BTICINO

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IP DES - Small video entrance panel
with 4.3" touch display

374005

Description

Small video entrance panel with 4.3" vertical touch display, face recognition 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

Settings menu for maintenance and for managing settings (e.g. backlight brightness, ring volume, speaker volume, touch volume, screensaver time). Possibility to upload customized screensavers using the configuration software. This device can be PoE (power over Ethernet) powered, or directly powered using power supply 375005. Flush mounted installation using the dedicated box 375009.
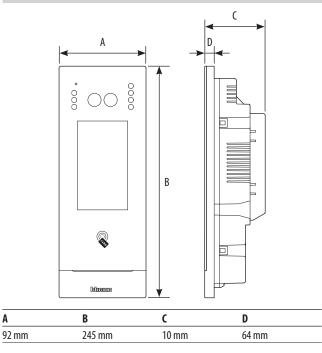
Related items

375009   Metal box for small video entrance panel with 4.3" vertical touch display

Technical data

Voltage:	24 Vdc
Maximum consumption:	0.41 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°
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
92 mm	245 mm	10 mm	64 mm

Front view
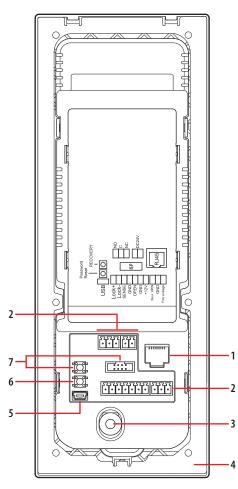

Legend

1. LED for the shooting field lighting
2. Microphone
3. Light sensor
4. Camera
5. Display 4.3" (touch screen)
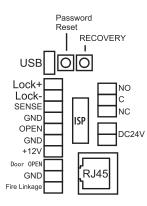6. Badge reader for door lock opening
7. Loudspeaker
8. Locking screw

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Rear view

Legend

1. RJ45 Connector (*)
2. Connection clamp
3. Tamper switch
4. Mounting bracket
5. USB Connector (not used)
6. Reset to the factory settings push button
7. Not used

(*) **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**
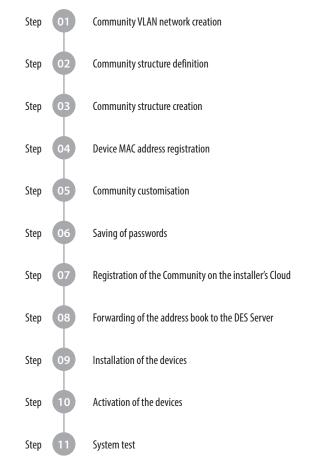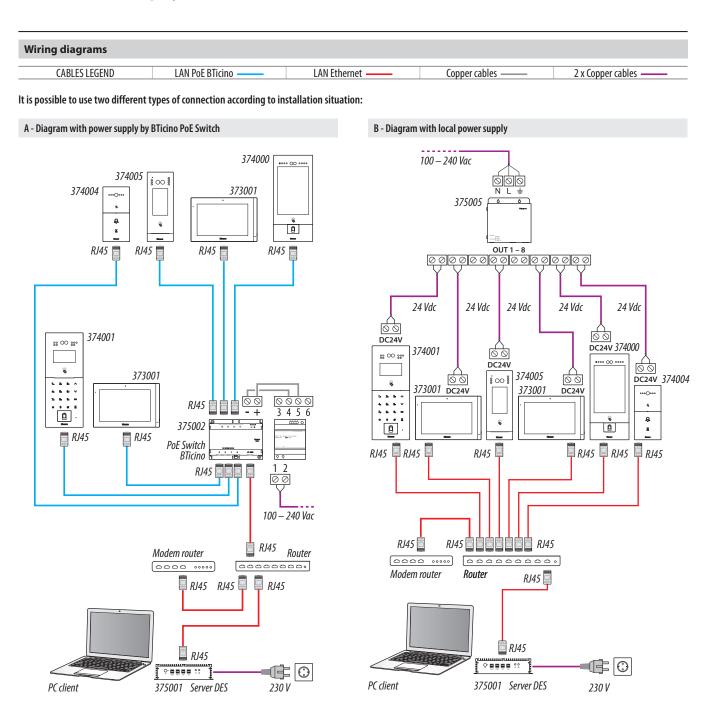

Connection clamps

LOCK+	electric door lock connection and control
LOCK-	(12V - 4A impulsive on 30 Ohm maximum)
SENSE	door lock status signal input (dry contact)
GND – +12V	access control devices power supply
OPEN	third party access control signal input for door lock opening (+12Vdc pulse)
GND	system common ground terminal for third party connection
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)

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:

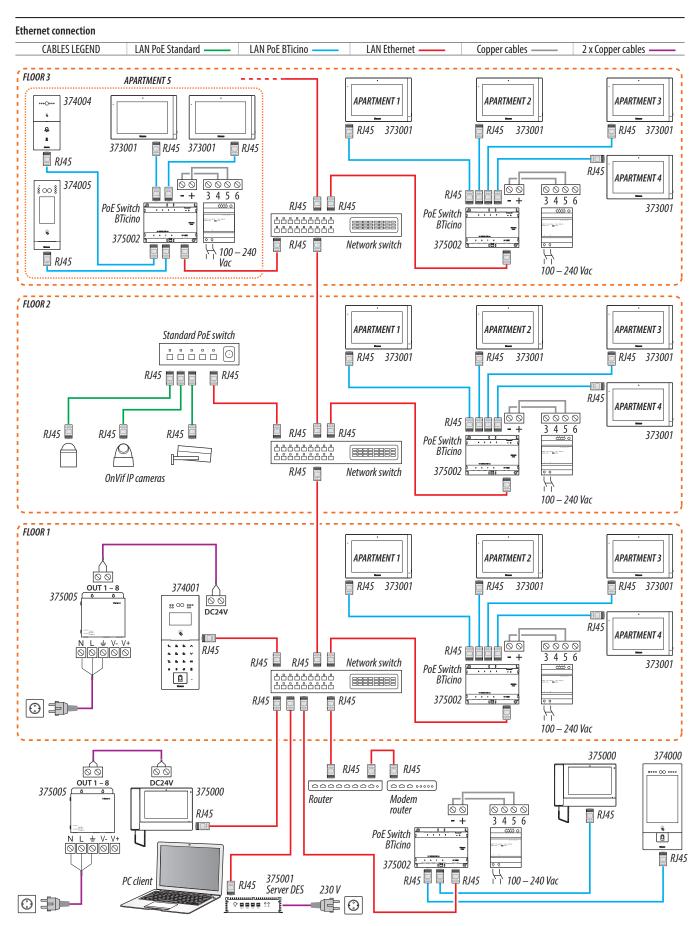| Step	01	Community VLAN network creation
Step	02	Community structure definition
Step	03	Community structure creation
Step	04	Device MAC address registration
Step	05	Community customisation
Step	06	Saving of passwords
Step	07	Registration of the Community on the installer's Cloud
Step	08	Forwarding of 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.

Ethernet connection

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

FLOOR 3 — APARTMENT 5

374004

374005

373001 RJ45 373001 RJ45

PoE Switch BTicino

375002

− + 3 4 5 6

100 – 240 Vac

RJ45

RJ45 RJ45

Network switch

RJ45

APARTMENT 1 — RJ45 373001

APARTMENT 2 — RJ45 373001

APARTMENT 3 — RJ45 373001

RJ45 — APARTMENT 4 — 373001

RJ45

PoE Switch BTicino

375002

− + 3 4 5 6

100 – 240 Vac

FLOOR 2

Standard PoE switch

RJ45 RJ45

RJ45 RJ45 RJ45

OnVif IP cameras

RJ45 RJ45

RJ45

Network switch

APARTMENT 1 — RJ45 373001

APARTMENT 2 — RJ45 373001

APARTMENT 3 — RJ45 373001

RJ45 — APARTMENT 4 — 373001

RJ45

PoE Switch BTicino

375002

− + 3 4 5 6

100 – 240 Vac

FLOOR 1

375005

OUT 1 – 8

374001

DC24V

N L V- V+

RJ45

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

PoE Switch BTicino

375002

− + 3 4 5 6

100 – 240 Vac

375005

OUT 1 – 8

DC24V

375000

RJ45

N L V- V+

PC client

375001 Server DES

230 V

RJ45 RJ45

Router

Modem router

375000

374000

RJ45

− + 3 4 5 6

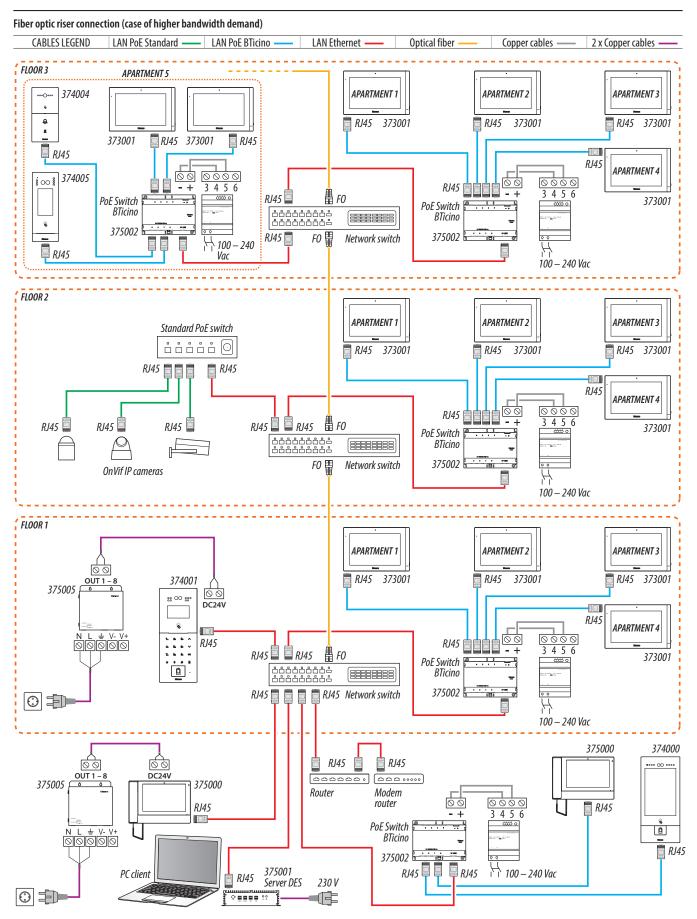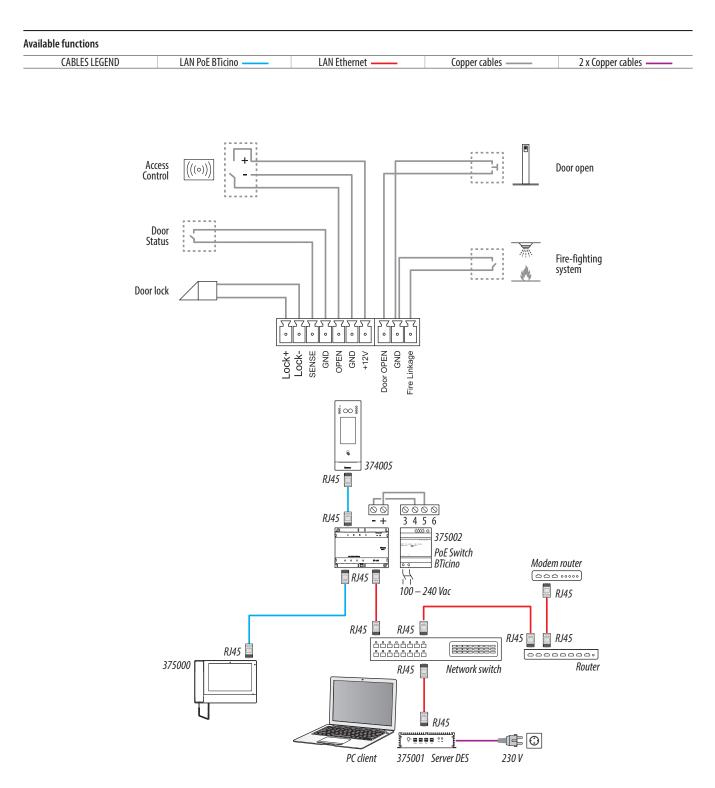PoE Switch BTicino

375002

RJ45 RJ45 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 ——

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.

Available functions

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

Access Control

Door open

Door Status

Fire-fighting system

Door lock

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

374005

RJ45

RJ45

− +   3 4 5 6

375002
PoE Switch
BTicino

100 – 240 Vac

RJ45

Modem router

RJ45

RJ45

RJ45   RJ45

RJ45   RJ45

RJ45

Network switch

Router

375000

RJ45

RJ45

PC client   375001   Server DES   230 V

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.

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 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:
If the device has been positioned in the structure at Apartment level, when the Guest call key is pressed, the call is directly sent to the IU.
If the device has been positioned at a higher level (e.g. building, riser, etc.), the IU can be called 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.

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 Function

This function displays messages sent to entrance panels using the DES Server Software.