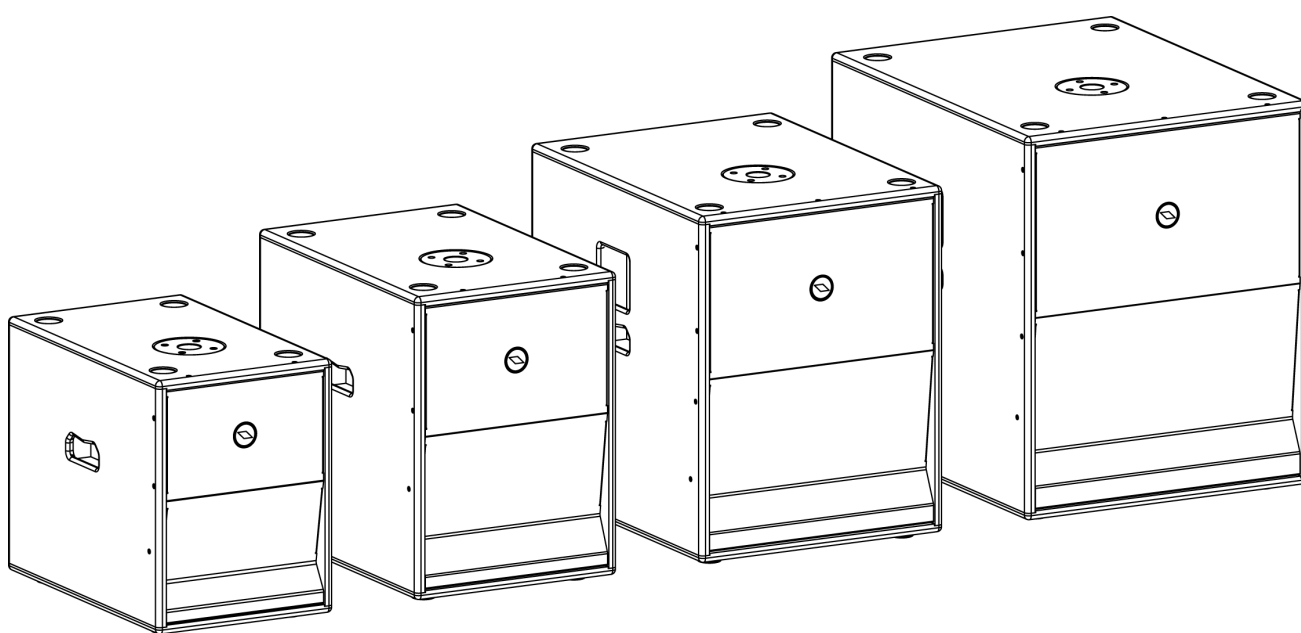


S SERIES

Active Subwoofers

USER'S MANUAL
MANUALE D'USO



ENGLISH
ITALIANO

96MAN0130-REV.28/18

PROEL 

SUMMARY - ENGLISH

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DISPOSAL OF OLD ELECTRICAL & ELECTRONIC EQUIPMENT



This marking shown on the product or its literature, indicates that it should not be disposed with other household wastes at the end of its working life. To prevent possible harm to the environment or human health from uncontrolled waste disposal, please separate this from other types of wastes and recycle it responsibly to promote the sustainable reuse of material resources.

Household users should contact either the retailer where they purchased this product, or their local government office, for details of where and how they can take this item for environmentally safe recycling. Business users should contact their supplier and check the terms and conditions of the purchase contract. This product should not be mixed with other commercial wastes for disposal.

GENERAL SAFETY INSTRUCTIONS

- **CAUTION** - Before using this product read carefully the following safety instructions. Take a look of this manual entirely and preserve it for future reference. When using any electric product, basic precautions should always be taken, including the following:
- To reduce the risk, close supervision is necessary when the product is used near children.
- Protect the apparatus from atmospheric agents and keep it away from water, rain and high humidity places.
- This product should be site away from heat sources such as radiators, lamps and any other device that generate heat.
- Care should be taken so that objects and liquids do not go inside the product.
- The product should be connected to a power supply only of the type described on the operating instructions or as marked on the product.

IN CASE OF FAULT

- In case of fault or maintenance this product should be inspected only by qualified service personnel when:
 - Liquids have spilled inside the product.
 - The product has fallen and been damaged.
 - The product does not appear to operate normally or exhibits a marked change in performance.
- Do not operate on the product, it has no user-serviceable parts inside.
- Refer servicing to an authorized maintenance centre.

PACKAGING, SHIPPING AND COMPLAINT

- This unit package has been submitted to ISTA 1A integrity tests. We suggest you control the unit conditions immediately after unpacking it.
- If any damage is found, immediately advise the dealer. Keep all unit packaging parts to allow inspection.
- Proel is not responsible for any damage that occurs during shipment.
- Products are sold “delivered ex warehouse” and shipment is at charge and risk of the buyer.
- Possible damages to unit should be immediately notified to forwarder. Each complaint for manumitted package should be done within eight days from product receipt.

WARRANTY AND PRODUCTS RETURN

- Proel products have operating warranty and comply their specifications, as stated by manufacturer.
- Proel warrants all materials, workmanship and proper operation of this product for a period of two years from the original date of purchase. If any defects are found in the materials or workmanship or if the product fails to function properly during the applicable warranty period, the owner should inform about these defects the dealer or the distributor, providing receipt or invoice of date of purchase and defect

detailed description. This warranty does not extend to damage resulting from improper installation, misuse, neglect or abuse. Proel S.p.A. will verify damage on returned units, and when the unit has been properly used and warranty is still valid, then the unit will be replaced or repaired. Proel S.p.A. is not responsible for any "direct damage" or "indirect damage" caused by product defectiveness.

MAINTENANCE AND DISCLAIMER

- Clean only with dry cloth.
- Proel products have been expressly designed for audio application, with signals in audio range (20Hz to 20kHz). Proel has no liability for damages caused in case of lack of maintenance, modifications, improper use or improper installation non-applying safety instructions.
- Proel S.p.A. reserves the right to change these specifications at any time without notice.
- Proel S.p.A. declines any liability for damages to objects or persons caused by lack of maintenance, improper use, installation not performed with safety precautions and at the state of the art.

POWER SUPPLY

- This apparatus should only be connected to power source type specified in this owner's manual or on the unit.
- If the supplied AC power cable plug is different from the wall socket, please contact an electrician to change the AC power plug.
- Hold the plug and the wall outlet while disconnecting the unit from AC power.
- If the unit will not be used for a long period of time, please unplug the power cord from AC power outlet.
- To avoid unit power cord damage, please do not strain the AC power cable and do not bundle it, do not step on it or pinch it by heavy objects.
- The mains plug is used as disconnect device, the disconnect device shall remain readily operable.

CONFORMITY

- The product is in compliance with CE Directive LVD 2014 / 35 / CE as stated in EN 60065 standard.
- The product is in compliance with CE Directive EMC 2014 / 30 / CE as stated in EN 55103-1 and EN 55103-2 standards.

FCC COMPLIANCE NOTICE

This device complies with part 15 of the FCC rules. Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference, and
- (2) this device must accept any interference received, including interference that may cause undesired operation.

CAUTION: Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

INTRODUCTION

Thank you for choosing this PROEL product and for your trust in our brand, synonymous of professionalism, accuracy, high quality and reliability. All our products are CE approved and designed for continuous use in professional applications.

DESCRIPTION

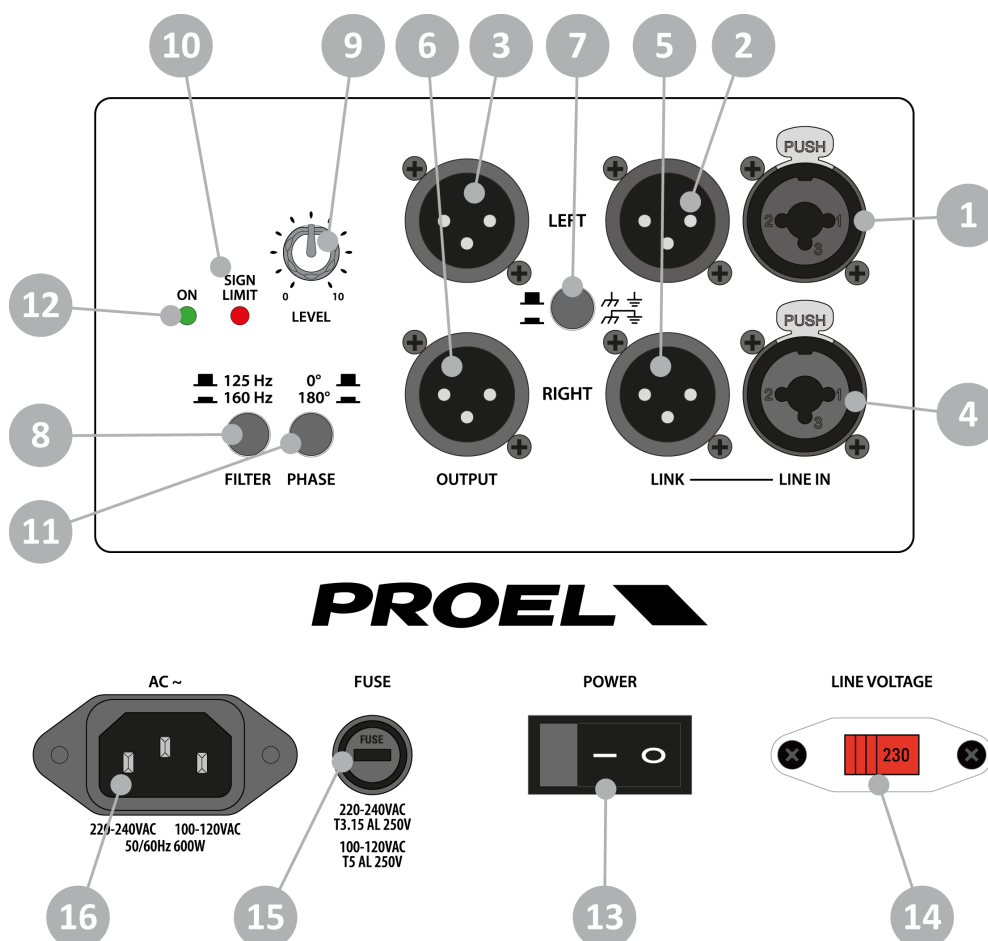
S series is a range of compact and powerful sub-woofers designed to complement PROEL full-range passive or active speakers. The variety of size, power and SPL offered by the four S models provides the perfect low extension solution for any speaker model available in the PROEL range.

All the S models feature high-excursion woofers in a Hybrid Band Pass configuration (HBP). This innovative design provides a higher efficiency compared to direct radiation sub-woofers and, in addition, guarantees a much better coupling of the tuning ducts with the external air, reducing the distortion and the air turbulence, for a more defined sound and deep and punchy lows.

The new CLASS D amplifier modules with SMPS (Switch Mode Power Supply) can generate a massive amount of continuous power in a compact, lightweight and reliable package. All the modules include a STEREO pre-amp section, 24dB/oct. crossover filters with selectable frequency and PHASE reverse switch.

The cabinets are built with 15 / 18mm plywood and finished with extra-durable polyurethane paint. They feature two flush handles and four sturdy 75mm wheels for an easy transport (S15 and S18 only).

INSTRUCTIONS



1. LINE IN (XLR-JACK combo input)

This is a female combo connector, which accepts an XLR or a JACK plug from almost any type of equipment with a balanced or unbalanced output. The XLR input is wired as follows:

- Pin 1 = shield or ground
- Pin 2 = + positive or "hot"
- Pin 3 = - negative or "cold"

The JACK input is wired as follows:

- Tip = + positive or "hot"
- Ring = - negative or "cold"
- Sleeve = shield or ground

When connecting an unbalanced signal, wire them as follows:

- Pin2 / Tip = + positive or "hot"
- Pin 1-3 / Sleeve = shield or ground

NOTE: whenever possible, use always balanced cables. Unbalanced lines may also be used but they may result in noise over long cable runs. In any case, avoid using a balanced cable for one channel and an unbalanced one for the other.

2. LINK LEFT (XLR output balanced)

This is a male XLR connector connected in parallel with the respective line input, so the LINK is wired as the input. Connect it to the input of another powered speaker to make an array.

3. OUT LEFT (XLR output balanced)

This is a male XLR connector providing a balanced line-level signal. This signal is filtered with a high-pass filter to connect a satellite speaker. This output is wired as follows:

- Pin 1 = shield or ground
- Pin 2 = + positive or "hot"
- Pin 3 = - negative or "cold"

4. INPUT RIGHT (combo XLR-JACK input)

Same as above. Use both inputs and outputs when connecting a stereo system to a single subwoofer (1 sub + 2 sat). In the case of a mono system (1 sub + 1 sat for each channel) you can use left or right input without distinction.

5. LINK RIGHT (XLR output balanced)

This is a male XLR connector connected in parallel with the respective line input, so the LINK is wired as the input. Connect it to the input of another powered speaker to make an array.

6. OUT RIGHT (XLR output balanced)

Same as above. Use both inputs and outputs when connecting a stereo system to a single subwoofer (1 sub + 2 sat). In the case of mono system (1 sub + 1 sat for each channel) you must use the same channel used for input (left or right).

7. GND LIFT switch

This switch lifts the ground of the balanced audio inputs from the earth-ground of the amplifier. If you have HUM noise problems on one or more loudspeakers try to change the position of these switches (often all up or all down for all the units in the system). Please note that to have an effect all cables must be balanced.

8. FILTER switch

Use this switch to set the crossover frequency for the internal LOW PASS filter and for the HIGH PASS filter of LEFT and RIGHT outputs. Choose the crossover frequency by your taste or music genre, or according to the type of satellite connected.

The crossover frequencies vary between models: 125 / 160 Hz for S10A, 100 / 160 Hz for S12A and S15A, 80 / 125 Hz for S18A.

9. LEVEL control

Rotary level control: it attenuates the level of the signal sent to the subwoofer's speaker. The attenuation ranges from "0" fully closed (the signal is completely attenuated) to "10" fully open, nominal level (the signal is not attenuated in any way, so is fed to the internal amplifier at the same level at which it arrives on input).

10. SIGN/CLIP indicator

GREEN LED illuminates to indicate the presence of the signal at the built-in amplifier input.

RED LED illuminates when the internal amplifier's output is limited. When this LED flashes continuously you should reduce the input signal level.

11. PHASE 0° / 180° switch

This switch reverses the polarity of the subwoofer. Depending on the placement of the subwoofer relative to the full-range satellite speakers, you can get a better low-frequency response in the room if you reverse the polarity of the subwoofer's signal. Listen in different positions of the venue to find which is the best sounding setting.

NOTE: ALL SUBWOOFER SPEAKERS MUST BE HAVE THE SAME POLARITY. If you note a lack in lowest frequency range using more than one subwoofer, probably you have one of them out-of-phase respect to the others. Be always sure that all these switches are in same position.

12. ON indicator

GREEN LED: when lighted indicates that the amplifier has been turned on and AC power is available.

13. POWER switch

Speaker is "ON" when the switch is in the "I" position. Use this switch to set the speaker power to ON or OFF.

NOTE: When you shut down your equipment, turn off the speaker first. When powering up, turn on the speaker last.

14. LINE VOLTAGE selector

This switch sets the AC voltage line of your country (usually it is set by factory and isn't necessary to change it). The 115V setting is for mains line in the range of 100-120V~ and 230V setting is for mains line in the range of 220-240V~.



WARNING: an incorrect setting of AC LINE VOLTAGE could damage seriously the internal electronics!

15. FUSE holder

Here is placed the mains protection fuse.



REPLACE THE PROTECTION FUSE ONLY WITH SAME TYPE AS SHOWN ON THE PRODUCT.

IF AFTER THE SUBSTITUTION, THE FUSE INTERRUPTS AGAIN THE APPARATUS WORKING, DO NOT TRY AGAIN THEN CONTACT THE PROEL SERVICE CENTER.

16. AC~ socket

Here's where you plug in your speaker's mains supply cord. You should always use the mains cord supplied with the speaker. Be sure your speaker is turned off before you plug the mains supply cord into an electrical outlet.

17. TECHNICAL SPECIFICATION

	S10A	S12A	S15A	S18A
<i>System type</i>	Hybrid Band Pass subwoofer	Hybrid Band Pass subwoofer	Hybrid Band Pass subwoofer	Hybrid Band Pass subwoofer
<i>Loudspeaker</i>	10" woofer with 2" VC	12" woofer with 3" VC	15" woofer with 3" VC	18" woofer with 4" VC
<i>Amplifier Continuous Power</i>	350 W	600 W	600 W	600 W
<i>Amplifier Peak Power</i>	700 W	1200 W	1200 W	1200 W
<i>Frequency Response</i>	46 Hz - 160 Hz	43 Hz - 160 Hz	40 Hz - 160 Hz	36 Hz - 140 Hz
<i>Max SPL at 1m (peak)</i>	119 dB	127 dB	129 dB	131 dB
<i>Connectors</i>	IN: 2 x NEUTRIK COMBO OUT: 2 x NEUTRIK XLR-M LINK: 2 x NEUTRIK XLR-M	IN: 2 x NEUTRIK COMBO OUT: 2 x NEUTRIK XLR-M LINK: 2 x NEUTRIK XLR-M	IN: 2 x NEUTRIK COMBO OUT: 2 x NEUTRIK XLR-M LINK: 2 x NEUTRIK XLR-M	IN: 2 x NEUTRIK COMBO OUT: 2 x NEUTRIK XLR-M LINK: 2 x NEUTRIK XLR-M
<i>Controls</i>	Level GND lift X-over frequency Phase	Level GND lift X-over frequency Phase	Level GND lift X-over frequency Phase	Level GND lift X-over frequency Phase
<i>Power Supply</i>	220-240 V~ or 100-120 V~ 50/60 Hz with LINE VOLTAGE selector	220-240 V~ or 100-120 V~ 50/60 Hz with LINE VOLTAGE selector	220-240 V~ or 100-120 V~ 50/60 Hz with LINE VOLTAGE selector	220-240 V~ or 100-120 V~ 50/60 Hz with LINE VOLTAGE selector
<i>Consumption</i>	600 W	600 W	600 W	600 W
<i>Cabinet</i>	15/18 mm plywood Black anti-scratch paint 1.5 mm metal grille 2 handles 1 x pole socket	15/18 mm plywood Black anti-scratch paint 1.5 mm metal grille 2 handles 1 x pole socket	15/18 mm plywood Black anti-scratch paint 1.5 mm metal grille 2 handles 1 x pole socket 4 x 75 mm wheels	15/18 mm plywood Black anti-scratch paint 1.5 mm metal grille 2 handles 1 x pole socket 4 x 75 mm wheels
<i>Dimensions (W x H x D)</i>	315x420x495mm	360x500x520mm	435x570x560mm 435x570x660mm (wheels)	508x630x645mm 508x630x745mm (wheels)
<i>Weight</i>	14 kg (30.8lb)	19 kg (41.9 lb)	26 kg (58 lb)	36 kg (79.4 lb)

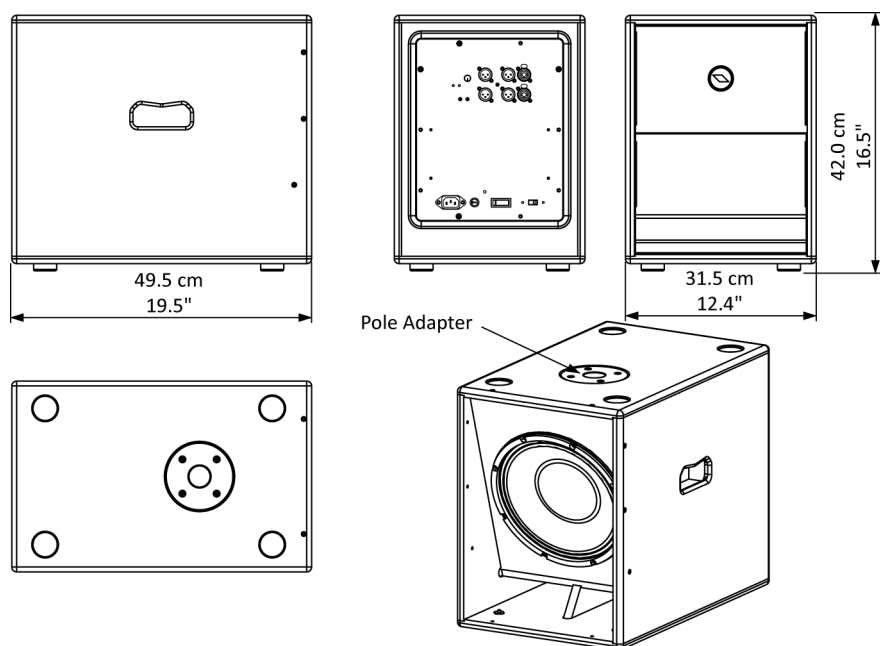
18. ACCESSORIES



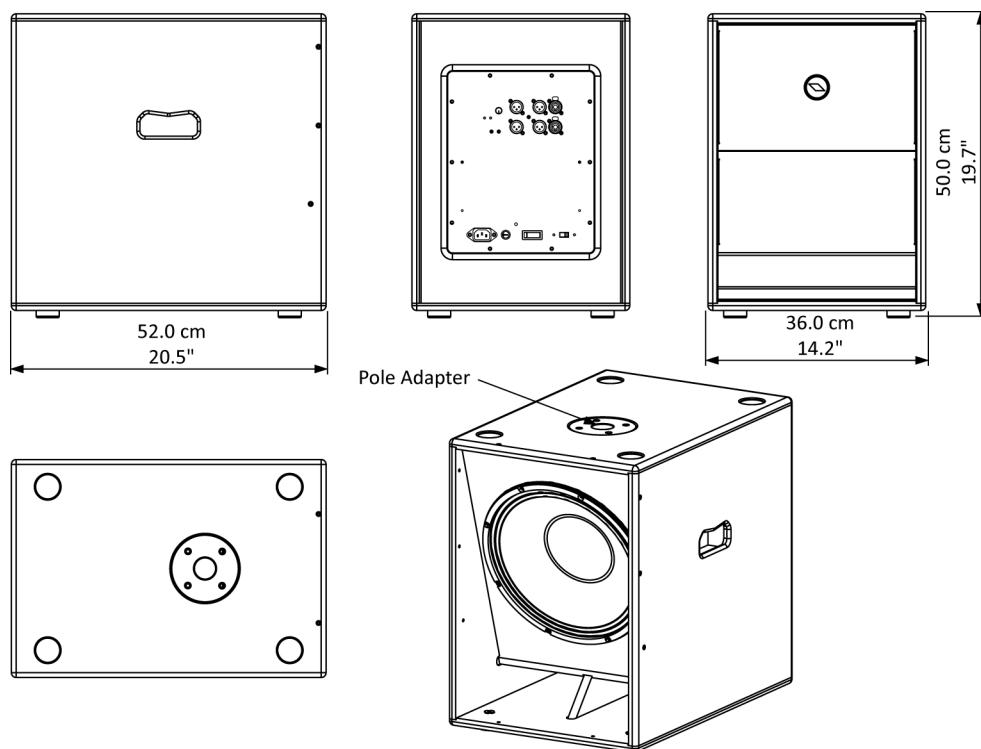
KP210 - Adjustable speaker pole for speaker-subwoofer separation with terminal pieces Ø 35 mm. Supplied with a bolt locking mechanism incorporating a steel pin for extra safety. Adjustment: 825 - 1320 mm.

Mechanical Dimensions – Dimensioni Meccaniche

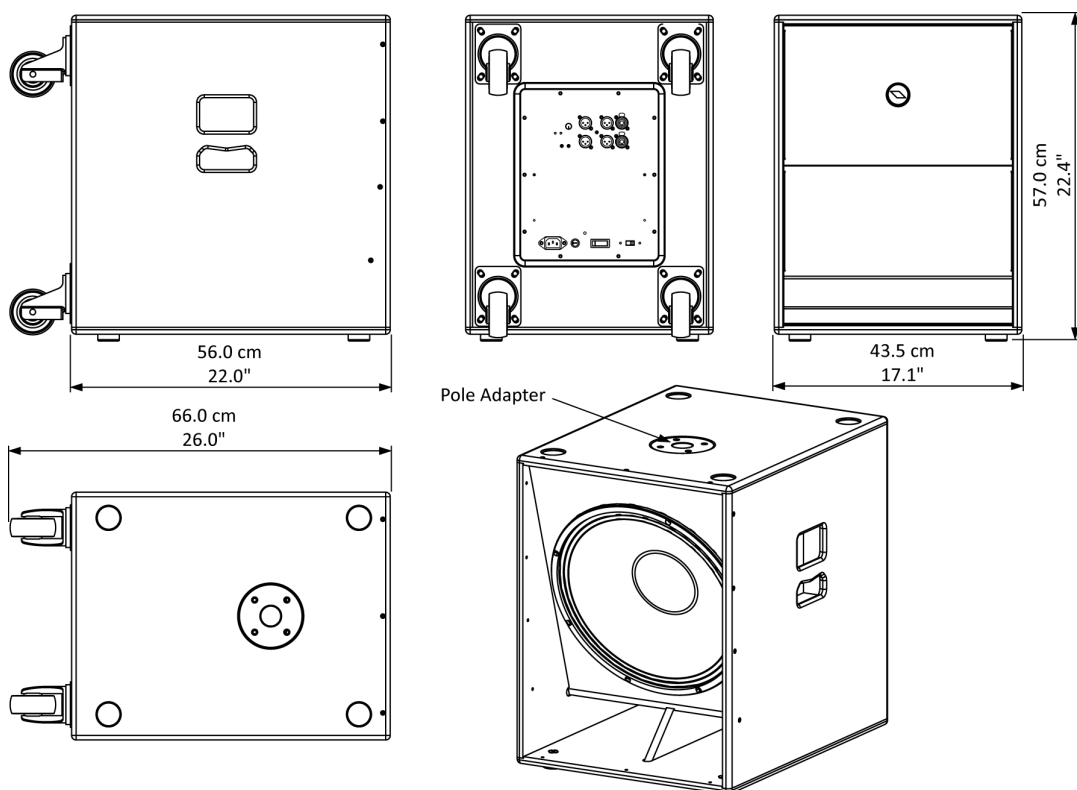
S10A



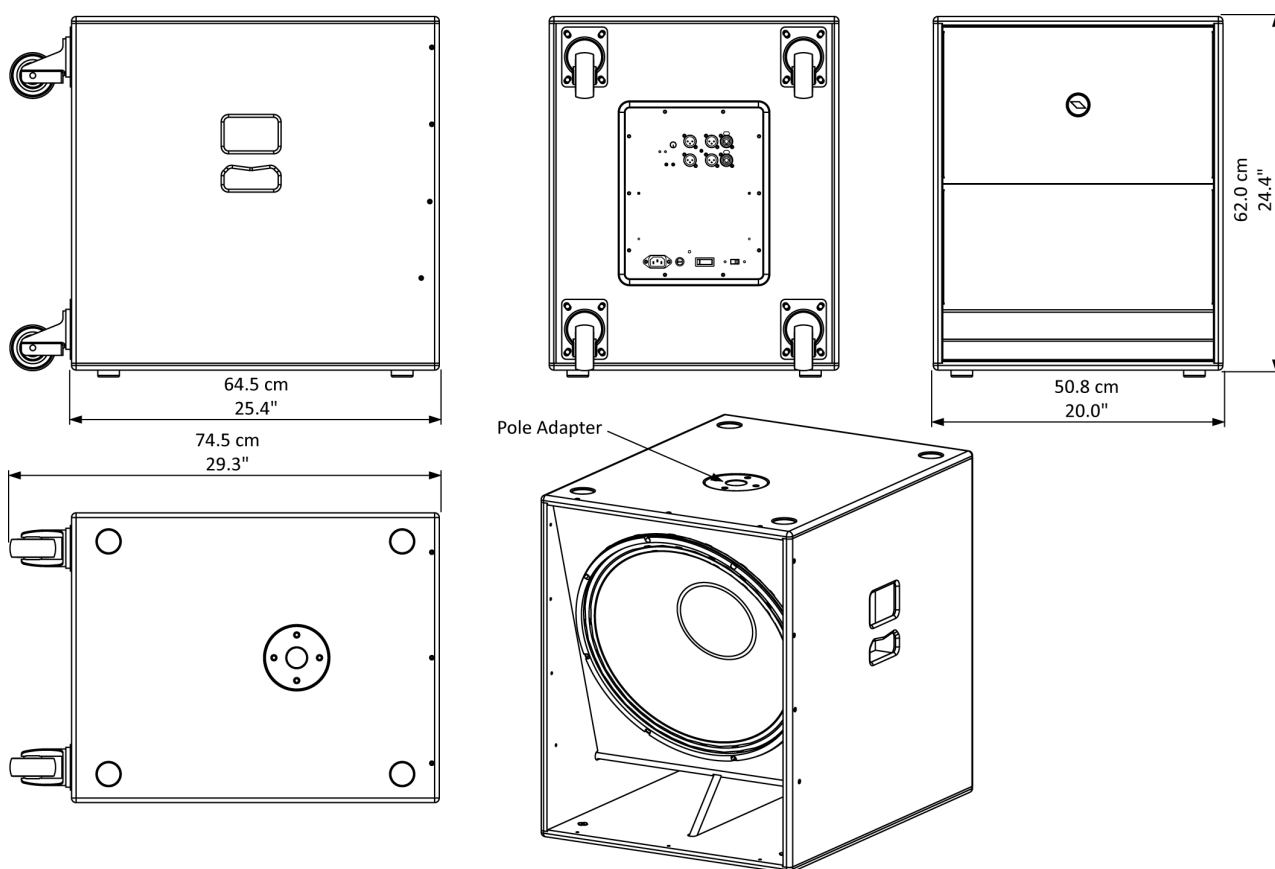
S12A



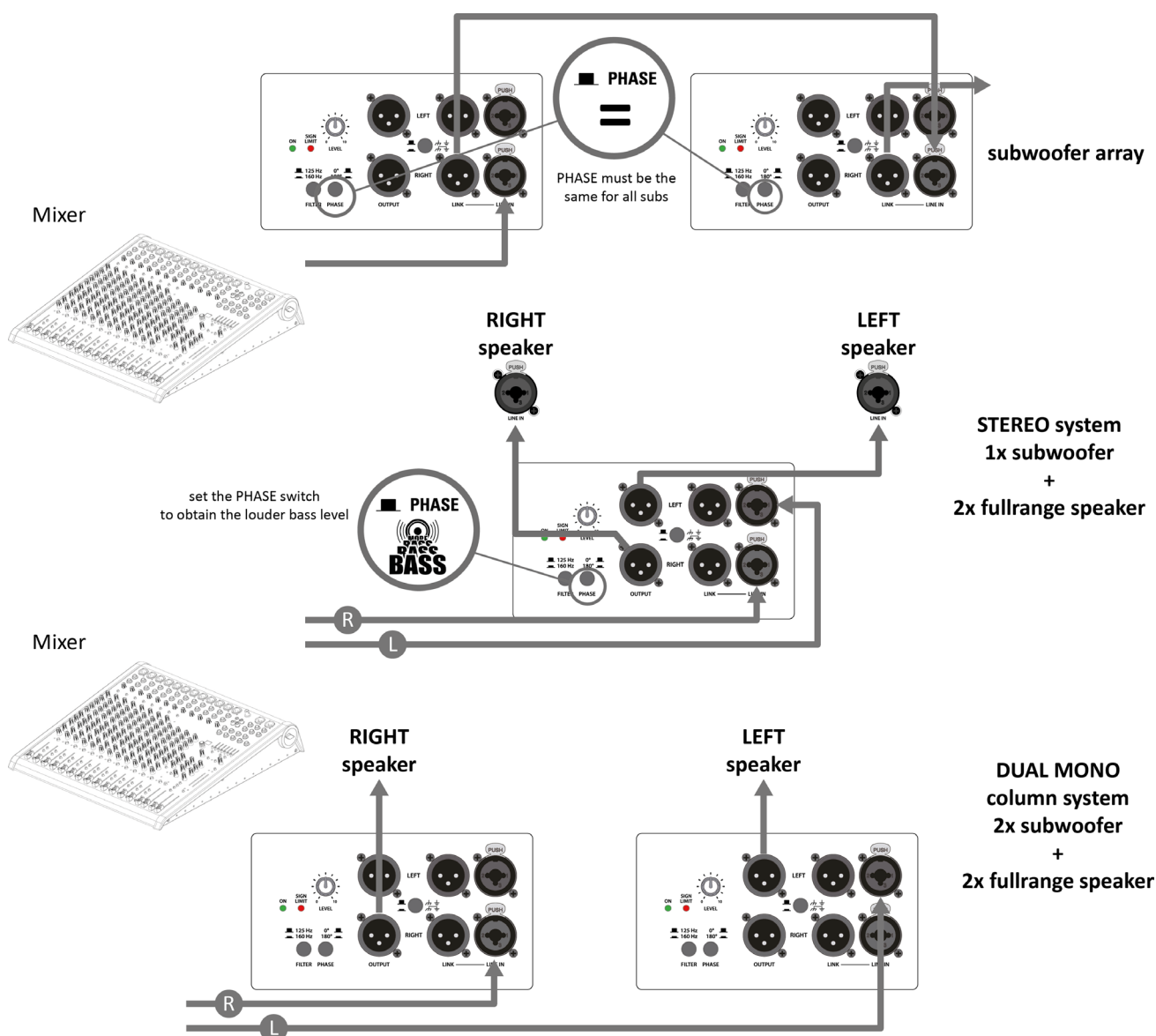
S15A



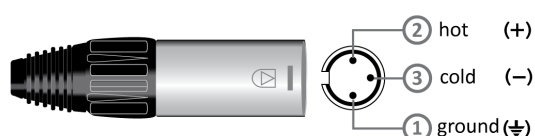
S18A



Configurations – Configurazioni

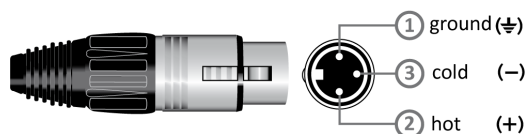


Connectors - Connettori



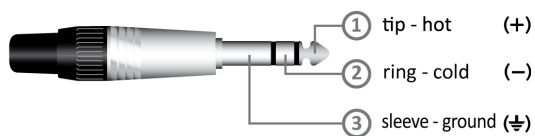
MIC/LINE IN
Balanced male XLR

INGRESSO MIC/LINE
XLR bilanciato maschio



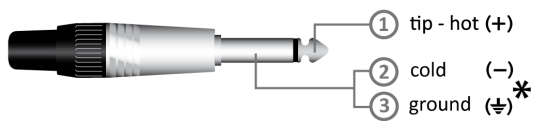
LINK (output)
Balanced female XLR

LINK (uscita)
XLR bilanciato femmina



MIC/LINE IN
Jack (balanced)

INGRESSO MIC/LINE
Jack (bilanciato)



MIC/LINE IN
Jack (unbalanced)

INGRESSO MIC/LINE
Jack (sbilanciato)

*Note: connect both cold and ground to make cable from balanced to unbalanced.

*Nota: connettere insieme cold e ground per cavi da bilanciato a sbilanciato.

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