

DUAL CHANNEL TELEPHONE DIALLER

B-TEL 99



Installation and Quick guide

V4.2 BUS 1.1 071099

CE MADE
IN
ITALY



BENTEL[®]
SECURITY



CONFORMITY DECLARATION

We certify that the telephone dialler

B-TEL99

comply with the guidelines as given in the following standards

Emission:

➤ **EN 50081-1/1992**

Immunity:

➤ **EN 50082-1/1998**

Low voltage:

➤ **EN 60950:1996 + A1:1997**

Intruder alarm system:

➤ **CEI 79/2 2nd Ed. 1993:**

*This device is **approved** by Italian "Ministero delle Comunicazioni" with approval certificates:*

CE Ø166 X

so that this device can be connected to the PSTN line.

Grottammare (AP) 03/12/1999

BENTEL SECURITY reserves the right to modify the technical features of this product without prior notice.



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Installation and Quick guide: DUAL CHANNEL TELEPHONE DIALLER **B-TEL99**
ISTRUZIONI AVVISATORE TELEFONICO B-TEL99 **ISTB-TEL99**

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General features

- Dialler** 2 independent alarm channels with priority management.
- Message choices:
 - Long Common Message of 32 seconds (common to both channels);
 - Two Dedicated Messages of 16 seconds (one message per channel);
 - Short Common Message of 16 seconds (common to both channels)
 - + 2 Brief Dedicated Messages of 8 seconds (one per channel).
 - 255 event logger, each event shows: called telephone number, the trigger channel and call result.
 - Stop alarm cycle/s and Listen-in via remote telephone, by means of modifiable User Command PIN.
 - Stop Alarm by means of modifiable User Command PIN on B-TEL99 keypad.
 - 7 programmable telephone numbers for each channel.
 - Up to 15 digits per telephone number; pauses of 1 or 5 seconds may be entered.
 - Repeats the alarm message for 20, 40, 60 or 80 seconds.
 - Repeats call cycle/s up to 5 times.
 - Stop alarm cycle/s terminal.
 - Access to programming by means of modifiable Installer Command PIN on keypad.
 - Programmable alarm-call activation by positive drop or negative command.
 - "Voice answer detection" option.
 - Protection against accidental battery polarity inversion.
- Telephone line** Test for telephone-line fault and cutting, with anomaly signalling on open-collector output.
- Bypassable "dial tone" check.
 - Electronic telephone-line interface.
 - Over-voltage protection.
 - Programmable as DTMF (tone) or pulse dialling.



- Interface** Digital recording/playback of messages.
- Built-in loudspeaker for message playback.
 - Single digit LED display.
 - Alphanumeric command keypad.
 - Non-volatile memory for programmed data storage.

- Container** Tamper protection.
- Compartment for 12 V - 1.2 Ah battery (not supplied).

Description

The B-TEL99 telephone dialler calls and sends messages to a series of programmed telephone numbers.

The plastic box (ABS) of the B-TEL99 should be mounted near to the control panel.

The B-TEL99 can monitor two different event types (e.g. burglary alarm and fire alarm). It is possible to assign relevant voice messages to each event type.

The messages are recorded on a non-volatile memory which avoids the usual problems connected with magnetic tape such as: message quality loss and mechanical hitches after long periods of device inactivity.

The B-TEL99 has a built-in loudspeaker for recorded message playback (for message quality checks).

The alphanumeric keypad and LED display make parameter programming quick and easy.

The box is protected against tamper and has a compartment for a 12 V - 1.2 Ah battery (not supplied).

■ Alarm cycle

In the event of an alarm status on an alarm channel, the telephone dialler will carry out the alarm cycle, illustrated in figure 1, for each of the telephone numbers programmed for the channel in question.

Phase 1 The telephone dialler switches the telephone line from any connected telephone device or devices (connected to terminals LI) to the B-TEL99 interface.

Phase 2 After 3 seconds the telephone will hook the connected telephone line.

Phase 3 If the **Dial-tone check** is enabled (see "Dial-tone check" programming option 7) the B-TEL99 will check for the dial tone, if the dial tone is detected the B-TEL99 will step to successive phase.

If the dial tone is not detected (option enabled) the B-TEL99 will release the telephone line and step back to phase1.



The **Dial-tone check** will be carried out 4 times, after which the B-TEL99 will step to the successive telephone number, and restart from phase 1.

If this option is disabled the B-TEL99 will step directly to the successive phase.

Phase 4 The B-TEL99 will dial the telephone number (1 to 7) assigned to the alarm channel in alarm status, and will show (one by one) the dialled digits on the display.

Phase 5 If the *Voice answer detection* option is enabled, the B-TEL99 will wait 25 seconds for a voice answer and, when voice answer is detected, the B-TEL99 will step to the successive phase. If, however, the *Voice answer detection* option is disabled, the B-TEL99 will wait 5 seconds after dialling, and then step to the successive phase.

Phase 6 The B-TEL99 will send the assigned alarm message for the alarm channel in question. The message will be played for the programmed **Message playback time** (20, 40, 60 or 80 seconds).

Call cycle The *Call cycle/s* (set during programming) establishes the number of times that each telephone number assigned to the alarm channel in alarm status must be called (1 to 5 times).

✦ Safety regulations state that failed calls must not be redialled for at least 60 seconds (failure due to telephone-line fault, busy line or no answer). However, the B-TEL99 will pause for 60 seconds at the end of each **Call cycle**, or before redialling a telephone number which is part of the **Call cycle** in course.

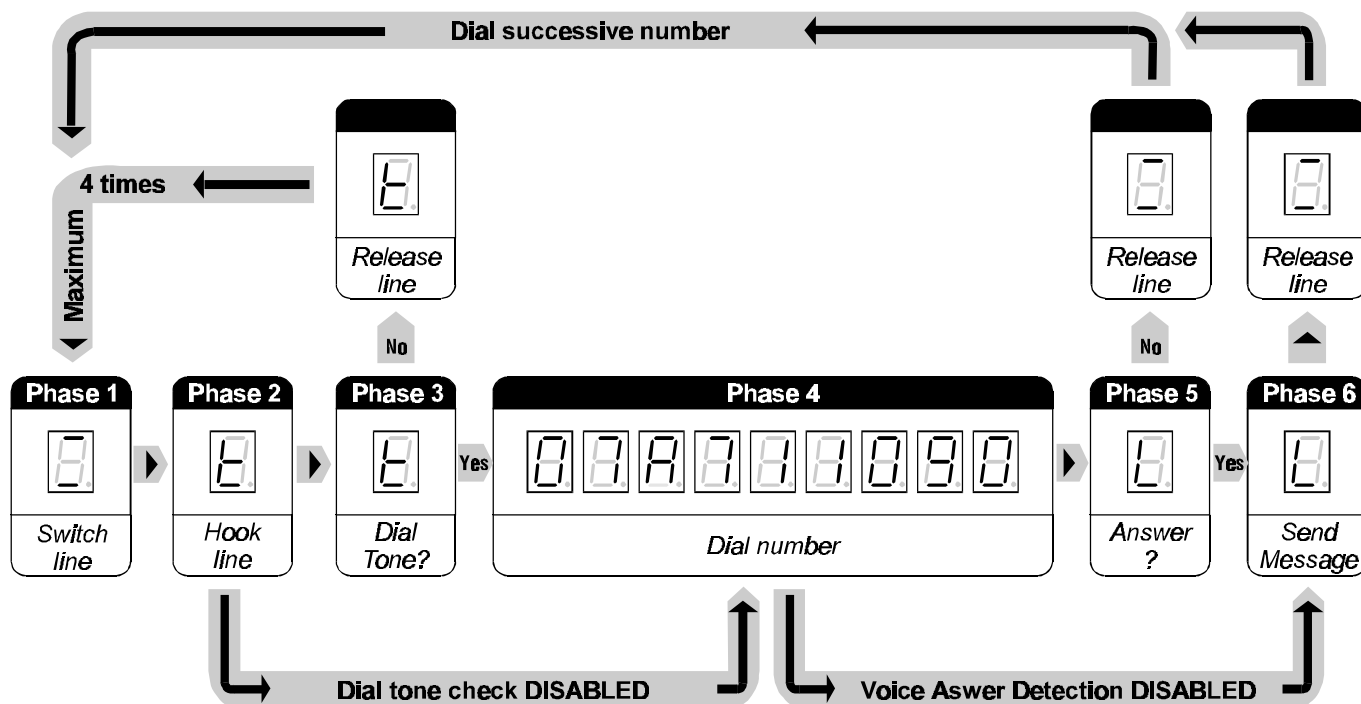


Figure 1 Alarm cycle.



Technical features

Power supply	13.8 V ---
Standby current	15 mA
Operating current	250 mA
Pulse length for alarm channels (L1 and L2)	0.3 s
Tamper line	500 mA - 24 V
Pause between successive calls	5 s
Pause between call attempts	60 s
Dimensions (W*H*D)	132*220*62 mm
Weight (without battery)	1.2 Kg

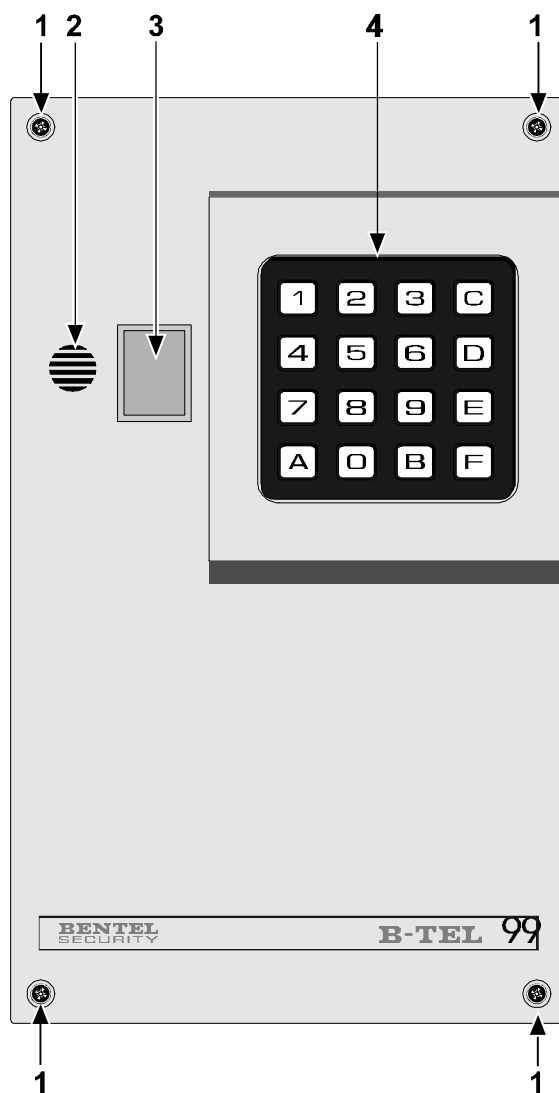


Figure 2

Front panel parts.



Parts

PART N.	DESCRIPTION
1	Screws (4) to secure front panel to backplate.
2	Microphone for message recording.
3	LED display.
4	Alphanumeric telephone type keypad.
5	Holes (4) for backplate mounting (\varnothing 5 mm).
6	Loudspeaker for message playback.
7	Compartment for 12 V, 1.2 Ah battery (not supplied).
8	Cable passage (\varnothing 30 mm).
9	Battery connectors.
10	Hole for microswitch screw.
11	Tamper switch on backplate (optional).

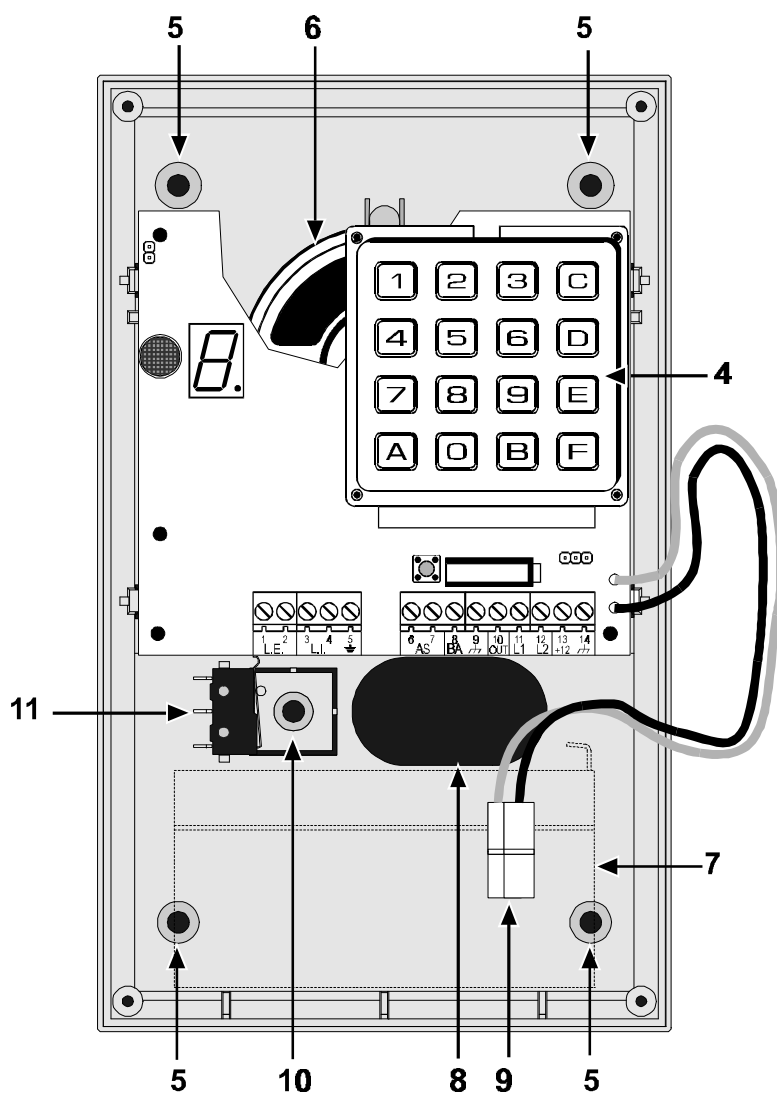




Figure 3 Backplate parts.



PART N.	DESCRIPTION
12	Reset button.
13	Tamper switch.
14	Connection terminal board.
15	Loudspeaker connection.
16	Jumper for activation mode setting:  > actuated by positive drop (default);  > actuated by negative command .

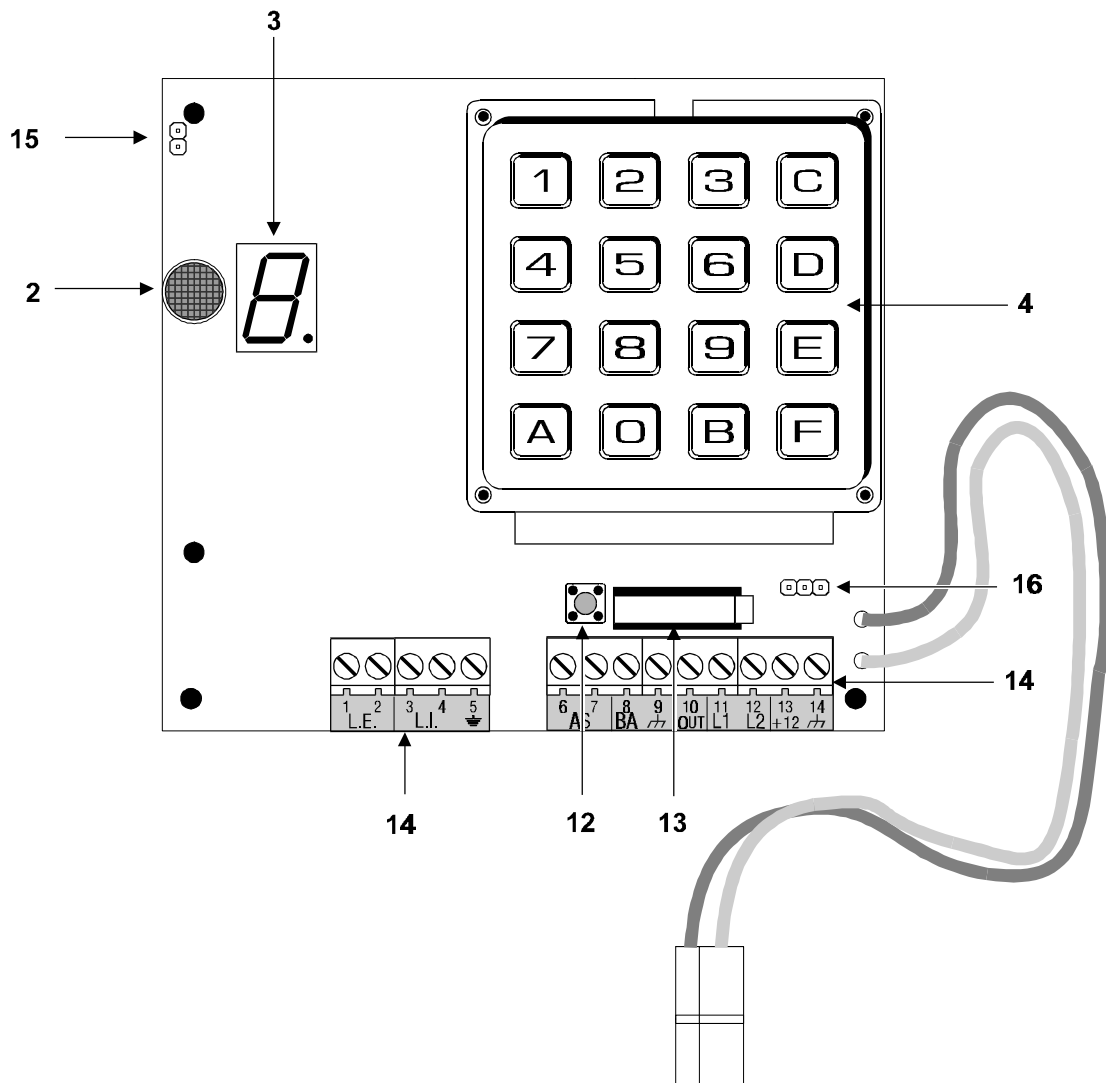


Figure 4 PCB parts.



Mounting

- + Before installing the B-TEL99 please note the following.
 - To allow easy access to the keypad and microphone, and for an adequate view of the display, the B-TEL99 should be installed at a height of about 160 cm.
 - Before drilling the stop holes, check for water pipes and electrical cables. Lay the cables for the B-TEL99 and its devices, and proceed as follows (see the illustrations on pages 8 and 9).
 - Remove the front panel by unscrewing the screws **1**.

ATTENTION When the tamper switch is connected to the corresponding tamper line of a control panel, removal of the front panel, for repair or maintenance, will cause a false alarm. Therefore, it is necessary to disarm the control panel (according to the instructions in the control panel manual) before removing the front panel of B-TEL99.

- Pass the cables through the cable passage **8** then mount the B-TEL99.

Description of the terminals

1-2 [L.E.] External telephone line. Connect the external telephone line to terminals 1-2[L.E.]. The B-TEL99 must be connected before all other line-sharing devices. Connect line-sharing telephone devices to terminals 3-4 [L.I.].

- + In accordance with regulation requirements, terminals 1-2[L.E.] must be connected to the telephone line by means of a telephone plug or by a telephone.

ATTENTION Do not connect telephone devices parallel to terminals 1-2 [L.E.].

3-4 [L.I.] Internal telephone line. These terminals should be used for the connection of line-sharing devices (switchboard, telephone, fax, modem, etc.).

- + In the event of an alarm, the B-TEL99 will hook the telephone line until the programmed alarm cycle/s have been completed.

5 [\perp] Ground.



ATTENTION To comply with the telephone network safety standards, and protect the B-TEL99 from overvoltage on the telephone line, terminal 5[$\frac{1}{-}$] must be connected to Ground of the electrical circuit.

6-7 [AS] Tamper. These normally closed terminals must be connected to the tamper switch/es **13** (on-board), and **11** (not supplied). The tamper switch **13** opens the circuit when the front panel of the B-TEL99 is removed. The optional tamper switch **11** (installed on the backplate, by request) opens the circuit when the B-TEL99 is pulled off the wall. These terminals must be connected to the tamper line of the security system control panel.

8[BA] - 9[$\frac{1}{-}$] **Stop Alarm.** This terminal may be used to stop the alarm cycle/s, from a remote position or by means of a device (usually the control panel of a security system). To stop the alarm cycle/s connect this terminal **momentarily** to Negative.

ATTENTION If terminal 8[B.A.] is used the alarm cycle will be stopped when Negative drops.

10[OUT] **Line fault.** This terminal signals fault on line. Terminal 10[OUT] is an open-collector output (NPN).

11[L1] **Priority alarm channel.** This terminal must be connected to Positive, when Positive drops the B-TEL99 actuates the alarm channel 1 calls.

+ If alarm channel 1 (priority channel) goes into alarm status during the channel 2 cycle/s, the latter will be interrupted by the programmed channel 1 cycles, the remaining channel 2 cycle/s will restart when the channel 1 cycle/s end.

12 [L2] **Secondary alarm channel.** This terminal is for alarm channel 2 activation. When alarm channel 2 is actuated the B-TEL99 starts the alarm channel 2 alarm cycle and sends the programmed messages to the assigned telephone numbers. When Positive drops on this terminal: both alarm channels will go into alarm status and will carry out the programmed cycles.

Activation mode The default programming is for Positive drop. This intrinsic safety function mode also protects against wire-cutting and blackout.

+ If required, it is possible to program activation by Negative command, that is, by connecting the alarm channel to Negative. This function mode is useful in connections with open-collector alarm outputs.

In all cases:

- if the alarm command is permanent, the B-TEL99 will carry out the alarm cycle **once** only;
- the B-TEL99 will complete the alarm cycle even when the alarm command is not permanent.

To stop the alarm cycles in this case:



- connect terminal 8[B.A.] to Negative (terminal 9)
- or enter the User Command PIN on the B-TEL99 keypad.

13[+12] - 14[177] **Power supply.** The B-TEL99 must be powered by 13.8 V \approx 250 mA min.

Basic connections

The basic connections are necessary for the basic functions of the B-TEL99, and are illustrated in figure 5 (highlighted lines) on the following page. Figure 5 illustrates Alarm channel 1 connected to the normally closed contact (NC) of the control panel alarm relay.

- + If the default programming (Positive drop) is to be changed to activation by Negative command, the Alarm channels must be connected to an output that goes to Ground (Negative) in the event of alarm (e.g. open-collector output).

Auxiliary connections

The auxiliary connections are not necessary to the basic functions of the B-TEL99, but offer further functions to this flexible appliance. The connections illustrated in figure 5 are described in the following paragraphs.

Tamper connection The connection of the tamper terminals allows detection of tamper on the B-TEL99 container. These terminals should be connected in series to the tamper line of the alarm system, as shown in figure 5 .

Telephone-line tamper connection The connection of the telephone-line tamper terminal signals telephone-line tamper or cutting. Terminal 10[OUT] is available for connections to a telephone-line switching device.

- + Terminal 10[OUT] is an open-collector output (NPN).

Device connection The B-TEL99 has two Alarm channels. Alarm channel 2 can be used for the connection to the alarm relay of the fire alarm system, to the Duress relay of the security system, or for the connection of a radio receiver (tele-service). The connection example is shown in figure 5: terminals [COM] and (NC) of the device relay must be connected to terminal 13[+12] and to the secondary alarm channel 12[L2] of the B-TEL99.

Stop alarm cycle/s connection By connecting terminal 8[B.A.] to Negative, it will be possible to stop the alarm cycle/s. This feature is useful when:

- the dialler is difficult to reach, for security reasons;
- it is necessary to stop the alarm cycle/s when the Burglar system is disarmed.



In the first case (dialler difficult to reach) connect a button or pulse lock between terminal 8[B.A.] and terminal 9[\nearrow] as illustrated in figure 5. In the second case (to stop alarm cycle/s when the Burglar system is disarmed), terminal 8[B.A.] can be connected to terminal [+ON] of the Burglar system (a terminal with Negative when the system is armed), or to terminal [+OFF] of the Burglar system (a terminal with Positive when the system is disarmed). In the latter case, a 1k5, 1/4 W resistance between terminal [B.A.] and [\nearrow].

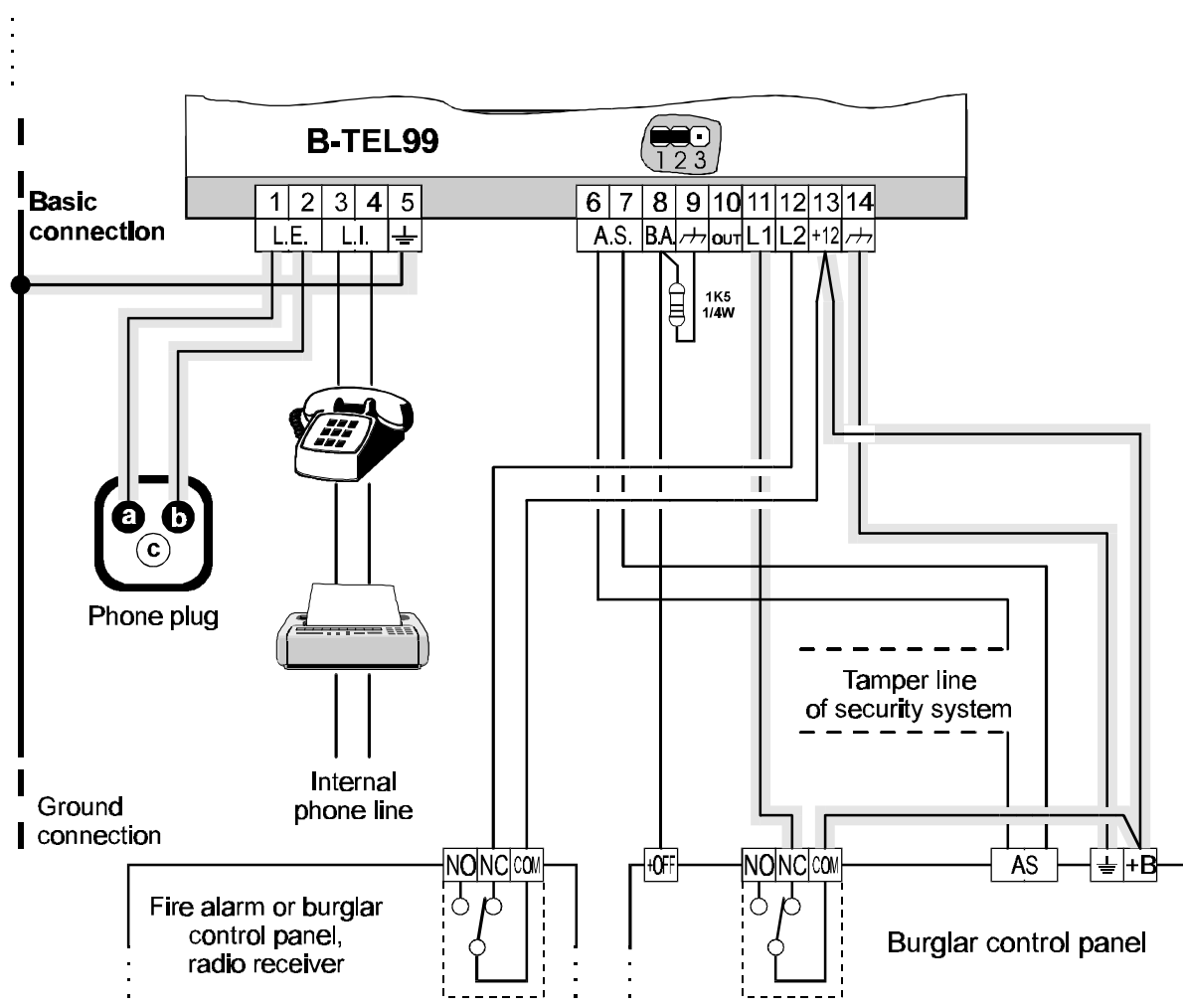


Figure 5 Basic and auxiliary connections.



All the B-TEL99 parameters must be set during the programming phase. The parameters can be set according to installation and user requirements.

The parameters are: Installer PIN Telephone numbers Alarm messages User Command PIN Message management Number of call cycles Message playback time Dialling type (DTMF or Pulse) Dial-tone check Voice answer detection Dial-tone type.

Parameter programming is done on the B-TEL99 dialler keypad with the assistance of the display. It is possible to select the parameter and enter the required value by means of the keys,

- + All the programmed data (including the alarm messages) are stored indefinitely on a non-volatile memory, even in the event of total power failure.

■ Fast Keys

The following keys have specific functions for all parameters.

- E** **Enter.** This key confirms the entered parameter.
- F** **Quit.** This key quits the operation in course, without modifying the current value.
- C** **Cancel.** During the telephone number programming phase, this key cancels any wrong digits entered before pressing **E**.
- D** **Display.** This key allows parameter viewing during the programming phase. For example, to view the set number of call cycles press:
 - **A** **B** to select programming options;
 - **2** to select the option number, in this case call cycles;
 - **D** to view the set value.
- + Check the entered value immediately after pressing **E**.
- + At this point in the procedure it is possible to modify the value by entering the new value and pressing **E** to confirm.

■ New values

To modify a programmed parameter value, just enter the new value over the current value.



INSTALLER PIN

C	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	11
LONG COMMON MESSAGE (32 sec.) - SHORT CHANNEL 1 MESSAGE (16 sec.) - BRIEF DEDICATED CHANNEL 1 MESSAGE (8 sec.)						
B	B	1				none
SHORT CHANNEL 2 MESSAGE (16 sec.) - BRIEF DEDICATED CHANNEL 2 MESSAGE (8 sec.)						
B	B	2				none
SHORT COMMON MESSAGE (16 sec.)						
B	B	3				none
USER COMMAND PIN						
C	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	22
OPTION 1) MESSAGE MANAGEMENT						
A	B	1	1	one 32 sec. message	2	two 16 sec. messages
					3	two 8 sec. messages + one 16 sec. message
OPTION 2) NUMBER OF CALL CYCLES						
A	B	2	1	1 cycle	2	2 cycles
					3	3 cycles
					4	4 cycles
					5	5 cycles
OPTION 3) MESSAGE PLAYBACK TIME						
A	B	3	1	20 seconds	2	40 seconds
					3	60 seconds
					4	80 seconds
OPTION 4) DIALLING TYPE						
A	B	4	1	DTMF	2	PULSE
OPTION 5) DIAL-TONE CHECK						
A	B	5	1	DISABLED	2	ENABLED
OPTION 6) VOICE ANSWER DETECTION						
A	B	6	1	ENABLED without redialling	2	ENABLED with redialling
					3	DISABLED
OPTION 7) DIAL-TONE TYPE						
A	B	7	1	ITALIAN	2	ITALIAN and CONTINUOS
						2

■ Programming chart

The programming chart on the previous two pages will help the installer plan and carry out programming of the B-TEL99 dialler. The chart serves as a programming guide, as it shows (for each parameter) the keys to press (KEY column) the value to enter (DESCRIPTION column) and the factory default (DEFAULT column).

It may be useful for the installer to make a copy of the chart for Installer records (useful when maintenance is required), and for future use as an installation plan for other systems. Blank spaces have been left at the top and bottom of the chart for Installer details. The chart has been designed to be kept inside a loose-leaf folder.

Following is a short description of the items shown in the programming chart.

CUSTOMER (details) Specify the User name, address, telephone and other details.

SYSTEM No. Specify the system number or code.

TESTED ON Specify the date of testing.

CHANNEL 1 (2) Specify the event (Fire/Burglary) which activates alarm channel 1 (2) of the B-TEL99 dialler.

CHANNEL 1 (2) TELEPHONE NUMBERS Specify the digits and pauses of the telephone numbers assigned to channel 1 (2), and customer details.

INSTALLER PIN Specify the Installer PIN (if required).

MESSAGES Specify the contents of the alarm messages .

USER COMMAND PIN Specify the User Command PIN (if required).

+ For security reasons the Installer PIN should not be known to the User, and vice versa.

OPTION 1) MESSAGE MANAGEMENT Specify and highlight (use a fluorescent highlighter pen) the programmed message management.

OPTION 2) NUMBER OF CALL CYCLES Specify and highlight the programmed number of call cycles.

OPTION 3) MESSAGE PLAYBACK TIME Specify and highlight the programmed message playback time.

OPTION 4) DIALLING TYPE Specify and highlight the programmed dialling type.


OPTION 5) DIAL-TONE CHECK Specify the programmed Dial-Tone check status (Enabled/Disabled).


OPTION 6) VOICE ANSWER DETECTION Specify the programmed Voice Answer detection type.

OPTION 7) DIAL-TONE TYPE Specify the programmed dial-tone type.







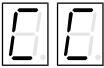













Installer PIN: Access to the programming phase

To access the programming phase of the B-TEL99, open the control panel and press **12** on the board, or enter the default Installer PIN **11** and press .

The display **4** will show the symbol  thus indicating ready status: enter the required parameters.

If no key is pressed within **25 seconds** the dialler will quit the programming phase automatically and return to standby status.

To enter a new Installer PIN proceed as follows:

	<i>Access the programming phase ...</i>		→	
1	Press  twice.	 	→	
2	<i>Wait for the point on the display to start blinking slowly, and then enter the new PIN (up to 5 digits 0 through 9).</i>	    	→	    
3	Press  to enter and confirm.		→	



Telephone numbers

The B-TEL99 can store 7 telephone numbers for each alarm channel: each number can have up to 15 digits and one or more pauses of 1 and/or 5 seconds (e.g. between the area code and the phone number).

Default setting The B-TEL99 has no default telephone numbers.

Programming To program the first number for alarm channel 1 proceed as follows:

	Access the programming phase ...	→	
1	Press	→	
2	Press	→	
3	Press again.	→	
4	Wait for the point on the display to start blinking slowly, and then enter the digits of the telephone number. Press to enter pauses of 1 second, and to enter pauses of 5 seconds.	 → 	
5	Press to stepback, and to cancel any wrong digits.	→ 	
6	Press to enter and confirm the telephone number.	→	

To store the remaining alarm channel 1 telephone numbers, follow steps 1 and 2 of the previously described procedure, but at step 3 press the key which corresponds to the required telephone number (through).



Channel 2 To store alarm channel 2 telephone numbers, follow the entire procedure for alarm channel 1, but at point **2** press key **[2]**.

Display To view the stored telephone numbers, follow steps **1**, **2** and **3** of the telephone number programming procedure, and then press **[D]** to display, in order, the digits of the telephone number in the selected position; any 1 second pauses will be indicated by **[A]** and 5 second pauses by **[B]**.

+ If the selected position is empty (no number) the display will show **[E]**.

Erase To erase a stored telephone number follow steps **1**, **2** and **3** of the telephone-number programming procedure, and then press **[E]** to confirm.

Alarm messages

The Alarm messages are sent to the programmed telephone numbers. The B-TEL99 can store:

- Two Dedicated Messages (16 seconds per message), one for each alarm channel;
- A Long Common Message (32 seconds) for both channels, according to the setting of option n. 1 (see "**OPTIONS**").
- A Short Common Message (16 seconds) for both alarm channels + 2 brief dedicated messages (8 seconds per message), one for each alarm channel (see "**OPTIONS**").

Default setting The B-TEL99 message memory is empty (no default setting).

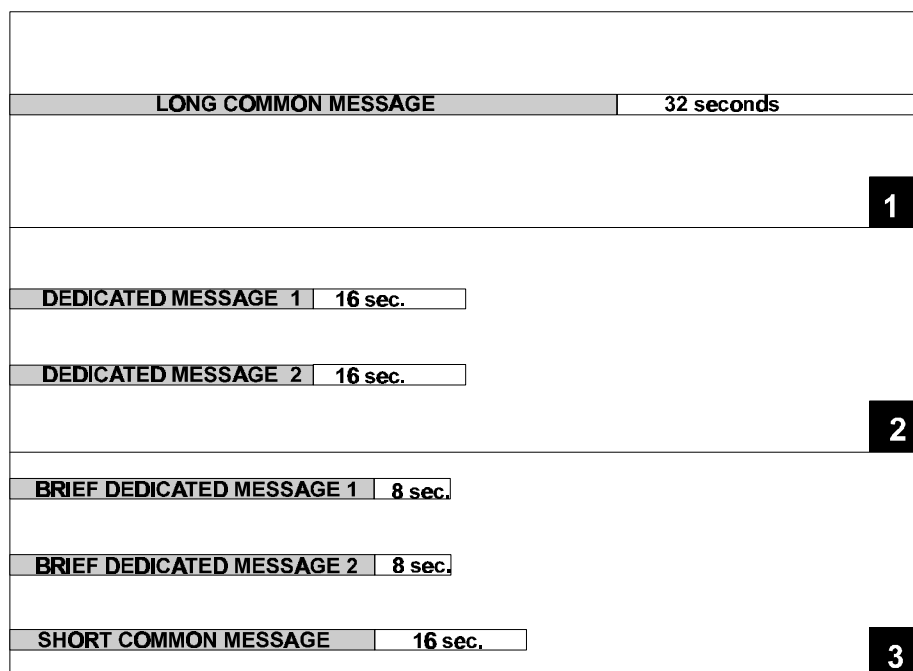


Figure 6

Alarm message: graphic illustration (see option n. 1)



■ Long Common Message - Short Channel 1 Message - Brief Dedicated Channel 1 Message

The alarm channel 1 message/s is/are sent to the programmed telephone numbers (max. 7), when the alarm channel 1 cycle is triggered.

Record To record an alarm message for alarm channel 1 proceed as follows:

	Access the programming phase ...	→	
1	Press	→	
2	Press again.	→	
3	Press	→	
4	Press to start recording.	→	
5	<p>Stand close to the microphone 5 (at approx. 10 cm.) and, for best recording results, record the message in a deep tone of voice. *If option "1" is programmed as "Long Common Message" (common to both channels) the maximum recording time will be 32 seconds. In the event of an alarm, the same message will be sent for alarm channel 1 and alarm channel 2.</p> <p>+ If option "1" is programmed as "Two Dedicated Messages" the maximum recording time will be 16 seconds.</p> <p>+ If option "1" is programmed as "Short Common Message+2 brief dedicated messages" the maximum recording time will be 8 seconds.</p> <p>+ The message countdown will be shown on the display in divisions of ten 0 - 9 - 8 and so forth (0 stands for 10).</p>	→	

Playback To playback the alarm channel 1 message proceed as follows:

	Access the programming phase ...	→	
1	Press	→	
2	Press to select the alarm channel 1 message.	→	
3	Press to start playback.		



■ Alarm Channel 2 Short Message - Brief Dedicated Channel 2 Message

The alarm channel 2 message is sent to the programmed telephone numbers when the alarm channel 2 cycle is triggered.

Record To record the alarm channel 2 message follow the entire recording procedure for the alarm channel 1 message, but at step **3** press key **2**.

- + If option "1" is programmed as "Long Common Message" (common to both channels), it will not be possible to record a message for channel 2.
- + If option "1" is programmed as "Two Dedicated Messages" the maximum recording time will be 16 seconds.
- + If option "1" is programmed as "Short Common Message + 2 brief dedicated messages" the maximum recording time will be 8 seconds.

Playback To playback the alarm channel 2 message/s follow the entire playback procedure for the alarm channel 1 message/s, but at step **2** press key **2**.

■ Short Common Message

If option "1" is programmed as "Short Common Message + 2 brief dedicated messages", the Short Common Message will be sent to the programmed telephone numbers, in the event of an alarm on either alarm channel 1 or 2.

Record To record the "Short Common Message" follow the recording procedure of the alarm channel 1 message, but at step **3** press key **3**.

- + If option "1" is programmed as "Long Common Message" (common to both channels) or "Two Dedicated Messages", it will not be possible to access this phase.
- + If option "1" is programmed as "Short Common Message + 2 brief dedicated messages", the maximum recording time will be 16 seconds.

Playback To playback the "Short Common Message" follow the playback procedure of the alarm channel 1 message, but at step **2** press key **3**.

User Command PIN

The User Command PIN can stop the programmed B-TEL99 call cycle/s during an alarm status, and can be used on the B-TEL99 keypad and on the keypad of the telephone called by B-TEL99 (see "Stop Alarm").

Default setting The B-TEL99 default PIN is **22**.



New PIN To program a new PIN proceed as follows:

	Access the programming phase ...		→	
1	Press		→	
2	Enter the new PIN (up to 5 digits 0 through 9).	 	→	
3	Press to enter and confirm.		→	

User Command fast key

To create a User Command **fast key**, press then consecutively, in this way, in the event of an alarm all the enabled alarm sequences can be stopped by simply pressing .

Options

The eight programmable options are: 1) Alarm Message Management; 2) Number of Call Cycles; 3) Playback Time; 4) Dialling Type; 5) Dial-Tone Check; 6) Voice Answer Detection; 7) Dial-tone type; 8) **RESERVED OPTION** Time Adjustment for Pulse Dialling.

Option 1) Message Management

➤ **Value [1] = Long Common Message**

When **1** is selected the B-TEL99 will assign the Long Common Message (32 seconds) to both alarm channels.

➤ **Value [2] = Two Dedicated Messages**

When **2** is selected the B-TEL99 will assign a Dedicated Message to each alarm channel (16 seconds per message).

➤ **Value [3] = Short Common Message + 2 brief dedicated messages**

When **3** is selected the B-TEL99 will assign the Short Common Message (16 seconds) to both alarm channels, and a brief dedicated message to each alarm channel (8 seconds per message).

+ In the event of an alarm on alarm channel 1, programmed with value **3**, the messages recorded by means of commands will be sent, that is, the brief dedicated message (8 seconds) assigned to alarm chan-

nel 1; **[B]**-**[B]**-**[3]** **[E]** the Short Common Message assigned to both alarm channels (16 seconds).

Default setting The default setting is **2**.

	Access the programming phase ...			[E]
1	Press [A] .	[A]	→	[A]
2	Press [B] .	[B]	→	[B]
3	Press [1] .	[1]	→	[1]
4	Press [1] , [2] or [3] , for example [1] ...	[1]	→	[1]
5	Press [E] to confirm and quit.	[E]	→	[E]

■ **Option 2) Number of call cycles**

The **call cycle option** establishes the number of times the call cycle must be repeated.

- + If alarm channel 1 goes into alarm status during the alarm channel 2 cycles, the latter will be interrupted by the programmed cycles for alarm channel 1 (priority channel), the remaining alarm channel 2 cycles will re-start when alarm channel 1 cycles end.

The B-TEL99 may be programmed to carry out 1, 2, 3, 4 or 5 call cycles.

Default setting The default setting is 4 call cycles.

To set the required number of call cycles proceed as follows.

	Access the programming phase ...			[E]
1	Press [A] .	[A]	→	[A]
2	Press [B] .	[B]	→	[B]
3	Press [2] (option number).	[2]	→	[2]
4	Enter the required number of call cycles by pressing the corresponding key (1 to 5), for example [2] ...	[2]	→	[2]
5	Press [E] to confirm and quit.	[E]	→	[E]



■ Option 3) Message playback time

The **message playback time** option establishes the length of time (20, 40, 60 or 80 seconds) that the message must run for each telephone number.

- + The **message playback time** should not be confused with the **alarm message length**, in fact, the latter is specified in option 1. The above value (length in seconds) will allow the message to be played several times.
- + If option 1 is set as "Short Common Message + 2 brief dedicated messages", and value 3 is set, the message length will be $8+16=24$ seconds, and will run for 60 seconds, that is, two and a half times: $60:24=2.5$ times.

Default setting The default **message playback time** is 40 seconds.

To set the **message playback time** proceed as follows.

	Access the programming phase ...			
1	Press		→	
2	Press		→	
3	Press		→	
	Enter the required message playback time by pressing one of the following keys:			
4	= 20 s; = 40 s; = 60 s; = 80 s. If 40 seconds is required select ...		→	
5	Press to confirm and quit.		→	

■ Option 4) Dialling type

It is possible to select pulse or DTMF dialling, according to the local dialling type, however, when possible select DTMF as it is faster than pulse dialling.

Default setting The default setting is for DTMF.



To set the required dialling type proceed as follows.

	Access the programming phase ...			8
1	Press A .	A	→	A
2	Press B .	B	→	B
3	Press 4 (option number).	4	→	4
	Select the required dialling type by pressing one of the following keys:			
4	1 = pulse dialling; 2 = DTMF dialling. If pulse dialling is required select 1	1	→	1
5	Press E to confirm and quit.	E	→	8

■ Option 5) Dial-tone check

When this option is **disabled**, the B-TEL99 will dial the numbers, assigned to the alarm channel in alarm status, without checking for the dial tone.

If, however, this option is **enabled**, the B-TEL99 will dial the programmed numbers only when the **dial-tone** is detected, otherwise, it will release the telephone line and restart the alarm cycle with the same telephone number: after 4 attempts the B-TEL99 will abandon the telephone number and step to the successive number.

- + This option must be disabled during the test phase (telephone line disconnected), and also when the B-TEL99 is connected to telephone networks with non-standard tones.

Default setting The default setting is **1** "Disabled".

To enable/disable proceed as follows.

	Access the programming phase ...			8
1	Press A .	A	→	A
2	Press B .	B	→	B
3	Press 5 .	5	→	5
	Set the dial-tone check as required by pressing one of the following keys:			
4	1 = Disabled 2 = Enabled	1 or 2	→	1 or 2
5	Press E to confirm and quit.	E	→	8






















Option 6) Voice answer detection

This option may have 3 values:

- **Value [1]:** *Voice answer detection* enabled **without** redialling of successful calls during the successive cycles.
- + For example, if alarm channel 2 goes into alarm status, and is set for 3 call cycles, the B-TEL99 will call the first enabled telephone number assigned to alarm channel 2.
With this function mode, if the first telephone number dialled is successful it will not be dialled during the successive call cycle.
- **Value [2]:** *Voice answer detection* enabled **with** redialling of successful calls.
- + If the number of call cycles (option 2) is set as 1 there will be no difference between the two above mentioned settings.
- **Value [3]:** *Voice answer detection* disabled with 5 second message delay after dialling.

Default setting *Voice answer detection* enabled **without** redialling of successful calls (value 1).

To set the "*Voice answer detection*" option proceed as follows.

	Access the programming phase ...			
1	Press  .		➔	
2	Press  .		➔	
3	Press  (option number).		➔	
	Select the required setting as follows:  = <i>Voice answer detection</i> enabled without redialling of successful calls;  = <i>Voice answer detection</i> enabled with redialling of successful calls;  = <i>Voice answer detection</i> disabled. If  is selected ...			
4			➔	
5	Press  to confirm and quit.		➔	






















■ Option 7) Dial-tone type

It is possible to select [1]: Italian territory dial tone; [2]: Italian territory dial tone and continuous tone.

- + This option is active when **2** (dial-tone check enabled) is selected for option **5**.

Default setting The default setting is [2]: both tones recognised.

Select the dial-tone type as follows.

	Access the programming phase ...			
1	Press  .		→	
2	Press  .		→	
3	Press  (option number).		→	
4	Select the dial-tone type:  = Italian dial tone only;  = Italian and continuous tone.	 or 		 or 
5	Press  to confirm and quit.		→	

Activation mode

By means of the jumper **16** it is possible to program B-TEL99 activation by **positive drop** or **negative command**.

Default setting The default setting is activation by positive drop.

To set the activation mode proceed as follows:

- remove the four screws **5** and the cover of the B-TEL99;
- position the jumper **16** between pins 1 and 2 for activation by **positive drop**;
- position the jumper **16** between pins 2 and 3 for activation by **negative command**.



The B-TEL99 requires little user intervention: the only manual intervention that may be required is the Stop alarm cycle/s command.

The user may also change the programmed parameters of the B-TEL99 (see "Programming").

ATTENTION In the event of an alarm status, all telephone devices connected after the B-TEL99 will be isolated until the end of the programmed call cycle/s. When the alarm cycles end or are stopped, the telephone line will be released.

Stop Alarm

In the event of false alarms, the alarm cycle/s can be stopped in the following ways.

From keypad

By entering the User Command PIN followed by **[E]**.

If, for example, the User Command PIN is **[1][7][5][6][9]** press the corresponding keys followed by **[E]**: all the alarm cycle/s will be stopped immediately.

To check that the B-TEL99 is disarmed (after a stop alarm cycle/s command). **Press any key** on the keypad; the display should remain blank, if not, repeat the stop alarm procedure, as above.

Auxiliary command

Alarm cycle/s can also be stopped by connecting terminal **[B.A.]** to an electric lock, a control panel, a radio receiver or other such device. Ask your installer for this option.

Stop Alarm cycles via telephone

To stop the alarm cycle/s via remote telephone, dial the **User Command PIN** and press **[#]** on the telephone keypad, **before** the dialler call ends.

The **[#]** key corresponds to **[E]** on the B-TEL99.

+ This operation is possible on DTMF telephones only.



Listen-in

To Listen-in on the protected ambient (via the remote telephone called by the dialler) proceed as follows.

Enter the User Command PIN then press [*].

- + To stop the alarm cycle/s during remote Listen-in, enter the User Command PIN followed by [#], **before** the dialler call ends.

The initial Listen-in time is 40 seconds.

Press [*] at any point in the message to refresh (for a further 40 seconds) the Listen-in time.

Auxiliary The B-TEL99 has an auxiliary command which stops the alarm cycle/s, this can be connected to an electric lock, burglar control panel, radio receiver or other similar devices. The installer will enable this command if required.

ATTENTION Qualified persons only should install and program the B-TEL99, if proper functioning is to be guaranteed.
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