

# PL 82EN

## TWO-WAY CEILING SPEAKER FIRE DOME

### DESCRIPTION

PL 82EN is a two-way ceiling speaker featuring a flameproof steel back can, designed for recess installation into ceilings or panels. It is especially suitable for broadcasting alarm messages thanks to the highly intelligible sound reproduction and its resistance to high temperatures reached during fires. The terminal connection blocks, for input and output flameproof cables, are made of ceramic material. A thermal fuse protects the integrity of the line in case of heat affecting the speaker. Ground screw available (if needed). Cables inside speaker made using flameproof leads.



### FEATURES

- 8" coaxial woofer with 0.75" dome tweeter.
- Power selectable (100 V): 20 W – 10 W – 5 W.
- 94 dB sensitivity.
- Colour white RAL 9016.
- Steel frame, grille and back can.
- In/out ceramic terminal block.
- Thermal fuse protection.

## TECHNICAL SPECIFICATIONS

<b>Acoustical specifications</b>	Frequency Response (-10dB):	130 Hz ÷ 20000 Hz
	Max SPL @ 1m:	106 dB
	Max SPL @ 4m:	94 dB
	Coverage angle:	160°
	System Sensitivity:	94 dB
	System Sensitivity 1W @ 4m:	82 dB
<b>Power section</b>	Amplification:	Full Range
	Power Handling:	20 W
	Peak Power Handling:	80 W PEAK
	Protections:	Thermal fuse
	Recommended Amplifiers:	DXT 3000, DXT 4000, DXT 7000
<b>Transducers</b>	Dome Tweeter:	0.75"
	Woofers:	Coaxial 8"
<b>Input/Output section</b>	Input connectors:	Ceramic screw terminals
	Output connectors:	Ceramic screw terminals
	Constant Voltage Transformer:	100 V
	Power selection 1:	20 W - 500 ohm
	Power selection 2:	10 W - 1000 ohm
	Power selection 3:	5 W - 2000 ohm
<b>Standard compliance</b>	Safety agency:	CE compliant
	EN54-24 certified:	Yes
	CPR number:	0068-CPR-051/2017
<b>Physical specifications</b>	Hardware:	Steel back cover
	Color:	White - RAL 9016
<b>Size</b>	Depth:	152 mm / 5.98 inches
	Recessed Depth:	125 mm / 4.92 inches
	Diameter:	272 mm / 10.71 inches
	Cut out diameter:	240 mm / 9.45 inches
	Weight:	3.42 kg / 7.54 lbs
<b>Shipping information</b>	Package Height:	180 mm / 7.09 inches
	Package Width:	300 mm / 11.81 inches
	Package Depth:	300 mm / 11.81 inches
	Package Weight:	3.42 kg / 7.54 lbs



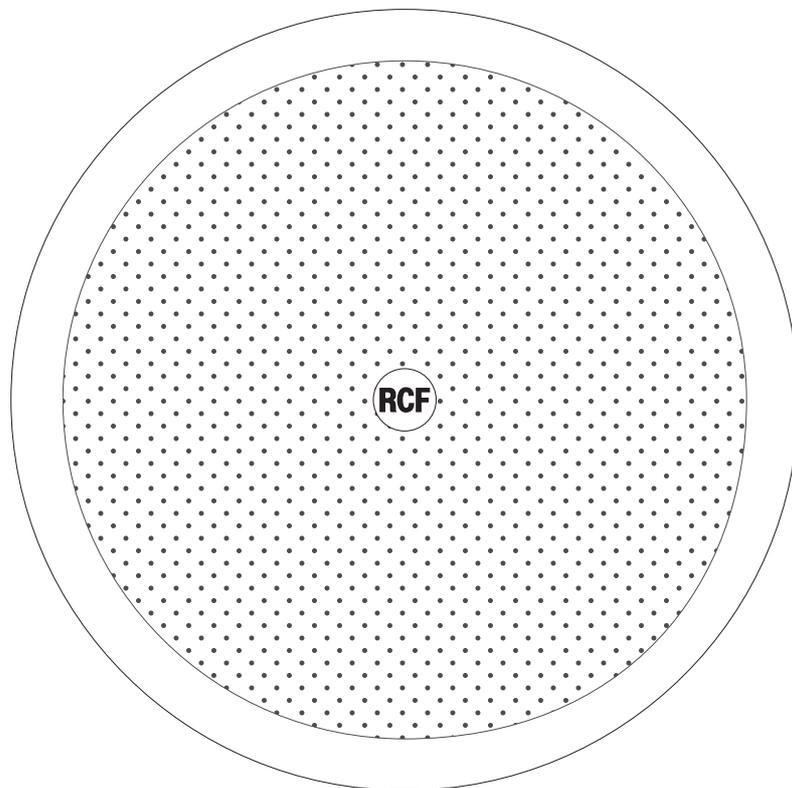
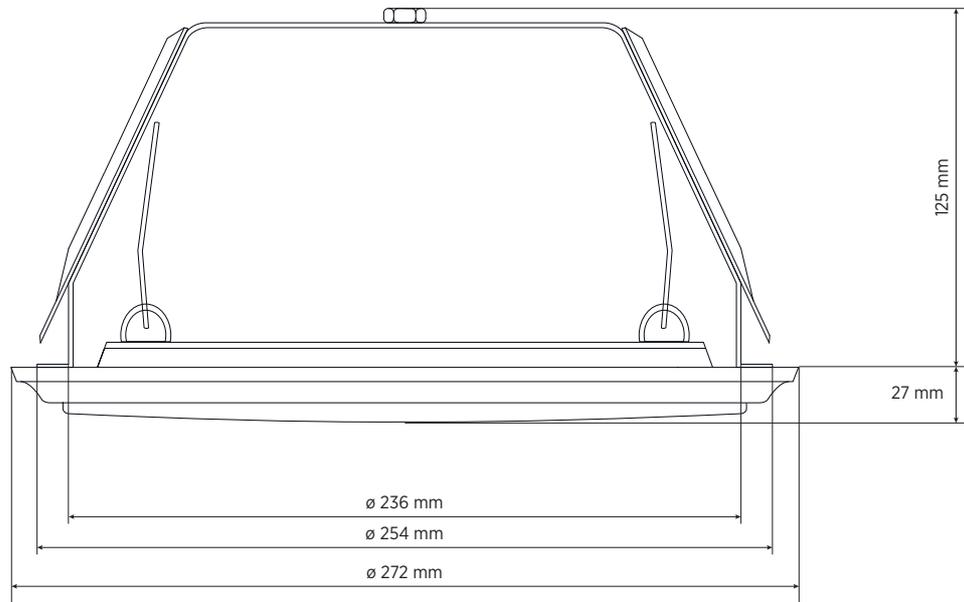
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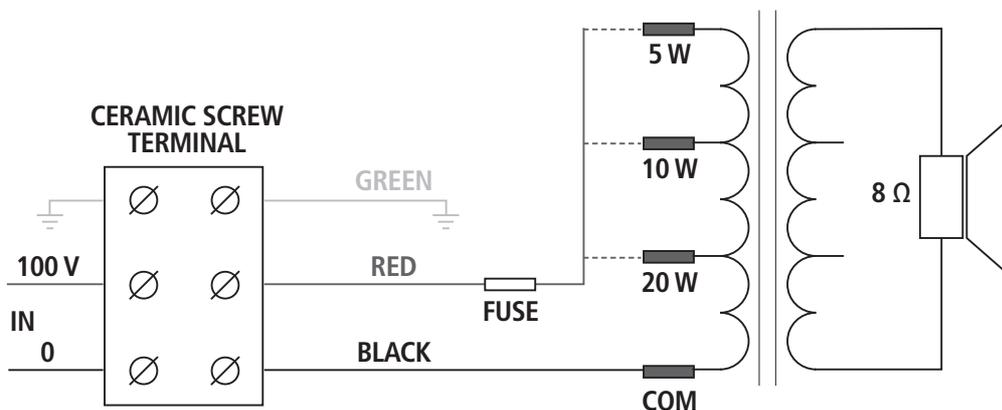
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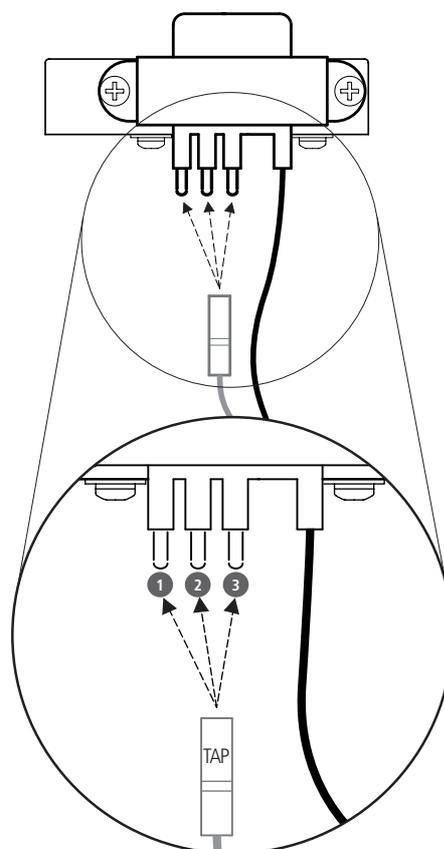
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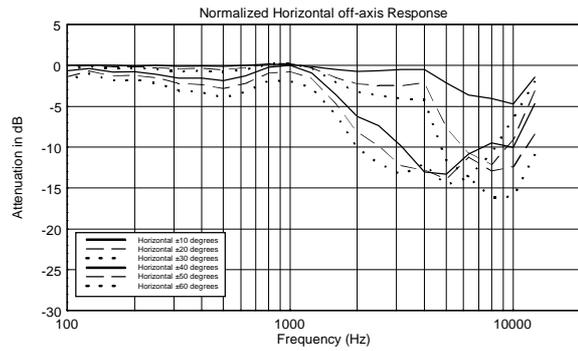
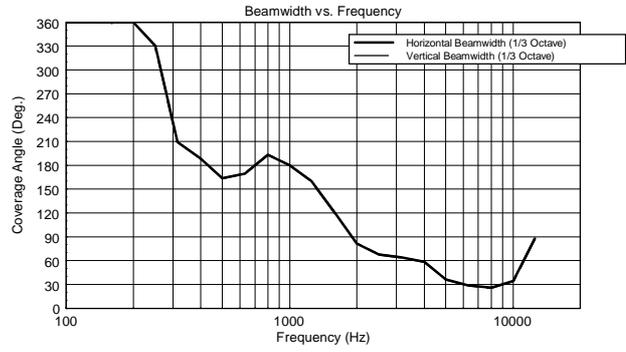
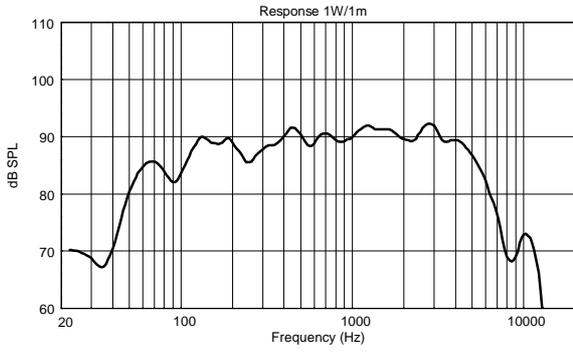


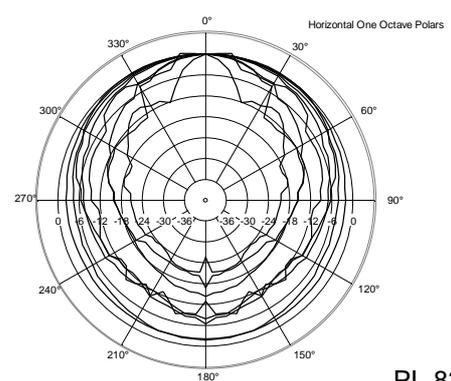
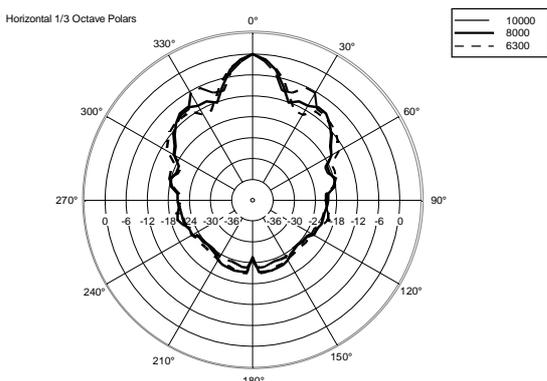
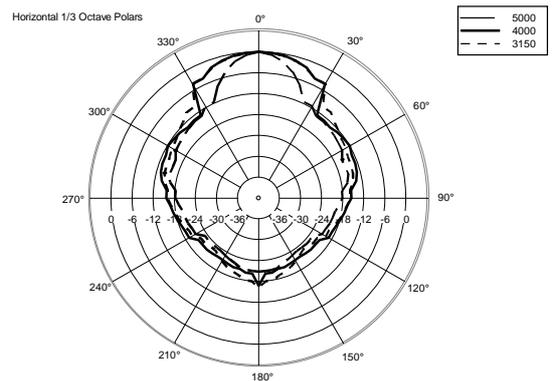
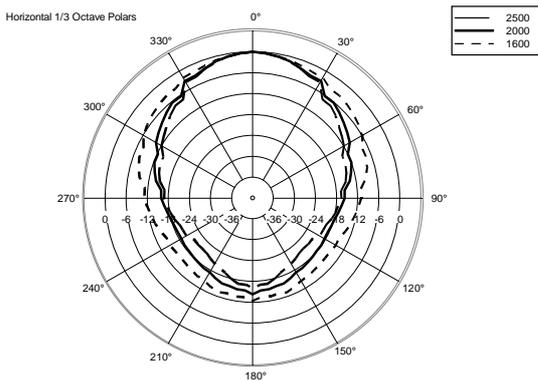
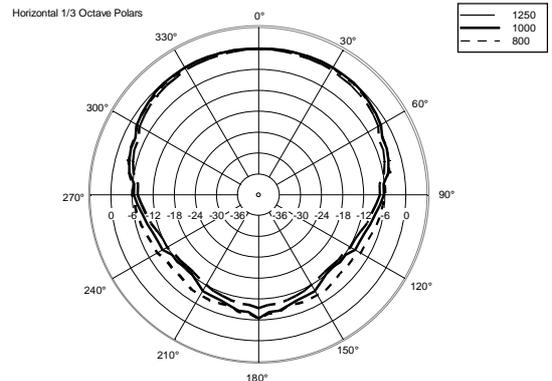
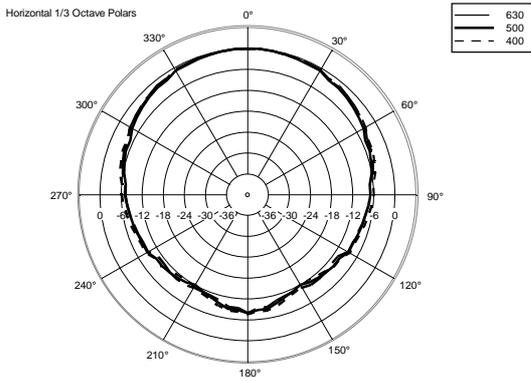
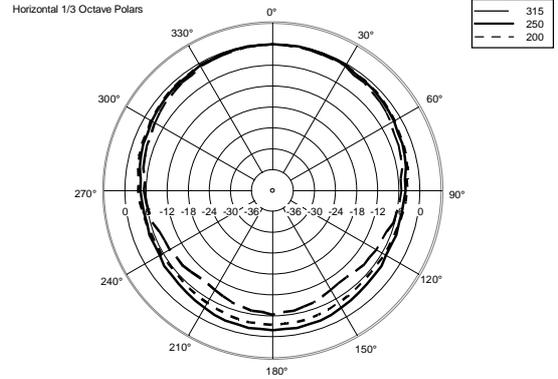
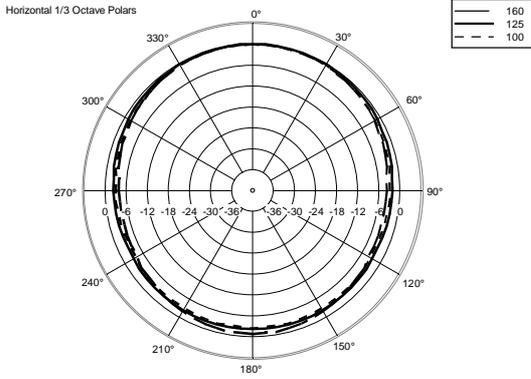
**SCHEMATICS**



TAP (pins)	POWER (100 V)	POWER (70 V)
1	5 W	2.5 W
2	10 W	5 W
3	20 W	10 W









**ACCESSORIES**



## **A&E SPECIFICATIONS**

The product shall be a two-way ceiling speaker having a flameproof steel backcan, designed for recess installation into ceilings or panels and especially suitable for broadcasting background music into commercial spaces, but also alarm messages thanks to the highly intelligible voice reproduction and the EN 54-24 certification.

It shall feature a metal case with steel grille.

The terminal connection blocks, for input and output flameproof cables, shall be made of ceramic material. A thermal fuse shall protect the line integrity in case of heat affecting the speaker.

## **NOTES**

NO CAUTION is NECESSARY in case of ALERTED PERSON for AUDIO voltages up to 120V, when warning symbols are present near the connection terminals. In the case of AUDIO voltages up to 71V, it is not even necessary to put warning symbols.

No need of linking to earth metal parts of speakers equipped with transformers and connected to 70.7 V / 100 V outputs of power amplifiers that do not have any reference to earth (ref. EN 62368-1 item 4.3.2.2 ), unless specific local requirements.