A Group brand | legrand

AUDIO & VIDEO
DOOR ENTRY SYSTEMS

2 wires solutions

THE **GLOBAL SPECIALIST** IN DOOR ENTRY SYSTEMS

bticino

2 wires system

The easiest system offer

The **2 WIRES SYSTEM** is the best technology for those cases when **TIME SAVING** and **EASE of INSTALLATION** are crucial. Thanks to the non polarized 2 wires system it is in fact possible to install, with the same ease, all kinds of systems, from those for single villas to those for apartment complexes.

This technology is particulary suitable, for example, for:

SMALL AND MEDIUM SIZE SYSTEMS

THE VILLA

THE APARTMENT

RENOVATIONS

The possibility of using existing cables makes it the ideal solution when refurbishing systems.

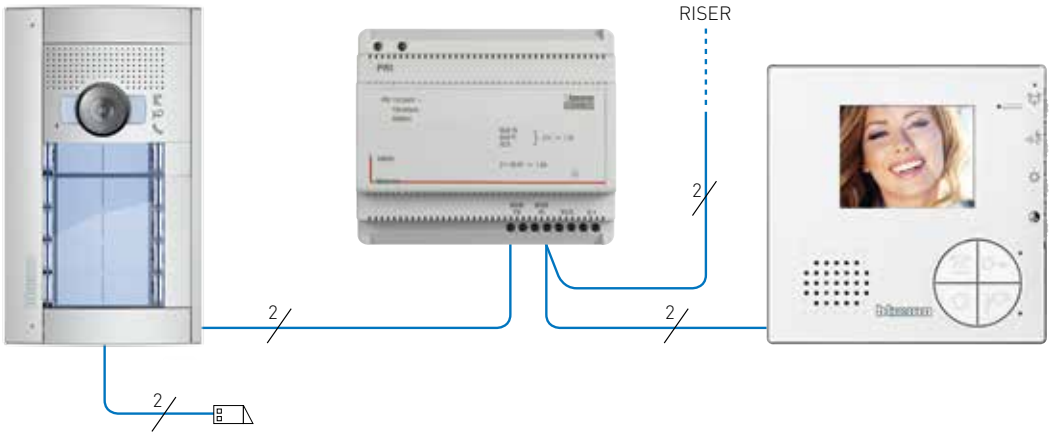
Remove the old entrance panel being replaced.

Use the two cables already present to connect the new entrance panel.

In addition to the extreme simplicity, the system offers

VERY GOOD PERFORMANCE

SYSTEM MAIN FEATURES	
3900	Apartments
3900	Apartment video entrance panels
39	Risers with indepedent sound mode
5	Handsets per apartment
600 m	Distance between entrance panel and farthest internal unit



2 non-polarized wires for all the system

THE 2 WIRES SYSTEM

OFFERS A WIDE RANGE OF ENTRANCE PANELS AND INTERNAL UNITS, TO MEET ALL THE CUSTOMER NEEDS.

THE SYSTEM COMPOSITION

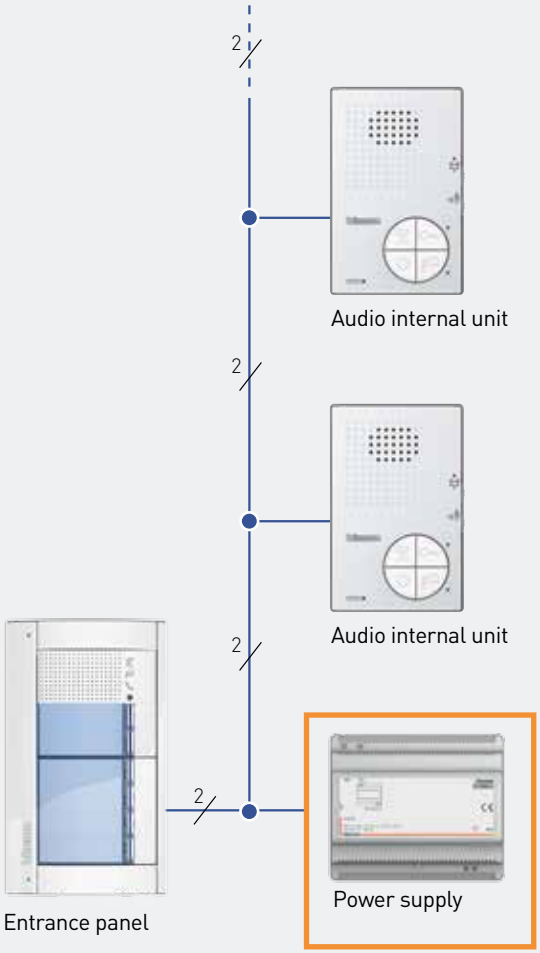
- Thanks to the use of accessory devices, additional door locks can be activated and/or lights switched on.

- In apartment-block systems the switchboard can be used for the management and centralised supervision of the apartment-block services.

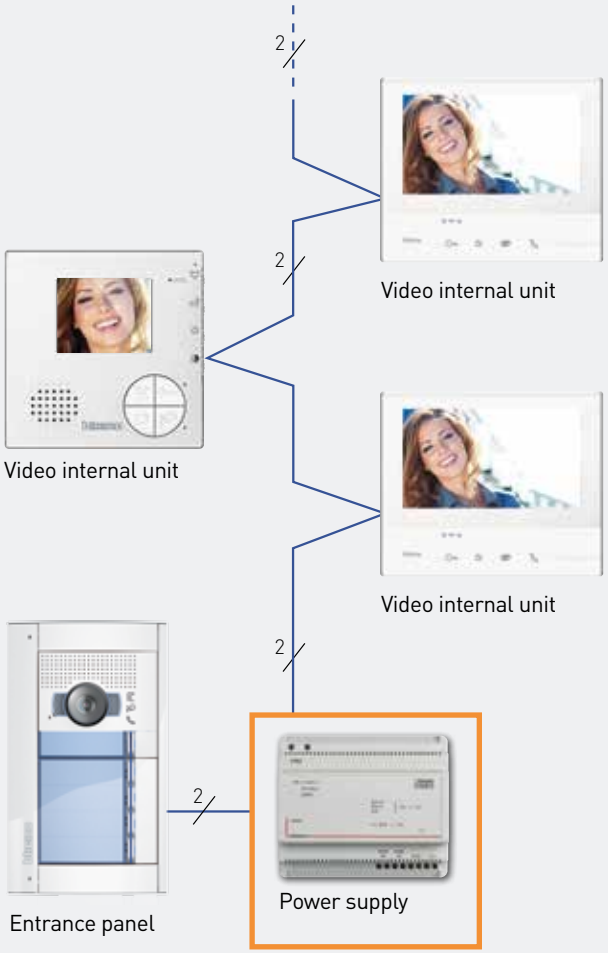
- In systems with Classe 300X13E connected internal unit, you can manage your door entry system calls and functions with your smartphone thanks to the dedicated Door Entry App.

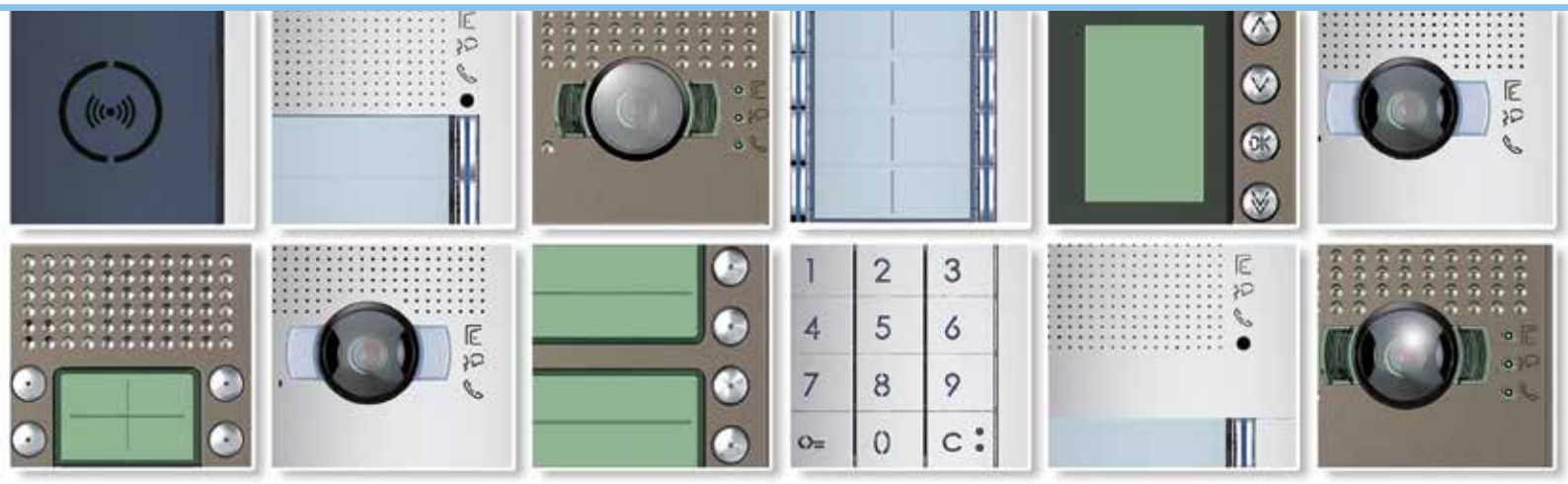
A few accessory devices are needed to make the 2-WIRE systems, as well as the entrance panels and the internal units and/or video internal units.

DOOR ENTRY SYSTEM



VIDEO DOOR ENTRY SYSTEM





ENTRANCE panels

range

LINEA SFERA

SFERA NEW

SFERA ROBUR

ENTRANCE PANELS

Overview and features

	Linea Sfera New	Linea Sfera Robur
Audio	■	■
Colour video	■	■
Finishes / Colours	Allmetal Allwhite Allstreet	Zamak Robur
Wall mounted installation	■	■
Flush mounted installation	■	■
Pushbutton call	■	■
Digital call	■	■
Wide angle camera (1)	■	■
Night & Day camera (2)	■	■
Control speech synthesis (3)	■	■
Door lock release with keypad	■	■
Door lock release with key card	■	■
Rainshield	■	■
Vandal proof		
Protection index	IP54	IP54
Sturdiness index	Up to IK08	IK10
Max. number of calls	100 with pushbuttons 4000 with digital call	100 with pushbuttons 4000 with digital call

(1) Horizontal and vertical wide viewing field. Easy to use for children and differently-abled people.
(2) Night lighting thanks to the IR LED with automatic IR filter. Sharp, perfect images even in limited light conditions.
(3) Inductive loop and control speech synthesis. Use by people wearing hearing aids. Easy to use for visually impaired people.

TWO STYLES
ONE ELECTRONIC HEART

2-wires simplicity, maximum performance

Exceptional audio and video performance as well as fast and simple installation can be achieved with 2-wires technology

- Up to 4000 dwellings
- 20 handsets per dwelling
- Up to 96 video entrance panels
- Operable range of 600 m between entrance panel and internal unit

2 DESIGNS

SFERA NEW

A modern and sleek design suitable for residential and commercial developments.

Audio or video pushbutton entrance panel

Call from address book

SFERA ROBUR

Sturdy materials and optional flush-mounting boxes providing increased safety and preventing removal of the device

Audio or video pushbutton entrance panel

Digital call

12 FUNCTIONS

TRADITIONAL

Basic speaker module

Speaker module

Audio/video module

4 push-buttons module

8 push-buttons module

Nameplate module

Graphic display module

ADVANCED

Audio/video wide-angle camera module

Night/day wide-angle camera module

Inductive loop and control speech synthesis module

DOOR LOCK RELEASE

Keypad module

Badge reader module

SFERA NEW

Examples to select parts of the system

FINISHES	INSTALLATION TYPE	FLUSH-MOUNTING BOXES		RAINSHIELDS (OPTIONAL)		FRAMES/PLATES	
	FLUSH-MOUNTING INSTALLATION	Cat.Nos	Pack	Cat.Nos	Pack	Cat.Nos	Pack
Allmetal (silver) **1**		A **350010** 1 module	1	C **35051..** 1 module	1	D **35021..** 1 module	1
		350020 2 modules	1	**35052..** 2 modules	1	**35022..** 2 modules	1
		352500 6 modules					
Allwhite (white) **2**		**350030** 3 modules	1	**35053..** 3 modules	1	**35023..** 3 modules	1
				35059.. 9 modules			

INSTALLATION TYPE	SURFACE-MOUNTING BOXES		FRAMES/PLATES	
SURFACE-MOUNTING INSTALLATION	Cat.Nos	Pack	Cat.Nos	Pack
Allstreet (grey) **3**		B **35061..** 1 module	1	**35064..** 4 modules	D **35021..** 1 module	1
		35062.. 2 modules	1	**35066..** 6 modules	**35022..** 2 modules	1
		35063.. 3 modules	1	**35069..** 9 modules	**35023..** 3 modules	1

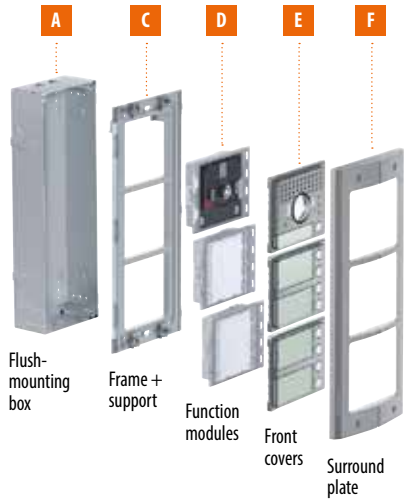
CHOOSE YOUR FINISH: Replace the dots in the Cat. No. with either 1, 2, or 3 to select the desired finish

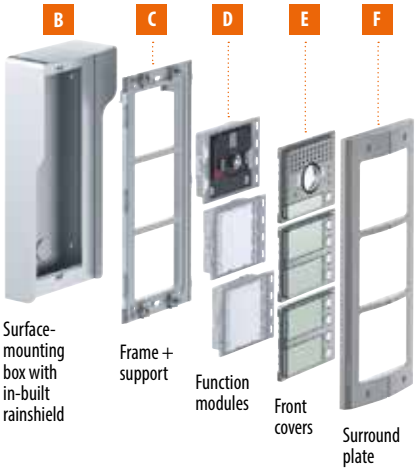
	DIGITAL FUNCTION MODULES		FRONT COVERS	
	Cat.Nos	Pack	Cat.Nos	Pack
Speakers	E **351000** Basic speaker module (FOR AUDIO SYSTEMS ONLY)	1	F **Audio front covers** **35100..** Basic speaker module **35101..** Basic speaker module 1 push-button **35102..** Basic speaker module 2 push-buttons **35104..** Basic speaker module 2 push-buttons/double row **35108..** Basic speaker module 4 push-buttons/double row	1
	 351100 Speaker module	1	 **35110..** Speaker module **35111..** Speaker module 1 push-button **35112..** Speaker module 2 push-buttons **35114..** Speaker module 2 push-buttons/double row **35118..** Speaker module 4 push-buttons/double row	1
Push-buttons	 **352000** 4 push-buttons/ single row	1	 **35203..** 3 push-buttons **35204..** 4 push-buttons	1
	 352100 8 push-buttons/ double row	1	 **35216..** 6 push-buttons/double row **35218..** 8 push-buttons/double row	1
	E		F **Video front covers**	
Cameras	 **351200** Audio/video	1	 **35120..** Audio/video **35121..** Audio/video 1 push-button **35122..** Audio/video 2 push-buttons/double row	1
	 351300 Audio/video with wide angle camera	1	 **35130..** Audio/video wide angle **35131..** Audio/video wide angle 1 push-button **35131..** Audio/video wide angle 2 push-buttons / double row	1
	 352400 Night/day with wide angle camera	1	 **35240..** Night/day with wide angle camera	1
			 354000 Cable for the connection or several push-button modules L= 620 mm	1
	E		F **Miscellaneous front covers**	
Miscellaneous	 **352200** Name plate	1	 **35220..** Name plate	1
	 352500 Graphic display	1	 **35250..** Graphic display	1
	 352700 Inductive loop and control speech synthesis	1	 **35270..** Inductive loop-speech synthesis	1
	 353200 Badge reader	1	 **35320..** Badge reader	1
	 353000 Keypad	1	 **35300..** Keypad	1
			 35230.. Blanking reader	1

CHOOSE YOUR FINISH: Replace the dots in the Cat. No. with either 1, 2, or 3 to select the desired finish

SFERA ROBUR

Examples to select parts of the system

FINISHES	INSTALLATION TYPE	FLUSH-MOUNTING BOXES		SUPPORT FRAMES		FRAMES/PLATES	
	FLUSH-MOUNTING INSTALLATION	Cat.Nos	Pack	Cat.Nos	Pack	Cat.Nos	Pack
Vandal -resistant (ROBUR)		A **350110** 1 module	1	C **350315** 1 module	1	D **350415** 1 module	1
		350120 2 modules	1	**350325** 2 modules	1	**350425** 2 modules	1
		350130 3 modules	1	**350335** 3 modules	1	**350435** 3 modules	1

INSTALLATION TYPE	SURFACE-MOUNTING BOXES		SUPPORT FRAMES		FRAMES/PLATES	
SURFACE-MOUNTING INSTALLATION	Cat.Nos	Pack	Cat.Nos	Pack	Cat.Nos	Pack
	B (*) **35061..** 1 module	1	C **350315** 1 module	1	D **350415** 1 module	1
	35064.. 4 modules					
	35062.. 2 modules	1	**350325** 2 modules	1	**350425** 2 modules	1
	35066.. 6 modules					
	35063.. 3 modules	1	**350335** 3 modules	1	**350435** 3 modules	1
	35069.. 9 modules					

(*) CHOOSE YOUR FINISH: Replace the dots in the Cat. No. with either 1, 2, or 3 to select the desired finish - Refer to SFERA NEW finishes.

	DIGITAL FUNCTION MODULES		FRONT COVERS	
	Cat.Nos	Pack	Cat.Nos	Pack
Speakers	E		F Audio front covers	
	351000 Basic speaker module (FOR AUDIO SYSTEMS ONLY)	1	**351005** Basic speaker module **351015** Basic speaker module 1 push-button **351025** Basic speaker module 2 push-buttons **351045** Basic speaker module 2 push-buttons/double row **351085** Basic speaker module 4 push-buttons/double row	1
	351100 Speaker module	1	**351105** Speaker module **351115** Speaker module 1 push-button **351125** Speaker module 2 push-buttons **351145** Speaker module 2 push-buttons/double row **351185** Speaker module 4 push-buttons/double row	1
Push-buttons	**352000** 4 push-buttons/ single row	1	**352035** 3 push-buttons **352045** 4 push-buttons	1
	352100 8 push-buttons/ double row	1	**352165** 6 push-buttons/double row **352185** 8 push-buttons/double row	1
	E		F Video front covers	
Cameras	**351200** Audio/video	1	**351205** Audio/video **351215** Audio/video 1 push-button **351225** Audio/video 2 push-buttons / double row	1
	351300 Audio/video with wide angle camera	1	**351305** Audio/video wide angle **351315** Audio/video wide angle 1 push-button **351325** Audio/video wide angle 2 push-buttons / double row	1
	352400 Night/day with wide angle camera	1	**352405** Night/day with wide angle camera	1
	E		F Miscellaneous front covers	
Miscellaneous	**352200** Name plate	1	**352205** Name plate	1
	352500 Graphic display	1	**352505** Graphic display	1
	352700 Inductive loop and control speech synthesis	1	**352705** Inductive loop-speech synthesis	1
	353200 Badge reader	1	**353205** Badge reader	1
	353000 Keypad	1	**353005** Keypad	1

354000
Cable for the connection or several push-button modules
L= 620 mm

352305
Blanking reader

SFERA

Electronic modules

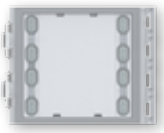
351000

351100

351200

351300

352000


352100

352200

Pack	Item	Electronic modules
1	351000	**Basic speaker module** for the creation of 2 WIRE audio systems. Fitted with loudspeaker and microphone volume adjustment. It manages up to 100 pushbutton calls using additional double row pushbuttons. It can be used for opening an eleactrical door lock directly connected to the S+ and S- clamps (18 V 4 A impulsive - 250 mA holding current 30 Ohm max) and the connection to a local door lock release pushbutton on the PL clamps. To be completed with surround plate. The device must be physically configured.
1	351100	**Speaker module** for the creation of 2 WIRE audio & video systems. Fitted with loudspeaker and microphone volume adjustment. It can manage up to 100 pushbutton calls when using additional double row pushbutton modules. It can be used for opening an electrical door lock directly connected to the S+ and S- clamps (18 V 4 A impulsive - 250 mA holding current 30 Ohm max) and the connection to a local door lock release pushbutton on the PL clamps. Preset for additional power supply. Fitted with front LEDs for the notification of the operating status: door lock release, communication active, call put through, and system busy. Integrated optic sensor for the switching on of the night backlighting. To be completed with surround plate. The device can be configured either physically or using the PC and the TiSferaDesign software.
1	351200	**Audio video module** for the installation of 2 WIRE colour video systems. With Colour camera with 1/3" sensor and white LEDs for the lighting of the shooting field. Mist prevention heating resistance. Loudspeaker and Microphone volume adjustments. It can manage up to 98 pushbutton calls using the additional double row pushbutton modules. Horizontal and vertical camera position adjustment, +/- 10° in both directions. It offers the possibility of opening an electrical door lock directly connected to clamps S+ and S- (18 V 4 A impulsive - 250 mA holding current 30 Ohm max) and of connecting a local door lock release pushbutton on clamps PL. Preset for additional power supply. Fitted with front LEDs for the notification of the operating status: door lock release, communication active, call put through, and system busy. Integrated optic sensor for the switching on of the night backlighting. To be completed with surround plate. The device must be configured physically or using a PC and the TiSferaDesign software.

Pack	Item	Electronic modules
1	351300	**Wide angle audio/video module** for the installation of 2 WIRE colour video systems. With Colour camera with 1/3" sensor and white LEDs for the lighting of the shooting field. Mist prevention heating resistance. Loudspeaker and Microphone volume adjustments. It can manage up to 98 pushbutton calls using the additional double row pushbutton modules. It offers the possibility of opening an electrical door lock directly connected to clamps S+ and S- (18 V 4 A impulsive - 250 mA holding current 30 Ohm max) and of connecting a local door lock release pushbutton on clamps PL. Preset for additional power supply. Fitted with front LEDs for the notification of the operating status: door lock release, communication active, call put through, and system busy. Integrated optic sensor for the switching on of the night backlighting. To be completed with surround plate. The device must be configured physically or using a PC and the TiSferaDesign software
1	352000	**Additional 4-pushbutton modules arranged on single column.** To be used with speaker modules 351000 - 351100 and audio/video modules 351200 - 351300.Connection using the appropriate multicable supplied. Backlighting of nameplates controlled by the speaker module or the audio/video module connected. To be completed with surround plate
1	352100	**Additional 8-pushbutton modules arranged on double column.** To be used with speaker modules 351000 – 351100 and audio/video modules 351200 - 351300. Connection using the appropriate multicable supplied. Backlighting of nameplates controlled by the speaker module or the audio/video module connected. To be completed with surround plate
1	352200	**Nameplate module** normally used for displaying the house number or other notifications (e.g. Legend for calls using digital pushbutton panels, opening/ closing times, etc.). Connection using the appropriate multicable supplied. Night backlighting controlled by the speaker module or the audio/video module connected. To be completed with surround plate

352400

352500

352700

353000

353200

346993

348200

348201

348202

348203

348204

348205

348206

348207

348402

Pack	Item	Electronic modules
1	352400	**Night & Day and wide angle camera module** for the installation of colour video systems. Fitted with 1/3" sensor with N&D function and automatic removal of the IR filter. IR LED for the lighting of the field of view. Mist prevention heating resistance. Automatic brightness adjustment. Connection to the speaker module (351100) using the multicable supplied. To be completed with surround plate
1	352500	**Graphic display module** to be used with speaker module 351100 or with audio/video modules 351200 – 351300 (connection using the multicable supplied). It can operate in two modes: call from address book, or digital call. The call from the address book gives the possibility of sending the call by scrolling on the display the names associated to the residents. It is possible to store up to 4000 residents names. Using the keypad module item 353000 it is also possible to directly call the apartment by entering the number corresponding to the resident. The digital call is also performed using the keypad module item 353000 by entering the numerical code. It is recommended that one or more nameplate modules, item 352200, are installed at the side of the pushbutton panel to display the correspondence between the numerical codes and the names of the users. It is possible to program the names in the address book in two different ways: manual inclusion using the pushbuttons of the display module or inclusion using a PC with the TiSferaDesign software installed, by downloading the file to the display module (RECOMMENDED). System power supply cuts do NOT cause the loss of memory data. To be completed with surround plate
1	352700	**Inductive loop and control speech synthesis module** to be used with the 351100 speaker module or with audio/video modules 351200 - 351300. Enable use by people wearing hearing aids (fitted with T selector) or blind people thanks to the connection status voice message synthesis (call active, call ended, no answer, busy, door open). It is connected to the speaker module using the appropriate multicable supplied. To be completed with surround plate. The device can be configured either physically or using the PC and the TiSferaDesign software

Pack	Item	Electronic modules
1	353000	**Keypad module** for door lock release, or for the digital call of the apartment (to be used with the display module). It is fitted with relay with contacts (C – NC – NO) and clamps (CP- P1 – P2) for the connection of a local door lock release pushbutton. The numerical code for the opening of the door lock can be programmed using the keypad itself, or using a PC after downloading the module programming file. It also has a programming reset pushbutton and LEDS for the visual notification of the access status. Night backlighting with LEDs. To be completed with surround plate. It is connected to the other modules using the appropriate multicable supplied. The device may also be used as a stand alone unit with independent power supply and operation per la sola apertura serratura. Configuration performed using physical configurators, or a PC with the TiSferaDesign software installed
1	353200	**RFID badge reader module** for the release of the door lock by swiping the badge. It manages up to 20000 badges. It's fitted with relay contacts (C – NO - NC) and clamps (CP - P1 - P2) for the connection of a local door release pushbutton. The badge for the release of the door lock can be programmed from the module itself, or using a PC after downloading the module programming file. It also has a programming reset pushbutton and LEDS for the visual notification of the access status. Night backlighting a LEDs. To be completed with surround plate. It is connected to the other modules using the appropriate multicable supplied. The device may also be used as a stand alone unit with independent power supply and operation. Configuration performed using physical configurators, or a PC with the TiSferaDesign software installed
1	346993	**Expander pushbutton module** that gives the possibility of connecting call pushbuttons to the SFERA speaker modules (items 351000; 351100; 351200; 351300). Each module can manage up to 8 call pushbuttons. It is possible to connect several expander pushbutton modules (max 96 call pushbuttons for each Entrance Panel)

		Transponder keys and programmer
10	348200	Black transponder key
10	348201	Red transponder key
10	348202	Green transponder key
10	348203	Blue transponder key
10	348204	Orange transponder key
10	348205	Grey transponder key
10	348206	Yellow transponder key
10	348207	White transponder key
1	348402	Table-top transponder key programmer

SFERA NEW VIDEO

Examples of composition with wide angle Night and Day camera module, item 352400

		FLUSH MOUNTED BOXES		FRAME + SURROUND PLATE		ELECTRONIC MODULES			
						N/D camera	Speaker module	4 pushbuttons	8 pushbuttons
PUSHBUTTONS ON SINGLE ROW	No. of calls	350020	350030	35022..	35023..	352400	351100	352000	352100
	1	1		1		1	1		
	2	1		1		1	1		
	3		1		1	1	1	1	
	4		1		1	1	1	1	
	5		1		1	1	1	1	
	6		1		1	1	1	1	
PUSHBUTTONS ON DOUBLE ROW	7		1		1	1	1		1
	8		1		1	1	1		1
	9		1		1	1	1		1
	10		1		1	1	1		1
	11		1		1	1	1		1
	12		1		1	1	1		1
	13	2		2		1	1		2
	14	2		2		1	1		2
	15	2		2		1	1		2
	16	2		2		1	1		2
	17	2		2		1	1		2
	18	2		2		1	1		2
	19	2		2		1	1		2
	20	2		2		1	1		2

For the connection of modules installed side by side, cable item 354000 (L=620 mm) must be used

Digital call video composition with display module 352500 and keypad 353000

	FLUSH MOUNTED BOXES		FRAME + SURROUND PLATE		ELECTRONIC MODULES			
					N/D camera	Speaker module	Display	Keypad
	350030	350010	35023..	35021..	352400	351100	352500	353000
without keypad	1		1		1	1	1	
with keypad	1	1	1	1	1	1	1	1

NOTE: the display module item 352500 provides storage for up to 4000 residents names.

CAMERA + AUDIO PUSHBUTTON FRONT COVERS

35240..	35110..	35111..	35112..	35203..	35204..	35114..	35118..	35216..	35218..
1		1							
1			1						
1	1			1					
1	1				1				
1			1	1					
1			1		1				
1	1								1
1	1								1
1						1			1
1						1			1
1							1		1
1							1		1
1	1							1	1
1	1							1	1
1	1								2
1	1								2
1						1			2
1						1			2
1							1		2
1							1		2

FRONT COVERS

35240..	35110..	35250..	35300..
1	1	1	
1	1	1	1

KEYPAD COLOUR RANGE

Replace the dots in the item code with the number corresponding to the desired colour

1. Allmetal

2. Allwhite

3. Allstreet

WARNING

- Add to the system composition any configurators needed (software configuration using TiSferaDesign recommended).
- As an alternative to using the flush mounted boxes indicated, installation is also possible using wall mounted boxes with rainshield, available in different modularities (see catalogue).
- 1 to 9 module rainshields are available on request (see catalogue).
- The shown compositions are examples. It is however possible to install compositions with pushbuttons on single or double rows depending on needs.

SFERA ROBUR VIDEO

Examples of composition with wide angle Night and Day camera module, item 352400

		FLUSH MOUNTED BOXES WITH TEARING PROTECION		SUPPORT FRAME		ELECTRONIC MODULES						
						N/D camera	Speaker module	4 pushbuttons	8 pushbuttons			
	No. of calls	350120	350130	350325	350335	352400	351100	352000	352100	352405	351105	
PUSHBUTTONS ON SINGLE ROW	1	1		1		1	1			1		
	2	1		1		1	1			1		
	3		1		1	1	1	1		1	1	
	4		1		1	1	1	1		1	1	
	5		1		1	1	1	1		1		
	6		1		1	1	1	1		1		
PUSHBUTTONS ON DOUBLE ROW	7		1		1	1	1		1	1	1	
	8		1		1	1	1		1	1	1	
	9		1		1	1	1		1	1		
	10		1		1	1	1		1	1		
	11		1		1	1	1		1	1		
	12		1		1	1	1		1	1		
	13	2		2		1	1		2	1	1	
	14	2		2		1	1		2	1	1	
	15	2		2		1	1		2	1	1	
	16	2		2		1	1		2	1	1	
	17	2		2		1	1		2	1		
	18	2		2		1	1		2	1		
	19	2		2		1	1		2	1		
	20	2		2		1	1		2	1		

For the connection of modules installed side by side, cable item 354000 (L=620 mm) must be used

Digital call video composition with display module 352500 and keypad 353000

	FLUSH MOUNTED BOX		FRAME		ELECTRONIC MODULES			
					N/D camera	Speaker module	Display	Keypad
	350130	350110	350335	350315	352400	351100	352500	353000
without keypad	1		1		1	1	1	
with keypad	1	1	1	1	1	1	1	1

NOTE: the display module item 352500 provides storage for up to 4000 residents names.

CAMERA + AUDIO PUSHBUTTON FRONT COVERS								SURROUND PLATE	
351115	351125	352035	352045	351145	351185	352165	352185	350425	350435
1								1	
	1							1	
		1							1
			1						1
	1	1							1
	1		1						1
							1		1
							1		1
				1			1		1
				1			1		1
					1		1		1
					1		1		1
						1	1	2	
						1	1	2	
							2	2	
							2	2	
				1			2	2	
				1			2	2	
					1		2	2	
					1		2	2	

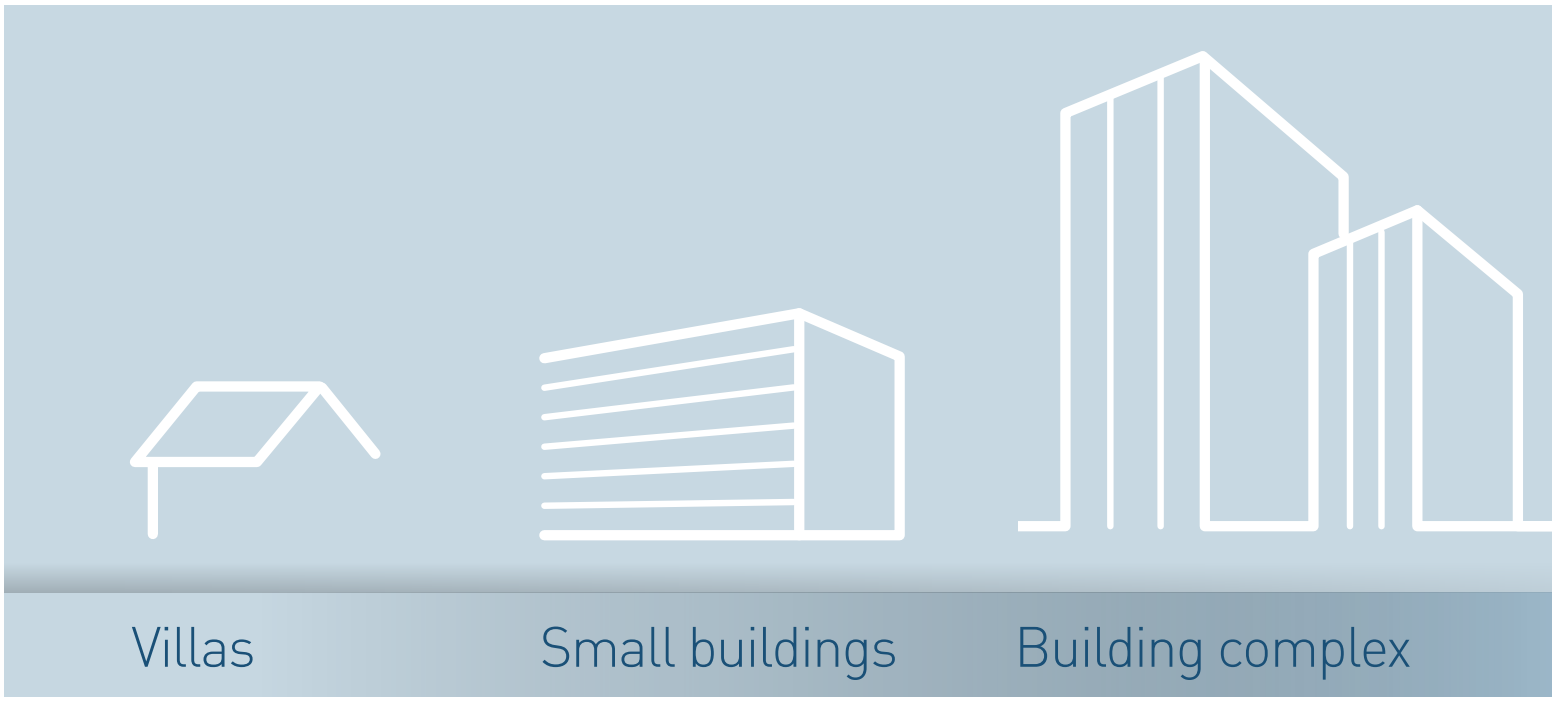
FRONT COVERS				SURROUND PLATE	
352405	351105	352505	353005	350435	350415
1	1	1		1	
1	1	1	1	1	1

WARNING

- Add to the system composition any configurators needed (software configuration using TiSferaDesign recommended).
- In alternative to flush mounted steel boxes with tearing protection, it is also possible to use plastic flush mounted boxes, items 350020 - 350030.
- SFERA ROBUR can be wall mounted using the specific boxes with built-in rainshield, available in several modularities (see catalogue).
- 1 to 9 module rainshields are available on request (see catalogue).
- The shown compositions are examples. IT is however possible to install compositions with pushbuttons on single or double rows depending on needs.

DIFFERENT SOLUTIONS FOR DIFFERENT APPLICATIONS

From villas to multi-family units



Different types of constructions mean different types of offer

INTERNAL UNITS RANGE

CLASSE 300
CLASSE 100

2 WIRES SYSTEM
INTERNAL UNITS
Overview and features

	Classe 300X13E	Classe 300V13E	Classe 100V12E
Audio			
Colour video	■	■	■
Handsfree	■	■	■
Finishes / Colours	Light finish Dark finish	Light finish Dark finish	White
Display	LCD Touch Screen 7"	LCD Touch Screen 7"	LCD 4,3"
Answering machine	■		
Call redirection on smartphone	■		
Floor call	■	■	■
Door lock release	■	■	■
Staircase light control	■	■	■
Scrolling EP activation	■	■	■
Intercom (1)	■	■	■
Inductive loop (2)	■	■	■
Professional studio function	■	■	■
Note / message function	■	■	
Type of installation	Wall mounted Table-top installation	Wall mounted Table-top installation	Wall mounted Flush mounted Table-top install.

(1) The intercom function allows for up to 3-minute communication between and among video door entry systems in the same apartment / in different apartments.
(2) Use by people wearing hearing aids fitted with (T) selector.

The pictures shown on the display are exclusively for illustrational and promotional purposes.

CLASSE 300X13E

MODERN
CONNECTED
SIMPLE

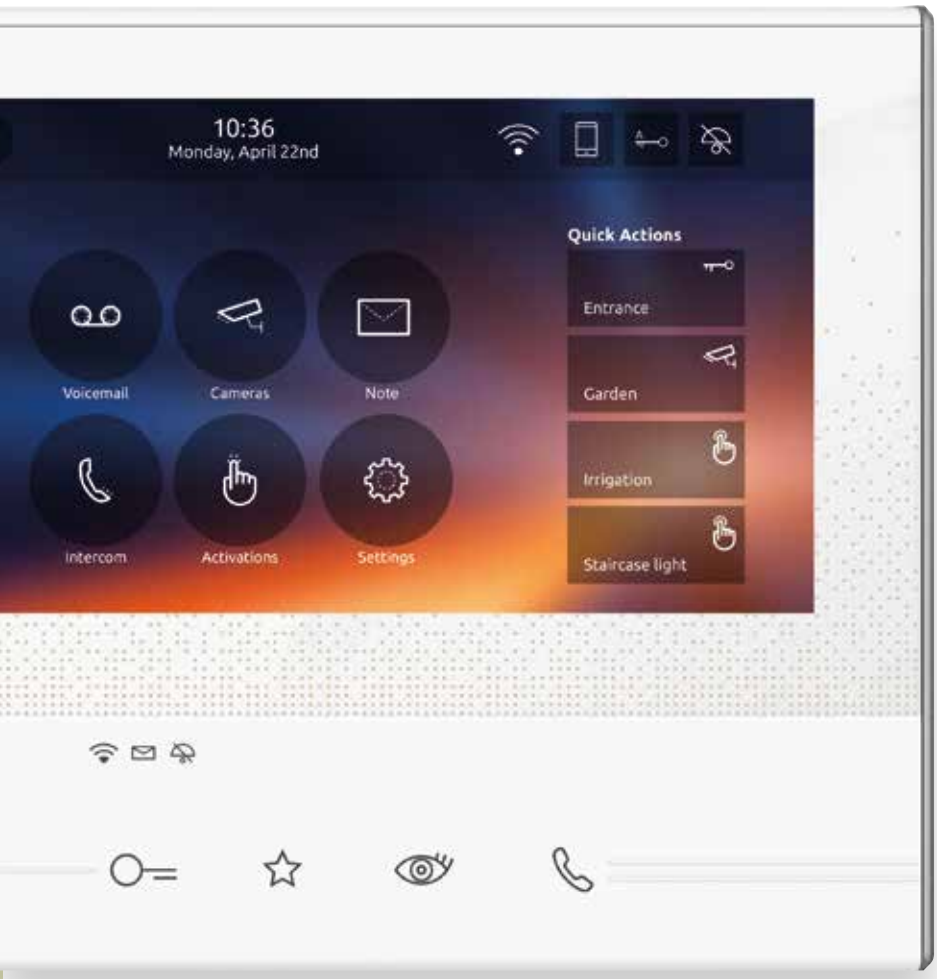
2 WIRES SYSTEM

The facility of BTicino 2 wires technology with the advantage of the connection for more functions and extra services

CLASSE 300X13E is the connected video internal unit which combines modernity and innovation thanks to the communication between smartphone and video internal unit. The integrated Wi-Fi connectivity allows the connection with your smartphone and, thanks to the dedicated App, you can manage the video door entry calls in an innovative and functional way.
Featuring a wide 7" Touch Screen display, it is ideal for all clients who care about technology and innovation, thanks to its unique design.

Always in contact with your home.

The possibility of managing the different functions using a smartphone is added to the installation simplicity offered by the CLASSE 300X13E. Both inside and outside the home you will be able to manage calls, answering machine, open the gate, activate the camera or operate the timed garden lights... Everything with a simple touch.



2 wires standard installation

Thanks to the integrated Wi-Fi connectivity, Classe 300X13E does not require work on the walls and follows the **same installation rules as a "normal" 2 wires video internal unit**.

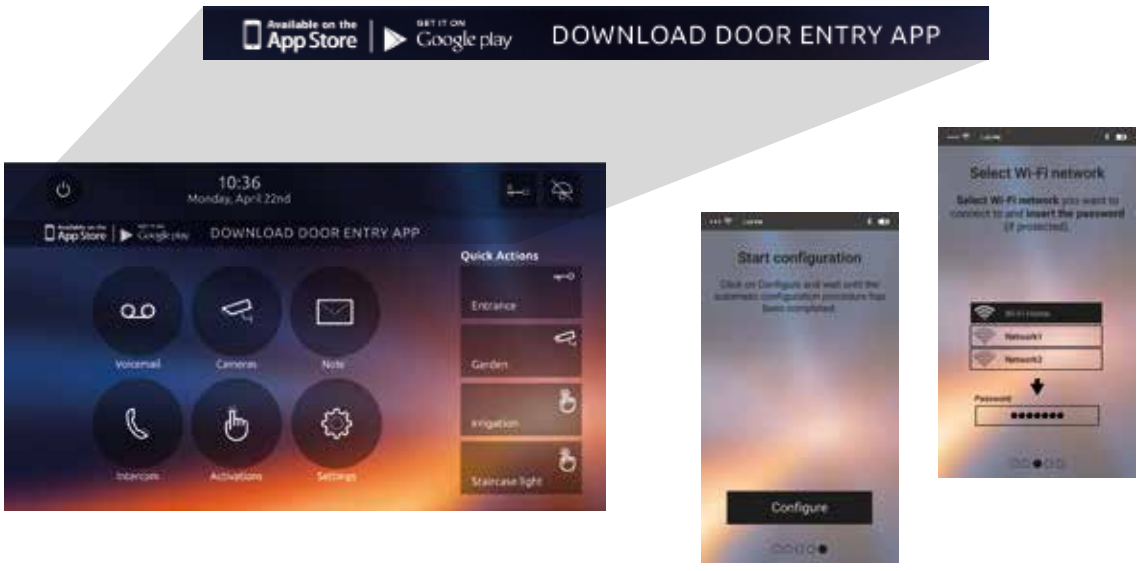
THE ADVANTAGES

CLASSE 300X13E DOES NOT CHANGE THE INSTALLATION RULES

Forget installation complexity and configurating an Ethernet network and keep the simplicity of 2 wires connection. Everything stays the same thanks to the Wi-Fi technology integrated in the video internal unit.

Simple and intuitive configuration

The configuration requires no IT skills. You must only configure the classic 2 wires system parameters (entrance panel and internal unit SCS addresses, etc.). Your customer manages all the configurations of the Wi-Fi network and the App independently and intuitively.
If necessary he can call the BTicino after-sales service directly by means of the Help button integrated in the application.



INTERNAL UNITS

CLASSE 300

344642

344643

Pack	Item	**CLASSE 300X13E Connected video internal units**
1	344642	2 wire/Wi-Fi handsfree video internal unit with inductive loop, 7” Touch Screen LCD display and video door entry answering machine with call audio/video memory – light finish. It has capacitive keys for the control of the main video door entry functions: door lock release, handsfree connection, entrance panel activation /camera scrolling and Favorite key (can be configured to activate the quick actions most frequently used - eg: staircase lights control, Intercom, additional activations). Tactile guide for easy access to door lock and handsfree capacitive connection keys. LEDs used for: call exclusion, notification of messages from switchboard and note. Access to adjustments and functions using the touch display. NOTE function - for writing using the keypad, or for voice recording of messages and/or notes for the other residents of the apartment (e.g.: call plumber, do the shopping, etc.). Possibility of voice communication with the switchboard - if present in the system - after a specific call. The device must be configured by physically connecting the configurators, or using the menu, which will give better possibilities of customisation of associated functions and texts. Also, thanks to the Wi-Fi connection, you can associate the video internal unit to the Door Entry App (available for Android and iOS). You can manage the main video internal unit functions (receiving calls, opening the door lock, activating the entrance panel/cycling and extra activations).
1	344643	As item 344642, but dark finish

Download on the App Store

GET IT ON Google Play

DOOR ENTRY is the App which lets you, using your smartphone, manage the video internal unit calls locally and remotely or with a simple touch open the gate, activate the cameras, manage the answering machine, and switch the garden timed lights on. Configuring the App needs just a few steps and, thanks to the BTicino Cloud, the remote connection is totally automated and managed with the maximum level of security.

344612

344613

346020

344632

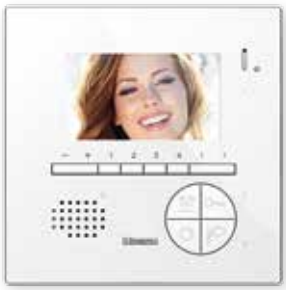
336803

Pack	Item	CLASSE 300V13E video internal units
1	344612	2 WIRE handsfree video internal unit with inductive loop and 7" colour Touch Screen LCD display – light finish. It has touch sensitive keys for the control of the main video door entry functions: door lock release, handsfree connection, entrance panel/scrolling activation and favorite key (can be configured to activate the quick actions most frequently used - eg: staircase lights control, intercom, additional activations). Tactile guide for easy access to door lock and handsfree capacitive connection keys. LEDs used for: call exclusion, notification of messages from switchboard and memo. Access to adjustments and functions using the touch display. NOTE function - for writing using the keypad, or for voice recording of messages and/or notes for the other residents of the apartment (e.g.: call plumber, do the shopping, etc.). The device must be configured by physically connecting the configurators, or using the menu, which will give better possibilities of customisation of associated functions and texts. 16 different ringtones available. Wall mounted installation using the bracket supplied and table-top installation (with support 344632) to be purchased separately.
1	344613	As item 344612, but dark finish

		Accessories for table top installation
1	344632	Accessory support for the table top installation of all the Classe 300 range internal units.
1	336803	8 – Way cable with connector for the table top installation connection.

INTERNAL UNITS

CLASSE 100



344522

Pack	Item	**CLASSE 100V12E handsfree video internal unit**
1	344522	2 WIRE handsfree colour video internal unit with inductive loop, preset for different types of installations, depending on the accessories used: wall mounted, flush mounted, table mounted, with side-by-side handset, and tilted, both when wall mounted and when flush mounted. It has a 4.3" (16:9) colour LCD display. Keys available: entrance panel/scrolling activation, door lock release, staircase lights control, handsfree connection and 4 configurable keys. Depending on the configurators connected to (M), the 4 configurable keys will perform different functions (e.g. Intercom, additional door lock activation, generic activations). LEDs used for: call exclusion, door status, connection with the entrance panel. Possibility of audio and ringtone volume adjustment (with call exclusion), as well as display colour, brightness, and contrast adjustment, using the appropriate rocker keys, after accessing the menu using the dedicated keys. 16 different ringtones available For wall mounted installation, the bracket supplied must be used. For all other types of installation, the appropriate accessories must be purchased separately. The device must be configured

CLASSE 100 V12E

The solution that ensures maximum installation and functional flexibility

INTERNAL UNITS

CLASSE 100

344572

344562

344552

344582

Pack	Item	
		Flush mounted installation accessory
1	344572	Accessory device for the flush mounted installation of CLASSE 100V12E (344522) video internal unit. The box and the flush mounted bracket are supplied with the accessory
		Device tilting accessory for flush mounted installation
1	344562	Accessory device for the flush mounted tilted installation of CLASSE 100V12E (344522) video internal unit. This mode of installation enables the user to tilt the video internal unit, adapting adapting it to different viewing angles of the display (e.g. installing the devices at reduced heights for use by disabled people). The box and the flush mounted floating bracket are supplied with the accessory
		Device tilting accessory for wall mounted installation
1	344592	Accessory device for the wall mounted tilted installation of CLASSE 100V12E (344522) video internal unit. This mode of installation enables the user to tilt the video internal unit, adapting adapting it to different viewing angles of the display (e.g. installing the devices at reduced heights for use by disabled people). The wall mounted floating bracket is supplied with the accessory
		Accessories for table support and cable
1	344552	Accessory device for the table-top installation of all CLASSE 100 internal units and video internal units
1	336803	8-way cable with connector for table-top base installation
		Handset accessory
1	344582	Accessory device for the wall mounted or table-top installation with handset at the side (support to be purchased separately) for CLASSE 100V12E (344522), video internal unit. With this type of installation, the device can be used to communicate in both ways: using the handset or in handsfree mode. The accessory includes the basic support for the housing and the wall mounting of the video internal unit and the integrated audio handset. No. 2 supports 344552 are required for table-top installation (to be purchased separately)

INTERNAL UNITS

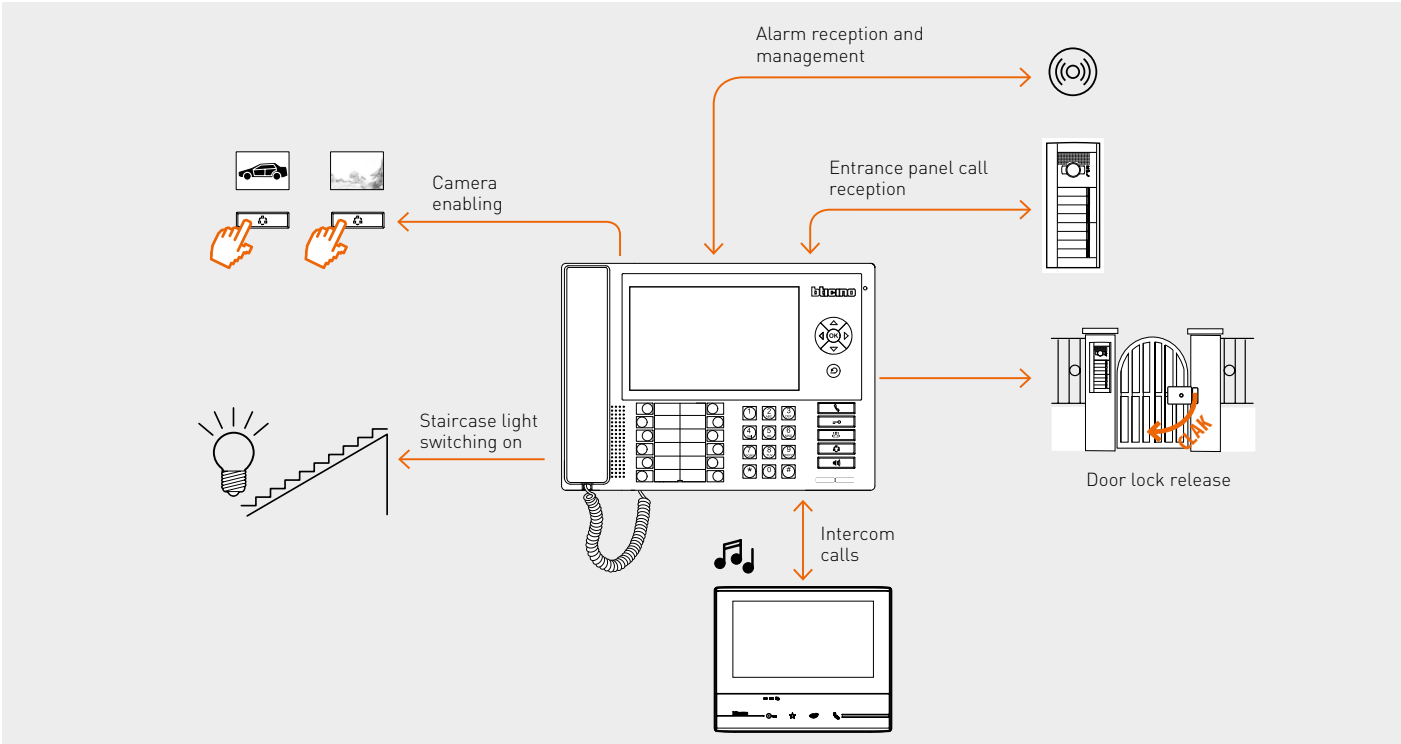
Porter switchboards

346310

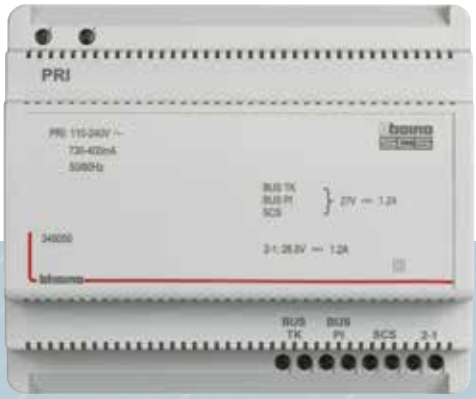
346300

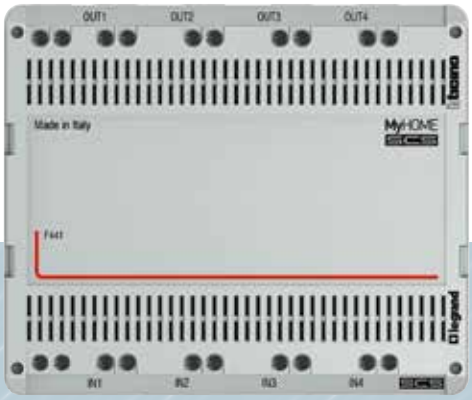
Pack	Item	Switchboard and accessories
1	346310	Switchboard for 2 WIRE audio and video systems. Allows access to various services (video door entry functions, door lock/ staircase light management and apartment alarm monitoring) directly from the keypad or via the intuitive icon menu. The switchboard is supplied with an integrated table supporting frame and also features a 7" colour LCD display, receiver and speaker phone, dedicated keys for the main functions and keys which can be configured. The programming can be carried out directly from the device or via PC with TiSwitchBoardDevice software (supplied). The device can manage the phonics of the riser EP (i.e. wired downstream of interface 346851); it cannot however manage the apartment EP (i.e. wired downstream of interface 346850). The use of an additional power supply is recommended. It is possible to connect up to a max. of 16 switchboards (configured from 0 to 15). **WARNING: the switchboard cannot be used in systems with 2 WIRE-IP interface 346890. The new HIERARCHICAL mode is available only with the entrance panels of the following series: Sfera New, Linea 100, Minisfera, Linea 300.**
1	336982	White 8-way socket for table top installation of switchboard item 346310
1	336803	8 – Way cable with connector for the table top installation connection.

Pack	Item	SOFTSWITCHBOARD software
1	346300	Switchboard software for the management of audio and video door entry system calls. The software (Windows operating system compatible) can be installed on any desktop or laptop PC, and gives the possibility of receiving, managing and transferring the calls from the entrance panel and the handset. It implements home video monitoring, with cyclical display of the cameras, night and day functions, and the possibility of displaying the alarms in the various apartments. - Supported operating systems: Microsoft Windows XP Service Pack 2, Windows Vista and Windows 7. - Software required: NET Framework 3.5 or higher



SYSTEM accessories Range





SYSTEM ACCESSORIES

Accessories

346000 ⧈ SELV

346030 ⧈ SELV

346040 ⧈ SELV

F441

346850

346830

F441M

346050 ⧈ SELV

Power supplies

Pack	Item	
1	346000	Power supply for 2 WIRES audio and video systems in 8 DIN modular enclosure. Power supply 230 Vac @ 50-60 Hz. The output provides 27 Vdc continuous low voltage, with maximum current of 1.2 A. It is electronically protected (without fuse) against overload and short circuit. It is a SELV double insulation safety device.
1	346050	Power supply for 2 WIRES system in 6 DIN modular enclosure. Power supply 110 – 240 Vac @ 50 – 60 Hz. The output provides two power supplies in very low safety voltage (one on the 3 TK BUS, IU BUS and SCS clamps, one on the 1 - 2 clamp) to be used alternately and NOT at the same time. To be used in audio, video or mixed audio video systems. The video adapter is integrated in the device (item 346830 must not be used). It is therefore possible to avoid the use of the A/V node (F441) or the Multi-channel Matrix (F441M), if three junctions (MAX 2 IU + 1 TK risers or 1 IU + MAX 2 TK risers) are not exceeded in total from the clamps. It can also be used as additional power supply (1 - 2 output) for the local power supply of the preset internal units or entrance panels (in this case it is not possible to use other outputs). The device is electronically protected against overload and short circuit. It is a SELV double insulation safety device. The installation must be made in compliance with current regulations. The device must not be configured. **WARNING: the (IU BUS), (TK BUS) and (SCS) outputs can be used at the same time respecting the total maximum absorption of 1.2 A. WARNING: Disconnect the power supply for 5 minutes after overload or short circuit.**
1	346040	Power supply for 2 WIRES audio systems in 6 DIN modular enclosure. Power supply 110 – 240 Vac @ 50-60 Hz. The output provides 26 Vdc low rated voltage, and a maximum rated current of 600 mA and it is protected on the PRI side (with fuse) against overload and short circuit. It is a SELV double insulation safety device.
1	346030	Mini power supply with integrated video adapter to make small 2-WIRES video systems (intercom). 2 DIN modular enclosure. Power supply 230 Vac @ 50-60 Hz. The output provides 27 Vdc continuous low voltage, with maximum current of 600 mA and it is protected on the PRI side (with fuse) against overload and short circuit. It is a SELV double insulation safety device.
1	346020	Additional power supply to be used to supply the set up entrance panels and internal units locally. 2 DIN modular enclosure. Power supply 230 Vac @ 50-60 Hz. The output provides 27 Vdc continuous low voltage, with maximum current of 600 mA and it is protected on the PRI side (with fuse) against overload and short circuit. It is a SELV double insulation safety device.

Video mixers

Pack	Item	
1	346830	Video adapter in 2 DIN modular enclosure. Allows the connection to the 3-BUS system. Systems can thus be made with 2 video entrance panels and 1 riser and with 1 video entrance panel and 2 risers. The device must be coupled to the power supply of system 346000
1	F441	Audio video node in 6-DIN modular enclosure set up with 4 input terminals and 4 output terminals. Can connect up to 4 source devices (entrance panels or cameras) in input and up to 4 2-WIRES video risers in output. The device must be used with the system power supply 346000. It must be used as an alternative to the audio video adapter 346830
1	F441M	Multi-channel matrix in 10 DIN modular enclosure. Set up for the connection of video entry system entrance panels, cameras and sound system sources in input and internal units and amplifiers in output. 4 inputs are dedicated to entrance panels/cameras and 4 to the sound system sources. It can be used to create multi-channel sound systems. The device must be used with the system power supply 346000. In the systems it replaces the video adapter 346830 and the audio video node F441

System interfaces

1	346850	Apartment interface in 4 DIN modular enclosure. Can interface a dedicated apartment video door system with local CCTV, sound system and control of the Home automation applications to a 2-WIRES riser. The device must be configured using physical configurators
1	346851	System expansion interface in 4 DIN modular enclosure. Can double the length of the entrance panel-internal unit line, create risers with independent sound and expand the performance of the apartment system. The device must be configured using physical configurators

346891

346230

346260

346841

347400

346870

346210

346250

3499

354000

Pack	Item	**Interfaces with other BTicino systems**
1	346891	Can make very large mixed 2 WIRES/IP systems with a large number of devices, thanks to the creation of an IP backbone with 2-WIRES risers. The device must be configured using physical configurators or using the software
1	346150	8/2-WIRES interface in 6 DIN modular enclosure. Can make mixed video door entry systems (8-WIRES digital backbone/2-WIRES risers). The device must be configured using physical configurators
1	349410	Analogue/2 WIRES interface in 4 DIN modular enclosure. Can interface a dedicated apartment 2-WIRE video door entry system with cameras and control of the MyHOME applications to an analogue riser, digital 8-WIRES, audio TERSYSTEM and VIDEOPORTER 2000.
		DIN actuators
1	346210	Relay actuator in 2 DIN modular enclosure. Can switch on lights, open gates, repeat the call on bells (MOD=SLA) or control other devices from the video internal units. The device must be configured using physical configurators
1	346230	Door lock relay actuator in 2 DIN modular enclosure. Can supply power and activate an electrical door lock. The device must be configured using physical configurators
1	346260	Timed door lock relay actuator in 4 DIN modular enclosure. Can switch on lights, open gates or manage electro-magnetic door locks, timed door opening and door lock status (with NC contact). The device must be configured using physical configurators

Pack	Item	**Devices in basic enclosure**
1	346841	Floor shunt with 4 outputs Can make 2-WIRES video door entry systems with star wiring distribution. The device automatically adapts the video signal. Its small size means it can also be placed inside the flush-mounted box
1	346833	Call to the floor interface. By connecting a traditional pushbutton, the following functions will be possible: general call to the floor, addressed call to the floor, staircase lights on, and door lock release (specific actuator needed) and association of the video image to the call to the floor. The device must be configured using physical configurators
1	347400	Interface for the conversion of the coaxial signal into a 2 WIRES BUS signal. It can be used to connect to the BUS of the 2 WIRES video door entry system a camera with coaxial video output powered at 12 Vdc, with maximum absorption 150 mA and 1 Vpp video output (75 Ω). The device must be configured using physical configurators
		Wiring accessories
1	346870	2 WIRES video amplifier. In video systems wired using non-twisted wires, where the distance between the entrance panels and the internal unit exceeds 50 metres, it enables increasing such distance to up to 100 metres
1	346250	Relay module for gate opening to be used with LINEA 2000, LINEA 3000, MINISFERA and SFERA pushbutton panels. Can open door locks (NOT managed by BUS) by means of the entrance panel
1	336813	Cable (RJ45/8 POLES) for table-top connection of the video internal units
5	3499	Line terminator. To be used to terminate the riser or apartment line, when the last installed device is not tted with line closing micro switch
1	354000	Flat cable for the connection of several SFERA NEW and SFERA ROBUR pushbutton modules. Length 620 mm

SYSTEM ACCESSORIES

Accessories

346991

336904

346982

346984

336910

391658

391662

391670

Pack	Item	**Universal speaker unit and expansion module**
1	346991	The universal speaker unit can be used to install the 2 WIRES audio system in new or refurbished systems, where pushbutton panels of other manufacturers are present or required (mail boxes, patterned brass, compact sheet metal units, etc.), preset for a traditional speaker module (e.g. 2659N). The universal speaker unit has, as base, contacts for the connection of 8 call keys; to make systems with more keys (up to 56 using the 346000 power supply and up to 24 with the 346010 power supply one or more key expension modules must be used (1 every 8 pushbuttons).
1	346992	Expansion module for connecting more than 8 call keys to item 346991 - max. 6 modules (56 calls max.) with power supply 346000. Max. 2 modules (24 calls max.) with power supply 346010
		Cable for systems
1	336904	Specific cable for 2 WIRES video door entry applications with 2 twisted conductors. It can be installed in underground piping, in accordance with standards (CEI 20-13 and CEI 20-14). It ensures the best performance in video systems (higher distance between EP and Handset when compared with other cables). 200 m coil

Pack	Item	**Melodic bells**
1	346982	2 WIRES melodic bell - LIVINGLIGHT white. Can repeat the video door entry call in several rooms. Wall mounted installation with accessories and front cover plates of the LIVINGLIGHT series.
1	346983	As 346982 - LIVINGLIGHT anthracite
	346984	As 346982 - LIVINGLIGHT tech
	349412	As 346982 - AXOLUTE tech
	349413	As 346982 - AXOLUTE anthracite
		Additional bell
1	336910	Additional bell in neutral finish. Can repeat the video door entry call in several rooms. Wall mounted installation or in round box (with fastening clips)
		2 wires indoor cameras
1	391658	Flush mounted colour camera - LIVINGLIGHT white. 3.7 mm fixed optics, 1/3" CCD, resolution 380 horizontal lines. Fitted with microphone. The device must be configured using physical configurators
1	391659	As 391658 - LIVINGLIGHT tech
1	391657	As 391658 - LIVINGLIGHT anthracite
1	391663	As 391658 - AXOLUTE white
1	391661	As 391658 - AXOLUTE tech
1	391662	As 391658 - AXOLUTE anthracite
		2 wires outdoor camera
1	391670	Outdoor compact colour camera in IP 65 enclosure. 6 mm fixed optics, 1/3" CMOS, resolution 330 horizontal lines. The device must be configured using physical configurators

3501/0 3501/1 3501/2 3501/3 3501/4 3501/5 3501/6 3501/7 3501/8 3501/9

3501K

2 WIRES SYSTEM

Pack	Item	**Configurators (package of 10 pieces)**
10	3501/0	Configurator 0
10	3501/1	Configurator 1
10	3501/2	Configurator 2
10	3501/3	Configurator 3
10	3501/4	Configurator 4
10	3501/5	Configurator 5
10	3501/6	Configurator 6
10	3501/7	Configurator 7
10	3501/8	Configurator 8
10	3501/9	Configurator 9
10	3501/JMP	Configurator JMP

Pack	Item	**Configurator kit**
1	3501K	Configurator kit consisting of: - 10 pieces for each type of configurator from 0 to 9 - 2 blue removable 8-clamp connectors - 2 green removable 2-clamp connectors - 1 configurator connection tool (3502) - 1 plastic screwdriver

THE "FULL EXPANDABLE" SOLUTION

- The 2-wire technology allows maximum flexibility and expandability
- From basic functions to advanced functions such as call redirection on smartphone, video door entry answering machine, intercom and door opening with badge
- Modular DIN-rail power supply
- Include a manual with all the technical information required for the installation, connection, features and expansion possibilities.

EXPANSION

Expand the kit with other devices such as additional entrance panels, internal units, cameras, and home automation devices.

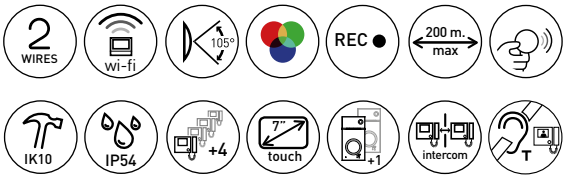
2 WIRES
FULL EXPANDABILITY

VIDEO KITS

SUITABLE FOR VILLA STANDARD - HIGH LEVEL APPLICATIONS

PROFESSIONAL KIT
VILLA VIDEO KIT

363911



Pack	Item	
		CLASSE 300X13E – LINEA 3000 hands-free video kit with call redirection on smartphone and door lock release key cards One-family handsfree kit with: Classe 300X13E video internal unit in light finish with Wi-Fi, handsfree, Inductive Loop, 7" Touch screen LCD display and video door entry answering machine with call audio/video memory; LINEA 3000 pushbutton panel with zamak front cover, wide angle colour camera and proximity reader and with a kit of coloured key cards and two door lock release clear discs. Can be configured for one-family or two-family installations. It can manage a maximum of 20 key cards (125 KHz) for the electric door lock release (including the one for the system management). Nameplate lit by white LED. Can be wall or flush installed with specific accessories: (350020) flush mounted box with (343061) flush mounted accessory - to be purchased separately. Can be fitted with rainshield (343051) – to be purchased separately. The pushbutton panel has a protection index IP54 - protection index against mechanical impact IK10. Thanks to the Wi-Fi connectivity integrated in the video internal unit, it is possible to associate the device to the Door Entry App (available for Android and iOS). You can manage the main video internal unit functions (receiving calls, opening the door lock, activating the entrance panel/cycling and extra activations). The video internal unit has call audio/video memory and Inductive Loop function (to enable use by people wearing hearing aids fitted with T selector). It has capacitive keys for the control of the main video door entry functions: door lock release, handsfree connection, activation of entrance panel/camera scrolling and Favorite key (can be configured to activate the quick actions most frequently used - eg: staircase lights control, Intercom, additional activations). Access to configuration, adjustments and functions using the touch display with graphic interface. Wall-mounting or table-top installation with specific support (344632) - to be purchased separately.
1	363911	**Complete one family kit** (Easy switch to two families system by purchasing an additional internal unit - refer to 2 Wires system internal units range).

DOOR ENTRY is the App which lets you, using your smartphone, manage the video internal unit calls locally and remotely or with a simple touch open the gate, activate the cameras, manage the answering machine, and switch the garden timed lights on. Configuring the App needs just a few steps and, thanks to the BTicino Cloud, the remote connection is totally automated and managed with the maximum level of security.

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