BTICINO
www.bticino.com

IP DES - Lift control interface

375013

Descrizione

Lift control interface with 8 relay to integrate the IP DES with the building elevator system in order to control the lift.

Operates with 2 modes:

- With acces control integration: when resident release the lock give the consensus to visitor to reach the called floor.
- Direct call to ground floor: when resident release the lock automatically call the lift to ground floor.

The configuration is made directly in IP DES configuration tool included in Server DES 375001.

NOTE: INSTALLATION AND CONNECTIONS MUST BE ALWAYS PERFORMED ACCORDINGLY TO THE ELEVATOR MANUFACTURER SPECIFICATION.

Front view
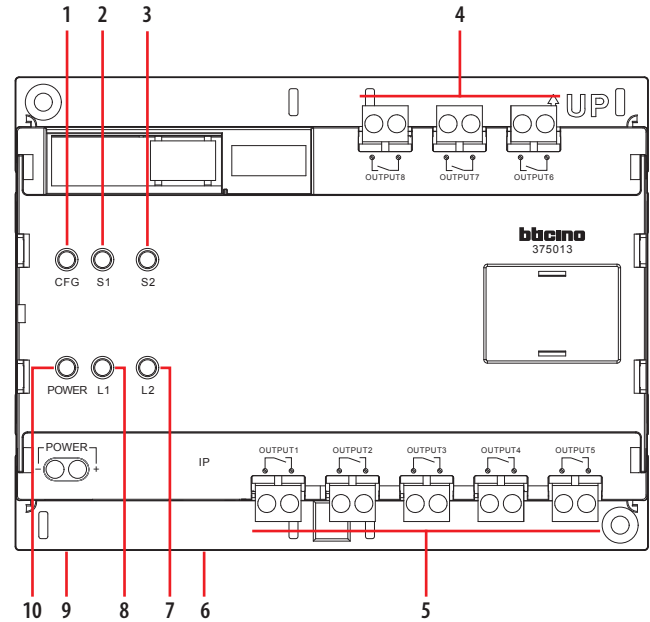
Technical data

Voltage:	24 Vdc
Maximum consumption:	60 mA
Contact output - OUTPUT 1 – 8:	24 Vdc 3A
Maximum cable section for clamps:	0,5 mm^2
Operating temperature:	(- 10) – (+ 55) °C
IP protection index:	IP20
Maximum relative humidity:	90 %

Legend

1. LED CFG: Configuration LED
   Flashing 3sec ON/3sec OFF = device not configured
   Flashing 1sec ON/1sec OFF = device being configured or updated
   ON steady: device configured
   Flashing 0.2sec ON/0.2 sec OFF = device identification from software in progress

2. S1 pushbutton:
   - Reset to the factory settings (pressed for 10")
   - Retry function (short pressure)

3. S2 pushbutton: pushbutton for the identification of the device on the DES Software. During the SW configuration process, once pressed it is identified in the SW itself

4. Relay OUTPUT 6 – 8

5. Relay OUTPUT 1 – 5

6. RJ45 connector

7. LED L2: NOT USED

8. LED L1:
   On = at least 1 relay switched to closed
   Off = no relay switched to closed

9. Auxiliary power supply input connector (24Vdc)

LED POWER:
   On = powered
   Off = not powered

This device does not support standard POE power supplies, but only POE power supplies identified with 375002.

Dimensional data
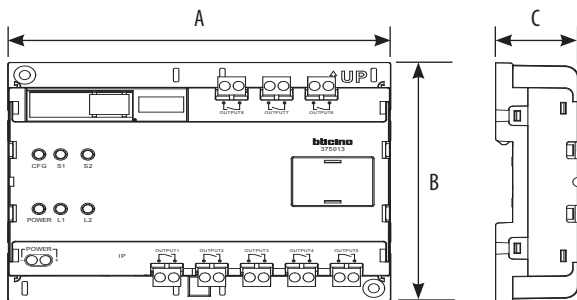
A	B	C
141 mm	105 mm	33 mm

Configuration

For device configuration and installation and for any other information, refer to the documentation that can be downloaded from the website:
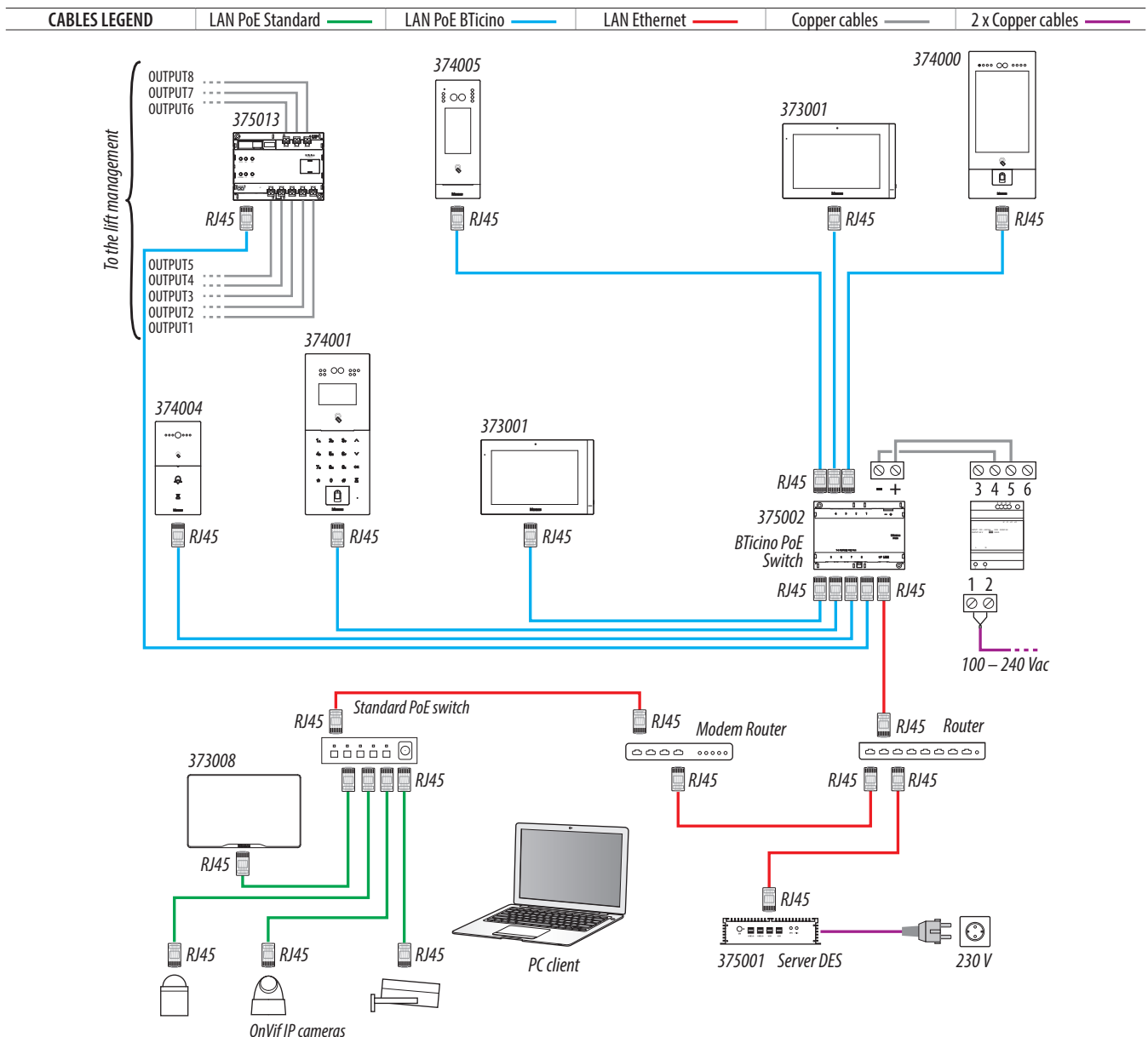
www.homesystems-legrandgroup.com

Wiring diagrams

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

A - Diagram with power supply by BTicino PoE Switch

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

OUTPUT8
OUTPUT7
OUTPUT6
375013
To the lift management
RJ45
OUTPUT5
OUTPUT4
OUTPUT3
OUTPUT2
OUTPUT1

374005
RJ45

374000
373001
RJ45
RJ45

374004
RJ45

374001
RJ45

373001
RJ45

RJ45
375002
BTicino PoE
Switch
RJ45   RJ45

− +   3 4 5 6

1 2
100 − 240 Vac

RJ45   Standard PoE switch   RJ45   Modem Router
373008
RJ45

RJ45   Router
RJ45   RJ45

RJ45   RJ45   RJ45
PC client

RJ45
375001   Server DES   230 V

OnVif IP cameras

Attention:
- Connect the devices only to the PoE 375002 switches. No other PoE switches are permitted.
- Only item 373008 can be connected to an IEEE 802.3at standard PoE switch (POE+)
- Item 375001 must be connected to the LAN network, not to PoE switches
- Connect the UP LINK port of the 375002 to a suitable network port, never to a PoE port.
- Use a cat5/5e/6 FTP or cat5/5e/6 UTP cable. If using a UTP cable, use the supplied ferrite.
- Safety must be guaranteed by an access control system or by the lift itself.

Note:
- To connect the devices it is possible to use both types of wiring (diagram A or diagram B) or even mixed ones.
- Maximum length of every LAN permanent link line = 90 m.

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B - Diagram with local power supply

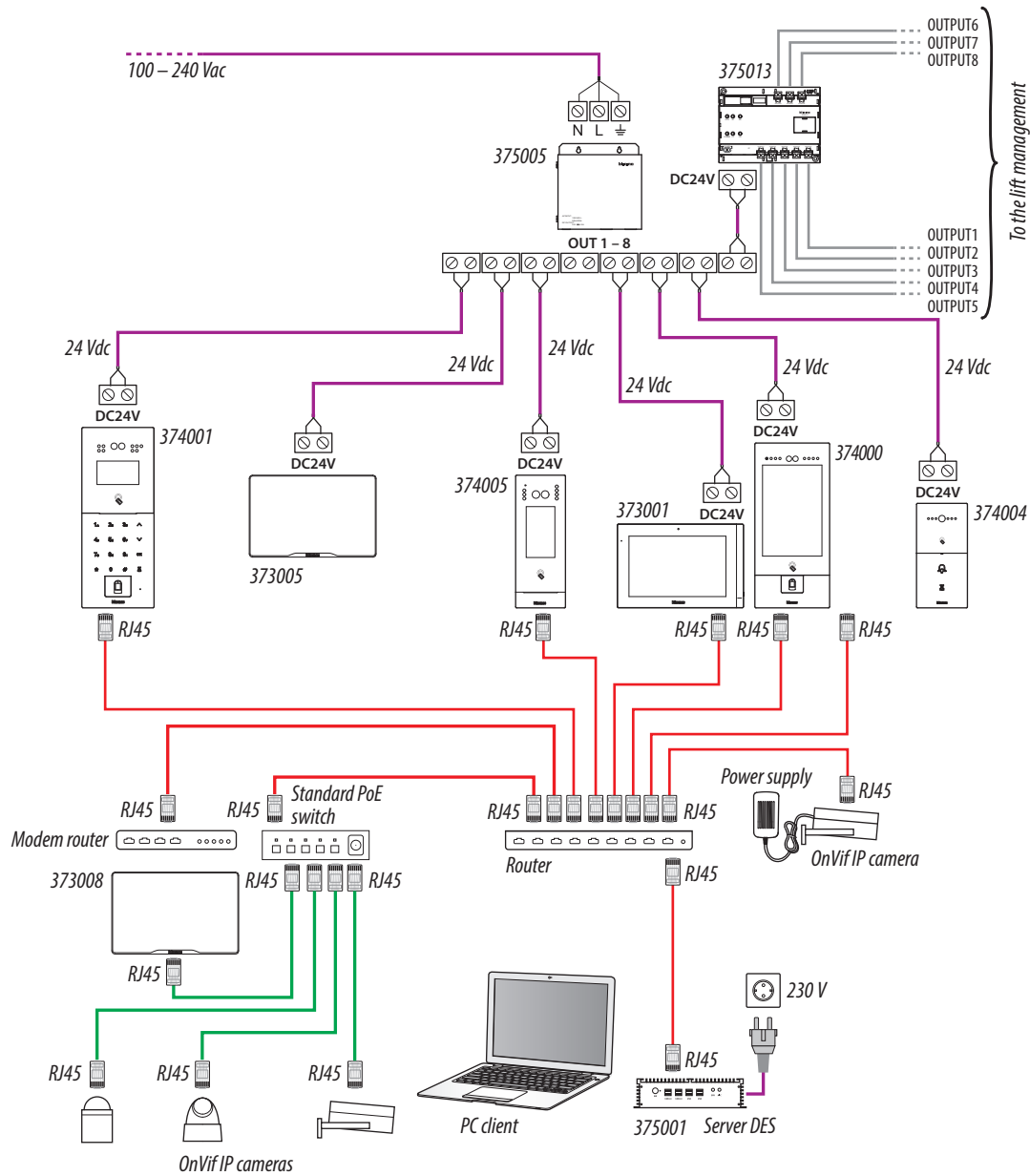| CABLES LEGEND	LAN PoE Standard ────	LAN PoE BTicino ────	LAN Ethernet ────	Copper cables ────	2 x Copper cables ────

Attention:
- Connect the devices only to the PoE 375002 switches. No other PoE switches are permitted.
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- Item 375001 must be connected to the LAN network, not to PoE switches
- Connect the UP LINK port of the 375002 to a suitable network port, never to a PoE port.
- Use a cat5/5e/6 FTP or cat5/5e/6 UTP cable. If using a UTP cable, use the supplied ferrite.
- Safety must be guaranteed by an access control system or by the lift itself.

Note:
- To connect the devices it is possible to use both types of wiring (diagram A or diagram B) or even mixed ones.
- Maximum length of every LAN permanent link line = 90 m.

Attention: Check the following Attention notes and Installation notes for all wiring diagrams shown below.

Attention:
- Connect the devices only to the PoE 375002 switches. No other PoE switches are permitted.
- Only item 373008 can be connected to an IEEE 802.3at standard PoE switch (POE+)
- Item 375001 must be connected to the LAN network, not to PoE switches
- Connect the UP LINK port of the 375002 to a suitable network port, never to a PoE port.
- Use a cat5/5e/6 FTP or cat5/5e/6 UTP cable. If using a UTP cable, use the supplied ferrite.
- Safety must be guaranteed by an access control system or by the lift itself.

Note:
- To connect the devices it is possible to use both types of wiring (diagram A or diagram B) or even mixed ones.
- Maximum length of every LAN permanent link line = 90 m.

Lift control 1 - Lift control with lift control interface with relay 375013, 1 riser, 1 entrance panel
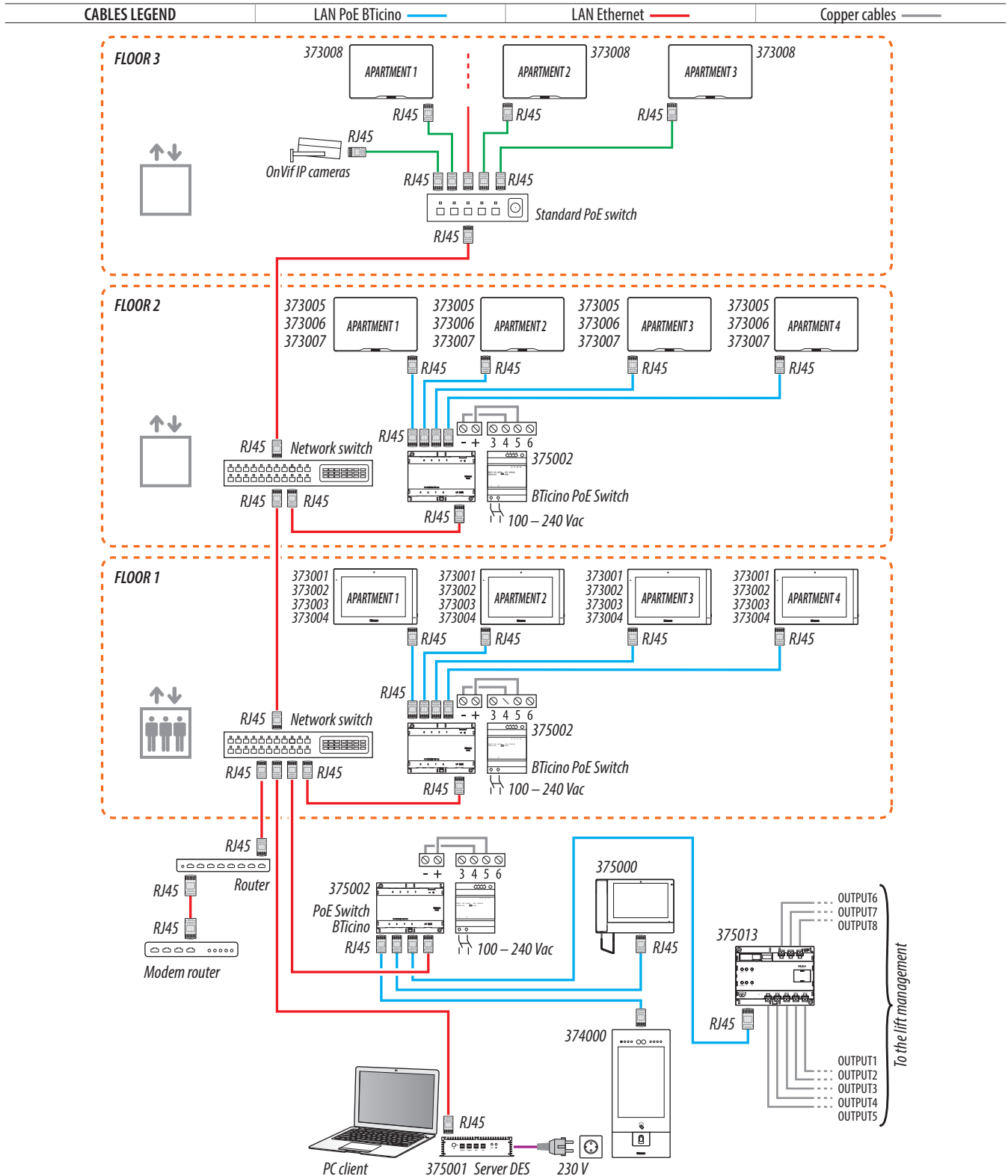
Lift control 2 - Lift control with lift control interface with relay 375013, more risers, 1 entrance panel

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

RISER 1

FLOOR 3

OnVif IP cameras

373008 — APARTMENT 1 — RJ45
373008 — APARTMENT 2 — RJ45
373008 — APARTMENT 3 — RJ45

RJ45 — RJ45 — RJ45

Standard PoE switch — RJ45

FLOOR 2

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

RJ45 — APARTMENT 4
RJ45 — - + 3 4 5 6 — 375002 — 373001/2/3/4
RJ45 — Network switch — BTicino PoE Switch
RJ45 — RJ45 — RJ45 — 100 – 240 Vac

FLOOR 1

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

RJ45 — APARTMENT 4
RJ45 — - + 3 4 5 6 — 375002 — 373001/2/3/4
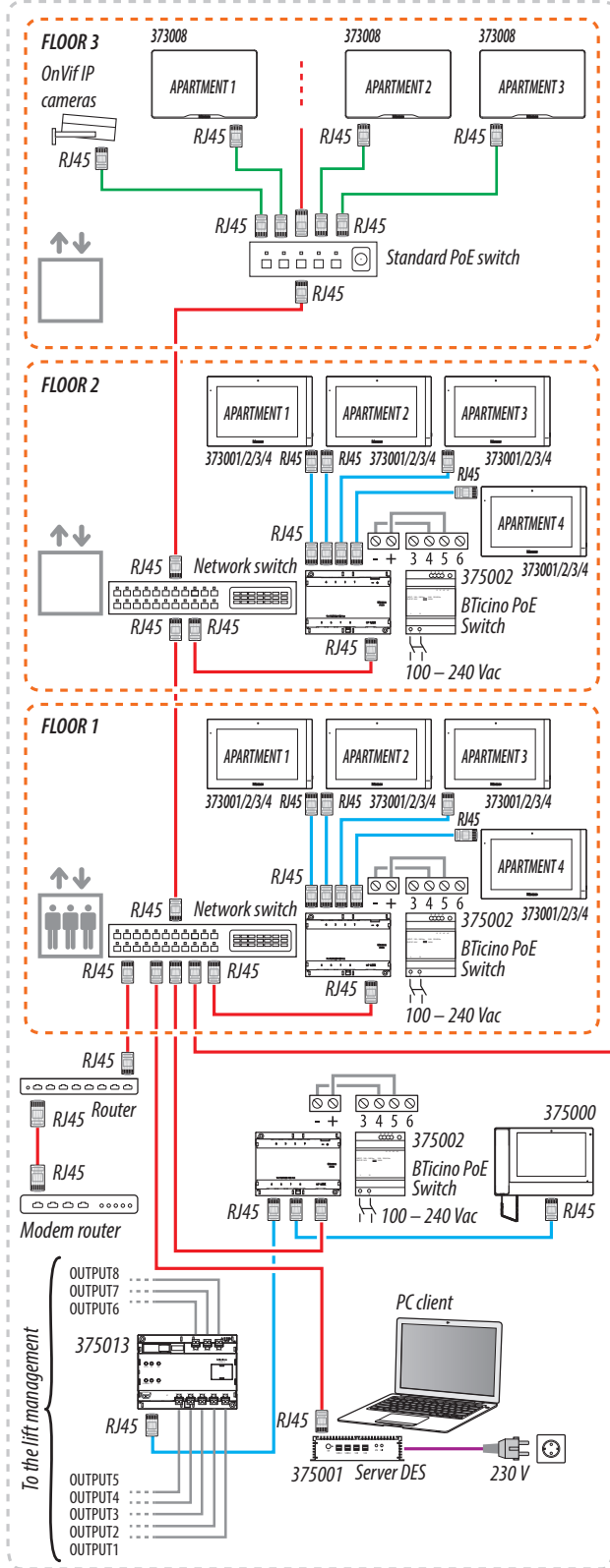RJ45 — Network switch — BTicino PoE Switch
RJ45 — RJ45 — RJ45 — 100 – 240 Vac

RJ45
RJ45 — Router
RJ45
Modem router

To the lift management
OUTPUT8
OUTPUT7
OUTPUT6
375013
RJ45
OUTPUT5
OUTPUT4
OUTPUT3
OUTPUT2
OUTPUT1

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

PC client
RJ45 — 375001 — Server DES — 230 V

RISER 2

FLOOR 3

APARTMENT 1 — APARTMENT 2 — APARTMENT 3
373005/6/7 — RJ45 — RJ45 — 373005/6/7 — 373005/6/7

RJ45 — APARTMENT 4
RJ45 — Network switch — - + 3 4 5 6 — 375002 — 373005/6/7
RJ45 — RJ45 — BTicino PoE Switch
RJ45 — 100 – 240 Vac

FLOOR 2

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

RJ45 — APARTMENT 4
RJ45 — - + 3 4 5 6 — 375002 — 373001/2/3/4
RJ45 — Network switch — BTicino PoE Switch
RJ45 — RJ45 — RJ45 — 100 – 240 Vac

FLOOR 1

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

RJ45 — APARTMENT 4
RJ45 — - + 3 4 5 6 — 375002 — 373001/2/3/4
RJ45 — Network switch — BTicino PoE Switch
RJ45 — RJ45 — RJ45 — 100 – 240 Vac

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

RJ45

To the lift management
OUTPUT8
OUTPUT7
OUTPUT6
375013
RJ45
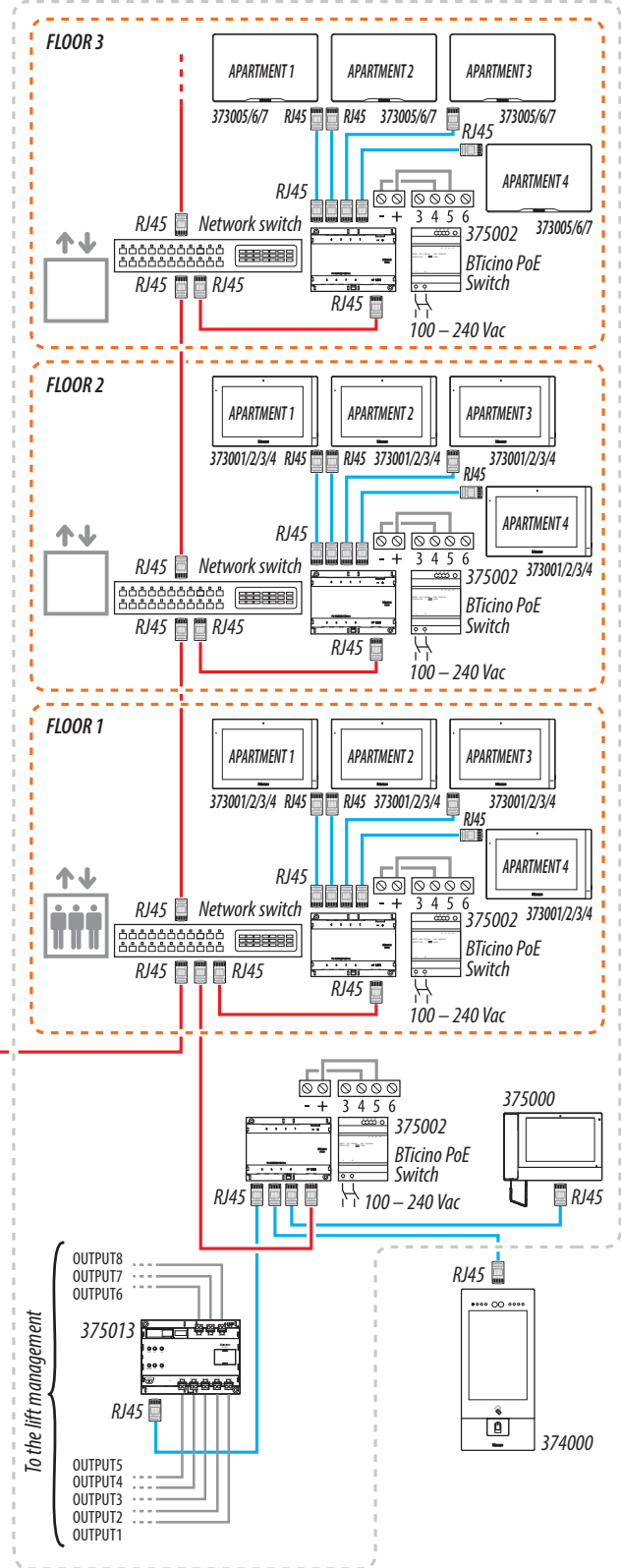OUTPUT5
OUTPUT4
OUTPUT3
OUTPUT2
OUTPUT1

374000

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Lift control 3 - Lift control with lift control interface with relay 375013, 1 riser, more entrance panels

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

FLOOR 3

APARTMENT 1 · 373008 · RJ45 · RJ45 · APARTMENT 2 · 373008 · APARTMENT 3 · 373008

OnVif IP cameras · RJ45

RJ45 · RJ45 · Standard PoE switch

RJ45

FLOOR 2

373005 373006 373007 · APARTMENT 1 · 373005 373006 373007 · APARTMENT 2 · 373005 373006 373007 · APARTMENT 3 · 373005 373006 373007 · APARTMENT 4

RJ45 · RJ45 · RJ45 · RJ45

RJ45 · − + 3 4 5 6 · 375002

RJ45 · Network switch

RJ45 · RJ45 · RJ45 · BTicino PoE Switch · 100 – 240 Vac

FLOOR 1

373001 373002 373003 373004 · APARTMENT 1 · 373001 373002 373003 373004 · APARTMENT 2 · 373001 373002 373003 373004 · APARTMENT 3 · 373001 373002 373003 373004 · APARTMENT 4

RJ45 · RJ45 · RJ45 · RJ45

RJ45 · − + 3 4 5 6 · 375002

RJ45 · Network switch

RJ45 · RJ45 · RJ45 · BTicino PoE Switch · 100 – 240 Vac

RJ45 · Router

RJ45 · Modem router

− + 3 4 5 6 · 375000

375002 · BTicino PoE Switch · 100 – 240 Vac · RJ45

To the lift management

OUTPUT8
OUTPUT7
OUTPUT6

375013

RJ45

PC client

OUTPUT5
OUTPUT4
OUTPUT3
OUTPUT2
OUTPUT1

RJ45

375001 · Server DES · 230 V

374000 · 374000