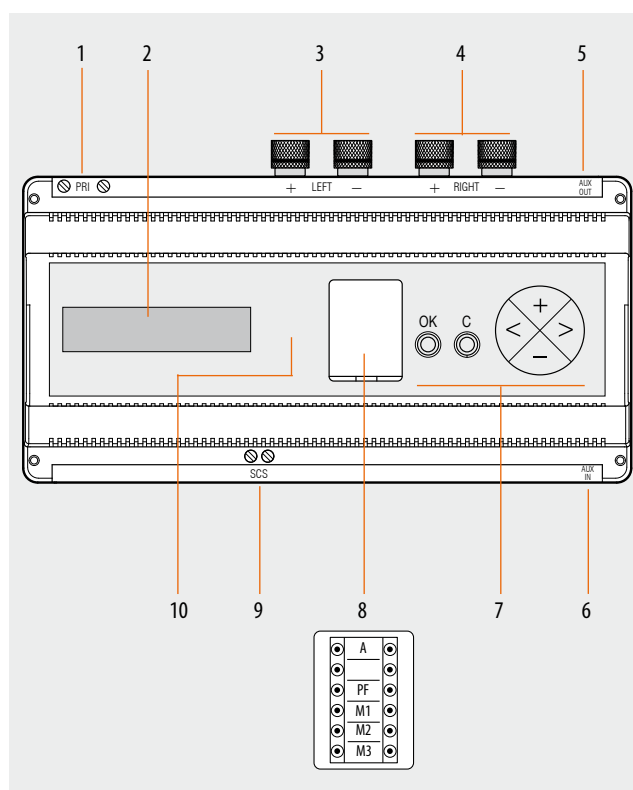# Power amplifier

F503

Description

The stereo amplifier, item F503, ensures accurate reproduction of the sound signal, both from the SCS/BUS and, in alternative, from the AUX input (MP3 or CD player, etc.). The wide range of adjustments of high and low tones available, the 10 preset equalisation levels, as well as the additional 10 levels that can be customised by the customer, the virtual surround, to name a few, ensure pleasurable listening in each room, following the taste of the user. Each parameter can be displayed on the OLED graphic display.
All the adjustments are performed using the keys of the amplifier, or remotely using the Touch Screen devices.

Technical data

BUS voltage:	18 – 27 Vdc
Power supply (PRI):	110 – 240 Vac @ 50 – 60 Hz
Absorption on the BUS:	12 mA
Absorption on the line:	85 mA (at 110 Vac) – 45 mA (at 230 Vac)
Dissipated power:	stand-by 3.5 Wmax - ON: 13 Wmax @ 1 kHz input tone
Operating temperature:	5 – 45 °C
Potenza (su 8 Ω):	60 Wrms (3 Wrms + 30 Wrms) 480 Wpmpo (240 Wpmpo + 240 Wpmpo)
Low tones adjustment:	±20 dB max
High tones adjustment:	±20 dB max
Frequency range @ -3 dB:	20 Hz–20 kHz (on 8 Ω)
AUX input:	1 Vrms max
AUX Output:	1 Vrms max, @Rout = 600 Ω
Equalisation adjustment:	±8 dB max

Dimensional data

10 DIN modules

Legend

1. 110 – 230 Vac power supply clamps
2. Graphic OLED display
3. Left channel loudspeaker connectors
4. Right channel loudspeaker connectors
5. AUX audio output (for the connection use a 3.5 mm stereo jack)
6. AUX audio input (for the connection use a 3.5 mm stereo jack)
7. Selection and navigation keys
8. Configurator socket
9. SCS audio input (sound system BUS/SCS)
10. Status LEDs*

* The LEDs are under the plastic front cover plate, and can only be seen when the device is on:
- Upper LED (power supply status), blue for STAND BY/ purple for ACTIVE
- Lower LED (110 to 230 Vac power supply), blue for power supply PRESENT

Description

To access the configurator sockets remove the protection cover. A description of the configurators is printed on the inside of the cover.

	A		PF	M1	M2	M3

A: 1-9 address of the amplifier room
PF: 1-9 address of the amplifier sound source:
M1**: - (no configurator) volume level equal to 20% and "MUTE": mode: this mode, when the video door entry system is being used the volume of the sound sources will be decreased
- 1 volume level equal to 20% but "MUTE" mode not available"
- 2 volume level equal to 50% and "MUTE" mode: in this mode, when the video door entry system is being used the volume of the sound sources will be decreased
- 3 volume level equal to 50% but "MUTE" mode not available

- 4 volume level equal to 100% and "MUTE" mode: in this, mode, when the video door entry system is being used the volume of the sound sources will be decreased
- 5 volume level equal to 100% but "MUTE" mode not available
- SLA amplifier slave operation mode:
M2: - (no configurator) when the amplifier is switched on, the last source which was on is activated, "FOLLOW ME" mode
- 1-4 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 - (no configurator) working correctly
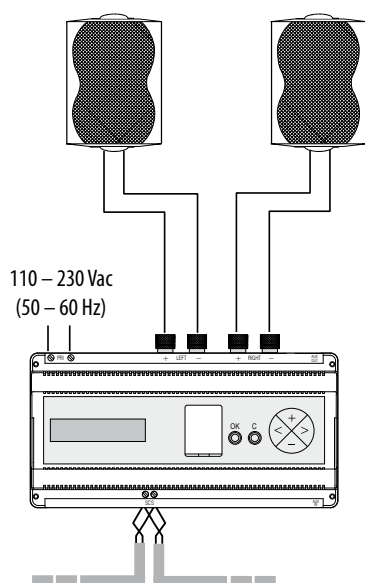- 1 both the outputs reproduce the signal received on the LEFT channel
- 2 both the outputs reproduce the signal received on the RIGHT channel
- 3 the amplifier reproduces a monophonic signal on both the loudspeaker outputs
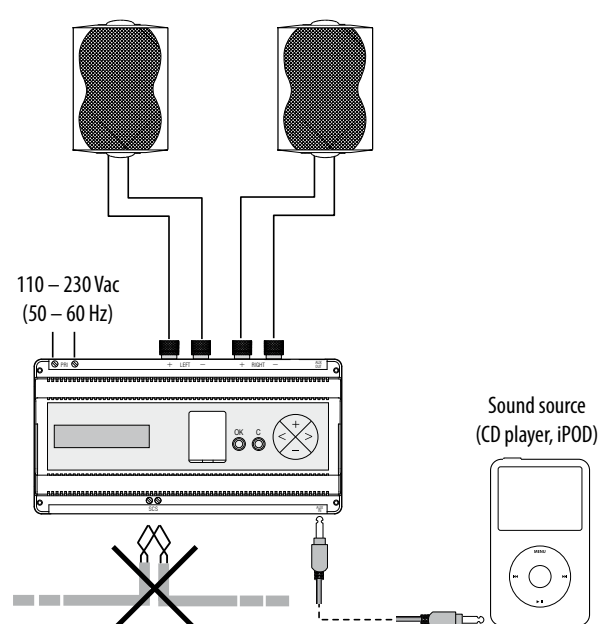
** This mode can only be activated when the Sound System is integrated with the 2-wire audio and video door entry system. This combination allows the "pager" function and the volume level is set via the configurators.

Wiring diagrams

Wiring diagram with SCS BUS connected (the power amplifier plays back the sources from the 2-wire sound system).

110 – 230 Vac
(50 – 60 Hz)

Wiring diagram with SCS BUS disconnected (the power amplifier is independent from the SCS BUS and plays back the source connected to the AUX IN input).

110 – 230 Vac
(50 – 60 Hz)

Sound source
(CD player, iPOD)

Note: The desired input, SCS or AUX IN, must be selected using the local keys (see the installation manual for the correct procedures).