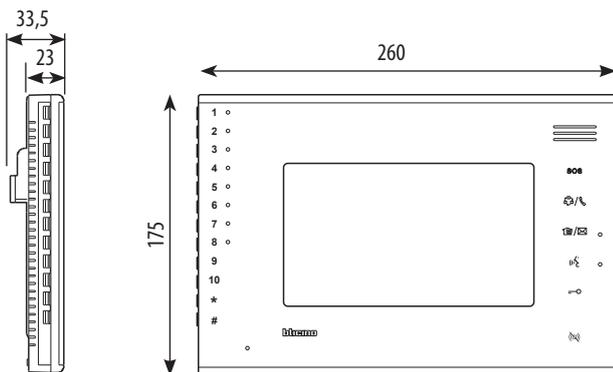


**Description**

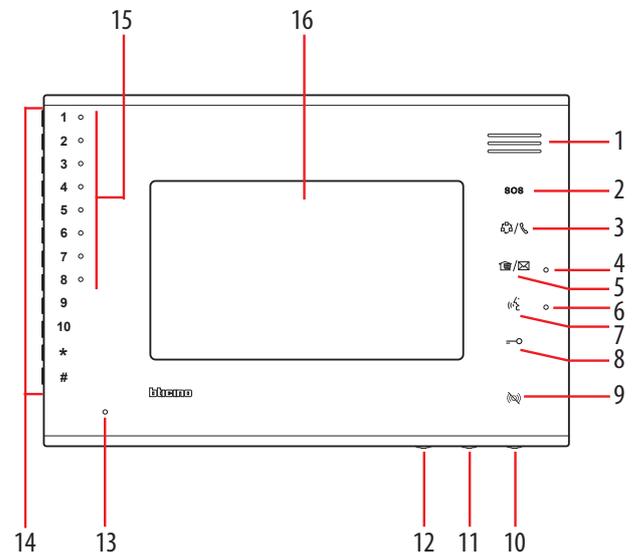
D45 System indoor handsfree video handset with 7" analogue LCD LED backlit display. Complete door entry functions with alarms management. International standard SOS pushbutton and keyboard for intercom function and programming device. Direct call to switchboard function. 12 ring tones selectable for different call types. Surge protection. Wall mount installation.

**Technical data**

LCD display resolution: 480 x 234  
 Power supply : 30 Vdc  
 Stand by absorption: ≤ 20 mA @ 30 V  
 Max. operating absorption: ≤ 145 mA @ 30 V  
 Operating temperature: (-10)-(+40)°C

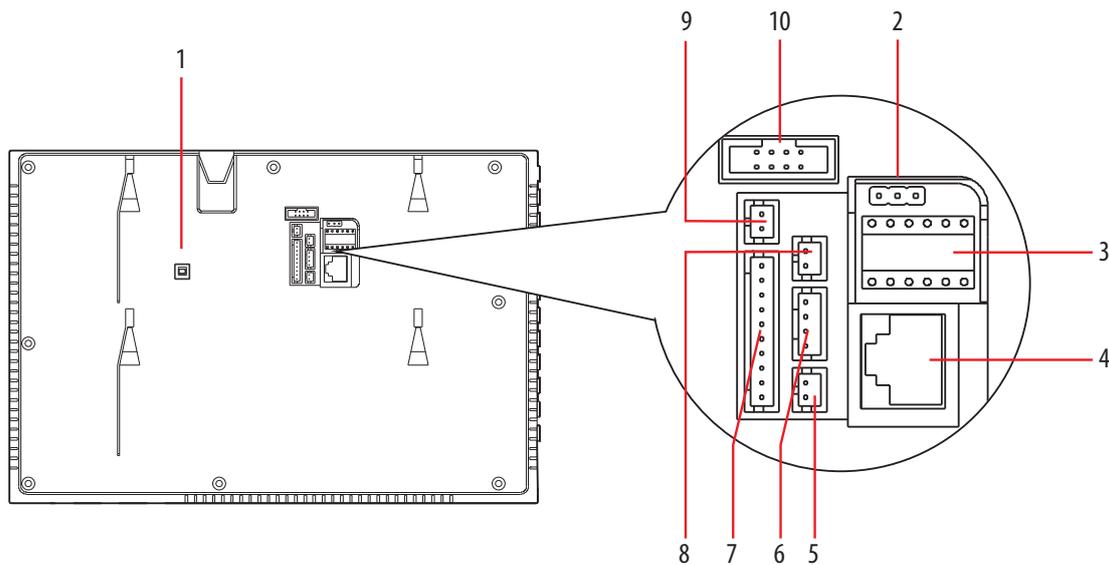
**Dimensional data**

Dimensions in mm

**Front view****Legend**

1. Loudspeaker
2. SOS key
3. Monitor key
4. Information LED
5. Switchboard call key
6. Communication LED
7. Answer key
8. Unlock key
9. Shortcut key
10. Color control knob
11. Brightness knob
12. Ring volume control knob
13. Microphone
14. Numerical keys and corresponding numbers
15. Defense area LED 1 to 8
16. LCD Display

Rear view

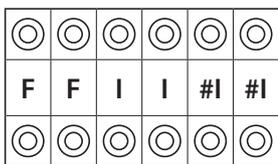


**Legenda**

- 1. Anti removal switch connector
- 2. Master and Slave selection pin
- 3. Configurators housing
- 4. RJ45 system BUS connector
- 5. SOS alarm connector
- 6. Small entrance panel (322020) connector
- 7. Alarm sensors connector (see specific page)
- 8. Door lock interface (323015) connector
- 9. Alarm sensor anti-removal connector
- 10. Serial interface connector

**Configurazione**

Indoor handset must be configured for following parameters:



FF : Floor number  
 II : Apartment number  
 #I: Maximum apartments quantity per floor in a riser

**Two different configuration modes available for whole system :**

configuration **MODE 1** and configuration **MODE 2**. The main characteristics for each configuration mode are listed below.

When the biggest number of #FF in whole system is ≤ 20, and the biggest number of #II is ≤ 4, and the total risers number is ≤ 50, we recommend to choose (MODE 1) configuration for system.

When the biggest number of #FF in whole system is more than 20, or the biggest number of #II is more than 4, we suggest to use (MODE 2) configuration to setup #FF (choose the biggest number #FF of system) and #II (choose the biggest number #II of system), then calculate total IU number of system. If the total number (#FF \* #II \* R) is less or equal 4000, use of (MODE 2) is suggested.

POSITION	MODE 1	MODE 2
F	FF	FF
F		
I	II	II
I		
#I	Default for #II is 04, need not connect the configurator	II (#II setup using same value for all system handsets).
#I		

Two different device configuration ways available:

- WAY 1) Configuration settings by device keyboard
- WAY 2) Configuration settings by inserting physical configurators

**Configuration settings by device keyboard - WAY 1 :**

INSTALLATION SETTINGS OPERATION LIST TABLE							
SETUP	OPERATION CODE AND LIGHT STATUS	NEXT OPERATION	MEANING AND INFORMATION FOR THE OPERATION	REMARK			
Set room number for handset	11# 8 alarm lights and message light off	"FFI#"	correct parameter input: 1 long tone	Default room number: 101			
		*	wrong parameter input: 3 short tones				
		*	return to main menu of installation setup, 1 short tone				
		other	unsuccessful operation: 3 short tone				
Set maximum apartments quantity per floor in a riser	12# 8 alarm lights and message light off	"II#" or "I#"	correct parameter input: 1 long tone	Range:1-99 Default:4; it can be set only when there is no setting for hardware			
		*	wrong parameter input: 3 short tones				
		*	return to main menu of installation setup, 1 short tone				
		other	unsuccessful operation: 3 short tones				
Set external SOS to be always on or always off	15# message light will indicate status of this setting item	1	SOS external switch or pushbutton always open (NO): message light on, 1 long tone	Default: always open			
		0	SOS external switch or pushbutton always close (NC): message light off, 1 long tone				
		*	return to main menu of installation setup, 1 short tone				
		other	unsuccessful operation: 3 short tones				
Enable and disable function of monitoring Small EP	17# message light will indicate status of this setting item	1	enable: handset can monitor Small EP: message light on, 1 long tone	Default: cannot monitor Small EP. This function is available only when the function is set as Small EP function.			
		0	Shielded: handset can not monitor Small EP: message light off, 1 long tone				
		*	return to main menu of installation setting, 1 short tone				
		other	unsuccessful operation: 3 short tones				
Return all the parameters to default value	19# message light will indicate status of this setting item	1	Get all the default parameters: message light on, 1 long tone				
		0	Do not get all the default parameters: message light off, 1 long tone				
		*	return to main menu of installation setup, 1 short tone				
		other	unsuccessful operation: 3 short tones				
Enable and disable sensors	21# Message light is off. 8 alarm lights will indicate status of each alarm zone	1#	1	1 alarm zone with sensor: LED 1 on, a long tone.	Default: (all) without sensor		
			0	1 alarm zone without sensor: LED 1 off, a long tone.			
			*	return to previous menu, 1 short tone			
			other	Ineffective operation: 3 short tones			
		...	...	...		...	
		8#	1	8 alarm zone with sensor: LED 8 on, a long tone.			
			0	8 alarm zone without sensor: LED 8 off, a long tone.			
			*	return to previous menu, 1 short tone			
			other	unsuccessful operation: 3 short tones			
		*	return to main menu of installation setting, 1 short tone				
		other	unsuccessful operation: 3 short tones				
		Set NO and NC type of sensors	22# 8 alarm lights will indicate status of each alarm zone.	1#			1
0	always-close (NC) sensor for alarm area 1: LED 1 off, 1 long tone						
*	return to previous menu, 1 short tone						
other	unsuccessful operation: 3 short tones						
...	...			...	...		
8#	1			always-open (NO) sensor for alarm area 8: LED 8 on, 1 long tone			
	0			always-close (NC) sensor for alarm area 8: LED 8 off, 1 long tone			
	*			return to previous menu, 1 short tone			
	other			unsuccessful operation: 3 short tones			
*	return to main menu of installation setup, 1 short tone						
other	unsuccessful operation: 3 short tones						

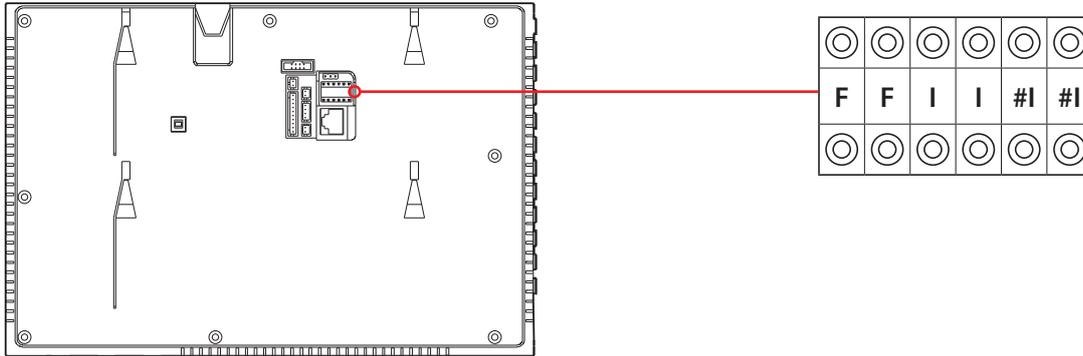
**Configuration**

**INSTALLATION SETTINGS OPERATION LIST TABLE**

SETUP	OPERATION CODE AND LIGHT STATUS	NEXT OPERATION	MEANING AND INFORMATION FOR THE OPERATION	REMARK		
Set infrared sensor	23# Message light is off. 8 alarm lights will indicate status of infrared sensor. Setting: infrared sensor: light of this alarm zone will be on. Non-infrared sensor, light of this alarm defence area zone will be off.	5#	1	infrared sensor for alarm zone 5: LED 5 on, 1 long tone	Note: 1/2/3/4 alarm zone are defined as infrared alarm zones, door alarm, smoke alarm, gas alarm. They cannot be changed. 5/7 are defaulted as infrared alarm zones s. 6/8 alarm are defaulted as non-infrared alarm zones	
			0	non- infrared sensor for alarm zone 5: LED 5 on, 1 long tone		
			*	return to previous menu, 1 short tone		
			other	unsuccessful operation: 3 short tones		
		.....	... ..			
		8#	1	infrared sensor for alarm zone 8: LED 8 on, 1 long tone		
			0	Non-infrared sensor for alarm zone 8: LED 8 on, 1 long tone		
			*	return to previous menu, 1 short tone		
			other	unsuccessful operation: 3 short tones		
		*	return to main menu of installation setup, 1 short tone			
		other	unsuccessful operation: 3 short tones			
Setting for Time delay after alarm set	24# The light of the zone indicates the parameter For example, if the parameter is 3, then LED 3 will on	1	delay 40 s: 1 long tone, only LED 1 will on	Default: 100 s only for thief area alarm		
		2	delay 100 s: 1 long tone, only LED 2 will on			
		3	delay 150 s: 1 long tone, only LED 3 will on			
		4	delay 210 s: 1 long tone, only LED 4 will on			
		5	delay 255 s: 1 long tone, only LED 5 will on			
		*	return to main menu of installation setup, 1 short tone			
		Other	unsuccessful operation: 3 short tones			
Setting for Time delay after alarm happens	25# The light of defence area give the parameter. For example, if the parameter is 3, then LED 3 will on	1	delay 40 s: 1 long tone, only LED 1 will on	Default: 40 s only for thief area alarm		
		2	delay 100 s: 1 long tone, only LED 2 will on			
		3	delay 150 s: 1 long tone, only LED 3 will on			
		4	delay 210 s: 1 long tone, only LED 4 will on			
		5	delay 255 s: 1 long tone, only LED 5 will on			
		*	return to main menu of installation setup, 1 short tone			
		other	unsuccessful operation: 3 short tones			
Enable and disable sound alarm for thief	26# The Information LED indicates the setup state	1	enabled: if there is a burglar alarm, loudspeaker will emit a sound. Message light on, 1 long tone	Default: no sound		
		0	disabled: if there is a burglar alarm, loudspeaker will not emit a sound. Message light off, 1 long tone.			
		*	return to main menu of installation setup, 1 short tone			
		other	unsuccessful operation: 3 short tones			
	*		exit main menu of installation setup, 1 short tone			
	other		unsuccessful operation: 3 short tones			
1) Doorbell function setup(if is doorbell function , it is not Small EP function)	16# The information LED to give setup state	1	Enable doorbell function, the information LED is on, 1 long tone.	Default: is not doorbell function, tt is Small EP function.		
		0	Disable doorbell function, the information LED is off, 1 long tone			
		*	return to main menu of installation setup, 1 short tone			
		other	unsuccessful operation: 3 short tones			
2) Handset connection to Apartment interface function setup	13# The information LED to give setup state	1	handset has connected to the Apartment interface the information LED is on, 1 long tone,	Default: Handset not connected to the Apartment interface.		
		0	handset has not connected to the Apartment interface, the information LED is off, 1 long tone.			
		*	return to main menu of installation setup, 1 short tone			
		other	unsuccessful operation: 3 short tones			

Configuration settings by inserting physical configurators - WAY 2:

Physical connection for their sockets:



Example (A):

The number of handsets is 1204, each floor has 4 handsets, the system configuration mode is Mode 1, the handset configuration should be as follows

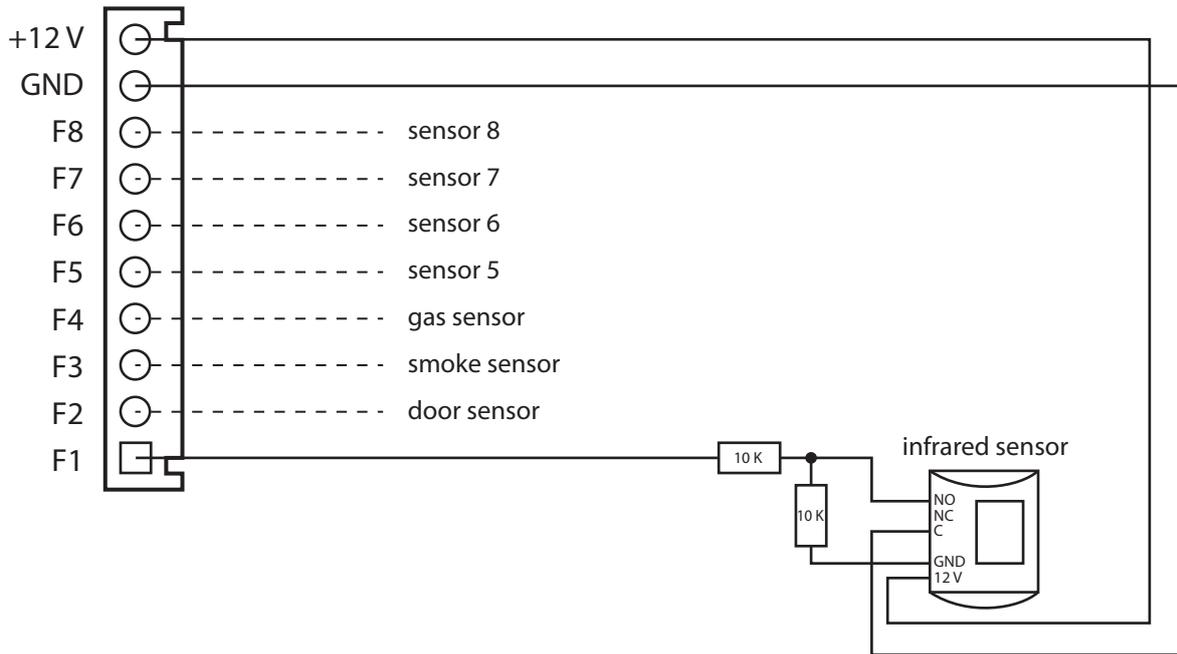
POSITION	CONFIGURATION VALUE	REMARKS
F	1	
F	2	
I	0	It is ok not to insert configurator 0
I	4	
#I		Because the default value of #II is 4, no configurator is needed
#I		

Example (B):

The number of handsets is 1206, each floor has 8 handsets. System configuration mode 2 is used. The handset configuration should be as follows:

POSITION	VALUE	REMARKS
F	1	
F	2	
I	0	It is ok not to insert configurator 0
I	6	
#I	0	It is ok not to insert configurator 0
#I	8	

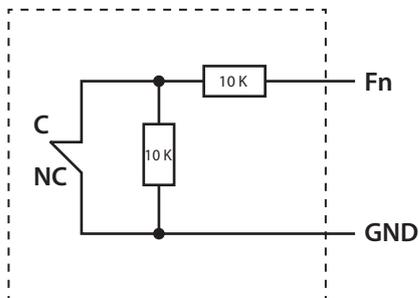
**Wiring diagram - alarm sensors connections**



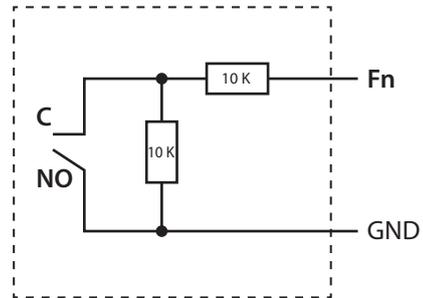
NOTE: 10 KΩ resistors used to detect cable by cut or cable short circuited to GND. Resistors must be placed near the sensor. IU can afford sensor 12 Vdc - 300 mA type.

**Connection way for NC and NO contacts**

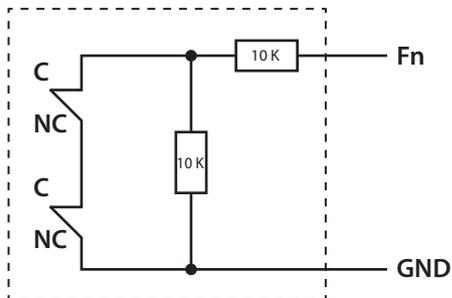
NC mode - SINGLE SENSOR



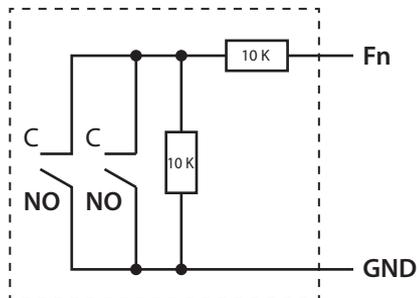
NO mode - SINGLE SENSOR



NC mode - MULTIPLE SENSORS



NO mode - MULTIPLE SENSORS



Connection way for NC and NO contacts				
PIN	ALARM AREA	SENSOR TYPE	SENSOR TYPE	REMARK
F1	SENSOR 1	THEFT ALARM	INFRARED SENSOR	Can use short key to sensor active or idle
F2	SENSOR 2		DOOR SENSOR	
F3	SENSOR 3	FIRE ALARM	SMOKE SENSOR	Can't use short key to let sensor idle
F4	SENSOR 4		GAS SENSOR	
F5	SENSOR 5	THEFT ALARM	Infrared or non-infrared; Default is infrared sensor; User can set it to be non infrared	Can use short key to sensor active or idle
F6	SENSOR 6		Infrared or non-infrared; Default is non-infrared sensor; User can set it to be non infrared	
F7	SENSOR 7		Infrared or non-infrared; Default is infrared sensor; User can set it to be non infrared	
F8	SENSOR 8		Infrared or non-infrared; Default is non-infrared sensor; User can set it to be non infrared	
GND				
+ 12 V				