

# PL 6X

## COAXIAL CEILING SPEAKER



### MAIN APPLICATIONS

- High intelligibility Speech and Background music
- Schools
- Shopping malls
- Hospital
- Museums
- Hotels
- Office building

### DESCRIPTION

The PL 6X is a ceiling speaker featuring elegant design that can be flush-mounted in false ceilings or panels. It can also be attached to walls or ceilings using a special accessory for surface mount installation. The PL 6X incorporates a 160 mm (6") loudspeaker and a coaxial 25 mm (1") tweeter placed on a bridge support and it is equipped with a line transformer that enables direct connection to constant voltage systems at 70 V or 100 V. When connected to a 100 V line, its power can be selected among the values 12 W, 6 W, 3 W or 1.5 W through the selection 6 inputs wire. Installation is quick and easy thanks to a special three-terminal system that avoids the need for using screws or other attachment elements.

### MAIN FEATURES

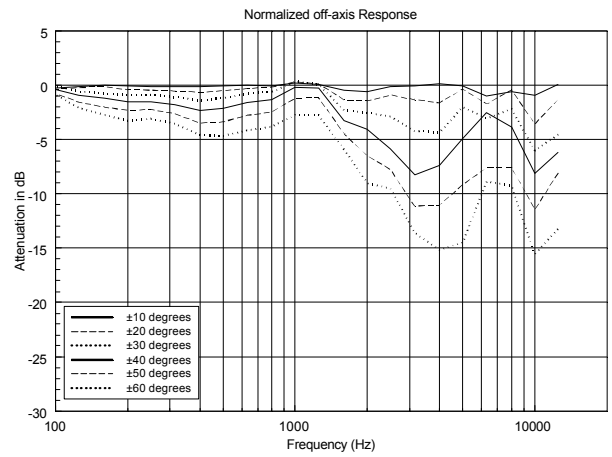
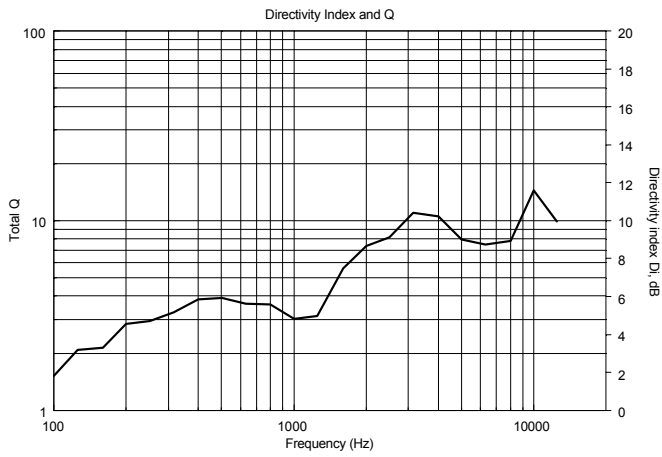
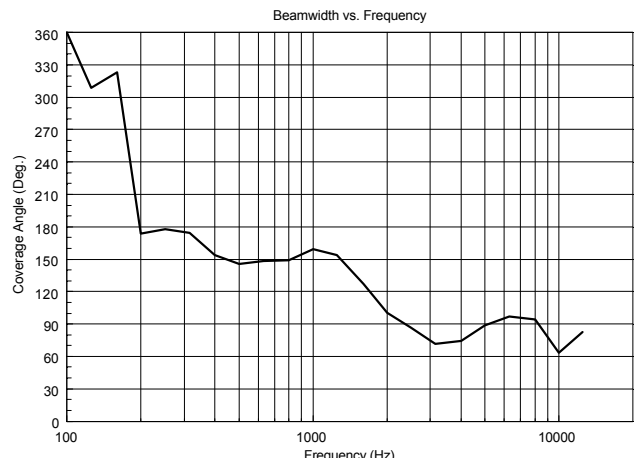
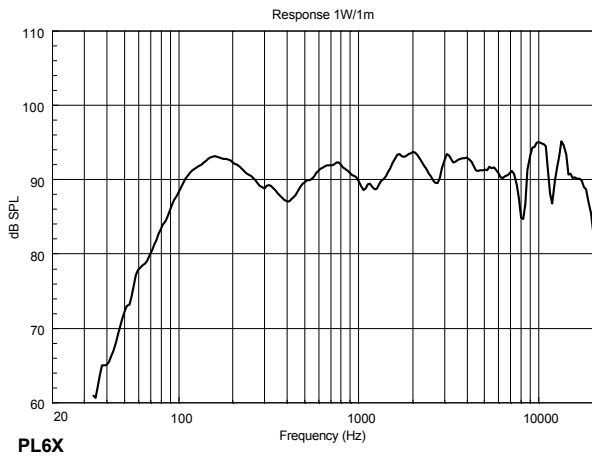
- Woofer 6" wide-band
- 1" coaxial tweeter
- 12 / 24 Watt (RMS/Music Power)
- 70 Hz ÷ 20 kHz
- 106 dB (1 m / POWER MAX) max. SPL
- Incl. 100V transformer multitap
- Easy to install
- Simple power settings

### SPECIFICATIONS

|                       |  |
|-----------------------|--|
| Loudspeaker           | 6" woofer with coaxial 1" tweeter        |
| Power (on 8 Ohm load) | 12 / 24 W (RMS / Music power)            |
| Power                 | 12 W - 6 W - 3 W - 1,5 W (100V)          |
| Sensitivity           | 92 dB (1 W / 1 m)                        |
| Mx. SPL (6 W / 1 m)   | 106 dB(A) (1 m / POWER MAX)              |
| Frequency Response    | 70 Hz - 20 kHz                           |
| Angle of coverage     | 150° / 110° / 70° @ 1 / 2 / 4 kHz (hor.) |
| Connector             | 6 pin terminal strip                     |
| Body colour           | White RAL 9016                           |
| Main body material    | Plastic                                  |
| Grill material        | Steel                                    |
| Dimensions            | Ø 204 mm x 73 mm                         |
| Flush-mounting hole   | Ø 182 mm                                 |
| Max ceiling thickness | 30 mm                                    |
| Net weight            | 1.2 kg                                   |
| Operating temperature | -25° to +55°                             |
| Relative humidity     | 90% non condensing                       |



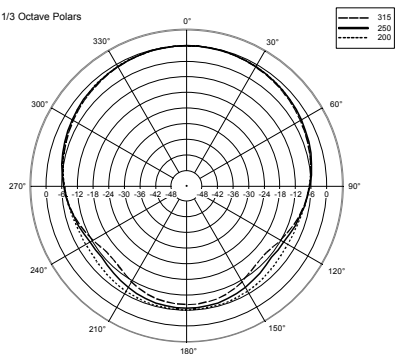
# PL 6X



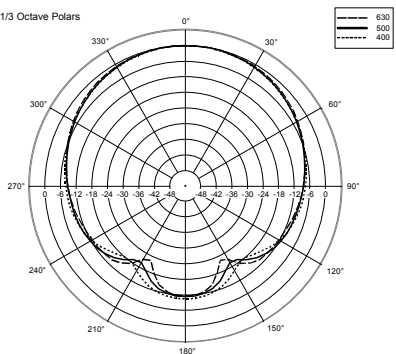
# PL 6X

## HORIZONTAL 1/3 POLAR PLOT

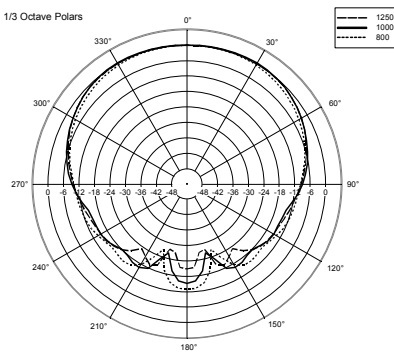
1/3 Octave Polars



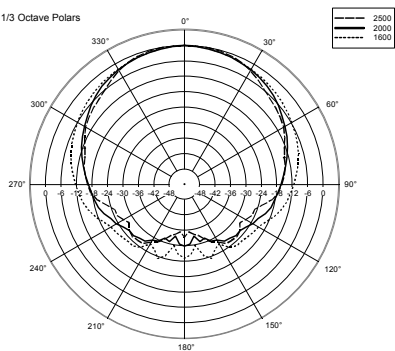
1/3 Octave Polars



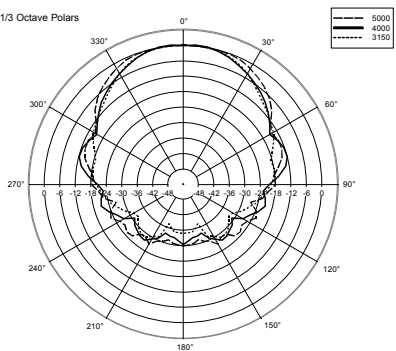
1/3 Octave Polars



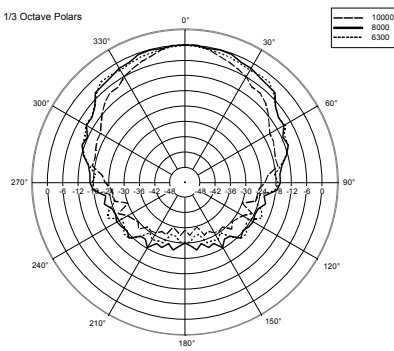
1/3 Octave Polars



1/3 Octave Polars



1/3 Octave Polars

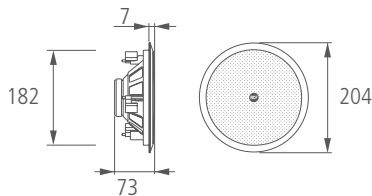


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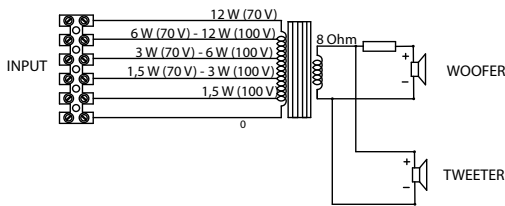
## PART NUMBERS

13133042

## DIMENSIONS (All data are in mm)



## SCHEMATICS



## POWER SELECTION

Define the colour cable to selected the chosen power value referring to the 100 V line (among 1.5 W – 3 W – 6 W – 12 W) so the correspondence impedance (among 6666 Ω – 3333 Ω - 1666 Ω – 833 Ω)

|      | GREEN<br>VERDE | WHITE<br>BIANCO | BROWN<br>MARRONE | BLUE<br>BLU | YELLOW<br>GIALLO | BLACK<br>NERO |
|------|----------------|-----------------|------------------|-------------|------------------|---------------|
| 70V  | 12W            | 6W              | 3W               | 1.5W        | /                | COM           |
| 100V | /              | 12W             | 6W               | 3W          | 1.5W             | COM           |

## CERTIFICATIONS AND APPROVALS

- CE comply with European Community Directive 73/23/EEC and 93/768/EEC
- Environmental protection IP 44 homologation
- Self-Extinguishing plastic according to UL 94V0
- Speaker data according to IEC 268-5
- Safety according to IEC EN 60065:2002

## ACCESSORIES (included)

- Connection Terminal
- Steel Grill

## INSTALLATION NOTES

Once removed the frontal grille the speaker can be simply and quickly installed into a hole in the ceiling cavity, secured by 3 lead-screw rotating clamps.

The electrical connections are clearly labelled and made through screw terminals block.

The power can be easily selected by using common wire and the positive wire using the legend of the power available on the speaker.

Before the installation, verify that behind the false-ceiling there is enough room for loudspeakers: with respect to the loudspeaker front flange surface plane, an empty space at least 75 mm depth is required.

The PL 6X is intended for indoor installations only.