urmet

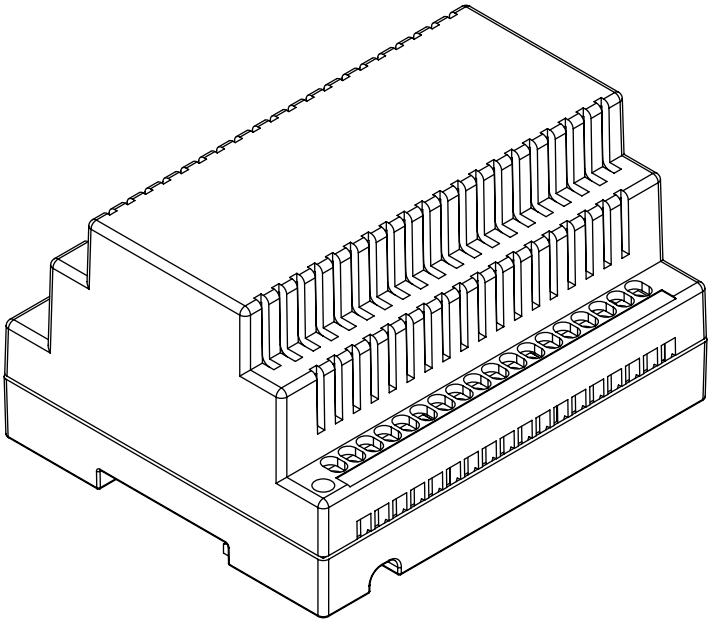
**Mod. 1332**

DS 1332-107D

LBT 8367

# INTERFACCIA TELEFONICA
# *TELEPHONE INTERFACE*

## Sch./*Ref*. 1332/40



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## MANUALE D'USO, PROGRAMMAZIONE E INSTALLAZIONE
## *USER, PROGRAMMING AND INSTALLATION MANUAL*

## PRODUCT'S INTENDED USE

This device has been designed to be used in connection to the national PSTN analogic network.

## EMERGENCY

In case of mains fail, the POWER LED turns off and the telephone interface services are deactivated. However, it is possible to make and receive telephone calls, because in this condition the telephone equipment is directly connected to the trunk line. **In this case, it is not necessary to dial "0", even if the telephone interface is set in Mode B.**
When mains returns, the system goes back to operate in the preset mode.

## DESCRIPTION

The Ref. 1332/40 telephone interface allows to use a generic telephone terminal (BCA keypad telephone, answering machine, cordless phone, fax, etc.) as telephone type conversation element. Besides, the telephone connected to the interface can execute the common operations of a door phone, if it is connected to a 4+n system, allowing the conversation with one of the two apartment stations that can be connected and the electric lock opening. It is available in grey colour.
The interface is installed on a DIN rail in a service panel.

The telephone interface can be used to build generic systems with door phone riser column 4+n.

The main interface performances and characteristics are listed below:
- Telephone connection to the telephone line.
- Telephone connection to two different door phone units.
- Answer to a telephone call.
- Answer to a door phone call coming from two different door phone units.
- On the door unit, signalling of the door phone call forwarding by a tone.
- Telephone conversation hold mode.
- Door 1 opening.
- Door 2 opening.
- Call to concierge switchboard (HRB systems).
- Connection up to 5 telephones in serie (in-out system).
- Signalling of mains presence with the POWER led.
- Installation on a DIN rail in a service panel.

# GENERIC INFORMATION

## CONFIGURATION

The system capacity is defined by:
- 1 trunk line.
- 1 extension line.
- 2 door phone lines 4+n.

## TYPES OF DEVICES

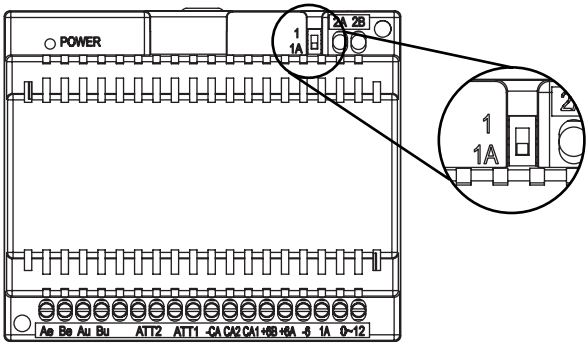
The telephone interface can operate either with Urmet Ref.1332 dedicated combiphones and Director2 telephones (combiphone operating mode), or with keypad BCA telephones (with DTMF) or equivalent terminals (fax, answering machine, etc.) with BCA operating mode.
Urmet combiphones and Director2 telephones make door phone functions easier, because they are provided with dedicated buttons; for example, it is possible to open the door simply by pressing a button. Up to 5 telephones max. can be connected in series in a system with in/out sockets (refer to enclosed diagrams).

## TYPES OF SYSTEM

The Ref. 1332/40 telephone interface can be used in the following Urmet door phone systems:
- Door phone systems with electronic call system (switch set on **1A**).
- Door phone systems with traditional call system (door phones Mod. 1130, the interface switch set on **1**).

It cannot be connected in the following systems:
- Door phone systems with conversation privacy function.
- Door phone systems with concierge switchboard Mod. 604.

The two calling modes are selected by means of a switch present on the interface. By default, the telephone interface is set for the electronic call system (position **1A**). Actually, with the interface it is possible to replace the door phone with a telephone, in order to use the same devices to perform both the telephone and door phone functions.




## POWER SUPPLY

The telephone interface must be powered by a voltage of 12Vac, for example by a Ref. 9000/230 transformer connected to the mains by a 2-pole circuit breaker. The mains presence is signalled by the POWER led present on the interface, that turns on. In case of mains fail, the interface directly transfers the telephone line to the devices, allowing, in any case, the telephone service, while the door phone service is not active until the mains returns.

## OPERATING MODES

The telephone interface may work in two operating modes, that can be selected by a programming procedure performed with the telephone (paragraph 3.9):

**Mode A**
By picking the handset up, the user is immediately connected to the telephone line (no number needs to be dialled to access the telephone line).

**Mode B**
When the handset is picked up, a dial tone is heard: the telephone is not connected to the telephone line or to the door phone line. So the user can access the telephone or door phone line by entering codes.

By default, the interface is preset in mode **A**.

# 1 TELEPHONE SERVICES ON TRUNK LINES AND USE

## 1.1 CALL ON TRUNK LINE

The interface uses only the multi-frequency dialling mode (MF).

**To perform a call on trunk line with the interface in mode A (the line is already present on the telephone):**
1. Pick the handset up and wait for the dialling tone.
2. Select the desired number.

**To perform a call on trunk line with the interface in mode B:**
1. Pick the handset up and wait for the dialling tone.
2. Select the number to seize the telephone line, by entering the programmed code (Italy 0 or foreign countries 9).

| MODE | ITALY | FOREIGN COUNTRIES |
|---|---|---|
| CODE TO BE ENTERED | 0 | 9 |

3. Wait for the dialling tone.
4. When the dialling tone is heard, dial the number to be called; start dialling **within 10 seconds**.

## 1.2 ANSWER TO AN EXTERNAL CALL

A call coming from a trunk line is signalled by the external call ringing cadence.

**To answer:**
1. Pick the handset up and start with conversation.

## 1.3 DISABLING

The telephone is disabled if, 20 seconds after picking up the handset of one of the devices, no operation is performed or a wrong or not allowed operation is performed, regardless of the selected operating mode (A or B).
If the mode B has been selected, after 10 seconds the interface sends an alert tone. To activate again the telephone, hang the handset up.

## 1.4 EMIT A FLASH (R) ON THE TRUNK LINE

Some telephone services require to emit a FLASH on the trunk line. To do this, press twice **R** or **twice the sequence # #**. The flash will be emitted on the line and it will be possible to go back in conversation with the same.

| MODE | BCA MODE | COMBIPHONE MODE |
|---|---|---|
| CODE TO BE ENTERED | R | RR |

### 1.5 PUT IN HOLD MODE AN EXTERNAL TELEPHONE CONVERSATION

It is possible to put in hold mode a telephone conversation in progress, without stopping the connection, in order to reactivate it after.

To put an external conversation in hold mode, enter **R** or **# #**, the external user receives a waiting tone.

| MODE | BCA MODE | COMBIPHONE MODE |
|---|---|---|
| CODE TO BE ENTERED | # # | R |

To reactivate the external conversation, enter **R** or **# #**, according to the interface programming.

If, during the hold time, the handset is hung up, will be received a return call from the line in hold state, for a maximum time of 3 minutes, after which the call is closed. Until that moment, the external line stays in hold mode.

## 2 TELEPHONE SERVICES CONNECTED TO THE DOOR PHONE RAISER

In this chapter are described the door phone services available with any keypad telephone (interface set in BCA mode), with a Urmet combiphone or with a Director2 telephone (interface set in Combiphone mode).

The use of these services becomes easier if is used an Urmet combiphone or a Director2 telephone, because there are dedicated buttons for the following door phone functions:

| Description | Code | Ref. 1332/1 | Ref. 4091/1 | Ref. 4091/5 | Ref. 4099/45 |
|---|---|---|---|---|---|
| Connection to door unit | R34 |  |  |  |  |
| ATT1 door opener relay activation | R35 |  |  |  |  |
| ATT2 door opener relay activation | R37 |  | - - | - - |  |
| Call to HRB system concierge switchboard | R36 |  | - - | - - | - - |

*For association of codes with respective dedicated buttons, see the booklets provided with combiphones or telephones.*

Door phone calls are signalled on the door unit by an acoustic tone of call confirmation. This tone is sent from the telephone interface and, if desired, it can be deactivated by a programming procedure with the telephone (refer to programming chapter).

### 2.1 CONNECTION TO DOOR PHONE UNIT WITHOUT CALL (IN STANDBY)

**To connect to the door phone unit without receiving a call from the door phone, it is needed:**

1. Pick the handset up and enter one of the codes indicated in the table, according to the programmed mode (BCA or combiphone) and the desired function.

| MODE | BCA MODE | COMBIPHONE MODE |
|---|---|---|
| Connection to door unit 1 without call | # # 4 | R34+1 |
| Connection to door unit 2 without call | # # 5 | R34+2 |

## 2.2 CALL TO HRB SYSTEM SWITCHBOARD

**To call the attendant station of HRB system it is needed:**

1. Pick the handset up and enter the code indicated in the table, according to the programmed mode (BCA or combiphone).

| MODE | BCA MODE | COMBIPHONE MODE |
|---|---|---|
| Call to HRB system or to switchboard | # # 6 | R36 |

## 2.3 ANSWER TO DOOR PHONE CALLS COMING FROM DOOR UNIT 1 OR DOOR UNIT 2

The door phone call is signalled on the telephones by a different ringing cadence according if it comes from the door unit 1 or 2. The first user that answers is connected to the door phone station, while all the other extension lines stop ringing. The call coming from the door unit 1 will be signalled by 2 rings and one pause, repeated for the programmed time. The call coming from the second door unit will be signalled from 4 rings and one pause, repeated for the programmed time (refer to tables, page 24).

**To answer to a door phone call by telephone:**

1. Pick the handset up and start with conversation.

## 2.4 ANSWER TO DOOR PHONE CALLS DURING CONVERSATION ON TRUNK LINE

If, during a conversation in progress with the trunk line, is received a door phone call, signalled by the ring tone, it is possible to put the first call in hold mode and answer the second one. It is also possible to move from a conversation to the other, i.e. are present two communications at the same time: one of them is active, the other one is in hold mode.

**To put in hold mode a conversation on trunk line and answer an incoming door phone call, enter:**

| MODE | BCA MODE | COMBIPHONE MODE |
|---|---|---|
| CODE TO BE ENTERED | # # 3 | R34 |

The user on the trunk line is put in hold mode and receives the ringing tone.
The conversation is transferred on the door phone.

**To disconnect from the door phone unit and reactivate the communication in hold mode, enter:**

| MODE | BCA MODE | COMBIPHONE MODE |
|---|---|---|
| CODE TO BE ENTERED | # # 3 | R34 |

By hanging the handset up during the door phone communication, there is a return call coming from the trunk line in hold mode.

## 2.5 ANSWERING MACHINE ON DOOR PHONE CALL

This service allows to record the door phone calls in the answering machine, if a door phone call does not receive an answer within a max. programmed time. The answering machine sends the recording message to the door phone and records the message for a max. programmed time; when the time is elapsed, it closes the communication. Connect the answering machine to an extension line; set the time for its intervention shorter than the door phone call time; in this way, if no apartment station answers, the answering machine will send the message to the door phone unit.

**Warning**: the answering machine must have a limit for the length of the message to be recorded, and must not wait for an alert tone or silence to disconnect the door phone line. If it is not desired that the answering machine is activated by the door phone calls, connect it directly on the telephone line before the telephone interface; in this way, the answering machine will not receive the calls coming from the door phone.

## 2.6 OPENING OF AN EXTERNAL DOOR WITHOUT DOOR PHONE CALL

**To activate the door opening command (relay ATT1 or ATT2) in standby mode, enter the following codes:**

| MODE | BCA MODE | COMBIPHONE MODE |
|---|---|---|
| **ATT1 activation without door phone call** | # # 1 | R35 |
| **ATT2 activation without door phone call** | # # 2 | R37 |

## 2.7 OPENING OF AN EXTERNAL DOOR DURING A CONVERSATION

**To open an external door during a conversation (external or door phone conversation):**

| MODE | BCA MODE | COMBIPHONE MODE |
|---|---|---|
| **ATT1 automatic opening after door phone call 1** | # # 1 | R35 |
| **ATT2 automatic opening after door phone call 2** | # # 1 | R35 |
| **ATT1 activation after door phone call 2** | # # 8 | R38 |
| **ATT2 activation after door phone call 1** | # # 2 | R37 |

The selected relay will be activated and a confirmation tone will be heard in the handset; then the conversation on the line in hold mode will become active again. If the door is opened after a call coming from the door phone, it is not necessary to enter the door number, the system will automatically open the door from which the call is coming, entering a single code ( **# # 1** or **R35**, according to settings). After the confirmation tone, the conversation in progress automatically is resumed.

# 3.0 INTERFACE SERVICES PROGRAMMING

## PROGRAMMING PROCEDURE

To perform all the programming procedures, regardless of the interface operating mode (mode A or mode B), follow the instructions below:

1. Pick the handset up and wait for 20 seconds, until the telephone is disabled.
2. For the first 10 seconds will be heard the dialling tone, for the next 10 seconds the alert tone and then the silence.
3. Enter *** # # ***.
4. The interface will answer with a confirmation tone, to indicate the access to the programming mode.
5. Enter the two digits of the parameter to be programmed (from 01 to 10) and confirm it by pressing *****.
6. Enter the value of the parameter to be programmed and close the programming procedure by entering **#**.
7. The interface confirms the successful programming operation with a tone; if the value is wrong, the interface emits the alert tone.
8. After performing a programming operation it is possible to perform another one, starting by step 5.
9. To close the programming procedure, hang the handset up. Only the parameters confirmed by pressing **#** will be stored.

All the programmed parameters will be stored in a non volatile memory and keep the programmed value also in case of mains fail.

*In the following cases will be emitted an error tone for 3 seconds:*

- *Error during parameter input.*
- *Error during value input.*
- *Wrong dialling during programming procedure.*
- *Fail during data storage.*

**Programming example:**
It is needed to program the closing time of the ATT1 actuator relay contact and set it to 10 seconds. The parameter of the actuator relay 1 is 03 and the value used for 10 seconds is 4. The programming sequence will be the following:

- Pick the handset up, wait for 20 seconds (until no tone in the handset) and enter:
  *** # # * 03 * 4 #**
- After the confirmation tone, hang the handset up.

## 3.1 CODE FOR PARAMETERS RESET

In order to perform a complete reset of the parameters and set them to factory values for Italian version (parameter 08 value 1 of the summarizing table), pick the handset up and enter the RESET code.
*** * * # # # * #**

## 3.2 DTMF CODE PROGRAMMING FOR TRUNK LINE ENGAGEMENT

It is possible to program the code to be entered to access the trunk line, when the interface operates in mode **B**. After entering in the programming procedure following the previously described steps, enter the number of parameter 01 and the desired value, according to the table below. By default, is set the value 1, i.e. engagement with digit 0.

| **Parameter** | **01** | |
|---|---|---|
| **Value** | 1 | 2 |
| **DTMF command for engagement** | 0 | 9 |

*When the interface is programmed in mode **A**, remember that the trunk line is directly present on the connected telephones, without entering any code.*

## 3.3 TELEPHONE TYPE PROGRAMMING: COMBIPHONE OR BCA

It is possible to select the telephone type used in the system. Select between:

- BCA telephone (a common telephone with DTMF dialling)
- Combiphone or Director2 telephone: with these telephones will be available some buttons for simplified functions.

After entering in the programming procedure following the previously described steps, enter the number of parameter 02 and the desired value, according to the table below. By default, is set the value 1, i.e. Combiphone.

| **Parameter** | **02** | |
|---|---|---|
| **Value** | 1 | 2 |
| **Telephone type** | Combiphone | BCA |

*Remember that, regardless of the selected mode (BCA or COMBIPHONE), telephones must be set for DTMF dialling.*

## 3.4 PROGRAMMING PROCEDURE OF ATT1 RELAY ACTIVATION TIME

It is possible to program activation times of the ATT1 actuator relay. After entering in the programming procedure following the previously described steps, enter the number of parameter 03 and the desired value, according to the table below. By default, is set the value 1, i.e. 1 second.

| **Parameter** | **03** | | | |
|---|---|---|---|---|
| **Value** | 1 | 2 | 3 | 4 |
| **Activation type** | 1 s | 2 s | 4 s | 10 s |

## 3.5 PROGRAMMING PROCEDURE OF ATT2 RELAY ACTIVATION TIME

It is possible to program activation times of the ATT2 actuator relay. After entering in the programming procedure following the previously described steps, enter the number of parameter 04 and the desired value, according to the table below. By default, is set the value 1, i.e. 1 second.

| **Parameter** | **04** | | | |
|---|---|---|---|---|
| **Value** | 1 | 2 | 3 | 4 |
| **Activation type** | 1 s | 2 s | 4 s | 10 s |

## 3.6 FLASH TIME (R) PROGRAMMING PROCEDURE

It is possible to program the FLASH identification time (button R). This time depends on the telephone type used in the system; for Italy is usually 100 milliseconds, but for other countries and telephones it could be necessary to change it. After entering in the programming procedure following the previously described steps, enter the number of parameter 05 and the desired value, according to the table below. By default, is set the value 1, i.e. 100 ms.

| **Parameter** | **05** | | | | |
|---|---|---|---|---|---|
| **Value** | 1 | 2 | 3 | 4 | 5 |
| **Activation type** | 100 ms | 270 ms | 400 ms | 600 ms | 900 ms |

*The FLASH button is the same as R button.*

## 3.7 PROGRAMMING PROCEDURE FOR THE DURATION OF THE DOOR PHONE CALL

It is possible to program the door phone call duration time.
After entering in the programming procedure following the previously described steps, enter the number of parameter 07 and the desired value, according to the table below. By default, is set the value 2, i.e. 10 seconds.

| **Parameter** | **07** | | | |
|---|---|---|---|---|
| **Value** | 1 | 2 | 3 | 4 |
| **Activation type** | 5 s | 10 s | 20 s | 30 s |

## 3.8 COUNTRY SELECTION

It is possible to select the country where the interface will be used. According to the country selection, country specific parameters will automatically change, as per the table below.
After entering in the programming procedure following the previously described steps, enter the number of parameter 08 and the desired value, according to the table below. By default, is set the value 1, i.e. Italy.

| **Parameter** | **08** | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| **Value** | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| **Activation time** | Italy | France | Belgium | Israel | Holland | Ireland | Czech Rep. | Hungary | England |

**Factory values** table. At the power-up, are loaded the following parameters used for Italy, if they have not been changed.
In case of a different country, identify the most similar characteristics among the desired ones.

| | Line engagement | Combiphone BCA | ATT1 relay | ATT2 relay | FLASH | Door phone call | Country | Mode A/B | TONE |
|---|---|---|---|---|---|---|---|---|---|
| **Parameter** | **01** | **02** | **03** | **04** | **05** | **07** | **08** | **09** | **10** |
| **Italy (default)** | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 1 |
| **France** | 1 | 1 | 4 | 4 | 3 | 2 | 2 | 1 | 1 |
| **Belgium** | 1 | 1 | 1 | 1 | 1 | 2 | 3 | 1 | 1 |
| **Israel** | 2 | 2 | 3 | 3 | 4 | 3 | 4 | 1 | 1 |
| **Holland** | 1 | 1 | 1 | 1 | 1 | 2 | 5 | 1 | 1 |
| **Ireland** | 1 | 1 | 1 | 1 | 1 | 2 | 6 | 1 | 1 |
| **Czech Republic** | 1 | 1 | 1 | 1 | 1 | 2 | 7 | 1 | 1 |
| **Hungary** | 1 | 1 | 1 | 1 | 1 | 2 | 8 | 1 | 1 |
| **England** | 1 | 1 | 1 | 1 | 1 | 2 | 9 | 1 | 1 |

## 3.9 A OR B MODE PROGRAMMING PROCEDURE

It is possible to program the interface mode in mode A or mode B.
After entering in the programming procedure following the previously described steps, enter the number of parameter 09 and the desired value, according to the table below. By default, is set the value 1, i.e. mode A.

| **Parameter** | **09** | |
|---|---|---|
| **Value** | 1 | 2 |
| **Operating mode** | A | B |

*In mode **A**, the trunk line is directly connected to the telephone as soon as the handset is picked up. In mode **B**, the trunk line is not directly connected to the telephone and it is necessary to enter a code, in order to seize it.*

## 3.10 PROGRAMMING PROCEDURE FOR CONFIRMATION TONE OF A DOOR UNIT CALL

It is possible to enable a confirmation tone for a call coming from the door unit, i.e. after pressing the call button, the external user will heard a tone that signals the call forwarding to the apartment.
After entering in the programming procedure following the previously described steps, enter the number of parameter 10 and the desired value, according to the table below. By default, is set the value 1, i.e. the confirmation tone is enabled.

| **Parameter** | **10** | |
|---|---|---|
| **Value** | 1 | 2 |
| **Call tone on door unit** | ON | OFF |

**TABLE OF TONE AND SIGNALLING**

| Tone to apartment stations | Timing | Meaning |
|---|---|---|
| Dial tone | Continuous | The interface is waiting for dialling |
| Deactivation or error | 200 ms / 200 ms | Wrong operation |
| Confirmation | 100 ms / 100 ms / 100 ms / 100 ms / 100 ms / 1500 ms | Service/programming confirmation accepted |
| Door phone call notice | 0,1 s / 4,9 s | Presence of door phone call |
| Telephone call notice | 0,1 s / 4,9 s | Presence of telephone call |
| On hold | 0,1 s / 4,9 s | The caller has been put in hold mode |

**TABLE OF CALL TIMES AND SIGNALLING**

| Call | Timing for Italy |
|---|---|
| External | 1000 ms / 4000 ms |
| Back from hold | 1000 ms / 4000 ms |
| Doorbell 1 door phone | 0,25 s / 0,5 s / 0,25 s / 3,85 s |
| Doorbell 2 door phone | 0,25 s / 0,5 s / 0,25 s / 0,5 s / 0,25 s / 0,5 s / 0,25 s / 2,35 s |

# 4.0 TECHNICAL CHARACTERISTICS

## ELECTRICAL CHARACTERISTICS

Power supply: **12 Vac ± 10% 50/60 Hz**
Current consumption: **3 VA (standby) 10 VA (max)**
No load voltage: **on telephone terminal pins: 24 Vdc< Vbat <52 Vdc**
Protection: **electronic**
Multi-frequency dialling: **Are transferred the characteristics of BCA connected to the telephone line**

Relay outputs characteristics:
Switching voltage: **63 Vac max**
Switching current **1 Amax**
Programmable contact closing time: **1 s - 2 s – 4 s – 10 s**

Operational temperature: **5 ÷ 40 °C**
Relative humidity: **10 ÷ 90%**

## DIMENSIONS AND ASPECT CHARACTERISTICS

DIN modules **6**
Plastic finishing: **satinized for all external surfaces (in ABS)**
Weight: **about 330 g**
Colour: **Grey RAL 7038**

The dimensions are:
Width: **105 mm**
Height: **65 mm**
Depth: **90 mm**

# SUMMARIZING TABLE FOR PROGRAMMING

| CODE FOR TELEPHONE LINE ENGAGEMENT | | |
|---|---|---|
| PARAMETER | VALUE | |
| **01** | 1 | 2 |
| FUNCTION | 0 | 9 |

| TELEPHONE TYPE COMBIPHONE/BCA | | |
|---|---|---|
| PARAMETER | VALUE | |
| **02** | 1 | 2 |
| FUNCTION | Combiphone | BCA |

| ATT1 RELAY ACTIVATION TIME | | | | |
|---|---|---|---|---|
| PARAMETER | VALUE | | | |
| **03** | 1 | 2 | 3 | 4 |
| FUNCTION | 1 s | 2 s | 4 s | 10 s |

| ATT2 RELAY ACTIVATION TIME | | | | |
|---|---|---|---|---|
| PARAMETER | VALUE | | | |
| **04** | 1 | 2 | 3 | 4 |
| FUNCTION | 1 s | 2 s | 4 s | 10 s |

| FLASH BUTTON (R) IDENTIFICATION TIME | | | | | |
|---|---|---|---|---|---|
| PARAMETER | VALUE | | | | |
| **05** | 1 | 2 | 3 | 4 | 5 |
| FUNCTION | 100 ms | 270 ms | 400 ms | 600 ms | 900 ms |

| DOOR PHONE CALL DURATION | | | | |
|---|---|---|---|---|
| PARAMETER | VALUE | | | |
| **07** | 1 | 2 | 3 | 4 |
| FUNCTION | 5 s | 10 s | 20 s | 30 s |

| COUNTRY OF USE | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| PARAMETER | VALUE | | | | | | | | |
| **08** | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| FUNCTION | Italy | France | Belgium | Israel | Holland | Ireland | Czech Republic | Hungary | England |

| OPERATING MODE A/B | | |
|---|---|---|
| PARAMETER | VALUE | |
| **09** | 1 | 2 |
| FUNCTION | A | B |

| CONFIRMATION TONE FOR A DOOR PHONE | | |
|---|---|---|
| PARAMETER | VALUE | |
| **10** | 1 | 2 |
| FUNCTION | ON | OFF |

# 5 INSTALLATION

Fix the interface on the DIN bar in the service panel and then make the connections following the diagrams shown in the next pages.

## TERMINAL PINS DESCRIPTION

| | |
|---|---|
| 2A | Audio output to door unit 1 |
| 2B | Audio output to door unit 2 |
| Ae<br>Be | Trunk line input |
| Au<br>Bu | Telephone line output to indoor system |
| ATT2 | Relay 2 terminal pins |
| ATT1 | Relay 1 terminal pins |
| -CA | Common and door phone calls |
| CA2 | Call input from door unit 2 |
| CA1 | Call input from door unit 1 |
| +6B | Power supply output to door unit 2 |
| +6A | Power supply output to door unit 1 |
| -6 | Door unit common |
| 1A | Audio input from door unit 1 and 2 |
| 0~12 | 12V~ power supply |

## SYSTEM REALIZATION

- The telephone connections must be done using the sheathed telephone twisted cable. If is used a multi-pair cable to internal devices, it is not allowed to use free pairs, if present, for other services, such as: energy, video signals, data transmission. Therefore, according to CEI regulations, cables belonging to incompatible systems, such as those specified, must have different protection tubes and junction boxes.
- The maximum connection length between telephones and the telephone interface is 300m.
- It is possible to connect 5 telephones max. connected in series in a system compliant with the regulations.
- For the connection of the door phone system, use wire sections specified in the system tables.
- The realization of internal telephone systems should be performed by a skilled technical staff.
- Installation and connection to telecommunication network of telephone not approved are not allowed.

## WARNING

**IT IS RECOMMENDED TO INSTALL THE TELEPHONE INTERFACE IN SYSTEMS PROVIDED WITH TELEPHONE AND ELECTRIC LINE SURGE PROTECTOR.**

The main causes of noise on telephone lines and electric power supply networks (that can induce malfunctions or damages to the telephone interface) are referred to:

- Accidental contacts with higher voltage lines (short circuit).
- Electromagnetic coupling with other wires located close to the line.
- Fast load changes, especially for power supply electric lines (electric motors, etc.).
- Transient noise generated by atmospheric events (lightnings).

**TELEPHONE LINES SURGE PROTECTORS**

Protectors must be put not only on the trunk line entering in the telephone interface, but also on the extension line with an outdoor path or on the extension line to which are connected devices with 230V power supply, such as fax, modem, answering machines, cordless phones.

**POWER SUPPLY LINES SURGE PROTECTORS**

It must be connected to the input of the 230V power supply line, on the power supply unit connected to the telephone interface.

**IMPORTANT NOTE**
The protectors ground terminal pin must be connected to the system ground, in order to obtain the correct operation of the devices.

For connections to the power supply line surge protector, pay also attention to connect correctly the phase conductor and the neutral to the respective terminal pins.

**C4.030** SEZIONE DEI CONDUTTORI.
*WIRE CROSS-SECTION AREAS*

| Distanza / *Distance* | m | 50 | 100 | 200 | -- |
|---|---|---|---|---|---|
| Circuito fonico e chiamata *Voice and call circuit* | $mm^2$ | 0,5 | 0,5 | 0,8 | -- |
| Circuito Apriporta *Door opening circuit* | $mm^2$ | 0,5 | 0,8 | 1 | -- |
| Alimentazione / *Power* (+6a, +6b, -6) | $mm^2$ | 0,5 | 0,8 | 1 | -- |

*Le distanze si intendono tra la postazione esterna ed il citofono più lontano.*

*Posare i cavi ad una adeguata distanza dalle linee di potenza (maggiore il più possibile).*

*Se non presenti nello schema, prevedere due conduttori per l'illuminazione dei cartellini della pulsantiera. Utilizzare un trasformatore separato di potenza adeguata.*
*Fino a 15W è consigliato l'utilizzo del trasformatore Sch. 9000/230.*
*Fino a 6W è sufficiente l'utilizzo dell'alimentatore d'impianto.*

*The above distances are between door unit and most distant interface.*

*Lay the wires at a suitable distance from power lines (as far away as possible).*

*If not present in diagram, plan 2 conductors for entrance panel name tag lighting. Use a suitable power transformer.*
*Up to 6W it is sufficient to use installation power supply unit.*
*Up to 15W it is suggested to use Ref. 9000/230 transformer.*

**C4.006** Solo per Mod. Sinthesi: Ponticellare L con G/T.

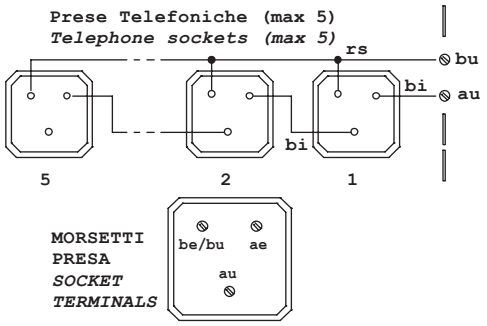
*Synthesis models only: Jump L to G/T.*

**TF.016** TABELLA CONDUTTORI TELEFONICI
*TELEPHONE WIRES TABLE*

| Distanza m *Distance m* | 50 | 100 | 300 | -- | -- |
|---|---|---|---|---|---|
| Conduttori/ *Wires* | Impiegare cavo telefonico 1 coppia (2 x 0,6$mm^2$) *Use twisted telephone cable (2 x 0,6$mm^2$)* | | | | |

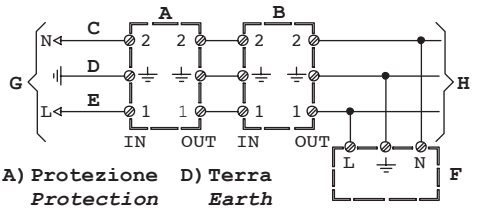
- Posare i cavi a un'adeguata distanza dalle linee di potenza (il più distante possibile).
- *Lay the wires at a suitable distance from power lines (as far away as possible).*

**VL.002** ESEMPIO ESECUZIONE IMPIANTO IN SERIE A SPINA
*SERIES SYSTEM CONSTRUCTION WITH SOCKETS*




**VX.008** Connettere le apparecchiature ad un filtro e a un dispositivo di protezione per la linea d'alimentazione.

*Connect the devices to a filter and power line protection device.*

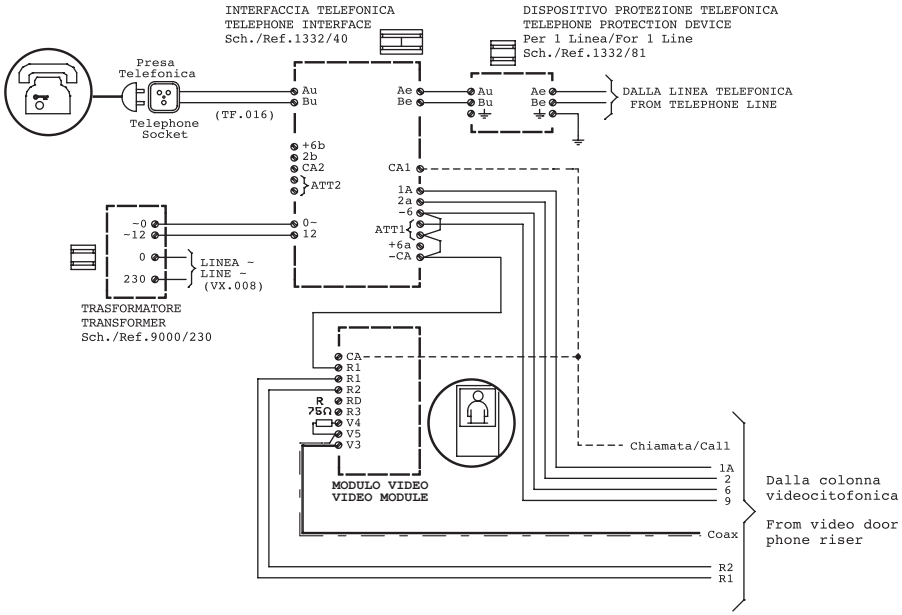



**VX.014** Eventuale interruttore crepuscolare o similare per accensione luce.

*Dusk switch or similar device for switching lights on, where relevant.*

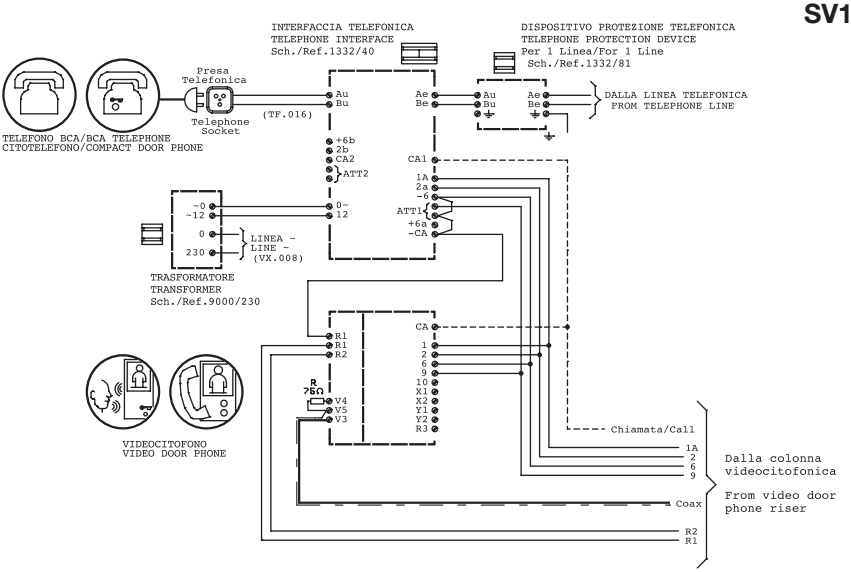
**Collegamento dell'interfaccia telefonica in derivazione dalla colonna videocitofonica coax.**
**Schema per visione in B/N o a colori con modulo video.**
***Connection of telephone interface extension to coax video door phone riser.***
***Wiring diagram for B/W or colour vision with video module.***

**SV104-0314A**




**Collegamento dell'interfaccia telefonica in derivazione dalla colonna videocitofonica coax.**
**Schema per visione in B/N o a colori.**
***Connection of telephone interface extension to coax video door phone riser.***
***Wiring diagram for B/W or colour vision.***

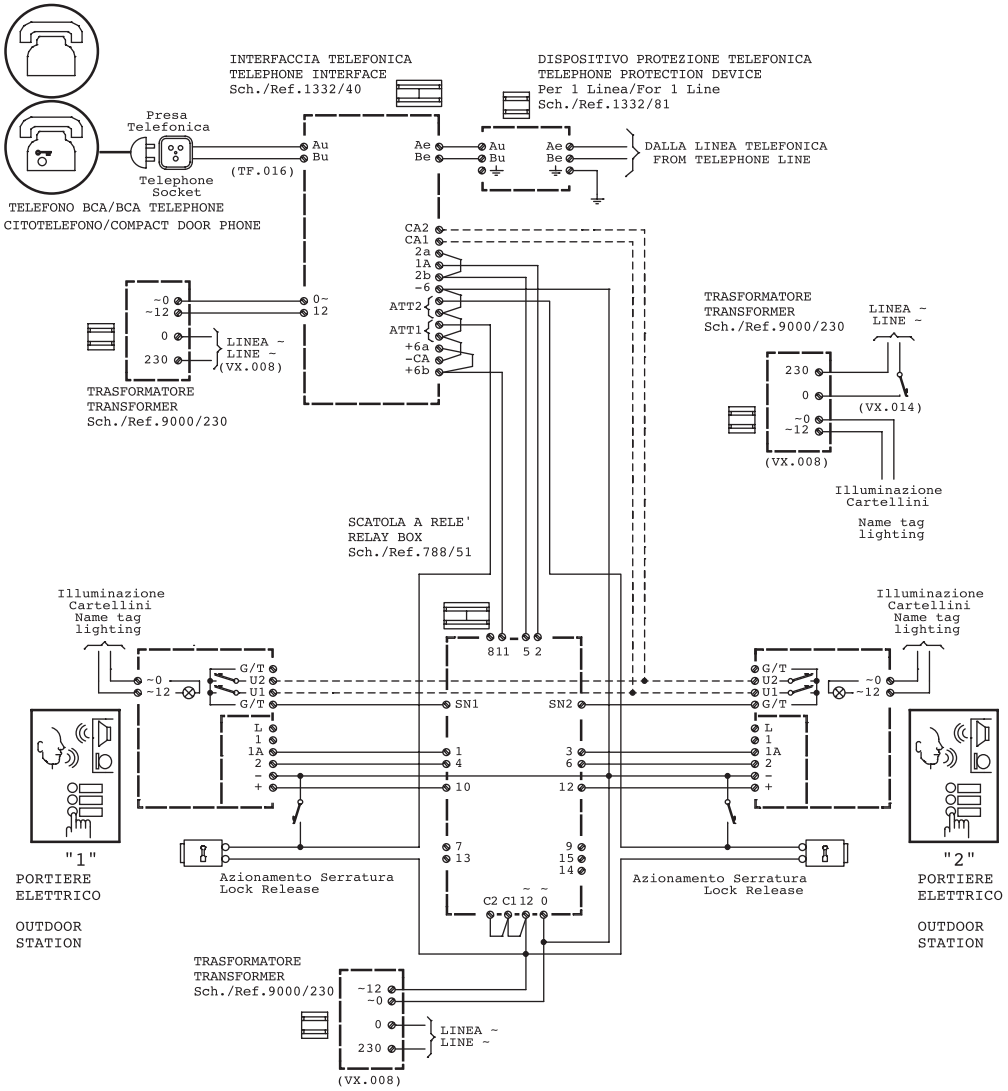
**SV104-0315A**



**Collegamento dell'interfaccia telefonica a 2 portieri elettrici (PE).**
**Due chiamate provenienti dai PE.**
**Soluzione con commutazione tramite scatola a relè.**

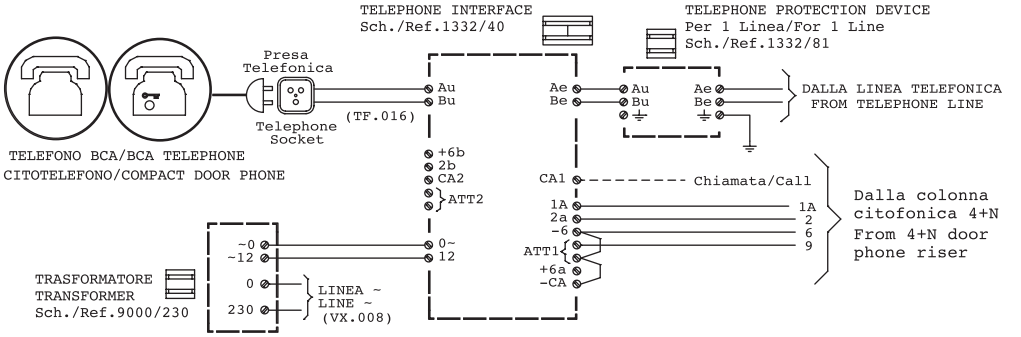
***Connection of the telephone interface to 2 entrance panels (door unit).***
***Two calls coming from door units.***
***Solution based on relay switching box.***

**SC104-0193A**



**Collegamento dell'interfaccia telefonica in derivazione dalla colonna citofonica 4+N.**
***Connection of telephone interface. Connection is an of a extension 4+N door phone riser.***

**SC104-0192A**

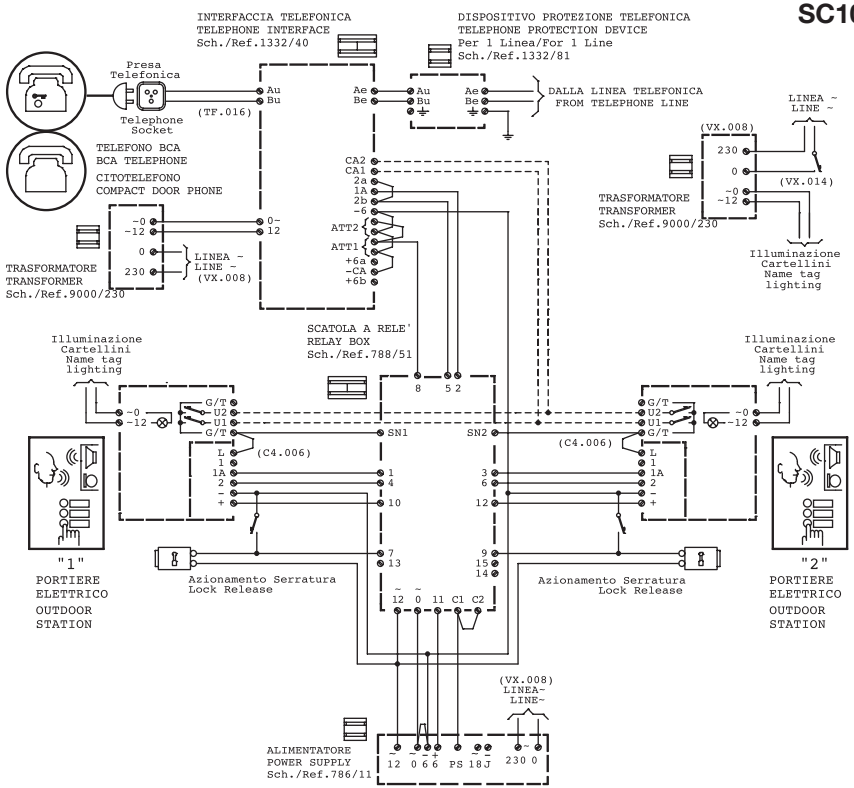



*A seconda del tipo di chiamata presente sull'impianto impostare lo switch dell'interfaccia su 1 o 1A.*

*Set the interface's switch to 1 or 1A depending on the type of Doorphone call present in the installation.*

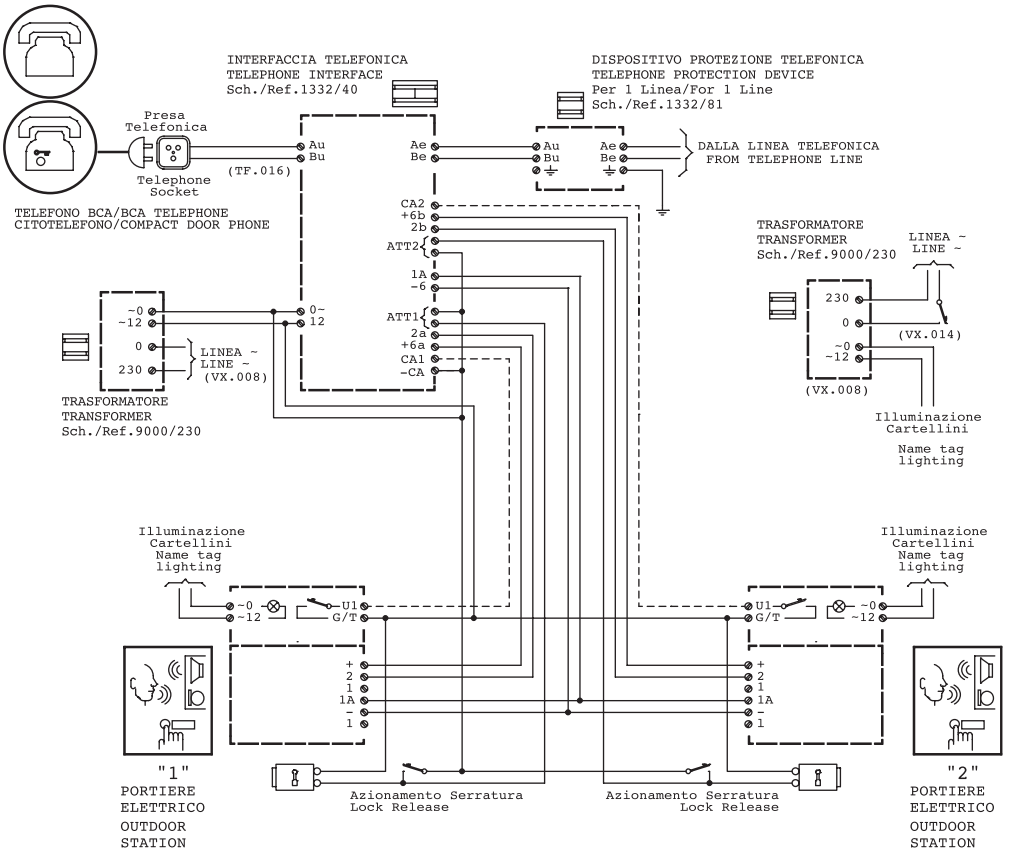
**Collegamento dell'interfaccia telefonica a 2 portieri elettrici (PE). Due chiamate provenienti dai PE. Soluzione con scatola relé Sch.788/51 e alimentatore Sch.786/11.**
**Connection of telephone interface outdoor stations. Two calls from outdoor stations. Variat with relay box Ref. 788/51 and power supply ref.786/11.**

**SC104-0195A**



**Collegamento dell'interfaccia telefonica a 2 portieri elettrici (PE).**
**Chiamata singola e distinta dai PE.**
***Connection of the telephone interface to 2 entrance panels (door unit).***
***Single and separate call from door units.***

**SC104-0163A**




**DS 1332-107D**

**LBT 8367**

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