

# PL 8X

## COAXIAL CEILING SPEAKER



### MAIN APPLICATIONS

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

### DESCRIPTION

The PL 8X 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 8X incorporates a 200 mm (8") 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 20 W, 10 W, 5 W or 2.5 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

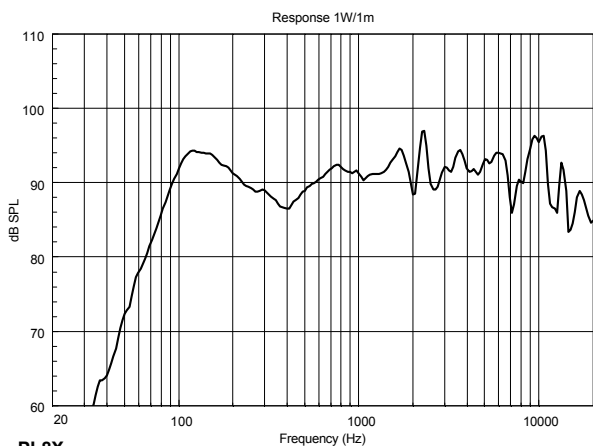
- Woofer 8" wide-band
- 1" coaxial tweeter
- 20 / 40 Watt (RMS/Music Power)
- 60 Hz ÷ 20 kHz
- 109 dB (1 m / POWER MAX) max. SPL
- Incl. 100V transformer multitap
- Easy to install
- Simple power settings

### SPECIFICATIONS

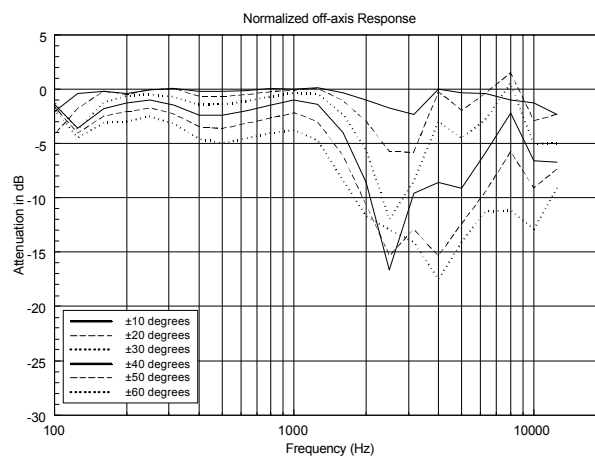
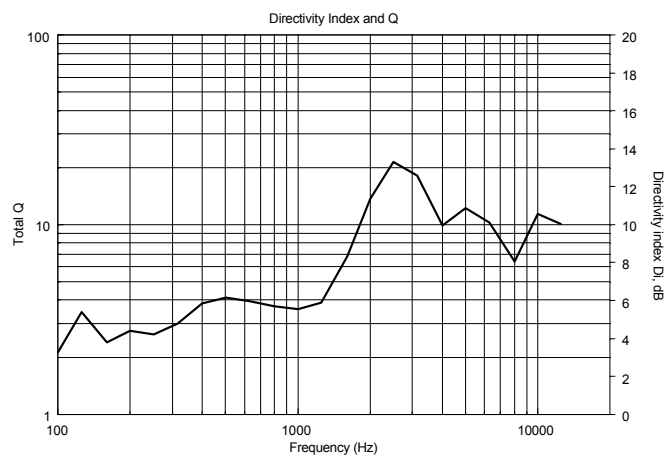
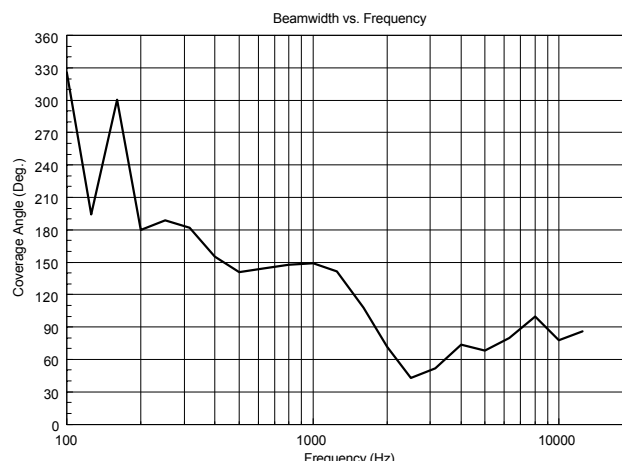
Loudspeaker	8" woofer with coaxial 1" tweeter
Power (on 8 Ohm load)	20 / 40 W (RMS / Music power)
Power	12 W - 6 W - 3 W - 1,5 W (100V)
Sensitivity	93 dB (1 W / 1 m)
Mx. SPL (6 W / 1 m)	109 dB(A) (1 m / POWER MAX)
Frequency Response	60 Hz - 20 kHz
Angle of coverage	150° / 60° / 70° @ 1 / 2 / 4 kHz (hor.)
Connector	6 pin terminal strip
Body colour	White RAL 9003
Main body material	Plastic
Grill material	Steel
Dimensions	Ø 247 mm x 88 mm
Flush-mounting hole	Ø 224 mm
Max ceiling thickness	30 mm
Net weight	1.8 kg
Operating temperature	-25° to +55°
Relative humidity	90% non condensing



# PL 8X

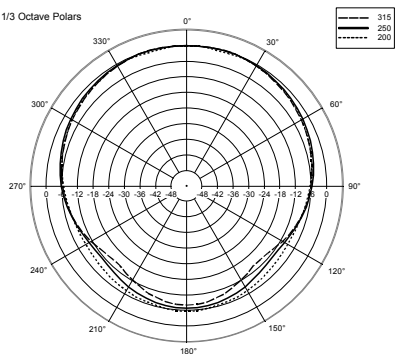


PL8X

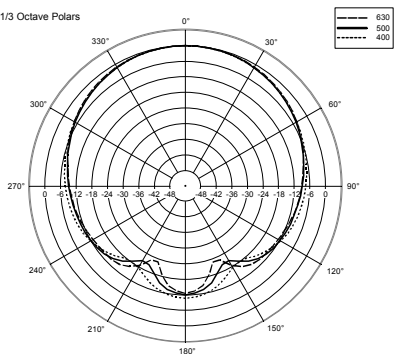


## HORIZONTAL 1/3 POLAR PLOT

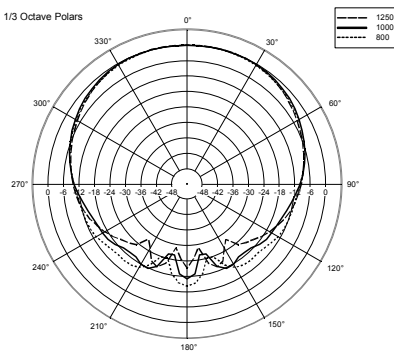
1/3 Octave Polars



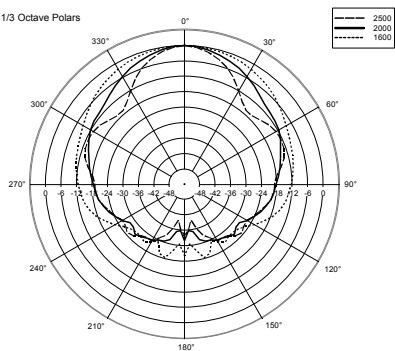
1/3 Octave Polars



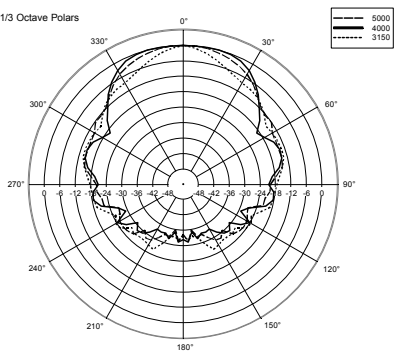
1/3 Octave Polars



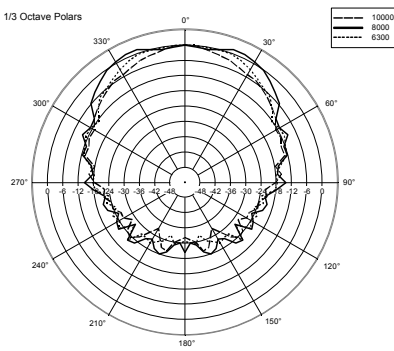
1/3 Octave Polars



1/3 Octave Polars



1/3 Octave Polars

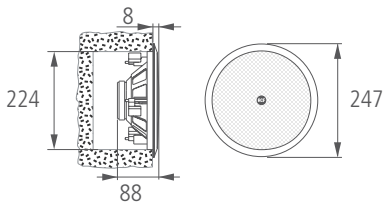


# PL 8X

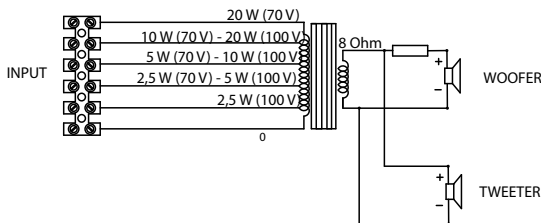
## PART NUMBERS

13133043

## 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 2.5 W – 5 W – 10 W – 20 W) so the correspondence impedance (among 4000  $\Omega$  – 2000  $\Omega$  - 1000  $\Omega$  – 500  $\Omega$ )

	YELLOW GIALLO	WHITE BIANCO	GREEN VERDE	BLUE BLU	BROWN MARRONE	BLACK NERO
70V	20W	10W	5W	2.5W	/	COM
100V	/	20W	10W	5W	2.5W	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 90 mm depth is required.

The PL 8X is intended for indoor installations only.