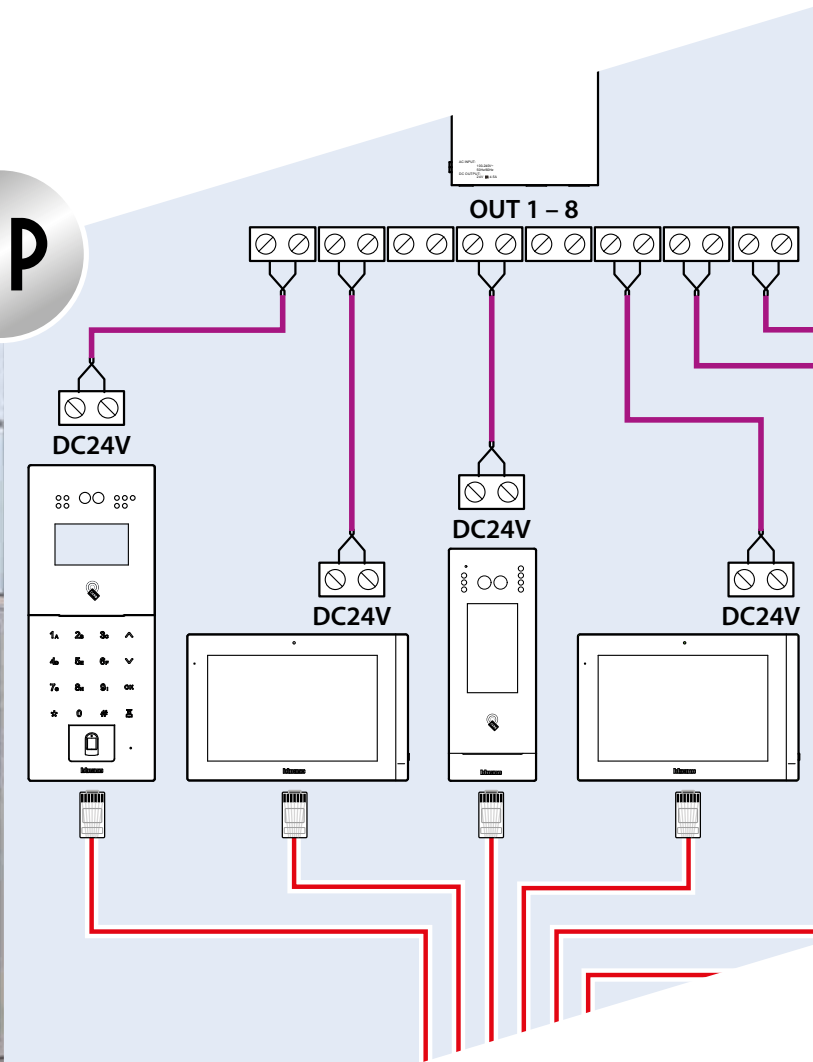
A Group brand | legrand

DES IP SYSTEM
Wiring diagrams



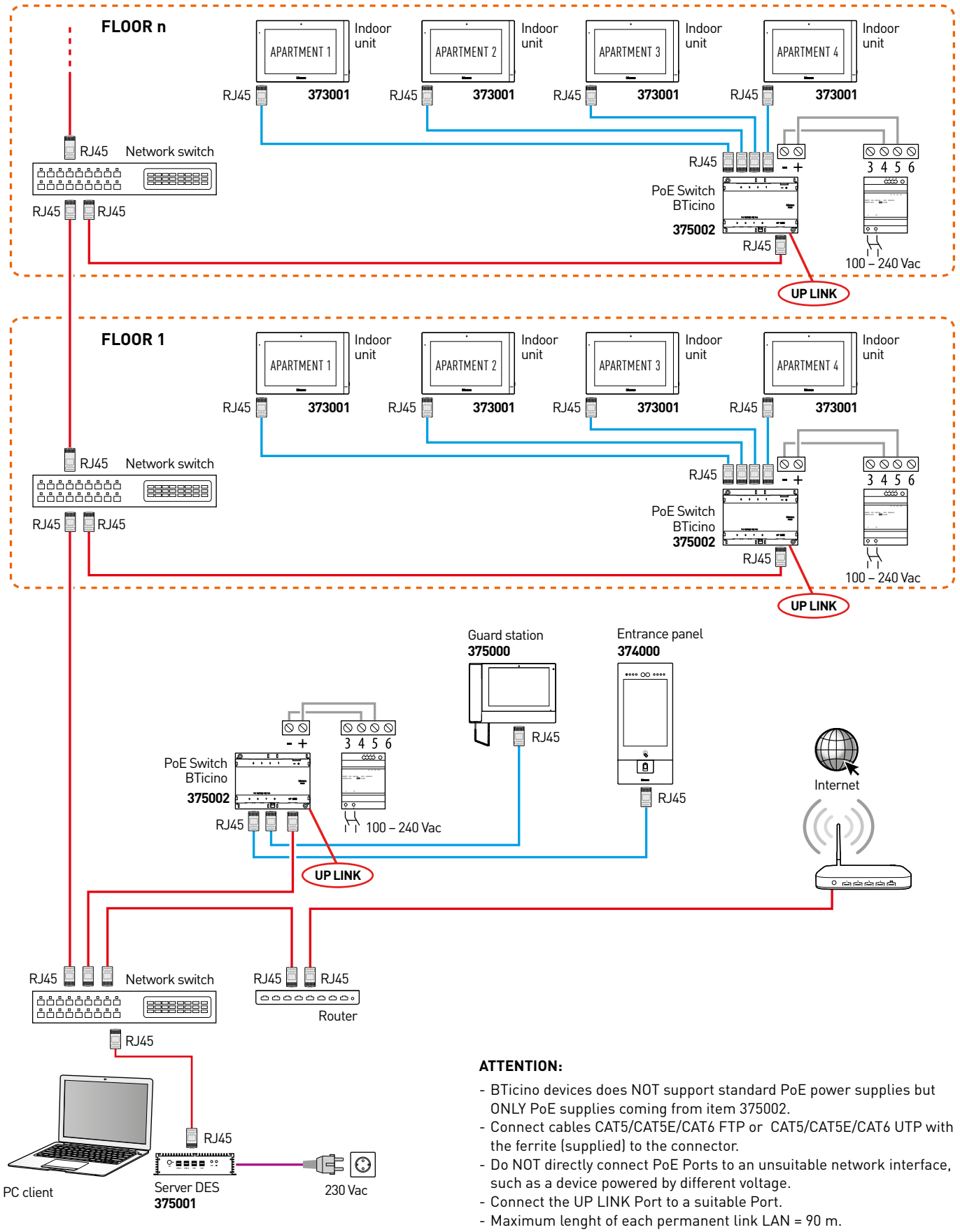
THE **GLOBAL SPECIALIST** IN DOOR ENTRY SYSTEMS

bticino

WIRING DIAGRAMS
INDEX

WIRING DIAGRAM 1 - SYSTEM ARCHITECTURE

Cables legend: LAN Ethernet | LAN PoE BTicino | Copper cables | 2 x Copper cables



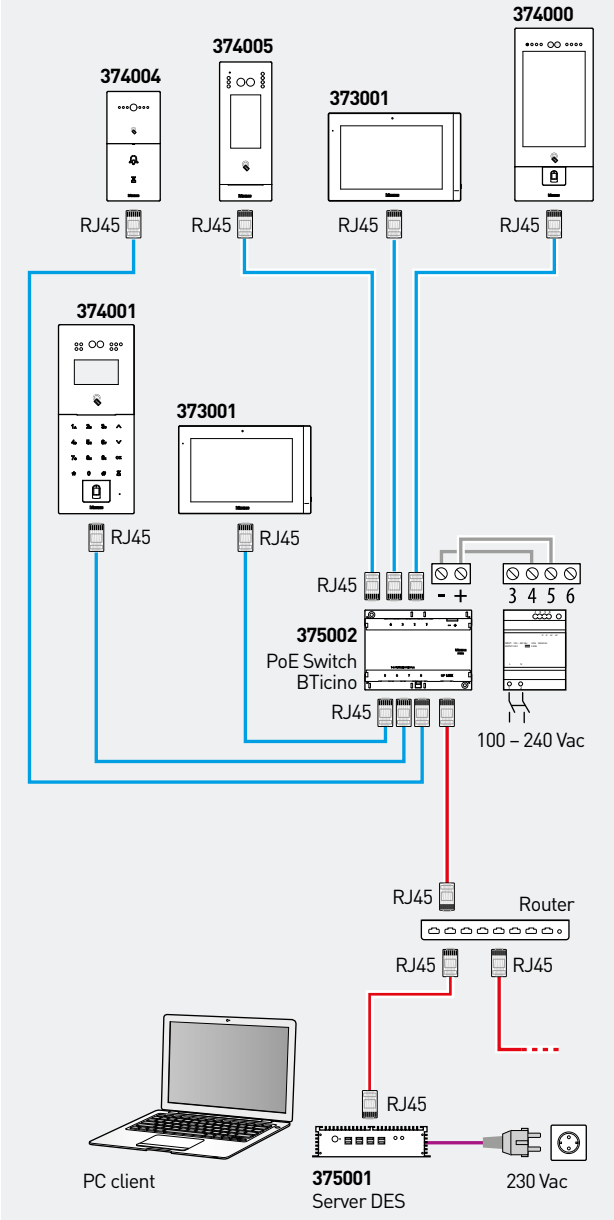
ATTENTION:

- BTicino devices does NOT support standard PoE power supplies but ONLY PoE supplies coming from item 375002.
- Connect cables CAT5/CAT5E/CAT6 FTP or CAT5/CAT5E/CAT6 UTP with the ferrite (supplied) to the connector.
- Do NOT directly connect PoE Ports to an unsuitable network interface, such as a device powered by different voltage.
- Connect the UP LINK Port to a suitable Port.
- Maximum lenght of each permanent link LAN = 90 m.

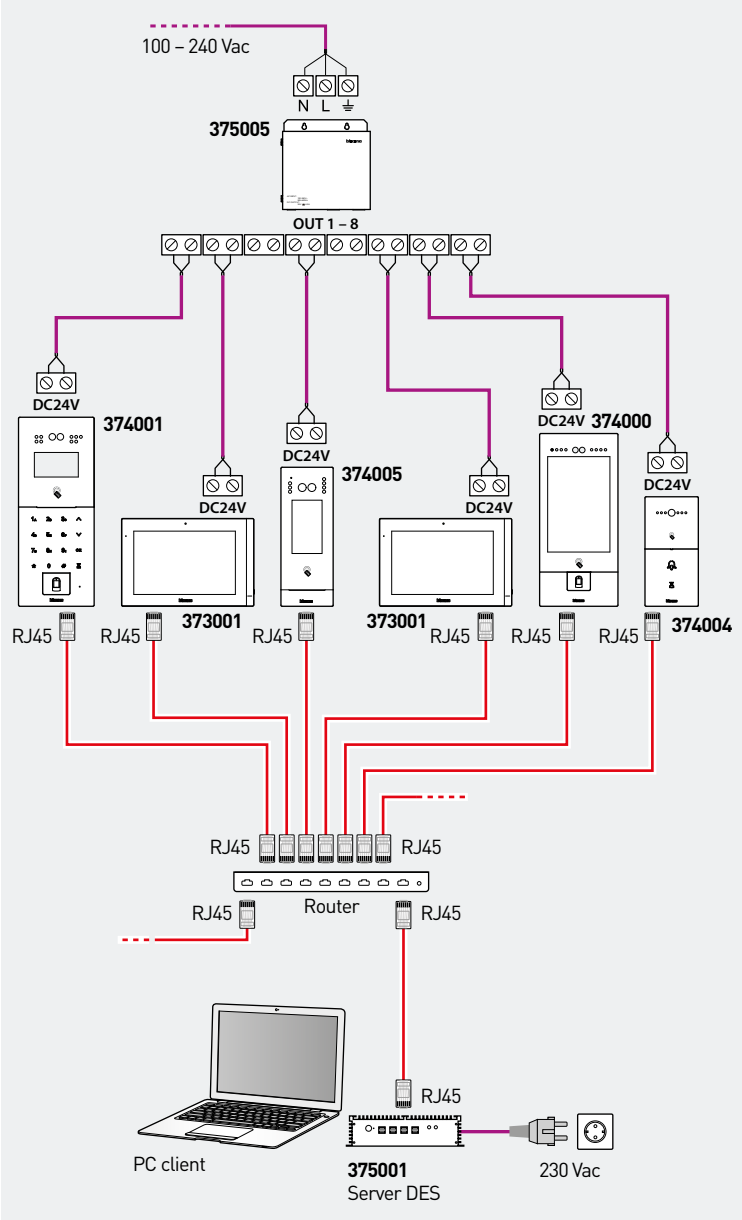
Cables legend: LAN Ethernet | LAN PoE BTicino | Copper cables | 2 x Copper cables

According to the installation situation, the following two types of connection / power supply can be used.

TYPE (A) - Connection with power supply from BTicino PoE Switch (375002)



TYPE (B) - Connection via local BTicino power supply (375005)

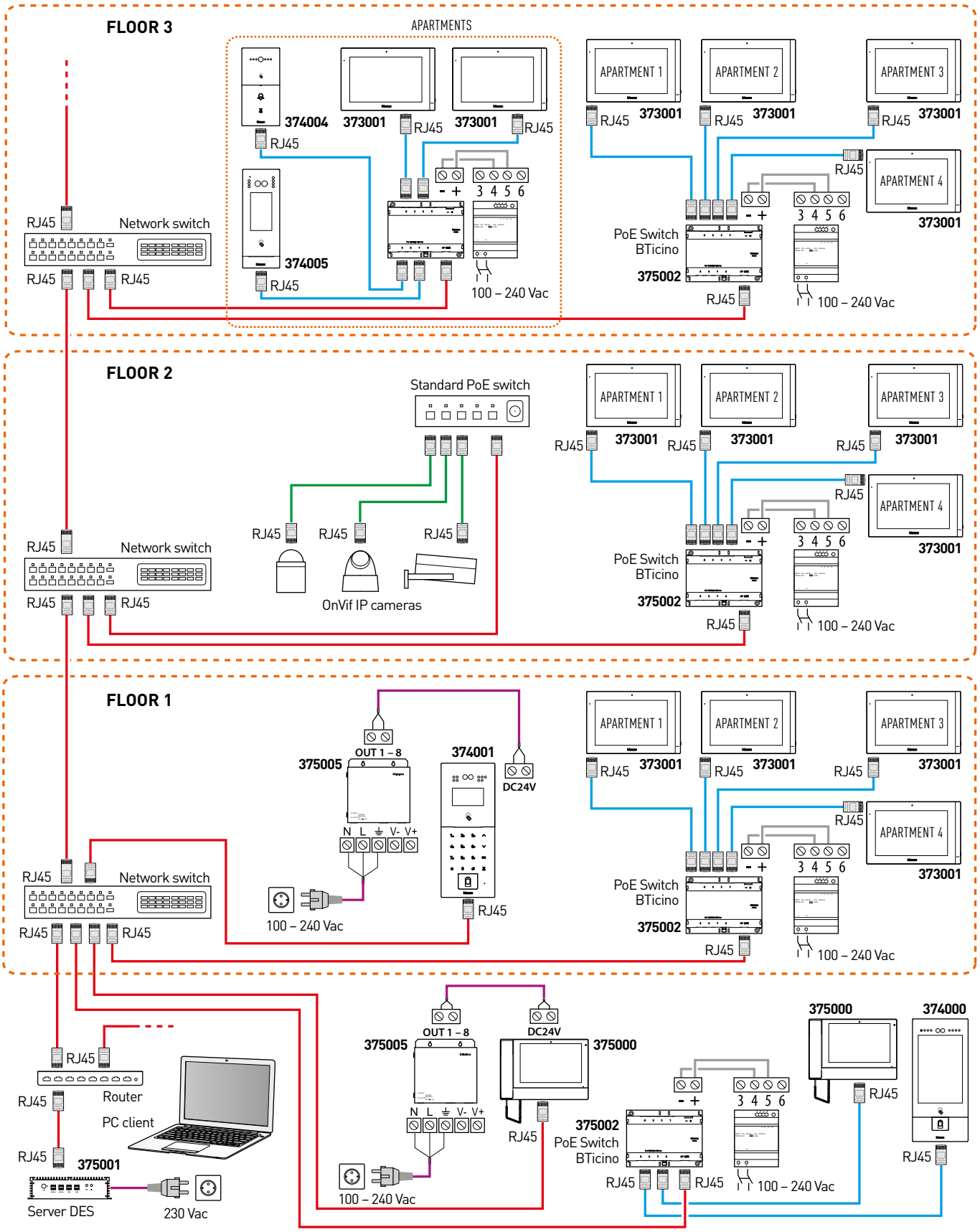


ATTENTION:

- BTicino devices does NOT support standard PoE power supplies but ONLY PoE supplies coming from item 375002.
- Connect cables CAT5/CAT5E/CAT6 FTP or CAT5/CAT5E/CAT6 UTP with the ferrite (supplied) to the connector.
- Do NOT directly connect PoE Ports to an unsuitable network interface, such as a device powered by different voltage.
- Connect the UP LINK Port to a suitable Port.
- Maximum lenght of each permanent link LAN = 90 m.

WIRING DIAGRAM 3 - MULTI FLOORS ETHERNET CONNECTION

Cables legend: LAN Ethernet | LAN PoE BTicino | LAN PoE Standard | Copper cables | 2 x Copper cables



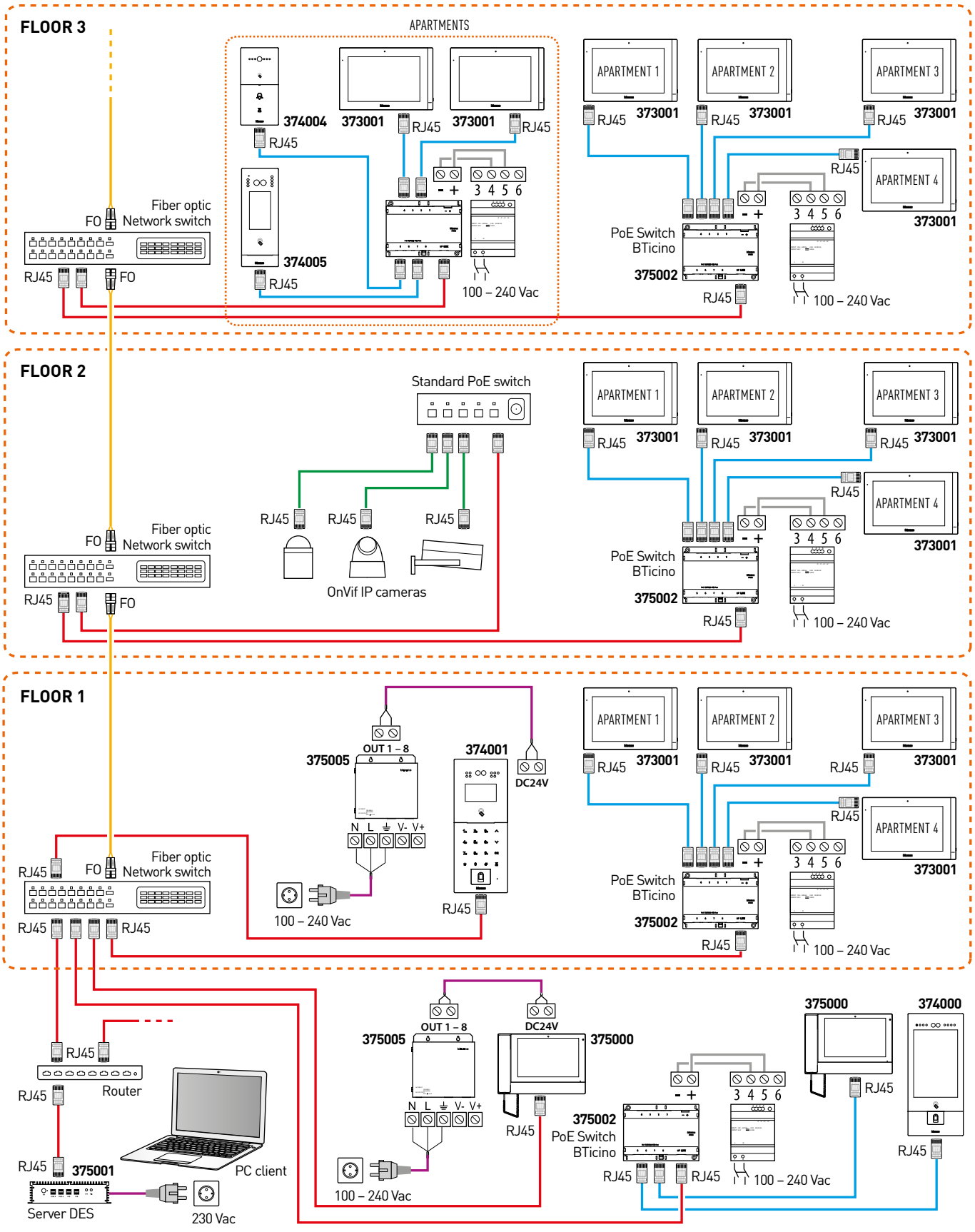
ATTENTION:

- DO NOT connect the PoE ports (375002) directly to an unsuitable network interface, for example to a network device with a different voltage. The UP LINK connection of the BTicino PoE must be connected to a suitable port - never to a PoE port.
- To connect and power the devices, both connection modes can be used indifferently: TYPE (A), TYPE (B) or mixed.

WIRING DIAGRAM 4 - FIBER OPTIC RISER CONNECTION

(SUITABLE IN CASE OF HIGH BANDWIDTH DEMAND)

Cables legend: LAN Ethernet | LAN PoE BTicino | LAN PoE Standard | Copper cables | 2 x Copper cables | Optical fiber



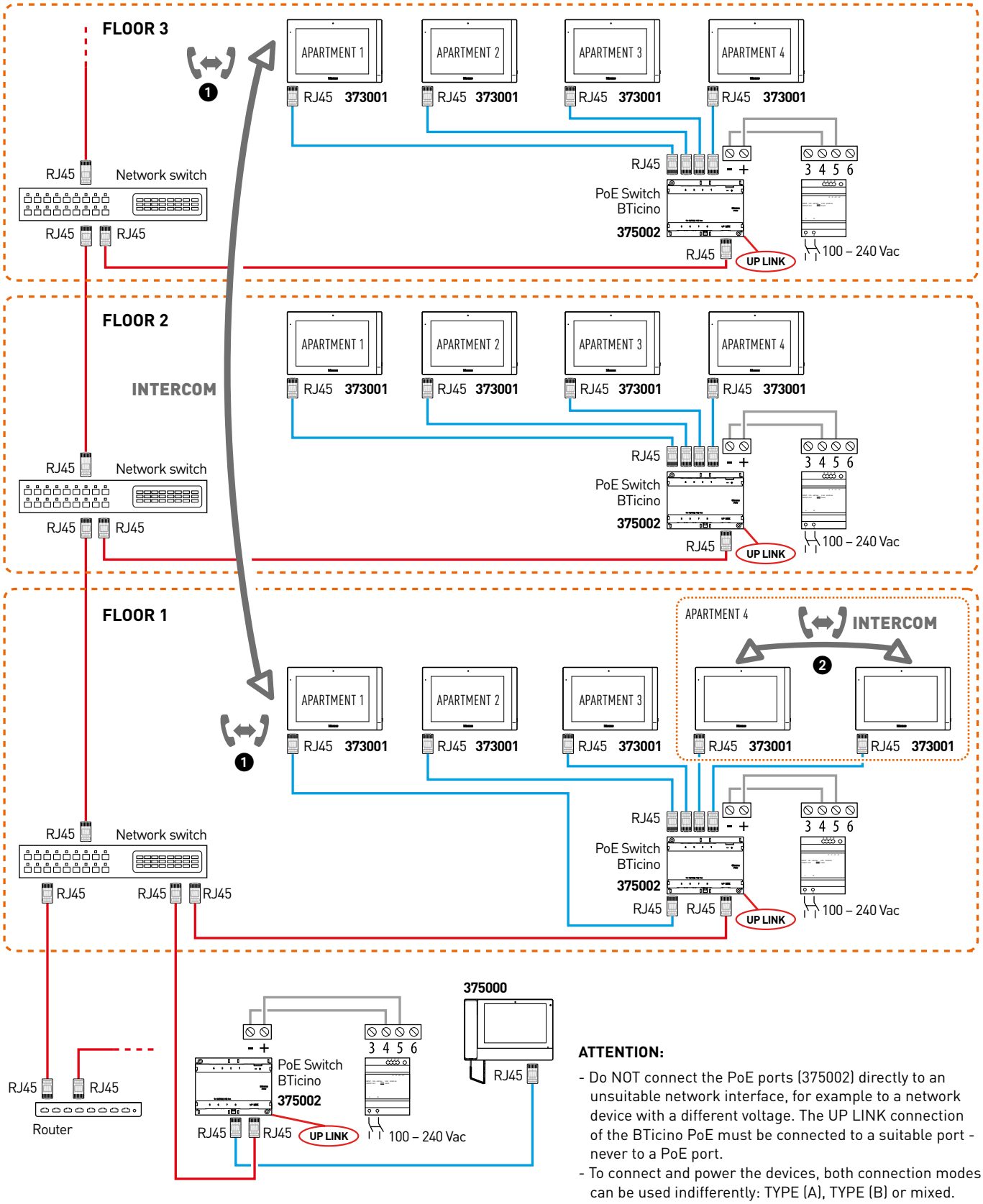
ATTENTION:

- DO NOT connect the PoE ports (375002) directly to an unsuitable network interface, for example to a network device with a different voltage. The UP LINK connection of the BTicino PoE must be connected to a suitable port - never to a PoE port.
- To connect and power the devices, both connection modes can be used indifferently: TYPE (A), TYPE (B) or mixed.

WIRING DIAGRAM 5 - INDOOR UNITS AUDIO INTERCOM

Cables legend: LAN Ethernet | LAN PoE BTicino | Copper cables

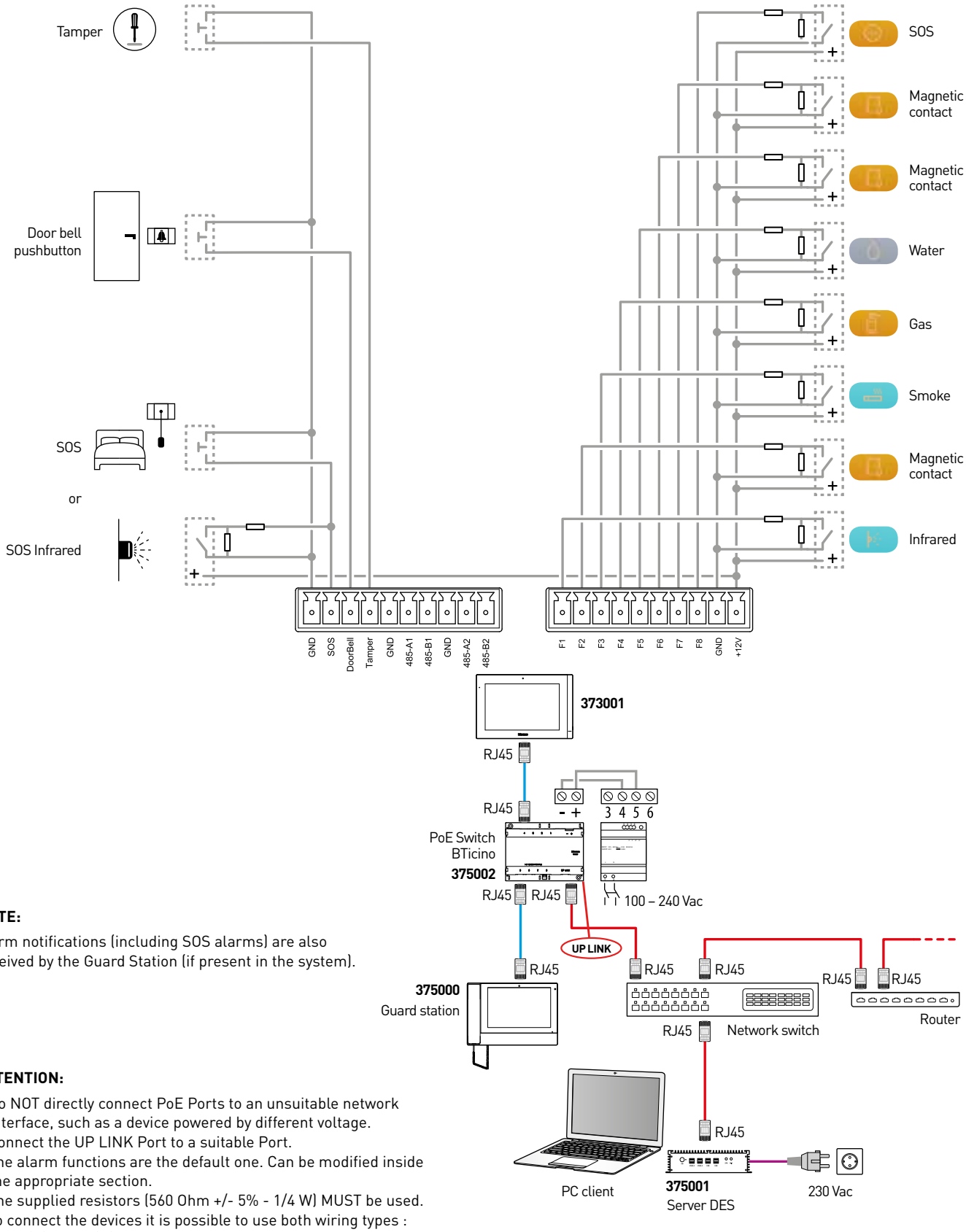
INTERCOM audio function can be performed:
- between different apartments (of the same building or of different buildings);
- within the same apartment.



ATTENTION:
- Do NOT connect the PoE ports (375002) directly to an unsuitable network interface, for example to a network device with a different voltage. The UP LINK connection of the BTicino PoE must be connected to a suitable port - never to a PoE port.
- To connect and power the devices, both connection modes can be used indifferently: TYPE (A), TYPE (B) or mixed.

WIRING DIAGRAM 6 - INTEGRATION OF APARTMENT ALARMS
(VIA VIDEO INDOOR UNIT)

Cables legend: LAN Ethernet | LAN PoE BTicino | Copper cables | 2 x Copper cables



NOTE:

alarm notifications (including SOS alarms) are also received by the Guard Station (if present in the system).

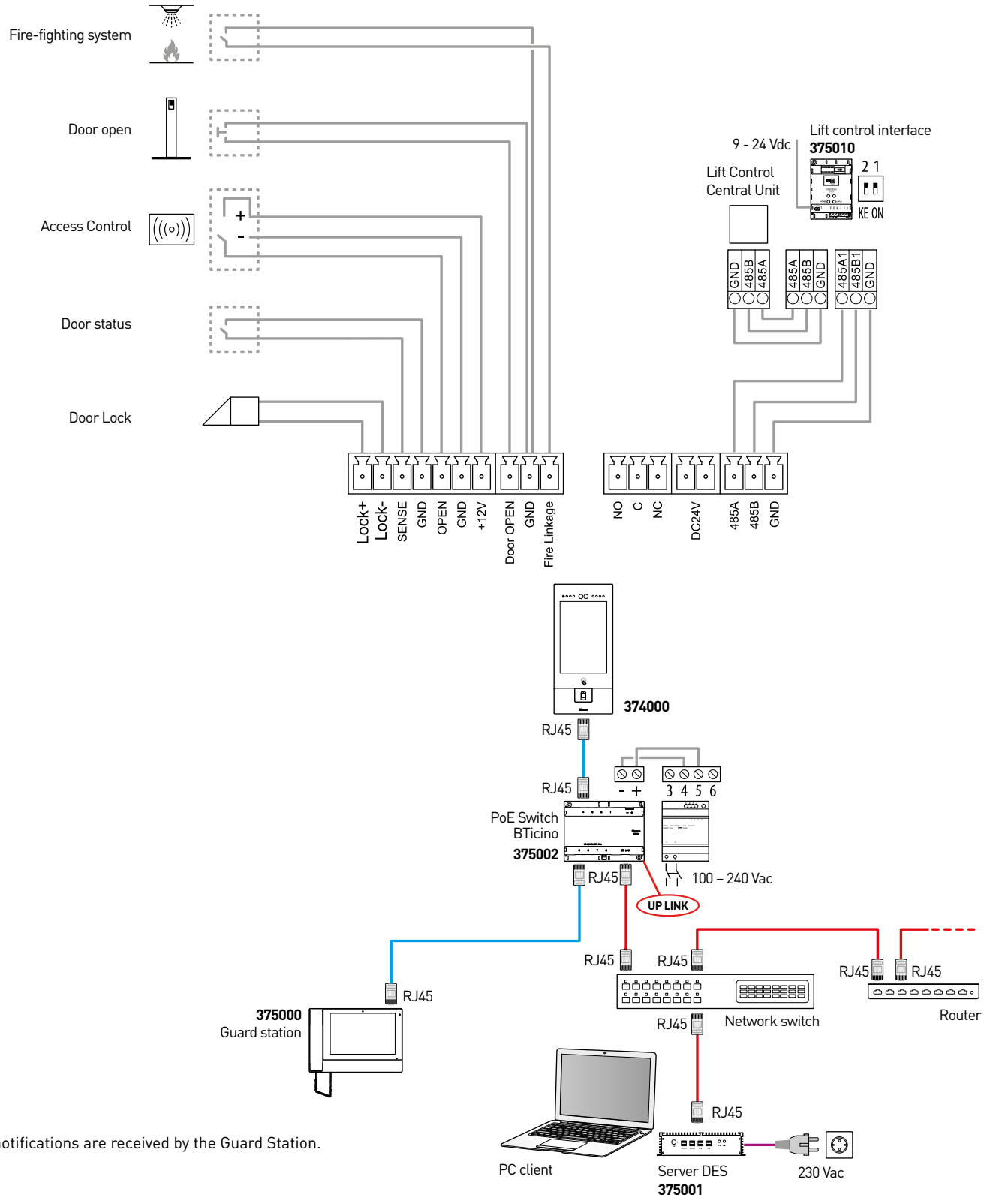
ATTENTION:

- Do NOT directly connect PoE Ports to an unsuitable network interface, such as a device powered by different voltage.
- Connect the UP LINK Port to a suitable Port.
- The alarm functions are the default one. Can be modified inside the appropriate section.
- The supplied resistors (560 Ohm +/- 5% - 1/4 W) MUST be used.
- To connect the devices it is possible to use both wiring types : TYPE (A), TYPE (B) or mixed.

WIRING DIAGRAM 7 - INTEGRATION COMMON AREAS ALARMS AND LIFT CONTROL

(VIA ENTRANCE PANEL 374000)

Cables legend: LAN Ethernet | LAN PoE BTicino | Copper cables | 2 x Copper cables



NOTE:

alarm notifications are received by the Guard Station.

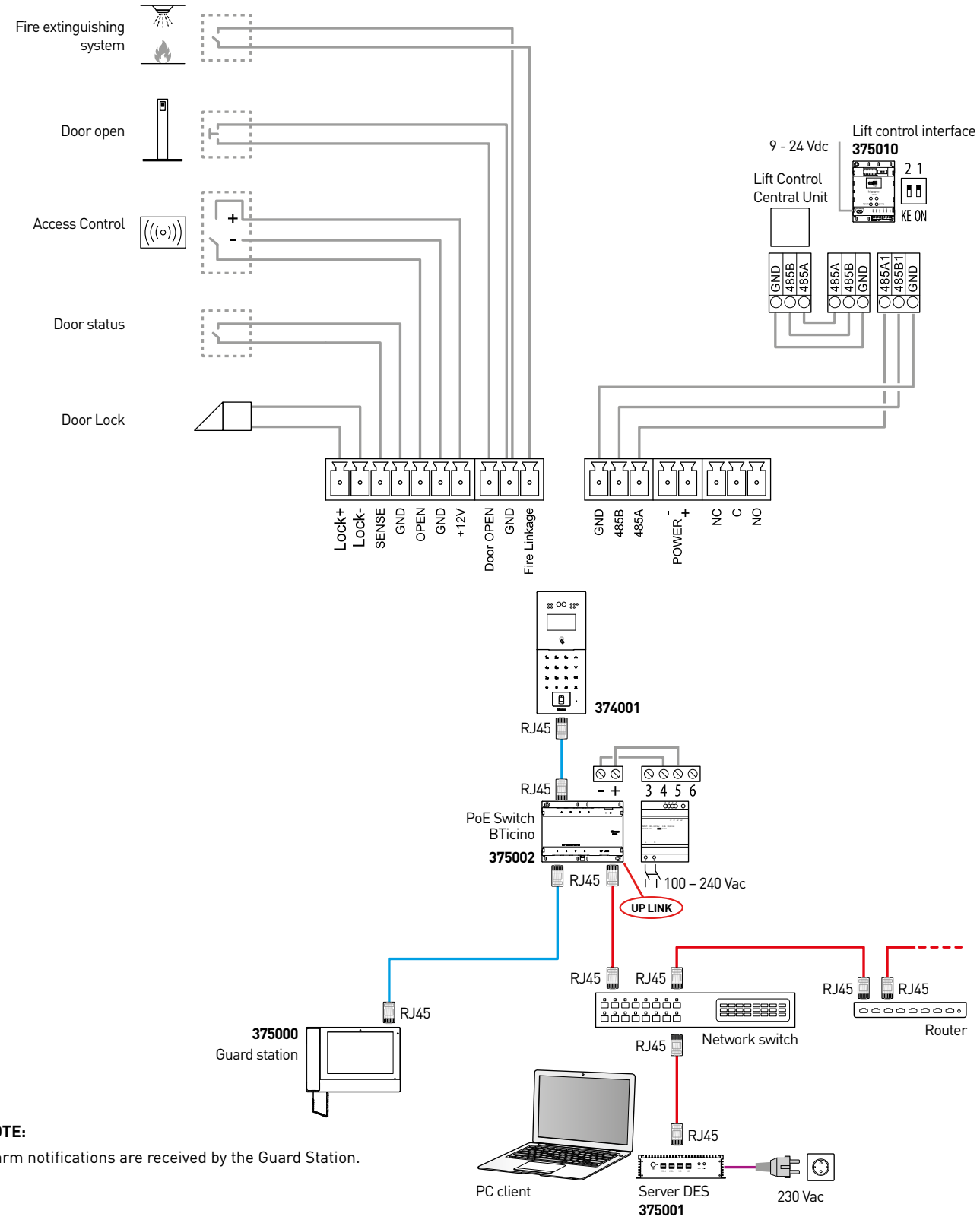
ATTENTION:

- Do NOT directly connect PoE Ports to an unsuitable network interface, such as a device powered by different voltage.
- Connect the UP LINK Port to a suitable Port.
- To connect the devices it is possible to use both wiring types : TYPE (A), TYPE (B) or mixed.

WIRING DIAGRAM 8 - INTEGRATION OF COMMON AREAS ALARMS AND LIFT CONTROL

(VIA ENTRANCE PANEL 374001)

Cables legend: LAN Ethernet | LAN PoE BTicino | Copper cables | 2 x Copper cables



NOTE:

alarm notifications are received by the Guard Station.

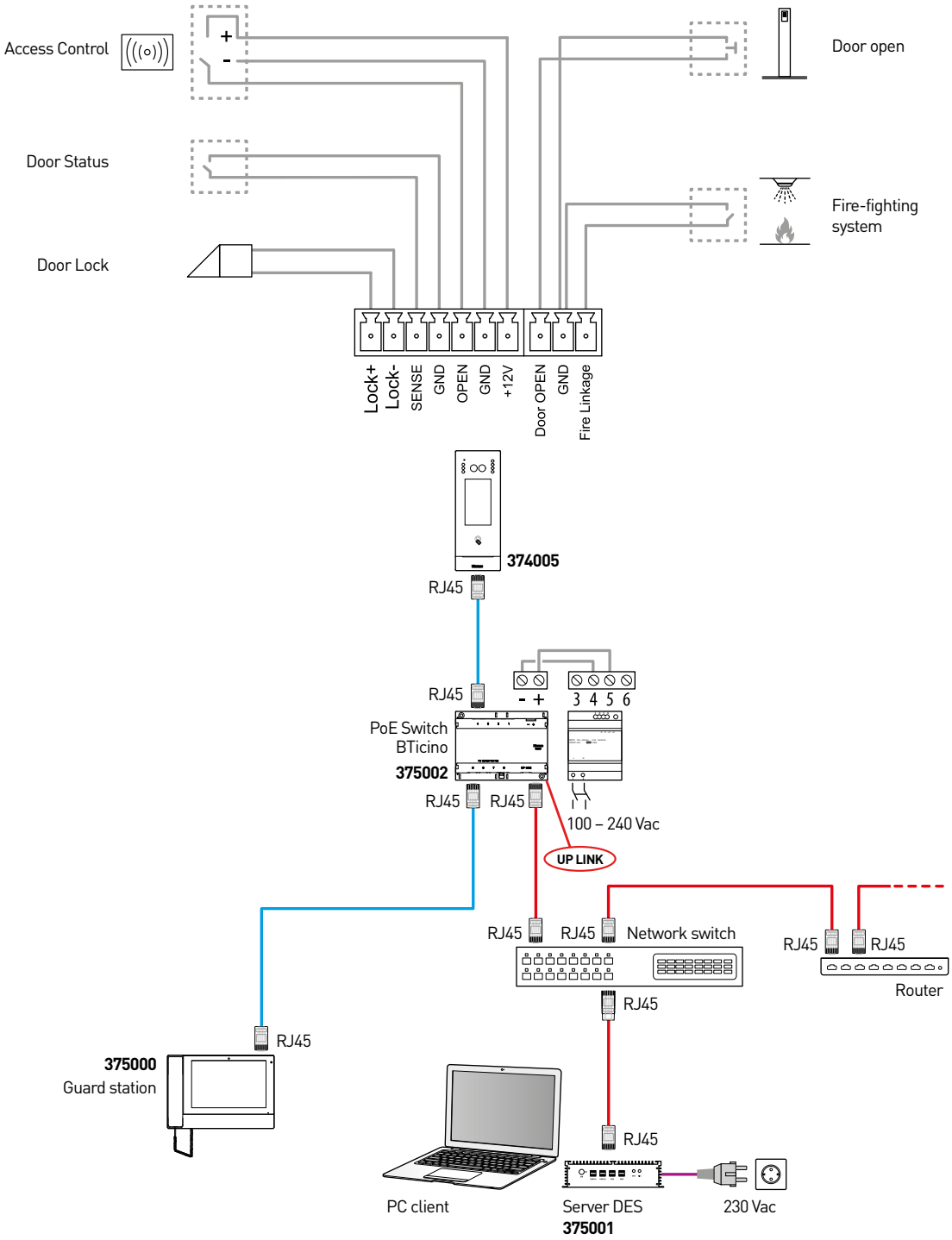
ATTENTION:

- Do NOT directly connect PoE Ports to an unsuitable network interface, such as a device powered by different voltage.
- Connect the UP LINK Port to a suitable Port.
- To connect the devices it is possible to use both wiring types : TYPE (A), TYPE (B) or mixed.

WIRING DIAGRAM 9 - INTEGRATION OF COMMON AREAS ALARMS

(VIA ENTRANCE PANEL 374005)

Cables legend: LAN Ethernet | LAN PoE BTicino | Copper cables | 2 x Copper cables



NOTE:

alarm notifications are received by the Guard Station.

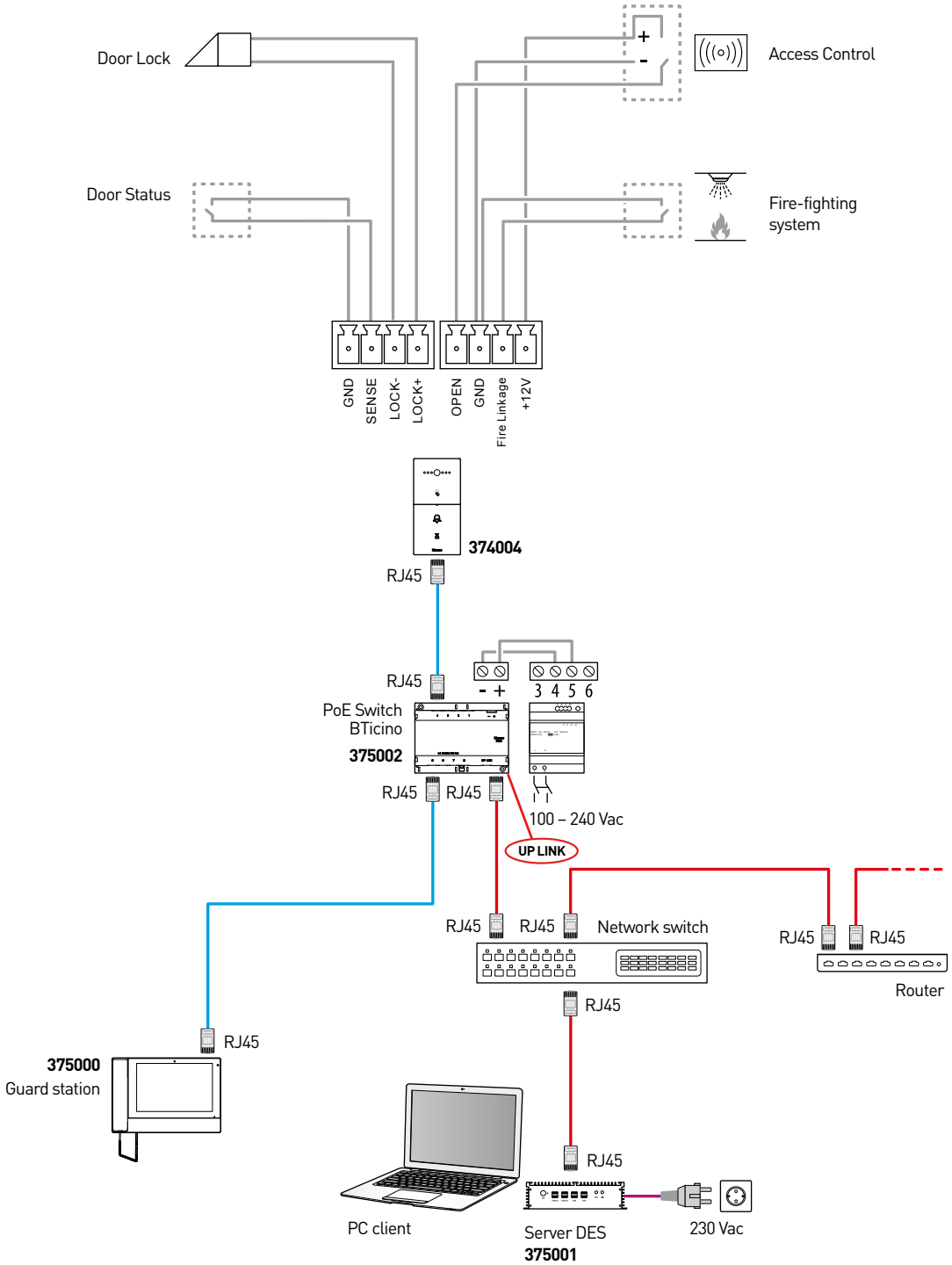
ATTENTION:

- Do NOT directly connect PoE Ports to an unsuitable network interface, such as a device powered by different voltage.
- Connect the UP LINK Port to a suitable Port.
- To connect the devices it is possible to use both wiring types : TYPE (A), TYPE (B) or mixed.

WIRING DIAGRAM 10 - INTEGRATION OF ALARMS

(VIA ENTRANCE PANEL 374004)

Cables legend: LAN Ethernet | LAN PoE BTicino | Copper cables | 2 x Copper cables



NOTE:

alarm notifications are received by the Guard Station.

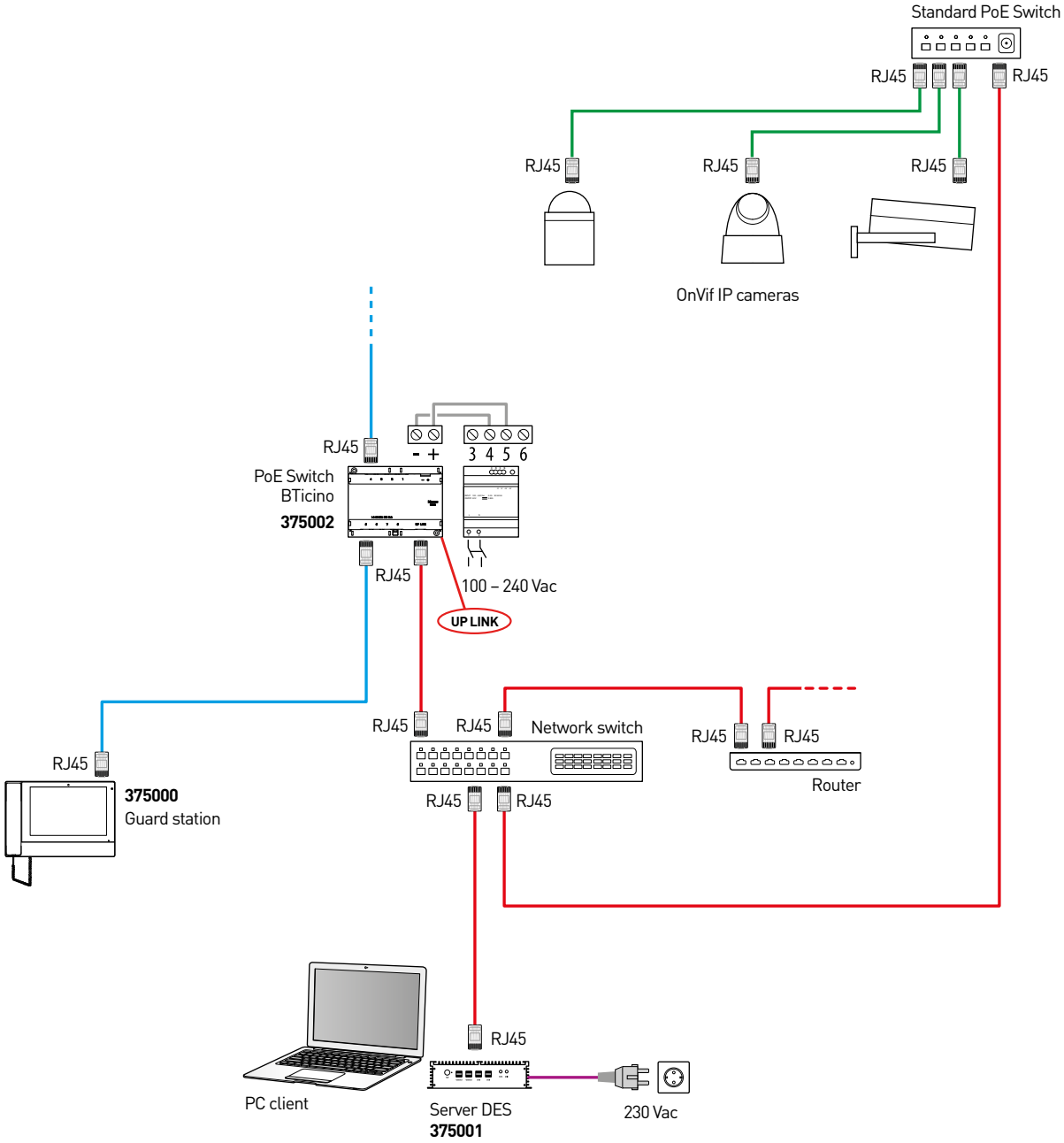
ATTENTION:

- Do NOT directly connect PoE Ports to an unsuitable network interface, such as a device powered by different voltage.
- Connect the UP LINK Port to a suitable Port.
- To connect the devices it is possible to use both wiring types : TYPE (A), TYPE (B) or mixed.

WIRING DIAGRAM 11 - ONVIF IP CAMERAS INTEGRATION

Cables legend: LAN Ethernet | LAN PoE BTicino | LAN PoE Standard | Copper cables | 2 x Copper cables

Professional **Onvif IP Camera** models from different manufacturers can be selected using the IP configuration software.



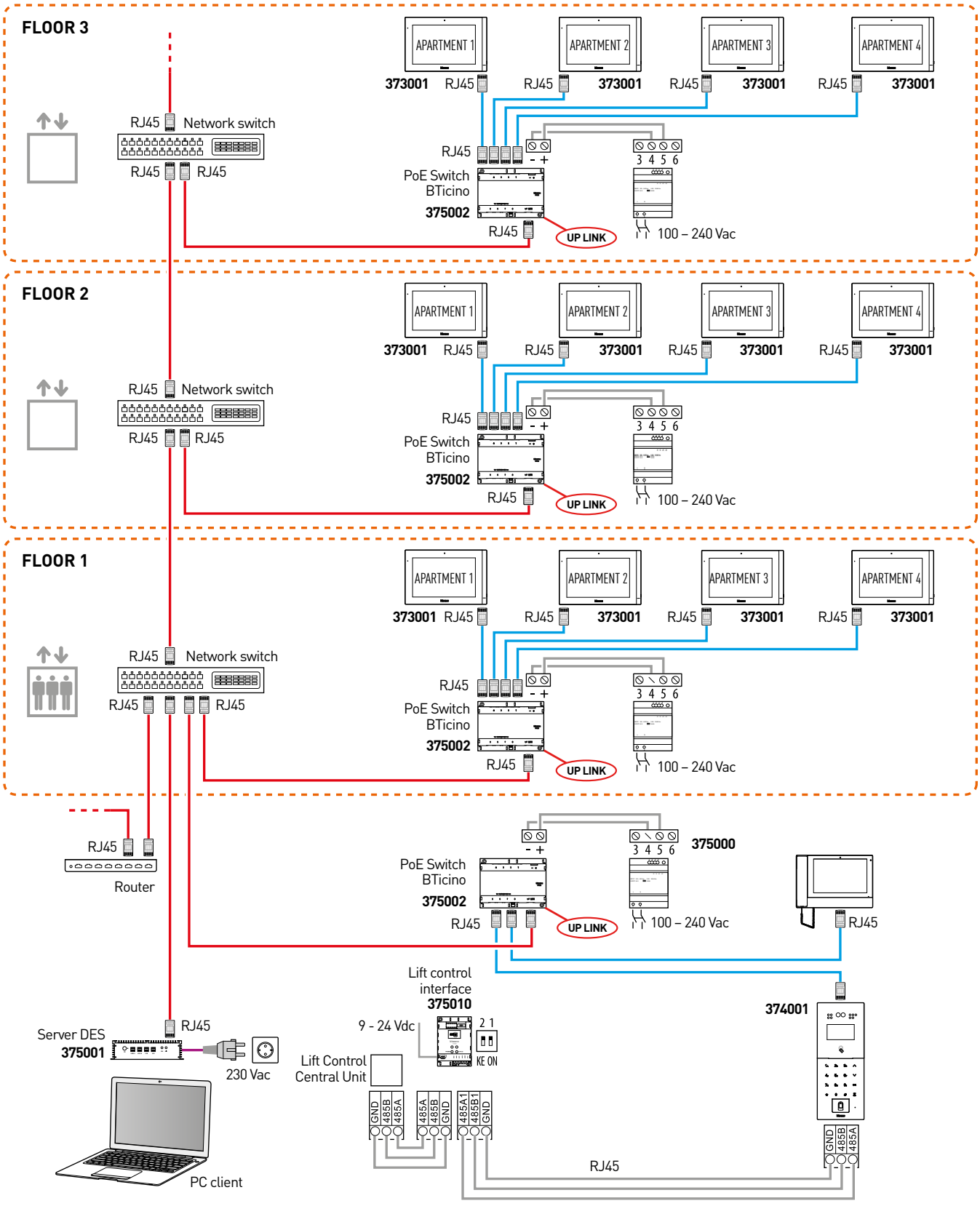
ATTENTION:

- Do NOT directly connect PoE Ports to an unsuitable network interface, such as a device powered by different voltage.
- Connect the UP LINK Port to a suitable Port.
- To connect the devices it is possible to use both wiring types : TYPE (A), TYPE (B) or mixed.

WIRING DIAGRAM 12 - LIFT CONTROL INTEGRATION

(SYSTEM WITH 1 RISER & 1 ENTRANCE PANEL)

Cables legend: LAN Ethernet | LAN PoE BTicino | Copper cables | 2 x Copper cables



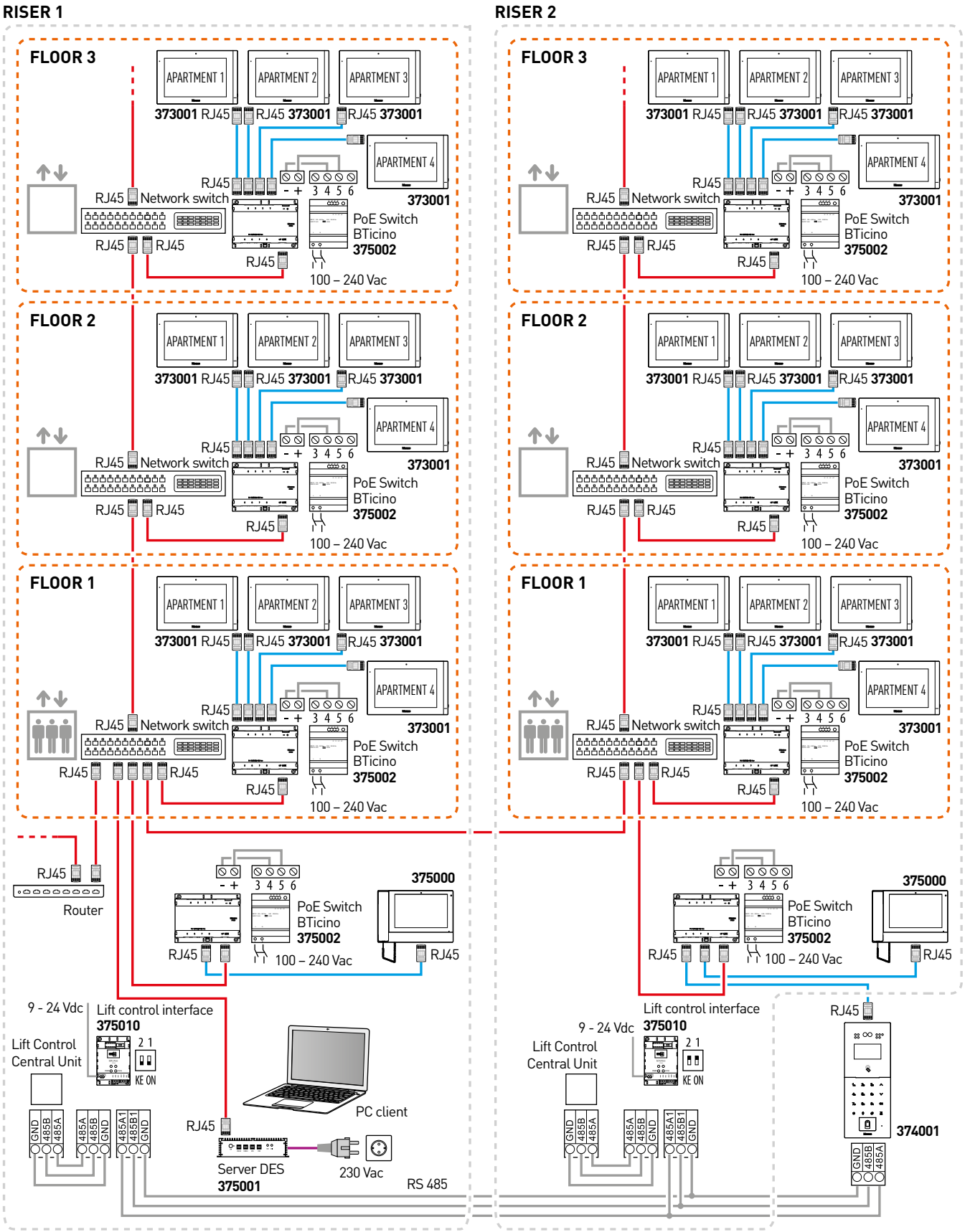
ATTENTION:

- Do NOT directly connect PoE Ports to an unsuitable network interface, such as a device powered by different voltage.
- Connect the UP LINK Port to a suitable Port.
- To connect the devices it is possible to use both wiring types : TYPE (A), TYPE (B) or mixed.

WIRING DIAGRAM 13 - LIFT CONTROL INTEGRATION

(SYSTEM WITH MULTI RISERS & 1 ENTRANCE PANEL)

Cables legend: LAN Ethernet | LAN PoE BTicino | Copper cables | 2 x Copper cables



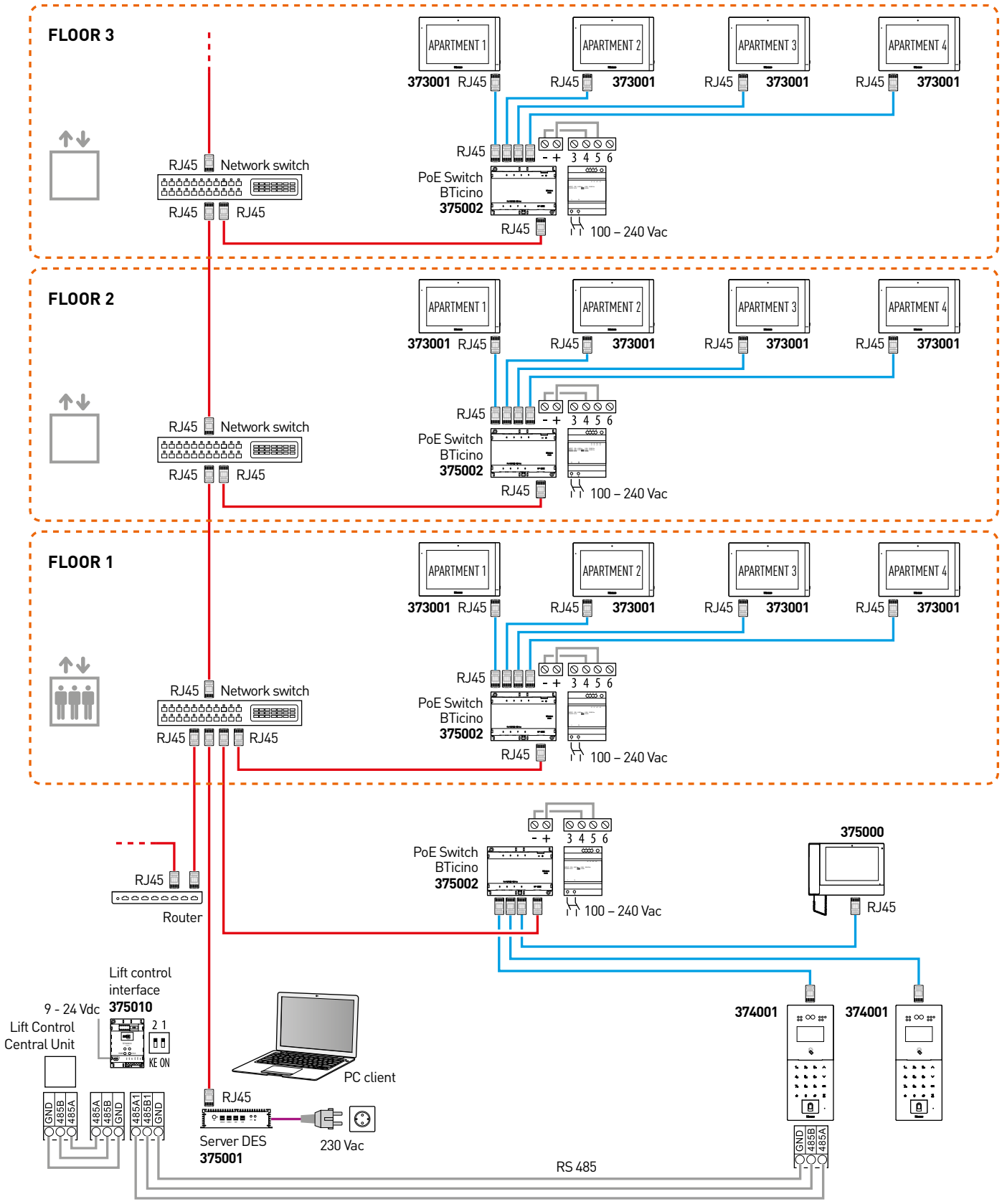
ATTENTION:

- Do NOT directly connect PoE Ports to an unsuitable network interface, such as a device powered by different voltage.
- Connect the UP LINK Port to a suitable Port.
- To connect the devices it is possible to use both wiring types : TYPE (A), TYPE (B) or mixed.

WIRING DIAGRAM 14 - LIFT CONTROL INTEGRATION

(SYSTEM WITH 1 RISER & MULTI ENTRANCE PANEL)

Cables legend: LAN Ethernet | LAN PoE BTicino | Copper cables | 2 x Copper cables



ATTENTION:

- Do NOT directly connect PoE Ports to an unsuitable network interface, such as a device powered by different voltage.
- Connect the UP LINK Port to a suitable Port.
- To connect the devices it is possible to use both wiring types : TYPE (A), TYPE (B) or mixed.

BTicino SpA
Viale Borri, 231
21100 Varese - Italy
www.bticino.com

AD-EXCMWDIP/22C/ENG - Version 02/2022