SWING
Black and white base video handset

344832

Description

Wall video handset with black and white 4" monitor for use in 2 WIRE systems.
With the following pushbuttons for video door entry system functions: door lock release, entrance panel/ camera scrolling activation, staircase lights switching on and intercom. The volume of the bell can be adjusted, or the bell may be disabled.
With 16 different types of already preset bells, selectable for the call to the floor, main entrance panel bell, and intercom functions.
It also has a secret conversation function, and "door status" control (function possible in conjunction with the door lock actuators 346230 - 346260 and with CISA ELETTRIKA door lock with 346240 accessory).
Wall mounting bracket supplied as standard.

Correlated items

346020 (additional 2 DIN modules power supply) - optional, for local powering of the video handset, when maximum installation distances are necessary
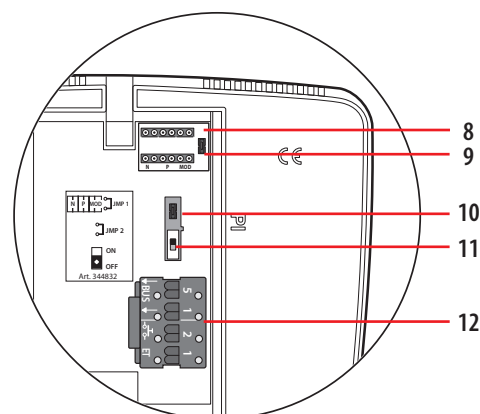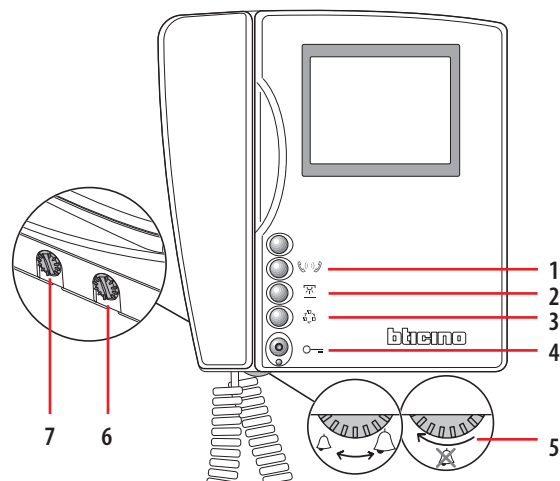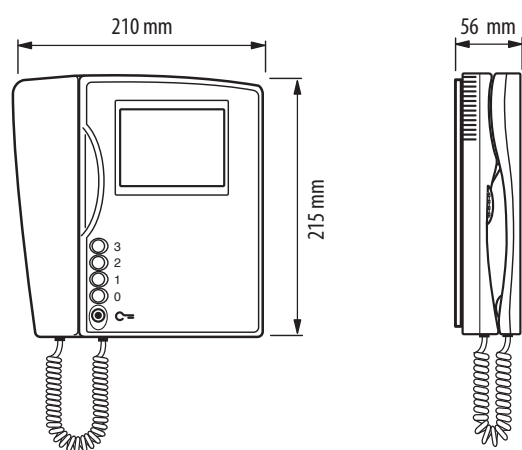346230 2 DIN door lock actuator
346260 4 DIN timed door lock actuator
346240 CISA ELETTRIKA door lock accessory

Technical data

Power supply from SCS BUS :	20.5 – 27 Vdc
Stand-by absorption:	5 mA
Max. operating absorption:	400 mA @ 27 V - 650 mA @ 20.5 V
Operating temperature:	5 - 40°C

Dimensional data

Legend

1. Intercom call pushbutton
2. Staircase lights pushbutton
3. Entrance panel/camera scrolling activation pushbutton
4. Door lock release pushbutton + door status LED
5. Bell adjustment and exclusion
6. Monitor brightness adjustment
7. Monitor contrast adjustment
8. Configurator socket
9. MASTER/SLAVE jumper (Remove to enable SLAVE)
10. Additional power supply jumper. (Remove if a local power supply is connected to clamps 1 - 2)
11. Line termination ON/OFF microswitch
12. Connection clamp for: 2 WIRE BUS, call to the floor, additional power supply and additional bell.

Configuration

The video handset must be physically configured in terms of:

N - handset number
The N configurator assigns to each video handset an identification number within the 2 wire system. The handsets must be configured in progressive order.
Handsets with parallel connection (max 3 are allowed inside apartments without 346850 interface) must be configured using the same N configurator.

P - entrance panel number
The P configurator identifies the entrance panel associated, or the first entrance panel to activate before pressing the key and which door lock is activated when the key is pressed while the video handset is idle.

Configuration in P	Key function
P= 0-96	Activation of the audio function on the entrance panel (configured with P= 0-96)

Configuration in P	Key function
P= 0-96	Idle EP door lock release (configured with P= 0-96)

M - intercom operating mode
The intercom function enables audio communication (maximum 3 minutes) between handsets within the same apartment.
Two configuration modes are possible:

M = 00   (no configurator connected). Multi-family Intercom between devices (max. 3) configured with the same N configurator.

M =10   general intercom to be used in single family systems, or in systems installed below the apartment interface 346850.

Installation
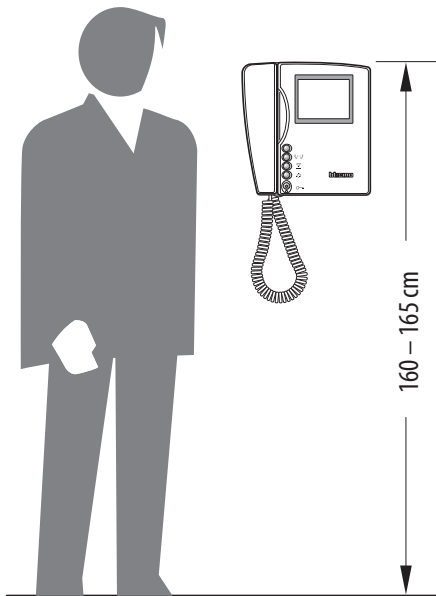
Height recommended, unless otherwise required by the law

Ø 5 mm

General rules for installation

The connection of the devices is non polarised, and may be completed by wiring the system in two different ways:
- **In-out** wiring directly on the device clamps (handsets)
- **star** wiring, with floor shunt (item 346841) installed directly inside the round box (**recommended**).

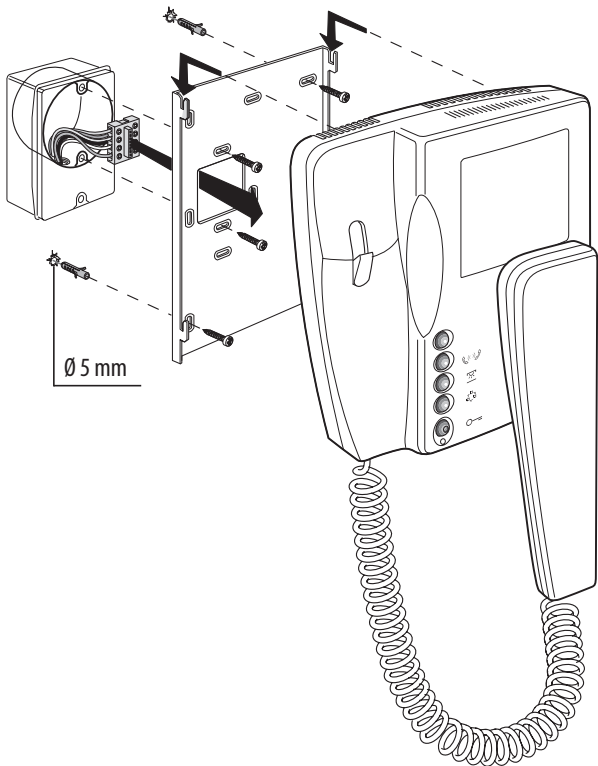The use of conductors with characteristics other than the prescribed ones does not guarantee good performance and good quality of the video signal. Therefore, only the cables described in the following tables should be used.

When using the distance tables, interfaces 346850 and 346851 must be treated as handsets within LINE C, and as a two buttons entrance panels within line B.

Handset

The furthest video handset

346850   346581

MOD=0 and MOD=5

LINE C - systems with only 1 entrance panel:
SFERA (342170 + 342510 + 342240)
SFERA (342170 + 342550 + 342240)
LINEA 2000

LINE C ✶

LINE A ✶

346000   F441   346000   346830

LINE B ✶

Entrance panel

346850   346581

MOD=0 and MOD=5

LINE D ✶

Door lock

✶ Max variable distance
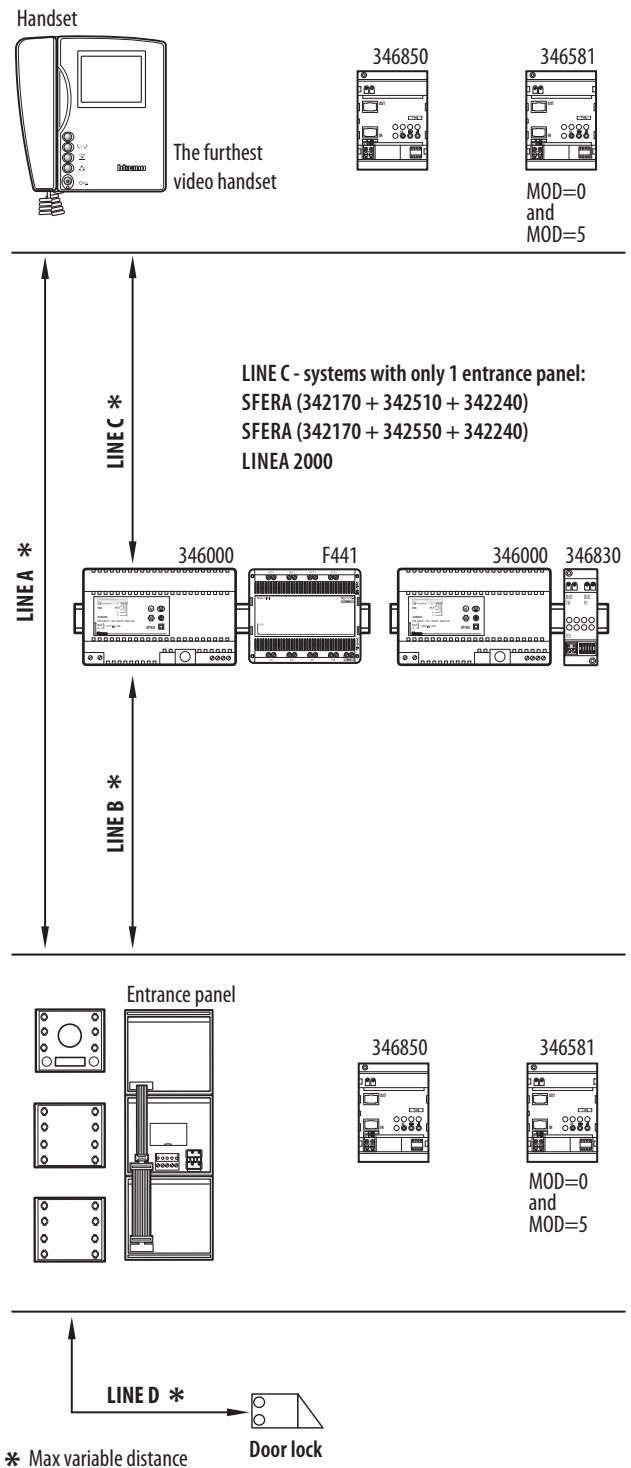
Note: For those systems where only apartment interfaces are installed (in/out connection), the distance of the C line to take into account is 200 m (with BTicino cable 336904)

Max. distances and features of cables in MULTI-FAMILY VIDEO SYSTEMS

The **HANDSETS** classed as (**BASE**) are: BASE SWING video handset;

The **HANDSETS** classed as (**TRADITIONAL**) are: PIVOT, SWING, SPRINT, POLYX VIDEO , CLASSE 100;

The **HANDSETS** classed as (**ADVANCED**) are: POLYX VIDEO DISPLAY, AXOLUTE VIDEO DISPLAY, AXOLUTE N&W VIDEO STATION, POLYX MEMORY.

System created using traditional handsets and at least one base swing handset - black and white entrance panel

Maximum LINE A distance, Entrance panel - furthest Handset

Cable section mm^2	2 normal cables >0.2 mm^2	BTicino 336904 cable	Telephone twisted pair - 0.28 mm	A pair of the multi-pair data cable C9881U/5E
2 HA/2 pushbuttons	50	200	135	135
5 HA/5 pushbuttons	50	200	135	120
10 HA/10 pushbuttons	50	200	135	115
26 HA/26 pushbuttons	50	200	135	105
40 HA/entrance panel with local power supply	50	200	135	-
40 HA/digital call modules	50	200	135	-

Maximum LINE B distance, Entrance panel - Power supply

Cable section mm^2	2 normal cables >0.2 mm^2 or L4669	BTicino 336904 cable	Telephone twisted pair - 0.28 mm	A pair of the multi-pair data cable C9881U/5E
2 pushbuttons	50	200	115	90
10 pushbuttons	50	170	100	75
26 pushbuttons	50	150	95	65
Digital call	50	150	95	65
Entrance panel with local power supply	50	200	140	120

Maximum LINE C distance, Power supply - furthest Handset (1)

Cable section mm^2	2 normal cables >0.2 mm^2	BTicino 3 36904 cable	Telephone twisted pair - 0.28 mm	A pair of the multi-pair data cable C9881U/5E
2 In/out HA	45	100	65	45
5 In/out HA	45	100	65	45
10 In/out HA	45	100	65	45
18 In/out HA	45	100	65	45
22 In/out HA	40	95	65	40
26 In/out HA	40	90	60	40
5 HA (shunted)	45	100	65	45
10 HA (shunted)	40	95	65	40
18 HA (shunted)	40	85	55	40
22 HA (shunted)	-	75	50	-
26 HA (shunted)	-	60	40	-
30 HA (shunted) **(2)**	-	80	50	-
40 HA (shunted) **(2)**	-	60	40	-

Maximum LINE D distance Entrance panel - Door lock

Cable section mm^2	0.28 mm^2	BTicino L4669 cable	BTicino 336904 cable	1 mm^2
S+S– clamps	30 m	30 m	50 m	100 m

Note (1): LINE C valid for SFERA (342170 + 342510 + 342240), SFERA (342170 + 342550 + 342240), SFERA A/V (342560 + 342240) or LINEA 2000 entrance panels.

Note (2): if necessary, power the entrance panel locally.

WARNING: in order to reach longer distances, instead of the video adapter 346830, the audio/video node F441 (generating up to 4 risers), may be used. In this mode one of the previous conditions, with less Handsets and a longer distance on the C LINE, is recreated.

System created using advanced or traditional handsets and at least one base SWING handset – colour entrance panel

Maximum LINE A distance, Entrance panel - furthest Handset				
Cable section mm²	2 normal cables >0.2 mm²	BTicino 336904 cable	Telephone twisted pair - 0.28 mm²	A pair of the multi-pair data cable C9881U/5E
2 HA/2 pushbuttons	50	200	140	135
5 HA/5 pushbuttons	50	200	140	120
10 HA/10 pushbuttons	50	200	140	115
24 HA/24 pushbuttons	50	200	140	100
30 HA/entrance panel with local power supply	50	200	140	-

Maximum LINE B distance, Entrance panel - Power supply				
Cable section mm²	2 normal cables >0.2 mm² or L4669	BTicino 336904 cable	Telephone twisted pair - 0.28 mm²	A pair of the multi-pair data cable C9881U/5E
2 pushbuttons	50	200	115	90
10 pushbuttons	50	170	100	75
26 pushbuttons	50	150	95	65
Digital call	50	150	95	65
Entrance panel with local power supply	50	200	140	120

Maximum LINE C distance, Power supply - furthest Handset (1)				
Cable section mm²	2 normal cables >0.2 mm²	BTicino 336904 cable	Telephone twisted pair - 0.28 mm²	A pair of the multi-pair data cable C9881U/5E
2 In/out HA	45	100	65	45
5 In/out HA	45	100	65	45
10 In/out HA	40	90	60	40
18 In/out HA	40	85	55	40
24 In/out HA	-	75	50	35
5 HA (shunted)	40	100	65	45
10 HA (shunted)	40	85	55	40
18 HA (shunted)	-	80	50	-
24 HA (shunted)	-	50	-	-
30 HA (shunted) **(2)**	-	60	40	-

Maximum LINE D distance Entrance panel - Door lock				
Cable section mm²	0.28 mm²	BTicinor L4669 cable	BTicino 336904 cable	1 mm²
S+S− clamps	30 m	30 m	50 m	100 m

Note (1): LINE C valid for SFERA (342170 + 342510 + 342240), SFERA (342170 + 342550 + 342240), SFERA A/V (342560 + 342240) or LINEA 2000 entrance panels.

Note (2): if necessary, power the entrance panel locally.

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Max. distances and features of cables in SINGLE-FAMILY VIDEO SYSTEMS

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System created using traditional handsets and at least one base swing handset - black and white entrance panel

Maximum LINE A distance, Entrance panel - furthest Handset

Cable section mm²	2 normal cables >0.2 mm²	BTicino 336904 cable	Telephone twisted pair – 0.28 mm²	A pair of the multi-pair data cable C9881U/5E
5 S-family HA/pushbutton EP	50	200	140	135
5 S-family HA/EP with local power supply	50	200	140	165

Maximum LINE C distance, Power supply - furthest Handset (1)

Cable section mm²	2 normal cables >0.2 mm²	BTicino 336904 cable	Telephone twisted pair – 0.28 mm²	A pair of the multi-pair data cable C9881U/5E
5 In/out HA	45	100	65	45
5 HA (shunted)	45	100	65	45

Maximum LINE B distance, Entrance panel - Power supply

Cable section mm²	2 normal cables >0.2 mm²	BTicino 336904 cable	Telephone twisted pair – 0.28 mm²	A pair of the multi-pair data cable C9881U/5E
2 pushbuttons	50	200	115	90
Entrance panel with local power supply	50	200	140	120

Note (1): LINE C valid for SFERA (342170 + 342510 + 342240), SFERA (342170 + 342550 + 342240), SFERA A/V (342560 + 342240) or LINEA 2000 entrance panels.

System created using advanced or traditional handsets and at least one base swing handset - colour entrance panel

Maximum LINE A distance, Entrance panel - furthest Handset

Cable section mm²	2 normal cables >0.2 mm²	BTicino 336904 cable	Telephone twisted pair – 0.28 mm²	A pair of the multi-pair data cable C9881U/5E
5 S-family HA/pushbutton EP	50	200	140	135
5 S-family HA/EP with local power supply	50	200	140	165

Maximum LINE C distance, Power supply - furthest Handset (1)

Cable section mm²	2 normal cables >0.2 mm²	BTicino 336904 cable	Telephone twisted pair – 0.28 mm²	A pair of the multi-pair data cable C9881U/5E
5 In/out HA	45	100	65	45
5 HA (shunted)	45	100	65	45

Maximum LINE D distance, Entrance panel - Door lock

Cable section mm²	2 normal cables >0.2 mm²	BTicino 336904 cable	Telephone twisted pair – 0.28 mm²	A pair of the multi-pair data cable C9881U/5E
S+S– clamps	30 m	30 m	50 m	100 m

Note (1): LINE C valid for SFERA (342170 + 342510 + 342240), SFERA (342170 + 342550 + 342240), SFERA A/V (342560 + 342240) or LINEA 2000 entrance panels.

MAXIMUM DISTANCES AND CABLE FEATURES FOR CONNECTION OF THE ADDITIONAL POWER SUPPLY

Maximum LINE distance between the power supply and the entrance panel

Cable section mm^2	2 normal cables >0.2 mm^2	BTicino 336904 cable	Telephone twisted pair - 0.28 mm^2	A pair of the multi-pair data cable C9881U/5E
	50	100	75	50

WARNING: For situations or installation conditions other than the ones listed in this document (e.g. different entrance panels), the distances may be calculated using the **YouDiagram** software (this can be downloaded free of charge from the **www.international.bticino.com** website).

SWING BASE
video handset
344832

Maximum distance for base SWING video handset additional power supply

PRI

346020

PRI: 220 – 240 V~
175 – 165 mA
47/63 Hz

SCS: 27 Vdc
600 mA

CE

1 - 2

Additional power
supply 346020