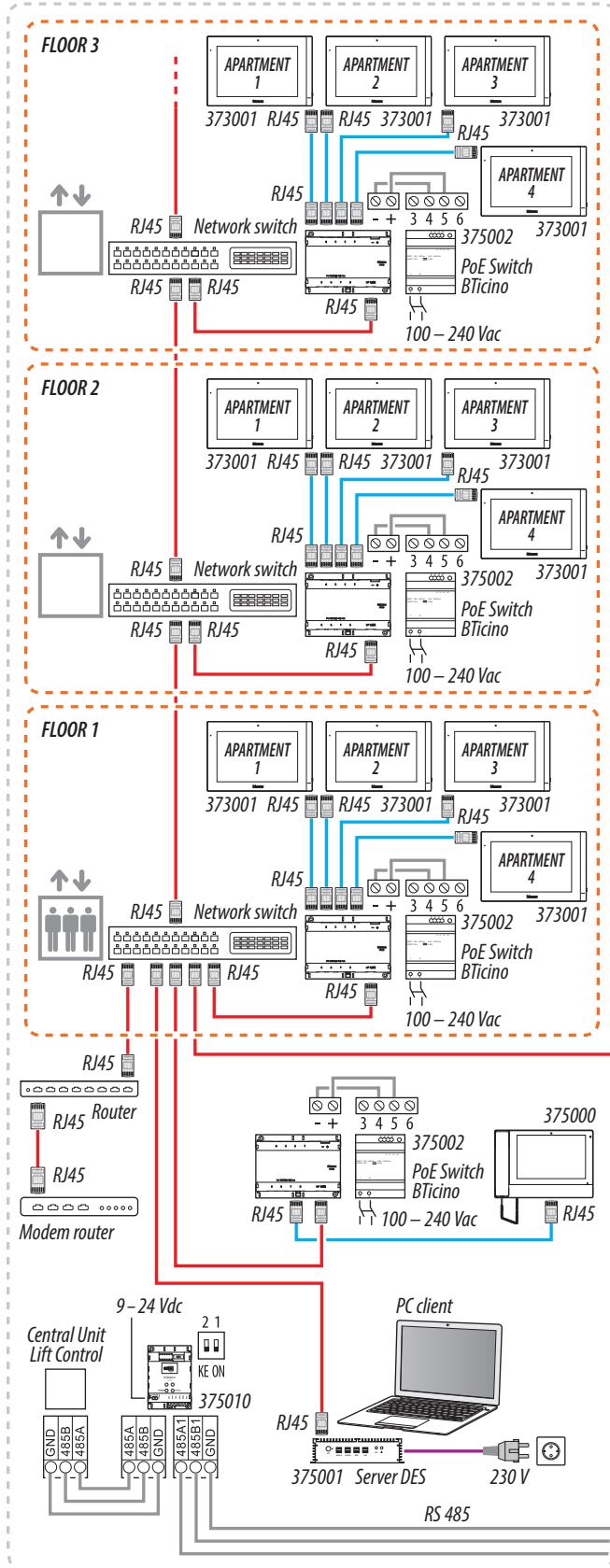
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Lift control 2 - Lift control, multi riser, 1 entrance panel

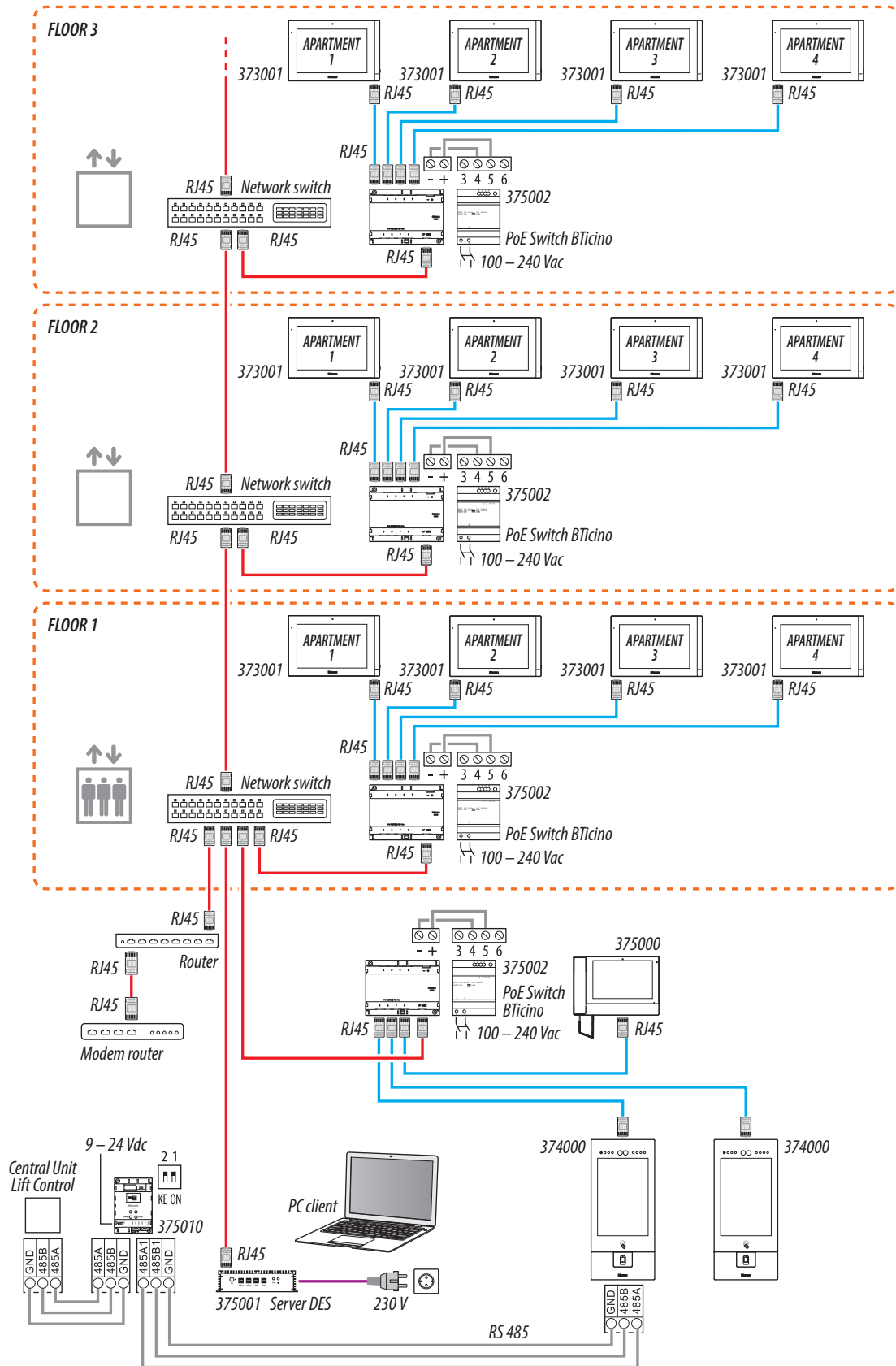| CABLES LEGEND	LAN PoE BTicino ▬▬▬	LAN Ethernet ▬▬▬	Copper cables ▬▬▬	2 x Copper cables ▬▬▬

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

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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
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
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
375002
PoE Switch BTicino
100 – 240 Vac

RJ45 — Router
RJ45
RJ45 — Modem router

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

RJ45

374000
374000

Central Unit Lift Control
9 – 24 Vdc
2 1
KE ON
375010
PC client
RJ45
375001 Server DES
230 V

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

RS 485

GND 485B 485A

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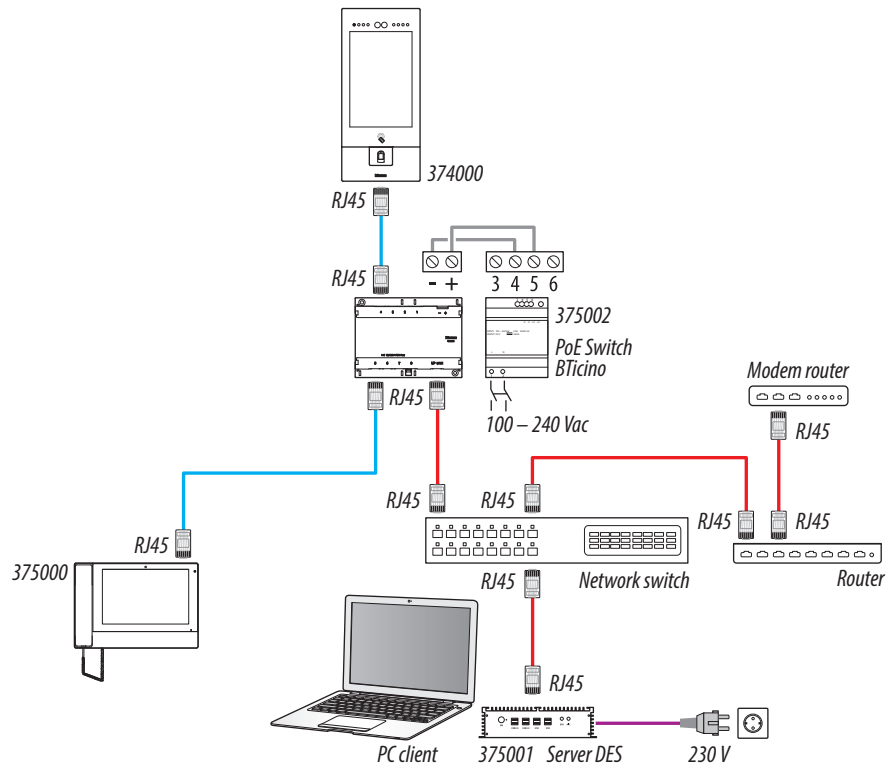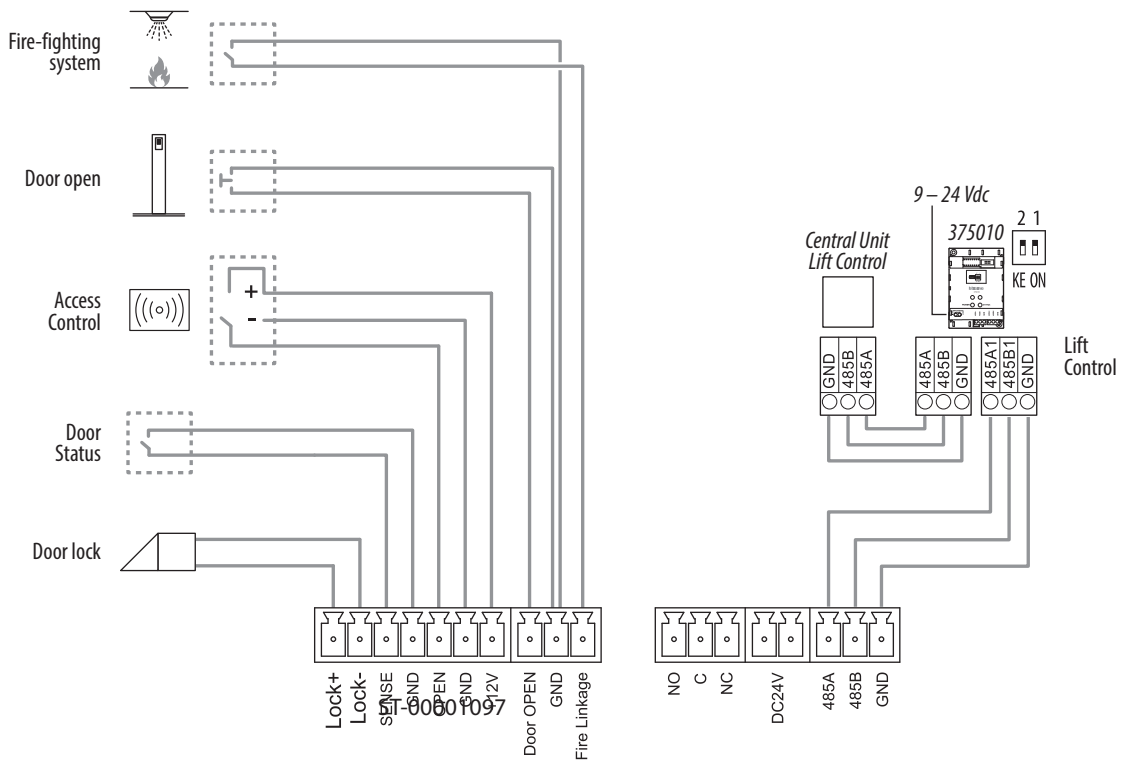
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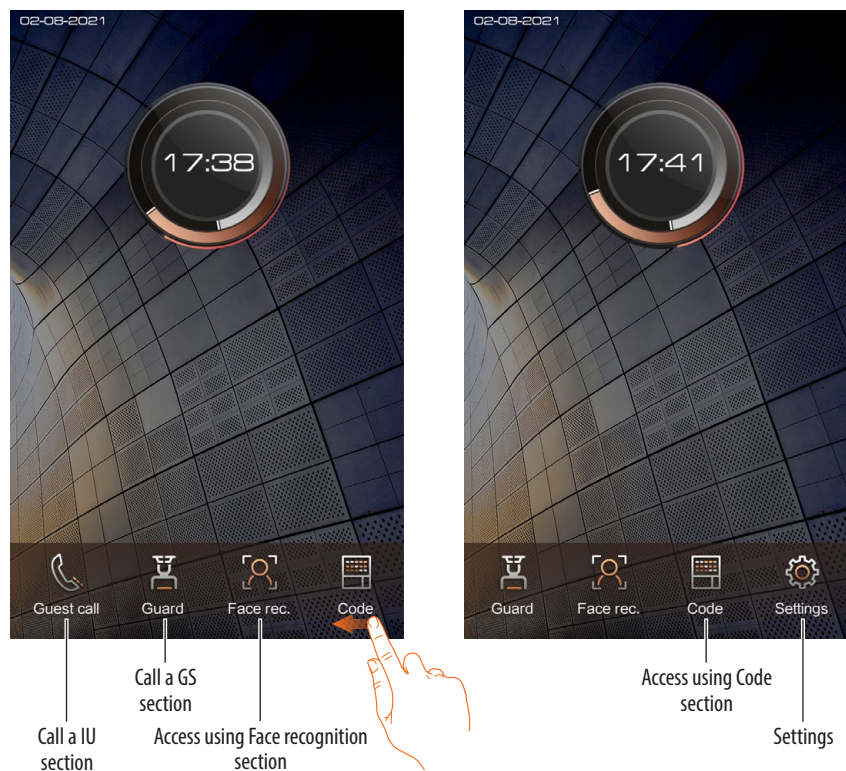# with face recognition and finger print

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
ST-00001097

Door OPEN
GND
Fire Linkage

9 – 24 Vdc

Central Unit Lift Control

375010

2 1

KE ON

GND 485B 485A

485A 485B GND

485A1 485B1 GND

Lift Control

NO C NC

DC24V

485A 485B GND

374000

RJ45

RJ45

- +

3 4 5 6

375002
PoE Switch BTicino

100 – 240 Vac

RJ45

RJ45

Modem router

RJ45

RJ45

375000

RJ45

RJ45   *RJ45*

RJ45

RJ45   *RJ45*

RJ45   *Network switch*

Router

PC client   *375001*   *Server DES*   *230 V*

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| Main functions |

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

Call a IU section
Call a GS section
Access using Face recognition 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
- through face recognition
- through fingerprint recognition (Fingerprint function).

| Access using Face recognition Function |

Using this function, the EP cameras will recognise the face and it will be possible to enter the building automatically without entering a code. It is possible to enable the automatic activation of face recognition, to ensure touch-less access. To use this function, the face must be saved in the system via Server DES software.

| 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.