BTicino answers

For all the technical or commercial information go to the BTicino site.

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E-mail: bticino.international@bticino.it

To send a free fax forward it to

+39.02.3480708
<table>
<thead>
<tr>
<th>Numeric index</th>
<th>2</th>
</tr>
</thead>
<tbody>
<tr>
<td>MY HOME general features</td>
<td></td>
</tr>
<tr>
<td>General features</td>
<td>3</td>
</tr>
<tr>
<td>The possible functions</td>
<td>8</td>
</tr>
<tr>
<td>MY HOME SOUND SYSTEM</td>
<td></td>
</tr>
<tr>
<td>General features</td>
<td>15</td>
</tr>
<tr>
<td>Catalogue</td>
<td>22</td>
</tr>
<tr>
<td>General rules for installation</td>
<td>27</td>
</tr>
<tr>
<td>Wiring diagrams</td>
<td>32</td>
</tr>
<tr>
<td>Configuration</td>
<td>48</td>
</tr>
<tr>
<td>Technical features</td>
<td>53</td>
</tr>
<tr>
<td>Dimensional data</td>
<td>64</td>
</tr>
<tr>
<td>Item</td>
<td>Catalogue page</td>
</tr>
<tr>
<td>--------</td>
<td>----------------</td>
</tr>
<tr>
<td>3499</td>
<td>26</td>
</tr>
<tr>
<td>3515</td>
<td>26</td>
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<td>3527</td>
<td>23</td>
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<td>335919</td>
<td>26</td>
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<td>334904</td>
<td>26</td>
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<tr>
<td>334982</td>
<td>24</td>
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<td>334983</td>
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</tr>
<tr>
<td>3559</td>
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<td>26</td>
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<tr>
<td>3301/1</td>
<td>26</td>
</tr>
<tr>
<td>3301/2</td>
<td>26</td>
</tr>
<tr>
<td>3301/3</td>
<td>26</td>
</tr>
<tr>
<td>3301/4</td>
<td>26</td>
</tr>
<tr>
<td>3301/5</td>
<td>26</td>
</tr>
<tr>
<td>3301/6</td>
<td>26</td>
</tr>
<tr>
<td>3301/7</td>
<td>26</td>
</tr>
<tr>
<td>3301/8</td>
<td>26</td>
</tr>
<tr>
<td>3301/9</td>
<td>26</td>
</tr>
<tr>
<td>3301/AMB</td>
<td>26</td>
</tr>
<tr>
<td>3301/GEN</td>
<td>26</td>
</tr>
<tr>
<td>3301/SLA</td>
<td>26</td>
</tr>
<tr>
<td>3501K</td>
<td>26</td>
</tr>
<tr>
<td>3501K/1</td>
<td>26</td>
</tr>
<tr>
<td>F441</td>
<td>22</td>
</tr>
<tr>
<td>F500</td>
<td>22</td>
</tr>
<tr>
<td>F502</td>
<td>22</td>
</tr>
<tr>
<td>H4562</td>
<td>22</td>
</tr>
<tr>
<td>H4651/2</td>
<td>22</td>
</tr>
<tr>
<td>H4684</td>
<td>23</td>
</tr>
<tr>
<td>HC4560</td>
<td>22</td>
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<td>HC4565</td>
<td>25</td>
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MY HOME
GENERAL FEATURES
MY HOME
The home as you want it

MY HOME is a home automation system which offers state-of-the-art solutions, which are in increasing demand in the home and in the service sector. It offers all the house-automation functions and applications concerning comfort, safety, energy saving, communication and control.

A common feature of all the MY HOME devices is that they use the same system technology, based on the digital bus, so that the various system components can be combined as the customer chooses and requires.
The installation modularity and functional integration of the various devices also allows optimisation of costs, as the user can select which applications he wants to adopt now and which he will choose in the future.

MYHOME can, moreover, communicate with the outside world by means of special devices which interact with the home through fixed-line telephones and mobile phones and/or any Personal Computer via local network or Internet.

- Burglar-alarm
- Remote assistance
- Technical alarms
- Home CCTV

- Temperature control
- Energy management
- Activating the load timetable

- 2-wire digital door entry and video door entry systems
- Pabx switchboards

- Sound system
- Automation of lights and scenarios
- Automation of shutters
- Automatic switchboard rearming
MY HOME
The home as you want it

Today, the MY HOME system is also available in AXOLUTE styles and can cover all the domotic solutions associated with comfort, security, saving, communication and control. Furthermore, with AXOLUTE, advanced devices such as the colour Touch Screen, the VIDEODISPLAY and the VIDEOSTATION, add images to the control, thus providing the user with a simpler and more intuitive interface. The Bus technology and the configuration of the products have not changed and are common to all systems achieved so far with the LIVING, LIGHT and LIGHT TECH styles.

Totally free to choose the control

MY HOME brings you the maximum choice in selecting the control, thus enabling you to manage your own domotic system; from simple controls to controls for rooms, scenarios and local and remote monitoring.

■ BASIC CONTROL
Enabling and adjusting a single function with:
- standard controls
- infrared controls
- touch controls

■ ROOM CONTROL
Colour Touch Screen:
- customizable icons
- control of all functions of a single room
**MONITORING CONTROL**
- control of all system functions
- many customization possibilities
- simple and intuitive interface thanks to the use of sounds and images via the VIDEO STATION and VIDEO DISPLAY

**SCENARIO CONTROL**
The scenarios, complete with all the MY HOME functions, are stored in the scenario module and can be selected from different devices, depending on the user’s needs.
GENERAL FEATURES

MY HOME - 2 WIRE SOUND SYSTEM

MOTORISED ROLLING SHUTTERS
When you wake up you can control the movement of one or more rolling shutters to give more light in the home effortlessly.

SOUND SYSTEM AMPLIFIER
With a simple movement you can switch the radio on from anywhere in the home and listen to your favourite programme.

BURGLAR-ALARM CONTROL UNIT
You can monitor the whole house or just one particular room.

GAS-STOP DETECTOR
Just a small leak and the solenoid valve stops the gas escaping.

SAFETY

COMFORT - AUTOMATION

TOUCHSCREEN
Just one room command for several MY HOME functions.

MOTORISED ROLLING SHUTTERS
When you wake up you can control the movement of one or more rolling shutters to give more light in the home effortlessly.

COMFORT - SOUND SYSTEM
GENERAL FEATURES

**TEMPERATURE PROBE**
You can set different temperatures for each room and for every hour of the day. With savings up to 30%.

**SAVING - TEMPERATURE CONTROL**

**SAVING - ENERGY MANAGEMENT**

**SOCKET WITH ACTUATOR**
To disconnect the less important loads and avoid a blackout because of an overload.

**COMMUNICATION**

**MINIATURISED CAMERAS**
A friendly eye in each room lets you check the whole house.

**TELEPHONE WITH VIDEO SECTION**
In each device you will find all the communication you need with the interphone, video door entry and telephone functions.

**WEB SERVER**
By means of the computer you can control and activate your home even when you are away.
MY HOME WEB

My Home Web is the complete range of services which allow the user to manage and control remotely all the My Home functions of the home at any time and with different means of communication, such as a computer connected to the Internet, a hand-held computer or a telephone (fixed or mobile).

WHAT MY HOME WEB CAN DO
The following functions can be activated with a simple telephone or by connecting to the reserved area of the Internet MY HOME portal:

- **Controls**: to manage the lighting, heating, electrical appliances, power and all the automatic devices in the home.

- **Scenarios**: to simultaneously activate several predefined commands such as, for example, opening the gate and switching on the driveway lights at the same time, with just one action. A scenario saved in the system can be activated by means of a scenario unit and Web house-automation scenarios. The Web house-automation scenarios are scenarios programmed in the Web pages of the MY HOME portal.

- **Alarms**: when there is a dangerous event, the house contacts the telephone numbers and programmed addresses with a telephone call, an SMS and an e-mail with audio/video attached and automatically activates by responding to the preset actions (e.g. the automatic switching on of all the lights in the home).

- **Planning**: with a single order one can manage the watering or temperature control or simulate the presence of the user in the home. It will be possible to determine the actions that the house shall automatically perform during the days, hours and for the time periods chosen.

- **Archives**: MY HOME Web records all the actions and events which have occurred in the home and makes them available for consultation by the user.

- **Images**: to see the rooms of the house taken by the cameras in real time.

- **Answering machine**: an event such as a door-entry call can be notified to the user by sending SMS or e-mail messages with an audio/video attachment. The signal can also be consulted by entering the reserved area of the My Home portal.

- **Check**: the state of the home functions can be managed to find out, for example, whether the intrusion system is switched on, the lights are on etc..

MY HOME PORTAL
MY HOME WEB
The advantages

MY HOME WEB can check all the house-automation functions simply, customisable and conveniently. Simple because the user does not have to remember special passwords to access the service via telephone or computer. Customisable because the user can arrange schedules, WEB domotic scenarios as well as the answering machine introduction message. Convenient because thanks to the MY HOME Portal the services can be used with different means of communication such as a computer and fixed and mobile phones, regardless of the type of device used.

Devices such as the telephone actuator, the burglar alarm unit with an integrated dialling device and the telephone dialling device specifically designed for being managed via the telephone line can also be, with MY HOME WEB, controlled with a PC connected to the Internet or with voice commands and SMS’s. The MY HOME Web installer can benefit from the advantages offered because, when the customer requests, he can modify the programming, the system parameters and make diagnosis and maintenance remotely.
MY HOME SOUND SYSTEM

THE NEWS

AXOLUTE devices

- Sound source
- Flash-mounted amplifier
- Touch screen
SECTION CONTENTS

14  General features
22  Catalogue
27  General rules for installation
32  Wiring diagram
48  Configuration
53  Technical features
64  Dimensional data
The pleasure of being surrounded by pure sound

The new stereo sound system lets you choose and control the sound playing it in several rooms at the same time with high sound quality.

The system technology uses amplifiers and loudspeakers perfectly integrated in the electrical system which allow you to listen both to an external sound source, like a Hi-Fi system, and an internal source, like the integrated FM radio.
Music wherever you want it

Thanks to its complete range and its many functions it is the ideal solution for applications which range from the residential to the service sector. The performance, possibility of extending the system and its sound quality mean that it can be used in both the classical home environment and in service rooms such as doctors’ or dentists’ surgeries, shops, cafes, restaurants and supermarkets.

MUSIC IN THE HOME WHERE AND WHEN YOU WANT IT
The sound sources can be controlled from every room, for example changing the radio stations or modifying the volume, with flush-mounting control devices (amplifiers and TOUCH SCREEN) and radio remote controls.
A complete range for all needs

Flush-mounted, wall-mounted and ceiling-mounted loudspeakers solve every installation need in both the residential and service sectors. Complete control of the sound source from every room: for example the stereo can be switched on or off, CD track changed or your favourite radio station chosen from any control point.

The new sound system can be commanded either via TOUCH SCREEN, or by flush-mounted controls which fit in perfectly with the AXOLUTE LIVING INTERNATIONAL, LIGHT and LIGHT TECH lines and with radio remote control.
In the residential sector

In the service sector

The BTicino stereo sound system is recommended not only to anyone who wants to hear quality sound in his home, but also to anyone working in the service sector, professionals who always need a system which not only plays music but also lets them communicate with their co-workers and with customers.

Wall-mounted loudspeakers for applications in the home

Flush-mounted amplifiers in just two modules and slim wall-mounted loudspeakers (only 37 mm) allow a discreet installation.

Ceiling-mounted loudspeakers for applications in the service sector

Loudspeakers dedicated to the service sector and DIN amplifiers directly supplied at 230V to expand the system up to 80 loudspeakers.
The new stereo sound system has been studied and designed to fit into MY HOME solutions, such as the video door entry system or automation.

**TWO APPLICATIONS**
1. It is morning. Press just one pushbutton to raise the rolling shutters and switch on the radio or stereo, playing the music desired in the background.

2. The music goes quiet automatically to let you hear any calls from the video door entry system. Also voice messages from the video handset can be sent through the loudspeakers.

**TWO WIRES OF SIMPLICITY**
Installation of the system is simple and flexible because it uses the MY HOME two wire system. Like all the MY HOME solutions this can be simply expanded and altered later. The new sound system uses the same power supply and cable as the 2 wire video door entry system.
A complete system

The components to make the sound system can be divided into the following families:

- **AUDIO/VIDEO NODE**
- **SOUND SOURCES**
- **CONTROL DEVICES**
- **SOUND AMPHIFIER**
- **LOUDSPEAKERS**
The sound system components

**AUDIO/VIDEO NODE (ITEM F441)**
The audio/video node mixes high-frequency stereo signals from several external sources (home stereo, radio tuner ...), towards the amplifiers positioned inside the home.
The device also integrates between the sound system and the two wire video door entry system without using SCS/SCS interfaces (item F422).

**SOUND SOURCES**
The sound sources are devices which generate a stereo audio signal. BTicino proposes a modular radio tuner and interfaces for the connection of external sound sources (e.g. Hi-Fi system).

- **FM RADIO TUNER (ITEM F500)**
The BTicino radio tuner is a device to be installed on DIN35 rail to receive FM stereo radio programmes, which can display RDS messages.

- **RCA INPUT (ITEM HC/HS4560 AND ITEM L/N/NT4560)**
This device is an interface which can connect an external stereo source (CD reader, DVD...) to the sound system.

- **STEREO CONTROL (ITEM L4561)**
It can manage an external stereo source which has infrared remote control. This device saves the commands given by the source remote control to make them available on the amplifiers, special controls and TOUCH SCREEN.
GENERAL FEATURES

SOUND AMPLIFIERS
Devices which amplify the audio signal from the BUS on the loudspeakers in the system.

- **STEREO AMPLIFIER (ITEM H4562 AND ITEM L4562)**
  Switches loudspeakers on/off, manages the volume, cycles the sources available and changes the CD track or selects the favourite radio station from those saved.

- **DIN AMPLIFIER (ITEM F502)**
  Supplied directly at 230V a.c., allows installations in large systems (up to 80 loudspeakers). Suitable in service rooms such as offices, restaurants, supermarkets...

LOUDSPEAKERS
The new sound system can be used with all the loudspeakers from 8Ω to 16Ω normally available on the market. The BTicino loudspeakers are:

- **FLUSH-MOUNTED LOUDSPEAKERS (ITEM HC/HS4565 AND ITEM/NT4565)**
  Loudspeakers with 16Ω impedance and 12W power, for installation in flush-mounted boxes item 506E.

- **WALL-MOUNTED LOUDSPEAKERS (ITEM L4567)**
  Loudspeakers with 37 mm thickness, 40W power and 8Ω impedance.

- **CEILING-MOUNTED LOUDSPEAKERS (ITEM L4566)**
  100W loudspeaker with 8Ω impedance, for installation in large rooms.

CONTROLS
These devices can manage the amplifiers from different rooms.

- **SPECIAL CONTROL (ITEM H4651/2 AND ITEM L4651/2)**
  Correctly configured it can manage the operation of a single amplifier, several amplifiers, or all the system amplifiers.

- **TOUCH SCREEN (ITEM H4684 AND ITEM L/N/NT4683)**
  A simple touch on the display can control all the functions of the MY HOME system, including the sound system applications.
Audio/video node, sound sources

### AUDIO/VIDEO NODE

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<td>F441</td>
<td>Audio/Video node to mix audio signals (Max 4 sources) towards 4 outputs – 6 DIN modules – complete with depth compensator for DIN rail</td>
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### SOUND SOURCES

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<tr>
<td>F500</td>
<td>RDS stereo radio tuner – 4 DIN modules – complete with depth compensator for DIN rail</td>
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<tr>
<td>L4561</td>
<td>Device to control stereo sources with infrared remote control – the source can be managed by the amplifiers or the special controls – 4 DIN modules – complete with RCA/RCA cable and cable with jack to connect the IR transmitter</td>
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<tr>
<td>HC4560, HS4560</td>
<td>Flush-mounted RCA input – two AXOLUTE modules to control a stereo source</td>
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<tr>
<td>L4560</td>
<td>Flush-mounted RCA input – two LIVING INTERNATIONAL modules to control a stereo source</td>
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<tr>
<td>N4560</td>
<td>Flush-mounted RCA input – two LIGHT modules to control a stereo source</td>
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<tr>
<td>NT4560</td>
<td>Flush-mounted RCA input – LIGHT TECH modules to control a stereo source</td>
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### AMPLIFIERS

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<tr>
<td>F502</td>
<td>4 DIN module amplifier to be installed in units</td>
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<td>H4562</td>
<td>Flush-mounted amplifier – two modules – to be completed with AXOLUTE button covers</td>
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<tr>
<td>L4562</td>
<td>Flush-mounted amplifier – two modules – to be completed with LIVING INTERNATIONAL, LIGHT or LIGHT TECH button covers</td>
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### Controls

**Item** | **Description**
---|---
H4684 | TOUCH SCREEN AXOLUTE
L4683 | TOUCH SCREEN LIVING INTERNATIONAL
N4683 | TOUCH SCREEN LIGHT
NT4683 | TOUCH SCREEN LIVING TECH
H4651/2 | Special control to manage amplifiers to be completed with AXOLUTE button covers to switch on/off, control volume, change source and change programmed radio stations – two modules
L4651/2 | As above - to be completed with LIVING INTERNATIONAL/LIGHT button covers

### Radio Controls

**Item** | **Description**
---|---
L4572SB | Radio control with standalone power supply (no battery required) – used in the MY HOME Sound system with interface Item L/N/NT4575SB
3527 | Remote control with 6 customizable pushbuttons with graphic labels. Set up for being used by disabled people – power supply with two 1.5 Volt AAA batteries - used in MY HOME Sound systems with interface Item L4575N

### Receiving Radio Interfaces - Power Supply 27V C.C. From Bus

**Item** | **Description**
---|---
H4575 | AXOLUTE interface for remote control Item 3527.
HS4575 | Size 2 modules.
L4575N | LIVING interface for remote control Item 3527 Size 2 LIVING/LIGHT modules.
N4575N | As above – LIGHT
NT4575N | As above – LIGHT TECH
L4575SB | LIVING interface for control Item L4572SB. Size 2 LIVING/LIGHT modules.
N4575SB | As above – LIGHT
NT4575SB | As above – LIGHT TECH
# Button covers and connectors

**BUTTON COVER**

With silk-screen printing – 2 functions – 1 module

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For radio control Item L4572SB

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</tr>
<tr>
<td>L4919SB</td>
<td>NT4919SB</td>
</tr>
</tbody>
</table>

**CONNECTORS FOR STEREO CONTROL BUS CABLE INTERFACE**

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>336983</td>
<td>LIVING INTERNATIONAL 8-contact connector to connect interface item L4685 to the BUS</td>
</tr>
<tr>
<td>336982</td>
<td>as above – LIGHT series</td>
</tr>
<tr>
<td>336984</td>
<td>as above – LIGHT TECH series</td>
</tr>
</tbody>
</table>
Loudspeakers and kit

**LOUDSPEAKERS**

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>HC4565</td>
<td>Flush-mounted loudspeaker for box 506E AXOLUTE 16Ω series</td>
</tr>
<tr>
<td>HS4565</td>
<td>Flush-mounted loudspeaker for box 506E LIVING INTERNATIONAL 16Ω series</td>
</tr>
<tr>
<td>L4565</td>
<td>Flush-mounted loudspeaker for box 506E LIGHT 16Ω series</td>
</tr>
<tr>
<td>N4565</td>
<td>Flush-mounted loudspeaker for box 506E LIGHT TECH 16Ω series</td>
</tr>
<tr>
<td>L4566</td>
<td>Ceiling-mounted loudspeaker 8Ω</td>
</tr>
<tr>
<td>L4567</td>
<td>Wall-mounted loudspeaker 8Ω</td>
</tr>
</tbody>
</table>

**SOUND SYSTEM KIT**

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>MHKIT90</td>
<td>LIVING sound system kit including an audio input module, 3 amplifiers and 6 loudspeakers</td>
</tr>
<tr>
<td>MHKIT100</td>
<td>As above - LIGHT</td>
</tr>
</tbody>
</table>
### Configurators and wiring accessories

#### CONFIGURATORS ONE-TYPE PACKAGE OF 10 PIECES

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>3501/0</td>
<td>configurator 0</td>
</tr>
<tr>
<td>3501/1</td>
<td>configurator 1</td>
</tr>
<tr>
<td>3501/2</td>
<td>configurator 2</td>
</tr>
<tr>
<td>3501/3</td>
<td>configurator 3</td>
</tr>
<tr>
<td>3501/4</td>
<td>configurator 4</td>
</tr>
<tr>
<td>3501/5</td>
<td>configurator 5</td>
</tr>
<tr>
<td>3501/6</td>
<td>configurator 6</td>
</tr>
<tr>
<td>3501/7</td>
<td>configurator 7</td>
</tr>
<tr>
<td>3501/8</td>
<td>configurator 8</td>
</tr>
<tr>
<td>3501/9</td>
<td>configurator 9</td>
</tr>
<tr>
<td>3501/GEN</td>
<td>configurator GEN</td>
</tr>
<tr>
<td>3501/AMB</td>
<td>configurator AMB</td>
</tr>
<tr>
<td>3501/SLA</td>
<td>configurator SLA</td>
</tr>
</tbody>
</table>

#### CONFIGURATOR KIT

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>3501K</td>
<td>Configurator kit from 0 to 9</td>
</tr>
<tr>
<td>3501K/1</td>
<td>Configurator kit AUX, GEN, GR, AMB, ON, OFF, G/I, PUL, SLA, CEN, ^<em>^ ^</em> ^*</td>
</tr>
</tbody>
</table>

#### POWER SUPPLY

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>346000</td>
<td>power supply for sound system – input 230V a.c., output 27V d.c. – maximum current supplied 1200 mA – fastening on DIN rail with size 8 modules</td>
</tr>
</tbody>
</table>

#### CABLE FOR SYSTEMS

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>336904</td>
<td>twisted 2-conductor cable which can be buried in piping – corresponds to standards IEC 20-13 and IEC 20-14 – coil length 200 m</td>
</tr>
</tbody>
</table>

#### LINE TERMINATOR

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>3499</td>
<td>line terminator – to be installed on the used outputs of the audio/video node</td>
</tr>
</tbody>
</table>

#### VARIOUS ACCESSORIES

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>3515</td>
<td>spare pull-out terminal</td>
</tr>
<tr>
<td>335919</td>
<td>cable to connect the TOUCH SCREEN to the PC to program the device</td>
</tr>
<tr>
<td>3559</td>
<td>cable above - for USB port</td>
</tr>
</tbody>
</table>
GENERAL RULES FOR INSTALLATION

Sound system wiring

When wiring the Sound System remember some installation general rules: the distribution system is made by means of star wiring, where the signals from the external stereo sources and the wirings from the command devices and amplifiers converge.

- **In-out wiring.**
  - The outputs are connected to the audio/video node by means of in-out wiring.
  - The audio/video used node outputs must be closed with the line terminator.

- **Star wiring**
  - The sound sources are connected by means of star wiring
  - One source per input.

The following diagram shows the type of wiring to be made to make a Sound System.

- **Free wiring**
  - The BUS is connected with free wiring
  - On this line it can connect the special commands and the SCS/SCS interfaces for combination with the other MY HOME systems.
GENERAL RULES FOR INSTALLATION

Max. distances and cable features

When sizing the system remember the following system limits as a function of the type of amplifier installed and the impedance features of the loudspeaker used.

To keep the fidelity of the audio signal reproduced unaltered, lay the wiring of the BUS 2 wire Sound /Video door entry System and the accessory wirings (cables for loudspeakers etc.) in separate piping from the power cables (230V line). The above wirings can only share inside junction boxes using cables with suitable insulation (e.g. Item 336904). Failure to respect the above provisions may affect the quality of the audio signal reproduced.

Max. distance between the devices (A)

<table>
<thead>
<tr>
<th>Loudspeaker impedance</th>
<th>With No. 1 amplifier</th>
<th>With No. 2 amplifiers</th>
<th>With No. 3 amplifiers</th>
<th>With No. 4 amplifiers</th>
</tr>
</thead>
<tbody>
<tr>
<td>Using cable Item 336904</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>8Ω</td>
<td>160m</td>
<td>60m</td>
<td></td>
<td></td>
</tr>
<tr>
<td>16Ω</td>
<td>200m</td>
<td>160m</td>
<td>100m</td>
<td>60m</td>
</tr>
<tr>
<td>Using cable UTP cat.5E</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>8Ω</td>
<td>80m</td>
<td>30m</td>
<td></td>
<td></td>
</tr>
<tr>
<td>16Ω</td>
<td>160m</td>
<td>80m</td>
<td>50m</td>
<td>30m</td>
</tr>
</tbody>
</table>

NOTE:
- using amplifiers DIN item F502, a maximum of 10 amplifiers can be cabled for each audio/video node output
- for the lengths of the Video door entry wirings, refer to the Technical Communication Guide
- total stretched cable max 800m.
GENERAL RULES FOR INSTALLATION

Calculation of the current absorption

The system absorption is always calculated whenever the diagrams in the guide are not followed.

When calculating the current absorbed by the components, remember that the maximum current which can be supplied by the power supply must not be exceeded.

To calculate the current absorbed by the sources, consider the source with greatest absorption in “ON” and all the others in “stand-by”.

While for the flush-mounting amplifiers L4562 consider the ON absorption relative to the type of load connected (loudspeaker impedance and number of outputs connected to the loudspeakers).

There must be at most 100 SCS devices.
There must be at most 8 L4562 amplifiers.
There must be at most 40 F502 amplifiers (maximum 10 for output of node F441).

The maximum current of each individual Node audio/video output F441 must be less than 600mA continuous. This limit translates as a maximum of 2 flush-mounting amplifiers L4562 with 8 ohm loudspeakers or 4 flush-mounting amplifiers L4562 with 16 ohm loudspeakers.

### Table of absorptions

<table>
<thead>
<tr>
<th>Description</th>
<th>Item</th>
<th>Stand-By</th>
<th>ON</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power supply:</td>
<td>346000</td>
<td>1200mA (max. suppliable current)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>346001</td>
<td>1000mA (max. suppliable current)</td>
<td></td>
</tr>
<tr>
<td>Audio Video Node:</td>
<td>F441</td>
<td>-</td>
<td>20mA</td>
</tr>
<tr>
<td>RCA input source:</td>
<td>HC/HS/L/N/NT4560</td>
<td>12mA</td>
<td>30mA</td>
</tr>
<tr>
<td>Radio tuner:</td>
<td>F500</td>
<td>12mA</td>
<td>50mA</td>
</tr>
<tr>
<td>Stereo control source:</td>
<td>L4561</td>
<td>12mA</td>
<td>40mA</td>
</tr>
<tr>
<td>Flush-mounted stereo amplifier:</td>
<td>L4562</td>
<td>6mA</td>
<td>250mA with 8ohm loudspeakers on the 2 L-R outputs. 130mA with a 8ohm loudspeaker on 1 L-R output. 130mA with a 16ohm loudspeaker on the 2 L-R outputs. 90mA with a 16ohm loudspeaker on 1 L-R output. 40mA (MUTE)</td>
</tr>
<tr>
<td></td>
<td>H4562</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Service sector amplifier:</td>
<td>F502</td>
<td>-</td>
<td>5mA (from BUS)</td>
</tr>
<tr>
<td>Special control:</td>
<td>H/L4651/2</td>
<td>-</td>
<td>7.5mA</td>
</tr>
<tr>
<td>TOUCH SCREEN:</td>
<td>H4684</td>
<td>-</td>
<td>20mA</td>
</tr>
<tr>
<td></td>
<td>L/N/NT4683</td>
<td>-</td>
<td>20mA</td>
</tr>
<tr>
<td>Scenario module:</td>
<td>F420</td>
<td>-</td>
<td>20mA</td>
</tr>
<tr>
<td>SCS/SCS interface (on OUT):</td>
<td>F422</td>
<td>-</td>
<td>20mA</td>
</tr>
<tr>
<td>STERA B/W 2 wire camera:</td>
<td>342510</td>
<td>12mA</td>
<td>250mA</td>
</tr>
<tr>
<td>Sfera 2 wire speaker module:</td>
<td>342170</td>
<td>25mA</td>
<td>25mA</td>
</tr>
<tr>
<td>PIVOT B/W 2 wire video handset:</td>
<td>344102</td>
<td>5mA</td>
<td>505mA</td>
</tr>
</tbody>
</table>

**EXAMPLE 1**

A calculation example considering the diagram called Small house is proposed below.

<table>
<thead>
<tr>
<th>Material list</th>
<th>Quantity</th>
<th>Absorption (mA)</th>
</tr>
</thead>
<tbody>
<tr>
<td>F500 Tuner</td>
<td>1</td>
<td>1 x 50</td>
</tr>
<tr>
<td>L4561 Stereo control</td>
<td>1</td>
<td>1 x 12</td>
</tr>
<tr>
<td>L4562 Flush-mounted amplifiers</td>
<td>8 (loaded with 2 loudspeakers, 16ohm each)</td>
<td>8 x 130</td>
</tr>
<tr>
<td>F441 A/V Node</td>
<td>1</td>
<td>1 x 20</td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td></td>
<td>1122</td>
</tr>
</tbody>
</table>

**EXAMPLE 2**

A calculation example considering the diagram called House with integrated 2 wire Video door entry is proposed below. To calculate the current absorbed during the video door entry call, consider the MUTE absorption of the flush-mounting amplifiers.

<table>
<thead>
<tr>
<th>Material list</th>
<th>Quantity</th>
<th>Absorption with sound system</th>
<th>Absorption in video door entry conversation</th>
</tr>
</thead>
<tbody>
<tr>
<td>F441 A/V Node</td>
<td>1</td>
<td>1 x 20mA</td>
<td>1 x 20mA</td>
</tr>
<tr>
<td>F500 Tuner</td>
<td>1</td>
<td>1 x 50mA</td>
<td>1 x 50mA</td>
</tr>
<tr>
<td>L4561 Stereo Control</td>
<td>1</td>
<td>1 x 12mA</td>
<td>1 x 12mA</td>
</tr>
<tr>
<td>L/N/NT4560 RCA input</td>
<td>1</td>
<td>1 x 12mA</td>
<td>1 x 12mA</td>
</tr>
<tr>
<td>L4562 Flush-mounted amplifiers</td>
<td>6 (with 2 16 ohm loudspeakers)</td>
<td>6 x 130mA</td>
<td>6 x 40mA</td>
</tr>
<tr>
<td>L/N/NT4683 TOUCH-SCREEN</td>
<td>1</td>
<td>1 x 20mA</td>
<td>1 x 20mA</td>
</tr>
<tr>
<td>342510 Sfera B/W 2 wire camera</td>
<td>1</td>
<td>1 x 25mA</td>
<td>1 x 25mA</td>
</tr>
<tr>
<td>342170 Sfera 2 wire Speaker Module</td>
<td>1</td>
<td>1 x 25mA</td>
<td>1 x 25mA</td>
</tr>
<tr>
<td>344102 PIVOT B/W video handset</td>
<td>2</td>
<td>2 x 5mA</td>
<td>1 x 505mA</td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td></td>
<td>941mA</td>
<td>1184mA</td>
</tr>
</tbody>
</table>

To calculate the current margin consider the higher absorption, thus 1200 - 1184 = 16mA
GENERAL RULES FOR INSTALLATION
Positioning the loudspeakers

When designing the Sound System the correct positioning of the listening points must be identified. A precise layout of the loudspeakers in fact guarantees better sound quality and balance in the whole room. Rules to be applied to identify the number of loudspeakers to install are given below.

ROOM IN THE HOME AND SMALL SERVICE SECTOR

The distances to adopt to position loudspeakers and the areas which BTicino loudspeakers cover are given below, as a function of the sound quality for a room in the home. For rooms in the small service sector, the sound level required is on average lower than in the home. In this case it is assumed that a loudspeaker covers double the area.

Positioning the loudspeakers

<table>
<thead>
<tr>
<th>Description</th>
<th>Distance (m)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Distance between loudspeakers (A)</td>
<td>2-4</td>
</tr>
<tr>
<td>Distance from the floor (B)</td>
<td>1-2.5</td>
</tr>
<tr>
<td>Distance between loudspeaker and listener (C)</td>
<td>2-4</td>
</tr>
</tbody>
</table>

Loudspeaker coverage

<table>
<thead>
<tr>
<th>Type of loudspeaker</th>
<th>Area covered by the loudspeakers</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>In the home</td>
</tr>
<tr>
<td>L4565 (flush-mounted box item 506E)</td>
<td>3m² 7m²</td>
</tr>
<tr>
<td>L4567 (wall-mounted)</td>
<td>5m² 12m²</td>
</tr>
<tr>
<td>L4566 (ceiling-mounted)</td>
<td>6m² 15m²</td>
</tr>
</tbody>
</table>

ROOM IN THE SMALL SERVICE SECTOR

If a Sound System is to be installed in a room in the small service sector, the type of room where the system is to be installed must be identified. When positioning playing points remember:
- The height from the playing point (H)
- The area to be covered (S)
- The distance between the playing points (d)
- The distance between the listener and the playing point (D)

Identifying the room and calculating the playing points

The formula to apply to obtain the number of loudspeakers to be installed in a room on the basis of its total area is given below.

\[ N = \frac{L_1 \times L_2 - [(L_1 \times d) + (L_2 \times d) \times d]}{d^2} \]

Legend:
- N: playing points
- L1 e L2: length of the sides of the room to be covered
- d: distance between the loudspeakers referring to the room height (see table above)

Example:

\[ N = \frac{20 \times 40 - [(20 \times 7) + (40 \times 7) \times 7]}{7^2} = \frac{800 - [140 + 280 \times 7]}{49} = \frac{800 - [140 + 1960]}{49} = \frac{800 - 2100}{49} = \frac{-1300}{49} = 8.8 \]

Legend:
- L1: 20m²
- L2: 40m²
- H: 4.5m from the table one obtains d: 7

The table gives the recommended distances between the ceiling-mounted loudspeakers referring to the room height.

Location of the loudspeakers Item L4566

<table>
<thead>
<tr>
<th>H (m)</th>
<th>2.5</th>
<th>3</th>
<th>3.5</th>
<th>4</th>
<th>4.5</th>
</tr>
</thead>
<tbody>
<tr>
<td>d (m)</td>
<td>3</td>
<td>4</td>
<td>5</td>
<td>6</td>
<td>7</td>
</tr>
</tbody>
</table>
Calculating the attenuation and checking the sound level

Another feature to be considered to cover a room correctly is the sound level. In fact, the sound level of a loudspeaker decreases as the distance between loudspeaker and listener increases. When calculating the attenuation leave a margin of 10dB with respect to the values indicated above (e.g. electronic industry 80dB + 10dB).

If distance $D$ is known the attenuation can be obtained:

<table>
<thead>
<tr>
<th>$D$ (m)</th>
<th>Attenuation (dB)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>0</td>
</tr>
<tr>
<td>2</td>
<td>-4</td>
</tr>
<tr>
<td>4</td>
<td>-8</td>
</tr>
<tr>
<td>8</td>
<td>-12</td>
</tr>
<tr>
<td>16</td>
<td>-16</td>
</tr>
</tbody>
</table>

Checking the sound level

$LSA + 10dB > S + A$

Legend:

$LSA$ = room sound level (see “sound coverage level” table)
$10dB$ = margin to be added
$S$ = sensitivity of the loudspeakers (dB)
$A$ = attenuation as a function of the distance between the loudspeaker and the listener (see “attenuation” table)

Note: When there are metal iodide lamps or sodium vapour lamps at high and low pressure (loads A) lay the wiring respecting the following rules:
1. to supply Loads A use power cables with minimum insulation 300/500V;
2. provide a dedicated power line for amplifiers F502;
3. keep “power line Loads A” and “BUS line or power line F502” separate by at least 1 m;
4. wire the loudspeakers with twisted cables (e.g. Item 336904);
5. keep the wiring to the loudspeakers as short as possible positioning the F502 amplifiers near the loudspeakers.

Failure to respect the above rules may affect correct operation of the devices.

Example of the sound level calculation

Some examples for identifying the sound level are given below. If when calculating the sound level the value obtained is greater by a small margin (2 – 4dB) we have sufficient sound coverage for the room. If it is smaller the possibilities are as follows:

1st example

The first example refers to a shop showroom with the following features:

- $H = 3.5m$ thus $d = 5m$
- $L1 = 10m^2$
- $L2 = 20m^2$
- shop showroom = $60dBA + 10dB = 70dBA$

From the data one obtains:

- $N = 3$
- $d = 5$
- locating 3 loudspeakers one obtains $D = 12$

Attenuation ($D = 12m$) = -14dB
Loudspeaker sensitivity = 88dB
Sound level required = 74dBA (perfect sound coverage)

2nd example

The second example refers to an electronics industrial site with the following features:

- $H = 4.5m$ thus $d = 7m$
- $L1 = 20m^2$
- $L2 = 40m^2$
- electronics industry = $70dBA + 10dB = 80dBA$

From the data one obtains:

- $N = 10$
- $d = 7$
- locating 10 loudspeakers one obtains $D = 6$

Attenuation ($D = 6m$) = -10dB
Loudspeaker sensitivity = 88dB
Sound level required = 78dBA (insufficient sound coverage)

As the sound level calculated is insufficient, just put two loudspeakers close together at each playing point (giving an equivalent loudspeaker with sensitivity +6dB greater than that of the single loudspeaker) and the sound coverage is found to be sufficient.
Below is shown a flat, on a single floor, with four rooms (living room, kitchen and 2 bedrooms). The stereo control can play the music from the Hi-Fi stereo inside the flat. An amplifier with 4 pushbuttons is installed in each room. This amplifier can switch the loudspeakers on and off, adjust the volume, cycle the sound sources available (if there is more than one) and change the CD track or choose the favourite radio station from those saved. Two flush-mounted loudspeakers with 8Ω impedance are connected to the amplifier.

### List of material needed to make the system

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Quantity</th>
<th>Reference</th>
</tr>
</thead>
<tbody>
<tr>
<td>340000</td>
<td>Power supply</td>
<td>1</td>
<td>A</td>
</tr>
<tr>
<td>F441</td>
<td>Audio/Video node</td>
<td>1</td>
<td>B</td>
</tr>
<tr>
<td>L4561</td>
<td>Stereo control</td>
<td>1</td>
<td>C</td>
</tr>
<tr>
<td>L4562</td>
<td>Flush-mounted amplifiers</td>
<td>4</td>
<td>D</td>
</tr>
<tr>
<td>L4567</td>
<td>Wall-mounted loudspeakers</td>
<td>8</td>
<td>E</td>
</tr>
<tr>
<td>L/N/NT4911BF</td>
<td>Right button cover</td>
<td>4</td>
<td>E</td>
</tr>
<tr>
<td>L/N/NT4911AI</td>
<td>Left button cover</td>
<td>4</td>
<td>E</td>
</tr>
<tr>
<td>34099</td>
<td>Line terminators</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>33698_(2/3/4)</td>
<td>8-contact connector</td>
<td>1</td>
<td>F</td>
</tr>
<tr>
<td>336904</td>
<td>Twisted cable with 2 conductors</td>
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</tbody>
</table>

**NOTE:** the above system can also be achieved with AXOLUTE items.
DIAGRAM 1  FLAT - 4 FLUSH-MOUNTED AMPLIFIERS - 8 8 OHM LOUDSPEAKERS

Wall-mounted loudspeakers
Item L4567

Flush-mounted amplifier Item L4562
A = 1
PF = 1

Line terminator
Item 3499

Wall-mounted loudspeakers
Item L4567

Flush-mounted amplifier Item L4562
A = 2
PF = 1

Line terminator
Item 3499

Wall-mounted loudspeakers
Item L4567

Flush-mounted amplifier Item L4562
A = 3
PF = 1

Line terminator
Item 3499

Wall-mounted loudspeakers
Item L4567

Flush-mounted amplifier Item L4562
A = 4
PF = 1

Line terminator
Item 3499

Hi-Fi stereo system

Cables supplied

Stereo control
Item L4561
S = 1

8-contact connector
Item 33698...(2/3/4)

Power supply Item 346000

Audio/Video node
Item F441

230Va.c.
BUS
The following diagram refers to a small house with two sound sources: a stereo control to manage the Hi-Fi system and an FM radio tuner with RDS. In this case 16 flush-mounted loudspeakers are installed to play music in up to 8 rooms. A radio remote control is required for the management of one of the 8 amplifiers. The radio tuner must be installed in a zone with sufficient signal to receive the radio emitters.

**List of material needed to make the system**

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Quantity</th>
<th>Reference</th>
</tr>
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<tbody>
<tr>
<td>346000</td>
<td>Power supply</td>
<td>1</td>
<td>A</td>
</tr>
<tr>
<td>F441</td>
<td>Audio/Video node</td>
<td>1</td>
<td>B</td>
</tr>
<tr>
<td>F500</td>
<td>Radio tuner</td>
<td>1</td>
<td>C</td>
</tr>
<tr>
<td>L4561</td>
<td>Stereo control</td>
<td>1</td>
<td>D</td>
</tr>
<tr>
<td>L4562</td>
<td>Flush-mounted amplifiers</td>
<td>8</td>
<td>E</td>
</tr>
<tr>
<td>L/N/NT4565</td>
<td>Flush-mounted loudspeakers</td>
<td>16</td>
<td>F</td>
</tr>
<tr>
<td>L/N/NT4911BF</td>
<td>Right button cover</td>
<td>8</td>
<td>G</td>
</tr>
<tr>
<td>L/N/NT4911AI</td>
<td>Left button cover</td>
<td>8</td>
<td>H</td>
</tr>
<tr>
<td>3499</td>
<td>Line terminator</td>
<td>4</td>
<td>I</td>
</tr>
<tr>
<td>33698...(2/3/4)</td>
<td>8-contact connector</td>
<td>1</td>
<td>J</td>
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<td>336904</td>
<td>Twisted cable with 2 conductors</td>
<td>1</td>
<td>K</td>
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<tr>
<td>L/N/NT4575N</td>
<td>Radio interface</td>
<td>1</td>
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<tr>
<td>35277</td>
<td>Remote control</td>
<td>1</td>
<td>M</td>
</tr>
</tbody>
</table>

**NOTE:** the above system can also be achieved with AXOLUTE items.
**DIAGRAM 2  SMALL HOUSE – 8 FLUSH-MOUNTED AMPLIFIERS – 16 16 OHM LOUDSPEAKERS**

**Flush-mounted loudspeakers**
- Item L/N/NT4565

**Flush-mounted amplifier**
- Item L4562
  - A = 1
  - PF = 1
- Item L4562
  - A = 1
  - PF = 2
- Item L4562
  - A = 2
  - PF = 1
- Item L4562
  - A = 2
  - PF = 2
- Item L4562
  - A = 3
  - PF = 1
- Item L4562
  - A = 3
  - PF = 2
- Item L4562
  - A = 4
  - PF = 1
- Item L4562
  - A = 4
  - PF = 2

**Line terminator**
- Item 3499

**Hi-Fi stereo system**
- Radio tuner
  - Item F500
  - S = 2
  - S1 = 1
- Stereo control
  - Item L4561
  - S = 2

**Audio/Video node**
- Item F441

**Radio interface**
- Item L4575N
  - A = 0
  - PL = 1
  - M = 0

**Radio remote control**
- Item 3527

**Power supply**
- Item 346000

**Cables supplied**

**8-contact connector**
- Item 33698...
  - (2/3/4)
The sound system inside a large house uses 16 loudspeakers and can control up to four external sound sources. Flush-mounted amplifiers and a DIN rail are used to make up the system. The system is managed by a TOUCH SCREEN and two special configured controls: one to activate the complete sound system (main control) and the other to activate all the amplifiers inside a room (room control), such as the amplifiers of the whole living room. Thanks to a TOUCH SCREEN function, the sound system can be used as an alarm clock. In fact, on setting the time on TOUCH SCREEN, the sound source set will switch on at the time set and the loudspeakers will switch on, first at a low sound level and then at a higher level. The alarm clock is switched off by touching the TOUCH SCREEN or the “OFF” pushbutton.

**List of material needed to make the system**

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Quantity</th>
<th>Reference</th>
</tr>
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<tbody>
<tr>
<td>346000</td>
<td>Power supply</td>
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<td>A</td>
</tr>
<tr>
<td>F441</td>
<td>Audio/video node</td>
<td>1</td>
<td>B</td>
</tr>
<tr>
<td>F500</td>
<td>Radio tuner</td>
<td>1</td>
<td>G</td>
</tr>
<tr>
<td>L4561</td>
<td>Stereo control</td>
<td>1</td>
<td>C</td>
</tr>
<tr>
<td>L/N/NT4560</td>
<td>RCA input</td>
<td>1</td>
<td>M</td>
</tr>
<tr>
<td>L4562</td>
<td>Flush-mounted amplifiers</td>
<td>6</td>
<td>D</td>
</tr>
<tr>
<td>L4651/2</td>
<td>Special control</td>
<td>2</td>
<td>N</td>
</tr>
<tr>
<td>F502</td>
<td>DIN amplifier</td>
<td>2</td>
<td>H</td>
</tr>
<tr>
<td>L/N/NT4683</td>
<td>TOUCH SCREEN</td>
<td>1</td>
<td>I</td>
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<tr>
<td>L/N/NT4565</td>
<td>Flush-mounted loudspeakers</td>
<td>12</td>
<td>L</td>
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<td>L4567</td>
<td>Wall-mounted loudspeakers</td>
<td>4</td>
<td>E</td>
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<tr>
<td>L/N/NT491BF</td>
<td>Right button cover</td>
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</tr>
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<td>L/N/NT491BA</td>
<td>Left button cover</td>
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<td>Line terminator</td>
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<td>3398H_2/3/4</td>
<td>8-contact connector</td>
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<tr>
<td>336904</td>
<td>Twisted cable with 2 conductors</td>
<td>1</td>
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**NOTE:** the above system can also be achieved with AXOLUTE items.
DIAGRAM 3  LARGE HOUSE – 6 FLUSH-MOUNTED AMPLIFIERS AND 2 ON DIN RAIL – 12 16 OHM AND 4 8 OHM LOUDSPEAKERS

Flush-mounted loudspeakers  Item L/N/NT4565
Flush-mounted loudspeakers  Item L/N/NT4565
Flush-mounted loudspeakers  Item L/N/NT4565
Flush-mounted loudspeakers  Item L/N/NT4565

Flush-mounted amplifier  Item L4562  A = 1  PF = 1
Flush-mounted amplifier  Item L4562  A = 2  PF = 1
Flush-mounted amplifier  Item L4562  A = 2  PF = 2
Flush-mounted amplifier  Item L4562  A = 3  PF = 1

Flush-mounted loudspeakers  Item L/N/NT4565
Flush-mounted loudspeakers  Item L/N/NT4565
Flush-mounted loudspeakers  Item L/N/NT4565
Flush-mounted loudspeakers  Item L/N/NT4565

Wall-mounted loudspeakers  Item L4567

Wall-mounted loudspeakers  Item L4567

Special control  Item L4651/2  A = GEN  SPE = 8

DIN amplifier  Item F502  A = 5  PF = 1
DIN amplifier  Item F502  A = 5  PF = 2

Terminator  Item 3499
Terminator  Item 3499
Terminator  Item 3499
Terminator  Item 3499

Stereo control  Item L4561  S = 2
Stereo control  Item L4561  S = 2
Stereo control  Item L4561  S = 2
Stereo control  Item L4561  S = 2

Hi-Fi stereo system

Radio tuner  Item F500  S1 = 1

Audio/video node  Item F441

Cables supplied

8-contact connector  Item 33698...(2/3/4)

Power supply  Item 346000

230V a.c.  BUS
WIRING DIAGRAMS
Doctor’s surgery

This solution is ideal in surroundings where the amplifiers and sound sources should only be controlled by authorised personnel. The example shows a doctor’s surgery with a waiting room, the reception and two visiting rooms. An amplifier on DIN rail is used in the waiting room, the Hi-Fi system is positioned in the reception (so that the source is directly controlled by the secretary or doctor) and there are two special controls: one control configured in general mode to activate all the loudspeakers of the doctor’s surgery, the other configured to control the loudspeakers in the waiting room. In the visiting rooms there are two flush-mounted amplifiers for local management of the amplifiers.

List of material needed to make the system

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Quantity</th>
<th>Reference</th>
</tr>
</thead>
<tbody>
<tr>
<td>346000</td>
<td>Power supply</td>
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<td>A</td>
</tr>
<tr>
<td>F441</td>
<td>Audio/video node</td>
<td>1</td>
<td>B</td>
</tr>
<tr>
<td>L/N/NT4560</td>
<td>RCA input</td>
<td>1</td>
<td>C</td>
</tr>
<tr>
<td>L6562</td>
<td>Flush-mounted amplifiers</td>
<td>2</td>
<td>D</td>
</tr>
<tr>
<td>F502</td>
<td>Amplifier for the service sector</td>
<td>1</td>
<td>G</td>
</tr>
<tr>
<td>L6651/2</td>
<td>Special control</td>
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<td>F</td>
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<tr>
<td>L6557</td>
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<td>E</td>
</tr>
<tr>
<td>L/N/NT4911BF</td>
<td>Right button cover</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>L/N/NT4911AI</td>
<td>Left button cover</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>3499</td>
<td>Line terminator</td>
<td>3</td>
<td></td>
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<tr>
<td>336904</td>
<td>Twisted cable with 2 conductors</td>
<td>1</td>
<td></td>
</tr>
</tbody>
</table>

NOTE: the above system can also be achieved with AXOLUTE items

Lists of material not shown in the diagram

- Power supply 1 A
- Audio/video node 1 B
- RCA input 1 C
- Flush-mounted amplifiers 2 D
- Amplifier for the service sector 1 G
- Special control 2 F
- Wall-mounted loudspeakers 6 E
- Right button cover 4
- Left button cover 4
- Line terminator 3
- Twisted cable with 2 conductors 1
Diagram 4: Doctor's Surgery – 2 Flush-Mounted Amplifiers – 1 DIN Amplifier – 3 Rooms

Doctor's Surgery No. 1
Wall-mounted loudspeakers Item L4567
Flush-mounted amplifier Item L4562
A = 2
PF = 1
Terminator Item 3499

Doctor's Surgery No. 2
Wall-mounted loudspeakers Item L4567
Flush-mounted amplifier Item L4562
A = 3
PF = 1
Terminator Item 3499

Waiting Room
Wall-mounted loudspeakers Item L4567
DIN amplifier Item F502
A = 1
PF = 1
Terminator Item 3499

Hi-Fi Stereo System
Special control Item L4651/2
A = GEN
SPE = 8
Terminator Item 3499

Reception
Special control Item L4651/2
A = GEN
PF/PL = 1
SPE = 8
B.C.A. input Item L/N/NT4560
S = 1

Audio/video node Item F441
Power supply Item 346000
Cable supplied

230V a.c. BUS
The example has two rooms, a bar area and bathrooms for men and women. A sound system can be constructed inside a restaurant by installing wall-mounted loudspeakers for each room (connected to DIN amplifiers), two loudspeakers in the bar area and four loudspeakers in the bathrooms. The system is managed by a TOUCH SCREEN and 3 special controls. Various scenarios can be saved using a scenario module (programmed by the TOUCH SCREEN): for example the loudspeakers can be switched on in the rooms with different sound levels.

List of material needed to make the system

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Quantity</th>
<th>Reference</th>
</tr>
</thead>
<tbody>
<tr>
<td>346000</td>
<td>Power supply</td>
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<tr>
<td>F441</td>
<td>Audio/video node</td>
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<td>B</td>
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<td>L/N/NT4560</td>
<td>RCA input</td>
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<tr>
<td>L4561</td>
<td>Stereo control</td>
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<td>C</td>
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<tr>
<td>F502</td>
<td>Amplifier for the service sector</td>
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<tr>
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<td>L4657/2</td>
<td>Special control</td>
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<td>H</td>
</tr>
<tr>
<td>L/N/NT4683</td>
<td>TOUCH SCREEN</td>
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<td>I</td>
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<tr>
<td>F420</td>
<td>Scenario modules</td>
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</tr>
<tr>
<td>L/N/NT4911AI</td>
<td>Left button cover</td>
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<td></td>
</tr>
<tr>
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<td>Line terminator</td>
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<td></td>
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<tr>
<td>33698... (2/3/4)</td>
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<td>F</td>
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</table>

NOTE: the above system can also be achieved with AXOLUTE Items
The sound system inside a supermarket (large area) can be made using a maximum of 40 ceiling-mounted loudspeakers managed by amplifiers on a DIN rail connected in mono. The mono system is configured by inserting configurator 3 into housing M3 of the amplifier. The solution presented is made by installing a TOUCH SCREEN to manage all the amplifiers, an RCA input to play the audio signal from a Hi-Fi system and one or more PIVOT handsets (using key 4 of the handset) to call personnel by means of the loudspeakers inside the supermarket or installed near the cash desks.

List of material needed to make the system

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Quantity</th>
<th>Reference</th>
</tr>
</thead>
<tbody>
<tr>
<td>346000</td>
<td>Power supply</td>
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<td>A</td>
</tr>
<tr>
<td>F441</td>
<td>Audio/video node</td>
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<td>B</td>
</tr>
<tr>
<td>L/N/NT4560</td>
<td>RCA input</td>
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<td>C</td>
</tr>
<tr>
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<td>Amplifier for the service sector</td>
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<td>TOUCH SCREEN</td>
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<td>PIVOT handset</td>
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<td>3499</td>
<td>Line terminator</td>
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<tr>
<td>336904</td>
<td>Twisted cable with 2 conductors</td>
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<td></td>
</tr>
</tbody>
</table>

NOTE: the above system can also be achieved with AXOLUTE Items
DIAGRAM 6  SUPERMARKET – MAX 40 AMPLIFIERS ON DIN RAIL – MONO PLAY

Ceiling-mounted loudspeakers Item L4566

DIN amplifier Item F502
A = 3
PF = 0
M3 = 3

DIN amplifier Item F502
A = 3
PF = 1
M3 = 3

DIN amplifier Item F502
A = 3
PF = 9
M3 = 3

DIN amplifier Item F502
A = 4
PF = 9
M3 = 3

Terminator Item 3499

DIN amplifier Item F502
A = 1
PF = 0
M3 = 3

DIN amplifier Item F502
A = 1
PF = 1
M3 = 3

DIN amplifier Item F502
A = 1
PF = 9
M3 = 3

DIN amplifier Item F502
A = 4
PF = 1
M3 = 3

Ceiling-mounted loudspeakers Item L4566

DIN amplifier Item F502
A = 2
PF = 0
M3 = 3

DIN amplifier Item F502
A = 2
PF = 1
M3 = 3

DIN amplifier Item F502
A = 2
PF = 9
M3 = 3

DIN amplifier Item F502
A = 4
PF = 0
M3 = 3

Power supply Item 346000

Hi-Fi stereo system

Audio/video node Item F441

RCA input Item L/N/NT4560
S = 1

Cable supplied

PIVOT handset Item 34403...(2/3/4)

Touch screen Item L/N/NT4683

MOD = 6

230Va.c.

BUS

Cable supplied

Busbar

MOD = 6

Power supply Item 346000

Hi-Fi stereo system

Audio/video node Item F441

RCA input Item L/N/NT4560
S = 1

Cable supplied
The two wire sound system can be combined with the two wire video door entry system. A TOUCH SCREEN and flush-mounted amplifiers, 1 entrance panel and 2 PIVOT handsets are installed in the system. When the entrance panel is activated, the sound system reduces the volume of the stereo sources so that the sound of the bell can be heard.

The audio will return to its original volume when the internal unit handset is replaced. Using the 4-button block installed in the video door entry units the loudspeakers in the home can be used to page people.

List of material needed to make the system

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Quantity</th>
<th>Reference</th>
</tr>
</thead>
<tbody>
<tr>
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<td>A</td>
</tr>
<tr>
<td>F441</td>
<td>Audio/video node</td>
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</tr>
<tr>
<td>L/N/NT4560</td>
<td>RCA input</td>
<td>1</td>
<td>H</td>
</tr>
<tr>
<td>L4561</td>
<td>Stereo control</td>
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<td>C</td>
</tr>
<tr>
<td>F500</td>
<td>Radio tuner</td>
<td>1</td>
<td>G</td>
</tr>
<tr>
<td>L4562</td>
<td>Flush-mounted amplifier</td>
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<td>D</td>
</tr>
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<td>TOUCH SCREEN</td>
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<tr>
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<td>VideoPIVOT handset</td>
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<td>L</td>
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<td>4-pushbutton block</td>
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<td>Entrance panel camera</td>
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<td>One-family speaker unit</td>
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<tr>
<td>336904</td>
<td>Twisted cable with 2 conductors</td>
<td>1</td>
<td></td>
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</tbody>
</table>

NOTE: the above system can also be achieved with AXOLUTE Items
The two wire sound system can also be used with MY HOME automation. This is brought about by using an SCS/SCS interface Item F422, where the sound system BUS is connected in output (OUT) and the automation BUS is connected in input (IN) (the interface does not require configurations). Both the sound system and the automation system can be managed by a TOUCH SCREEN. The system proposed has automation controls, a series of amplifiers and loudspeakers, a stereo control to control a Hi-Fi system, a radio tuner and an RCA input. Using a scenario module you can: save the switching on of the sound system, switch on the lights and raise the rolling shutters with just one pushbutton.

**List of material needed to make the system**

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Quantity</th>
<th>Reference</th>
</tr>
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<tbody>
<tr>
<td>346000</td>
<td>Power supply</td>
<td>1</td>
<td>A</td>
</tr>
<tr>
<td>F441</td>
<td>Audio/video node</td>
<td>1</td>
<td>B</td>
</tr>
<tr>
<td>L/N/NT4560</td>
<td>RCA input</td>
<td>1</td>
<td>H</td>
</tr>
<tr>
<td>L4561</td>
<td>Stereo control</td>
<td>1</td>
<td>C</td>
</tr>
<tr>
<td>F500</td>
<td>Radio tuner</td>
<td>1</td>
<td>G</td>
</tr>
<tr>
<td>L4562</td>
<td>Flush-mounted amplifier</td>
<td>7</td>
<td>D</td>
</tr>
<tr>
<td>L/N/NT4565</td>
<td>Flush-mounted loudspeakers</td>
<td>14</td>
<td>E</td>
</tr>
<tr>
<td>L/N/NT4683</td>
<td>TOUCH SCREEN</td>
<td>1</td>
<td>I</td>
</tr>
<tr>
<td>F422</td>
<td>SCS/SCS interface</td>
<td>1</td>
<td>I</td>
</tr>
<tr>
<td>3499</td>
<td>Line terminator</td>
<td>3</td>
<td>L</td>
</tr>
<tr>
<td>3349_8/2/3/4</td>
<td>8-contact connector</td>
<td>1</td>
<td>F</td>
</tr>
<tr>
<td>336904</td>
<td>Twisted cable with 2 conductors</td>
<td>1</td>
<td></td>
</tr>
</tbody>
</table>

**NOTE:** the above system can also be achieved with AXOLUTE items.
DIAGRAM 8  LARGE HOUSE – SOUND SYSTEM COMBINED WITH 2 WIRE AUTOMATION SYSTEM

Power supply Item E46DCN

Touch screen Item L/N/NT4683

Automation

Scenario module

Actuators

Controls

Special control Item L4651/2
A = AMB
PF/PL = 3
SPE = 8

2 wire sound system

Flush-mounted loudspeakers Item L/N/NT4565

Flush-mounted loudspeaker Item L/N/NT4565

Flush-mounted loudspeaker Item L/N/NT4565

Flush-mounted loudspeaker Item L/N/NT4565

Flush-mounted loudspeaker Item L/N/NT4565

Flush-mounted loudspeaker Item L/N/NT4565

Flush-mounted loudspeaker Item L/N/NT4565

Hi-Fi stereo system

Stereo control Item L4561
S = 1

Audio/video node Item F441

8-contact connector Item 33698...(2/3/4)

Radio tuner Item F500
S1 = 2

RCA input Item L/N/NT4560
S = 3

Cables supplied

Patch cord Item 4668BUS/...

Terminator Item 3499

Terminator Item 3499

Terminator Item 3499

Terminator Item 3499

230Va.c.

BUS

230Va.c.

OUT

IN

SCS/SCS interface

WIRING DIAGRAMS

MY HOME GUIDE 2 WIRE SOUND SYSTEM
CONFIGURATION

General description

So that each Sound System device can perform its function correctly, it must be correctly configured to define:
- the device address in the system (what it is);
- its mode of operation (what it must do).
This operation is performed by inserting configurators differentiated by number and letter in the device housings.

Legend

1. configurator housing
2. description of the configurator housings
3. tool to insert the configurator

ADDRESSING THE DEVICES

To understand the device addressing logic some terms which will occur frequently in this guide should be defined.

Address of the local amplifiers (Item L4562)

- (A) = Room
  set of amplifiers belonging to a logical zone (in a home, for example, the living room, bedroom, etc...)
- (PF) Sound point
  number identification (1 – 9) of each amplifier inside the Room (A)
- (M1 e M2) = mode
  housings for special configurations

Address of the special controls (Item L4651/2)

- (A) = Room
  if correctly configured can control either a single amplifier (configurator 1 – 9) or a set of amplifiers (AMB configurator) or become a general switching on point (GEN configurator) of all the amplifiers, even configured with different rooms.
- (PF/PL) = Sound point/light point
  number identification (1 – 9) of each amplifier inside the Room (A) or if configured differently can manage the switching on of the all amplifiers on a whole room (the room concerns the number from 1 – 9 inserted in housing “A” of the amplifier).
- (SPE)
  for operation in the Sound System must be configured with the number “8”.

Address of the sound sources

- (S) = Source
  Number identification (1 – 4) of the single sound source in the Sound System.

Amplifier addressing mode

<table>
<thead>
<tr>
<th>Type of command</th>
<th>Amplifiers</th>
<th>Configurator housing</th>
<th>Configurator value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Point - point</td>
<td>A</td>
<td>1 to 9</td>
<td></td>
</tr>
<tr>
<td></td>
<td>PL</td>
<td>1 to 9</td>
<td></td>
</tr>
<tr>
<td>Room</td>
<td>A</td>
<td>1 to 9</td>
<td></td>
</tr>
<tr>
<td></td>
<td>PL</td>
<td>1 to 9</td>
<td></td>
</tr>
<tr>
<td>General</td>
<td>A</td>
<td>1 to 9</td>
<td></td>
</tr>
<tr>
<td></td>
<td>PL</td>
<td>1 to 9</td>
<td></td>
</tr>
</tbody>
</table>

Special control addressing mode

<table>
<thead>
<tr>
<th>Type of command</th>
<th>Special control</th>
<th>Configurator housing</th>
<th>Configurator value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Point - point</td>
<td>A</td>
<td>1 to 9</td>
<td></td>
</tr>
<tr>
<td></td>
<td>PL/PF</td>
<td>1 to 9</td>
<td></td>
</tr>
<tr>
<td>Room</td>
<td>A</td>
<td>ABC</td>
<td></td>
</tr>
<tr>
<td></td>
<td>PL/PF</td>
<td>1 to 9</td>
<td></td>
</tr>
<tr>
<td>General</td>
<td>A</td>
<td>ABC</td>
<td></td>
</tr>
<tr>
<td></td>
<td>PL/PF</td>
<td>1 to 9</td>
<td></td>
</tr>
</tbody>
</table>
Using only the amplifiers, without them being controlled by special controls or TOUCH SCREEN, the devices are configured on housings A and PF.

**SINGLE CONFIGURATION**

Using 2 amplifiers configured with:
- 1st amplifier: A=1, PF=1
- 2nd amplifier: A=1, PF=1, M1=SLA

If the volume is adjusted on one amplifier, it automatically adjusts on the other amplifier as well. Any command performed on one amplifier takes place on the other amplifier.

**MASTER/SLAVE CONFIGURATION**

This configuration uses the special controls or a TOUCH SCREEN to control the amplifiers remotely.

Configuring the special control:
- A=1
- PL/PF=1
- SPE=8 (sound system mode) on pressing the special control buttons, the device sends its command to the configured amplifier.
- A=1
- PF=1

**POINT TO POINT CONFIGURATION**

This configuration uses the special controls or a TOUCH SCREEN to control the amplifiers remotely.

Configuring the special control:
- A=1
- PL/PF=1
- SPE=8
CONFIGURATION General description

CONFIGURATION FOR ROOM CONTROL

A configuration which is only performed on the special controls or when programming the TOUCH SCREEN. All the management commands on amplifier item L4562 can be performed. Configuring the device:

- A=AMB
- PL/PF=1
- SPE=8

Pressing the device buttons affects all the amplifiers configured with “A”, the same as the configurator positioned on the device “PL/PF” (in this case all the amplifiers with A = 1).

Point to point control

Amplifiers

Room 1

Control of Room 1

A=AMB
PL/PF=1
SPE=8

A=1
PL/PF=1
SPE=8

A=1
PL/PF=2
SPE=8

Room 2

Control of Room 2

A=AMB
PL/PF=2
SPE=8

A=2
PL/PF=1
SPE=8

A=2
PL/PF=2
SPE=8

A=2
PF=1

A=2
PF=2

CONFIGURATION FOR GENERAL COMMAND

A configuration which is only performed on the special controls or when programming the TOUCH SCREEN. All the management commands can be performed as in the room control configuration apart from adjusting the volume.

Configuring the device:

- A=GEN
- PL/PF= (in this situation the PL/PF is not configured)
- SPE=8

This configuration lets the device act on the operation of all the amplifiers inside the room independent of the type of amplifier configuration.
CONFIGURATION
Operating modes

SOUND SOURCES

Radio tuner FM Item F500
S1 = 1 to 4 local address of the sound source

RCA input Item HC/H5/L/N/NT4560
S1 = 1 to 4 local address of the sound source

Stereo control Item L4561
S1 = 1 to 4 local address of the sound source
M1 = 1 to 4 configuration of how many devices must be commanded inside the same device, Max 4 (example Hi-Fi systems with radio, CD reader etc.)
M2 = 1 to 6 time which elapses between a command and the next during the source switching on sequence (see instruction sheet)

SPECIAL CONTROL

Special control Item L4651/2
A = 1 to 9 address of the room of the amplifier to be commanded
PL/PF = 0 to 9 address of the amplifier to be commanded
SPE = 8 sound system mode
M = 0 (follow me mode) *

or

A = AMB room configuration
PL/PF = 1 to 9 configuration of the room to be commanded (in this case all the amplifiers of the same room will be commanded)
SPE = 8 sound system mode
M1 = 1 (source activation S = 1) *

or

A = GEN this command switches on all the amplifiers in the home
PL/PF = / SPE = 8 sound system mode
M = 4 (source activation S = 4) *

NOTE (*):
M 0 to 9 indicates the source to be activated before switching on the amplifier. If M = 0, source 1 will switch on without first switching the sources to OFF (follow-me mode)

Example:
- if A = 1, PL1/PF1 and M1 = 3 the Radio control will manage the amplifier with address A = 1 and PF = 1 and will activate source number 3.

AMPLIFIERS

Stereo amplifier Item L4562
A = 1 to 9 address of the amplifier room
PL = 0 to 9 amplifier address
M2 = - (no configurator) when the amplifier is switched on, the last source which was on is activated, “FOLLOW ME” mode
= 1 to 4 when the amplifier is switched on, the source with the same configuration as that set on the device itself switches on (example amplifier with M2=2, in this case the source with S=2 will switch on), “NO FOLLOW ME” mode.

Amplifier for DIN rail Item F502
A = 1 to 9 address of the amplifier room
PL = 0 to 9 address of the amplifier
M1 = - (no configurator) supplies 20% of the maximum volume
= 2 supplies 50% of the maximum volume
= 4 supplies 100% of the maximum volume
M2 = - (no configurator) when the amplifier is switched on, the last source which was on is activated, “FOLLOW ME” mode
= 1 to 4 when the amplifier is switched on, the source with the same configuration as that set on the device itself switches on (example amplifier with M2=2, in this case the source with S=2 will switch on), “NO FOLLOW ME” mode.

M3 = 1 1 both the outputs reproduce the signal received on the LEFT channel
= 2 both the outputs reproduce the signal received on the RIGHT channel
= 3 the amplifier reproduces a monophonic signal on both the loudspeaker outputs

*: configure M1 only if the system is integrated with the video door-entry system.
## CONFIGURATION
### Operating modes

### WIRE-INTERFACE RADIO ITEM L/N/NT4575SB

The interface used in the Sound system with the Radio control Item L4572SB can be set up in both “self-learning” mode and in “sound system” mode so as to associate the following functions with the two pairs of front keys of the Radio control:
- system ON/OFF and volume adjustment (pair of keys 1-3 for the “sound system” mode, pair 1-3 or 2-4 for the “self-learning” mode);
- Selection of the sound source and track/radio station selection (pair of keys 2-4 for “sound system” mode, pair 1-3 or 2-4 for “self-learning” mode);

The device must be configured in the four positions indicated by the graphic labels A, PL1/PF1, M1 and SPE (positions PL2 and M2 must not be configured).

### “SELF-LEARNING” MODE

It allows you to associate the four keys of the Radio control Item L4572SB with any of the amplifiers to be managed in the system. For information on the storage procedure, please refer to the instructions sheet supplied with the interface.

| A = 0 to 9 | Interface address |
| PL1 = 1 to 9 | Interface address |
| SPE and M1 = 0 | configurator “zero” or no configurator |

### “SOUND SYSTEM” MODE

It allows you to use one or more radio controls Item L4572SB to manage one or more amplifiers with an address specified in positions A and PL1/PF1. For information on the storage procedure, please refer to the instructions sheet supplied with the interface.

| A = 0 to 9 | Room of the amplifier |
| PL1/PF1 = 0 to 9 | amplifier sound point |

#### Configuration for controls in sound point

| A = AMB | room configurator |
| PL1/PF1 = 0 to 9 | Control related to the room |

#### Configuration for room controls

| A = GEN | General configurator |
| PL1/PF1 = 0 | configurator “zero” or no configurator |

### OPERATION MODE

| SPE = 8 | “sound system” mode |
| M1 = 0 to 9 | indicates the source to be activated before switching on the amplifier. If M1=0, source 1 will switch on without first switching the sources to OFF (follow-me mode). |

#### Example:
- if A = 1, PL1/PF1 = 1 and M1 = 3 i, the Radio control will manage the amplifier with address A = 1 and PF = 1 and will activate source number 3.

- if A=AMB, PL1/PF1 = 2 and M = no configurator the Radio control will manage all amplifiers indicated with address A=2 (Room No. 2) thus the source activation mode will be “follow-me”.

- if A=GEN, PL1/PF1 = 0 (no configurator) and M1 = 1 the radio control will manage all the amplifiers of the system and will activate source number 1.
In order to use the interface in the Sound system with the remote control Item 3527, it can be set up in “self-learning” mode, thus associating a single function with any of the six keys of the remote control.
Hence, it is possible to perform all the functions required for the Special control Item L4651/2, such as:
- amplifier ON/OFF function;
- volume adjustment;
- selection of the sound source;
- Radio station or track change;

For information on the storage procedure, please refer to the instructions sheet supplied with the interface.
There are three positions to be configured. These are indicated by graphic labels M, A, and PL.

\[
\begin{align*}
M &= 0 \quad \text{(no configurator). Assigns the “self-learning” mode of the interface, for using the remote control Item 3527.} \\
A &= 0 \text{ to } 9 \quad \text{Interface address} \\
PL &= 1 \text{ to } 9 \quad \text{Interface address}
\end{align*}
\]

**TECHNICAL FEATURES**

**Audio/video node Item F441**

The audio/video node is a mixer which can distribute up to 4 sound sources. A series of terminals or patch cords Item 4668/BUS... on the front part of the device can be used to wire the sound systems at the input of the sound sources and the amplifiers and controls at the output to the audio/video node.

The simultaneous use of connection terminals and the BUS connectors is not allowed.

**Technical data**

Supply voltage: 18 to 27 Vd.c.
Size: 6 DIN modules
Absorption: 20mA
No. of inputs available: 4
No. of outputs available: 4
Dissipated power: 0.5W
Operating temperature: 5°C to 45°C
TECHNICAL FEATURES
FM radio tuner Item F500

The radio tuner can receive FM radio emissions. The front pushbuttons and the backlit display adjust the device locally, save 5 radio stations and display RDS messages and the tuned frequency.

The device can perform two types of search: manual or automatic. The device can be managed (switch on/off, change frequency etc.) by flush-mounted amplifiers L4562 or by using correctly configured control devices Item L4651/2 and/or TOUCH SCREEN Item L/N/NT4683 and Item H4684. The tuner must be installed in a zone with sufficient signal to receive the radio emitters.

Supply voltage from BUS: 18 to 27 Vd.c.
Extra supply voltage: 18 to 30 Vd.c.
Size: 4 DIN modules
Range: 87.5MHz to 108MHz
Dissipated power: 1W
Absorption:
- In stand-by: 12mA
- When working: 50mA (with extra 3mA power supply)
Operating temperature: 5°C to 45°C

Legend
1. pull-out terminal for connection to the BUS
2. radio tuner programming and radio programme scanning buttons
3. configurator housings:
4. housing for future expansions
5. radiophonic signal indication LED
6. terminal for extra power supply
7. terminal for connection to the BUS via patch cord
8. backlit display to show the frequency, RDS messages and saved stations
The device allows the interfacing and adaptation of the signal level of an external stereo audio source. It is connected with the audio signal by means of two RCA female connectors (red = right channel; white = left channel) on the front of the device. There is also a knob to adjust the input signal sensitivity and two LED to indicate the device state (ON/STANDBY) and the correct adjustment. The device must only be connected to class II external sound sources (IEC EN 60065). These sources are identified by the double insulation symbol □. Preamplified outputs should be used because their level is independent of the volume set on the external sound source amplifier. The earphone outputs should thus not be used.

**Technical data**

<table>
<thead>
<tr>
<th>Supply voltage from BUS</th>
<th>18 to 27 Vd.c.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Size</td>
<td>2 modules</td>
</tr>
<tr>
<td>Absorption</td>
<td></td>
</tr>
<tr>
<td>• In stand-by:</td>
<td>12mA max</td>
</tr>
<tr>
<td>• When working:</td>
<td>30mA</td>
</tr>
<tr>
<td>Operating temperature</td>
<td>5°C to 45°C</td>
</tr>
</tbody>
</table>

**Stereo audio features**

- RCA input impedance: 14KΩ
- Input sensitivity: 100mVrms to 1Vrms
- TYP channel balancing: ± 0.5dB
- MIN channel balancing: ± 1.5dB
- Frequency range @ -3dB: 20Hz to 20Khz

**Legend**

1. RCA female connectors for stereo audio input
2. adjustment knob
3. LED for audio adjustment on the BUS of the sound system:
   - off: no audio signal
   - green: signal with minimum level
   - flashing orange: best adjustment
   - steady orange: signal too high
4. state indication LED
   - green: standby
   - orange: device ON
5. configurator housing
6. pull-out terminal for connection to the BUS
TECHNICAL FEATURES
Stereo control Item L4561

The device manages and interfaces an external stereo audio source (e.g. Hi-Fi system) with infrared remote control. The device can save and reproduce the commands given by the stereo source remote control. The commands saved by the stereo control are sent to the external stereo control through a cord with infrared transmitter (supplied). In this way one can, by means of the various control devices (special controls and TOUCH SCREEN) and the amplifiers, manage the switching on and control of the source (e.g. activation of the radio and scanning of the saved stations or activation of a CD reader and changing the CD track).

It is connected to the stereo source by means of two RCA/RCA connectors (white = left channel; red = right channel) on the front of the device (the RCA/RCA cable is supplied). As well as the RCA connectors on the front of the stereo control there are pushbuttons which, with the aid of an indication LED, adjust the audio signal entering the device. There are also 4 pushbuttons which are used to programme the stereo control and an infrared receiver which is used to save the signals from the source remote control.

During normal operation of the stereo control, when the device activates the Hi-Fi system, the loudspeakers directly connected to the system switch on as well. When the last amplifier switches off, giving an OFF command, the loudspeakers switch off but the Hi-Fi system remains active for one minute. The device must only be connected to class II external sound sources (IEC EN 60065). These sources are identified by the double insulation symbol $^\text{a}$.

Preamplified outputs should be used because their level is independent of the volume set on the external sound source amplifier. The earphone outputs should thus not be used.

Technical data

Supply voltage from BUS: 18 to 27 Vd.c.
Size: 4 DIN modules
Absorption:
  - In stand-by: 12mA
  - When working: 40mA
Operating temperature: 5°C to 45°C

Stereo audio features
  - RCA input impedance: 14K$\Omega$
  - Input sensitivity: 200mVrms to 1Vrms
  - TYP channel balancing: ± 0.5dB
  - MIN channel balancing: ± 1.5dB
  - Frequency range @ -3dB: 20Hz to 20KHz

Legend

1. RCA female connectors for stereo audio input
2. buttons, LED and sensors to programme the stereo control and adjust the output audio on the BUS
3. configurator housing:
4. jack input for connection of cable with IR sensor (supplied)
5. terminal for connection to the BUS by patch cord

<table>
<thead>
<tr>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
</tr>
</thead>
<tbody>
<tr>
<td>RCA</td>
<td>LED</td>
<td>Sensor</td>
<td>Jack</td>
<td>Terminal</td>
</tr>
</tbody>
</table>

$^\text{a}$ Double insulation symbol
**TECHNICAL FEATURES**

Special control Item L4651/2 and Item H4651/2

This device, correctly configured (SPE = 8), is used to send commands to manage the various devices such as amplifiers, FM tuners, external sound sources etc. on the BUS. In point to point or room configuration the special control can switch one or more amplifiers ON/OFF, manage the volume, change the source and cycle the saved stations (for the radio) or change the CD track. In general control configuration, the special control performs the commands just mentioned apart from managing the volume. The device is completed with 1 module button covers item L/N/NT4911...

**Technical data**

- **Supply voltage from BUS:** 18 to 27 Vd.c.
- **Size:** 2 modules
- **Absorption:** stand-by: 7.5 max
- **Operating temperature:** 5°C to 45°C

**Legend**

1. control to switch on amplifier(s) (simple touch) and increase the volume (long press)
2. control to cycle and activate the available stereo sources
3. control to scan the emitters saved (for the radio) or the CD tracks
4. control to switch off amplifier(s) (simple touch) and decrease the volume (long press)
5. pull-out terminal for connection to the BUS
6. configurator housing

---

The single black control buttons inside the package are used for the sound playing mode.
**TECHNICAL FEATURES**

**Radio control devices**

**RADIO CONTROL ITEM L4572SB**

Self-supplied 4-channel radio transmitting device (does not require batteries) characterized by its low profile which allows it to be wall-mounted with double-sided adhesive tape or with screws or screw anchors, with no flush-mounted box.

The control can be completed with a button cover Item L/N/NT4919SB and LIVING INTERNATIONAL/LIGHT E LIGHT TECH cover plates.

In order to use the Radio control, it is necessary to install a special receiving interface Item L/N/NT4575SB in the Sound System.

**Technical data**

- **Power supply:** does not require batteries
- **Transmission frequency:** 868 MHz
- **Length:** 100 metres in free air
- **Size:** 2 LIVING INTERNATIONAL/LIGHT modules
- **Operating temperature:** +5°C to +35°C

**Legend**

1. A short pressure activates the source and the amplifier; a prolonged pressure increases the volume
2. Changes the sound source
3. A short pressure switches off the amplifiers; a prolonged pressure decreases the volume
4. Changes the track or radio station

**RADIO REMOTE CONTROL ITEM 3527**

6-channel radio transmitting device powered by 2 alkaline pen batteries – 1.5 V. It is characterized by an ergonomic handle; this remote control has 6 backlit keys that can be graphically customised by the user. The device can also be connected to a blow detector to be used by disabled people.

In order to use the remote control, it is necessary to install a special receiving interface Item L/N/NT4575N or HC/HS4575 in the Sound System.

**Technical data**

- **Power supply:** Two 1.5V alkaline pen batteries – type AA
- **Transmission frequency:** 868 MHz
- **Length:** 100 metres in free air
- **Operating temperature:** +5°C to +35°C
TECHNICAL FEATURES

Wire-radio interface and Touch Screen

RADIO INTERFACES ITEM HS/HC4575, ITEM L/N/NT4575N E ITEM L/N/NT4575SB

With an appropriate configuration, these My Home Automation system devices can be used to receive signals from the radio controls and to manage the following functions of the 2-wire Sound system:

- ON/OFF function of the amplifiers;
- volume adjustment;
- selection of sound sources;
- change of stored radio stations (from radio Item F500) or track (when using a CD reader).

The interface Item L/N/NT4575SB is specifically used with the Radio control Item L4572SB.

Technical data

Power supply: 27V d.c. from BUS
Transmission frequency: 868 MHz
Absorption: 22mA (Item L/N/NT4575N and Item HC/HS4575) 33mA (Item L/N/NT4575SB)
Size: 2 LIVING INTERNATIONAL/LIGHT MODULES
Operating temperature: +5°C to +35°C

Legend

1 LED
2 Pin button for programming
3 Configurator housing (see chapter “Configuration” for details)
4 Pull-out terminal for connection to the BUS

TOUCH SCREEN ITEM L/N/NT4683 AND ITEM H4684

This device can centralise and control all the functions of the MY HOME system (Sound System, Automation, Burglar-Alarm, etc.) at the touch of a finger. By interacting with various icons on the backlight display, previously configured with the Tidisplay software, you can select and activate the various sound sources, adjust the volume, select the radio stations to be listened to and read the RDS messages. A TOUCH SCREEN function allows using the Sound System as an alarm clock. After setting the time on the TOUCH SCREEN, the sound source set will switch on at the time set and the loudspeakers will switch on, first at a low sound level (20%) and then reaching a higher level (80%) after 2 minutes (automatic switching off).

The alarm clock is switched off by touching the TOUCH SCREEN or the “OFF” pushbutton of an amplifier. The TOUCH SCREEN is easily installed on the wall using box Item 506E and is completed with cover plates Item L/N/NT4826... (Item L/N/NT4683) or with cover plates AXOLUTE Item HA/HB4826... (Item H4684).

Technical data

Supply voltage from BUS: 18 to 27 Vd.c. (from BUS)
Size: installation on box 506E
Absorption: 20mA
Operating temperature: 0°C to 40°C

Legend

1. terminal to connect the cable to the PC which is used to program the device
2. pull-out terminal for connection to the BUS
TECHNICAL FEATURES
Stereo amplifier Item L4562 and Item H4562

This device amplifies the stereo signal on the BUS and controls up to two loudspeakers with impedance between 8Ω and 16Ω. On the front the amplifier has two pushbuttons which can: switch the loudspeakers ON/OFF, adjust the volume in output, change the audio source and cycle the saved stations (for the radio) or save the CD tracks.

Correctly configured the amplifier can have two modes:
- "FOLLOW ME" mode: function which allows the same music in another room after the amplifier of the room previously occupied has been switched off and switching on the amplifier on the room you are now in.
- "NO FOLLOW ME" mode: when another amplifier is switched on, on changing room, the source configured the same as the configurator (inserted on M2) inserted on the amplifier switches ON, not necessarily the source which was being listened to before.

The device is completed with 1-module button covers item L/N/NT4911... (Item L4562) or Item HC/HS4911... (Item H4562).

Supply voltage from BUS: 18 to 27 Vd.c.
Size: 2 modules
Absorption:
- In stand-by: 6mA max
- When working: see table in the absorption calculation section
Operating temperature: 5°C to 45°C

Stereo audio features:
- Power (on 8Ω): 2Wrms (1Wrms + 1Wrms)
- 16Wpmpo (8Wpmpo + 8Wpmpo)
- TYP channel balancing: ± 0.5dB
- MIN channel balancing: ± 1.5dB
- Frequency range @ -3dB: 20Hz to 20Khz
- TYP distortion: 0.1%
- Noise signal ratio: 68dB

Legend
1. control to switch on the amplifier (simple touch) and increase the volume (long press)
2. control to cycle and activate the available stereo sources
3. control to scan the emitters saved (for the radio) or the CD tracks
4. control to switch off the amplifier (simple touch) and decrease the volume (long press)
5. screw terminals for connection of the loudspeakers
6. pull-out terminal for connection to the BUS
7. configurator housing
TECHNICAL FEATURES
Amplifier for DIN35 rail Item F502

This device, with hook for installation on DIN rail, allows installations mainly in rooms of the service sector. Supplied directly at 230V a.c. it allows multiple installations (maximum 40 amplifiers and 80 loudspeakers), thanks to the low current absorption on the BUS (5mA).

Correctly configured you can have both a stereo and a mono signal in output from the device to the loudspeakers. This type of amplifier can be connected to 8Ω and 16Ω loudspeakers.

The amplifier can have two modes:
- “FOLLOW ME” mode: function which allows the same music in another room after the amplifier of the room previously occupied has been switched off and switching on the amplifier on the room you are now in.
- “NO FOLLOW ME” mode: when another amplifier is switched on, on changing room, the source configured the same as the configurator (inserted on M2) inserted on the amplifier switches ON, not necessarily the source which was being listened to before.

The device can be controlled either directly by means of the buttons on the front, or by the TOUCH SCREEN or by special controls item L4651/2 and Item H4651/2.

**Technical data**

- **BUS voltage**: 18 to 27V d.c.
- **Supply voltage**: 110 to 230V a.c. (50-60Hz)
- **Size**: 4 DIN modules
- **Absorption**:
  - On the Power terminal: 110mA (at 110V a.c.) - 56mA (at 230V a.c.)
  - On the BUS: 5mA
- **Operating temperature**: 5 to 45° C

Stereo audio features:
- **Power (on 8Ω)** = 2Wrms (1Wrms + 1Wrms)
- 16Wpmpo (8Wpmpo + 8Wpmpo)
- **TYP channel balancing**: ± 0.5dB
- **MIN channel balancing**: ± 1.5dB
- **Frequency range @ -3dB**: 20Hz to 20KHz (on 8Ω)

Dissipated power: 2W

**Legend**

1. terminal for connection of the power supply
2. terminals for connection of the loudspeakers
3. pull-out terminal for connection to the BUS
4. The pushbuttons under “ON” and “OFF” are used:
   - the “ON” pushbutton to switch on the amplifier (simple touch) and to increase the volume (long press)
   - the “OFF” pushbutton to switch off the amplifier (simple touch) and to decrease the volume (long press). The LED positioned under the pushbuttons indicate:
     - the LED under “ON/OFF” indicates the amplifier state: if it is OFF there is no BUS, if it is GREEN the device is in Stand-By, if it is ORANGE the amplifier is ON
     - the LED under “POWER” indicates: if it is OFF there is no voltage on the POWER terminal, if it is RED the amplifier is switched on.
5. configurator housing
## TECHNICAL FEATURES

### Loudspeakers

**FLUSH-MOUNTED ITEM L/N/NT4565**

- **Technical data**
  - Type: broadband
  - Power: 6W rms / 12W musical
  - Impedance: 16Ω
  - Frequency range: 160 to 16kHz
  - Sensitivity: 80dB (1W/1m)
  - Feature: loudspeaker to be installed in flush-mounted boxes item 506E

- **Technical data**

**WALL-MOUNTED ITEM L4567**

- **Technical data**
  - Type: 2 way
  - Power: 20W rms / 40W musical
  - Impedance: 8Ω
  - Frequency range: 75 to 20kHz
  - Sensitivity: 88dB (1W/1m)
  - Weight: 1 Kg
  - Feature: shallow loudspeaker to be installed on the wall (complete with fastening screw and 4 m of cable)
  - Dimensions: 271 x 184 x 37 mm

**FOR INSTALLATION ON THE CEILING ITEM L4566**

- **Technical data**
  - Type: 2 way coaxial
  - Power: 50W rms / 100W musical
  - Impedance: 8Ω
  - Frequency range: 50 to 20kHz
  - Sensitivity: 88dB (1W/1m)
  - Weight: 1.7Kg
  - Feature: loudspeaker to be installed on the ceiling
  - Diameter mounting hole: 210 mm
  - External diameter: 240 mm
  - Depth: 140 mm
**TECHNICAL FEATURES**

**Power supply and cable**

**POWER SUPPLY ITEM 346000**

Power supply for the video door entry system and the sound system components: audio/video node, flush-mounted amplifier, special controls, radio tuner and interfaces for external stereo sources.

**Technical data**

- Device with double insulation
- Maximum current which can be supplied: 1200mA
- Size: 8 DIN modules
- Input voltage: 230V a.c. 50Hz
- Output voltage:
  - BUS terminal: 27 V
  - Terminals 1 and 2: 27 V d.c.
- Dissipated power: 9W

**CABLE ITEM 336904**

Cable with 2 twisted conductors which can be buried in piping – corresponds to the standards (IEC 20-13 and IEC 20-14), 200 metre coil.

**Technical data**

- Outer sheath:
  - white RAL 9010
  - external diameter max 5 mm
  - on the sheath there is a measurement indicator with metric progression as well as the indication of the year of production
- Cross-section of the single conductors: 0.50 mm²
- Electrical resistance: < 45Ω / km at 20° C
- Operating temperature: -15°C to +70°C
## DIMENSIONAL DATA

### DEVICES ON DIN GUIDE

#### DIN modular

![DIN modular diagram](image)

<table>
<thead>
<tr>
<th>Item</th>
<th>Dimensions (mm)</th>
<th>No. of DIN modules</th>
</tr>
</thead>
<tbody>
<tr>
<td>346000</td>
<td>90 140 61</td>
<td>8</td>
</tr>
<tr>
<td>F411</td>
<td>90 105 30</td>
<td>6</td>
</tr>
<tr>
<td>F500</td>
<td>90 72 30</td>
<td>4</td>
</tr>
<tr>
<td>L4561</td>
<td>90 72 30</td>
<td>4</td>
</tr>
<tr>
<td>F502</td>
<td>90 72 30</td>
<td>4</td>
</tr>
</tbody>
</table>

### NON MODULAR DEVICES

![Non modular devices](image)

- L/N/NT4565
- HC-HS4565
- HC-HS4070
- L4566
- L4567
This booklet deletes and replaces the guide DS05G “2 wire sound system”
Bticino SpA reserves at any time the right to modify the contents of this booklet and to communicate,
in any form and modality, the changes brought to the same.