RCF

PL 70EN

CEILING SPEAKER WITH FIRE DOME

DESCRIPTION

PL 70EN is a 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

- 6" fullrange transducer.
- Power selectable (100 V): 6 W – 3 W – 1.5 W – 0.75 W.
- 93 dB sensitivity.
- Colour white RAL 9003.
- Steel frame, grille and back can.
- In/out ceramic terminal block.
- Thermal fuse protection.

TECHNICAL SPECIFICATIONS

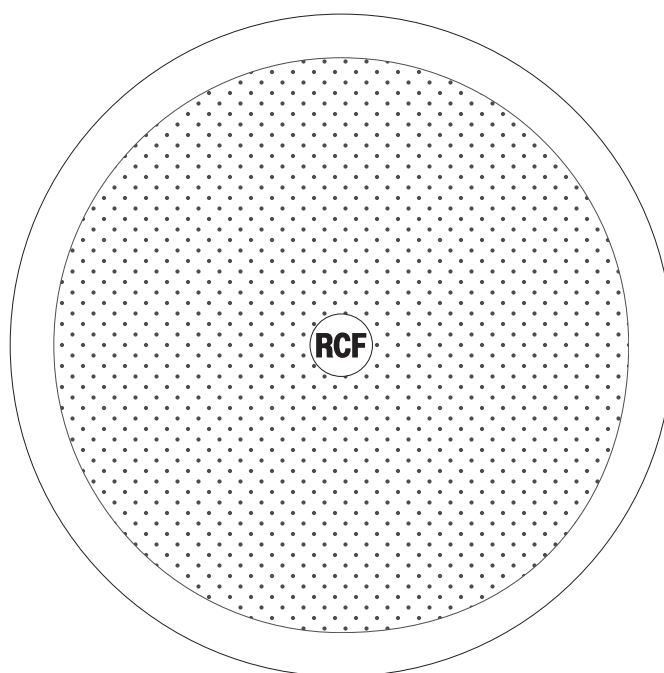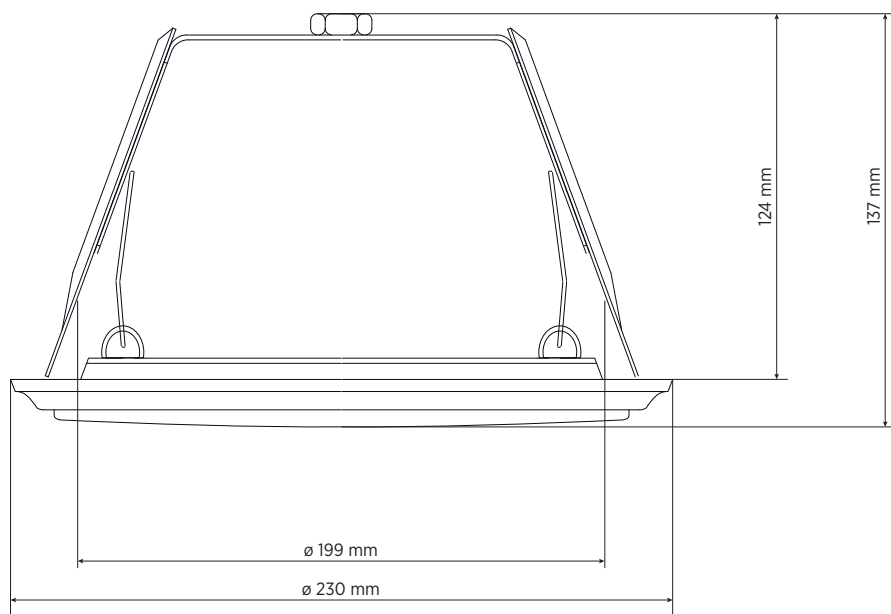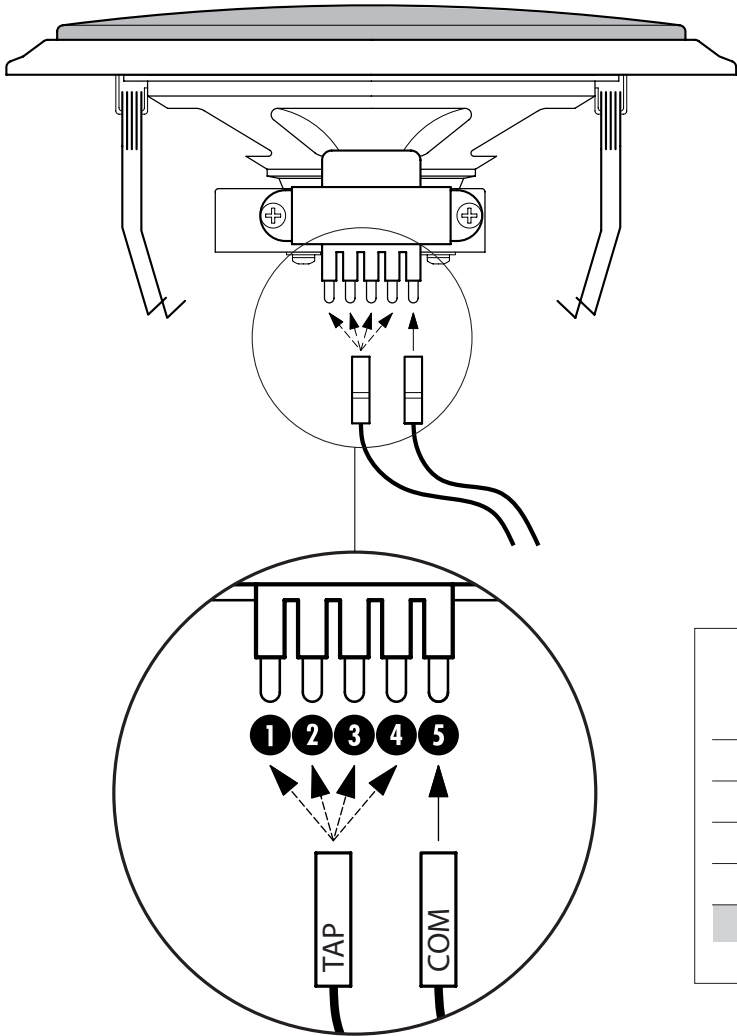| **Acoustical specifications**	Frequency Response (-10dB):	230 Hz ÷ 20000 Hz
	Max SPL @ 1m:	99 dB
	Max SPL @ 4m:	87 dB
	Coverage angle:	131°
	System Sensitivity:	93 dB
	System Sensitivity 1W @ 4m:	81 dB
Power section	Amplification:	Full Range
	Nominal Impedance:	8 ohm
	Power Handling:	6 W
	Peak Power Handling:	24 W PEAK
	Protections:	Thermal fuse
	Recommended Amplifiers:	DXT 3000, DXT 4000, DXT 7000
Transducers	Fullrange:	6.0″
Input/Output section	Input connectors:	Ceramic screw terminals
	Output connectors:	Ceramic screw terminals
	Constant Voltage Transformer:	100 V
	Power selection 1:	6 W - 1667 ohm
	Power selection 2:	3 W - 3333 ohm
	Power selection 3:	1.5 W - 6667 ohm
	Power selection 4:	0.75 W - 13333 ohm
Standard compliance	Safety agency:	CE compliant
	EN54-24 certified:	Yes
	CPR number:	1488-CPR-0487/W
Physical specifications	Hardware:	Steel back cover
	Color:	White - RAL 9003
Size	Height:	137 mm / 5.39 inches
	Recessed Depth:	124 mm / 4.88 inches
	Diameter:	230 mm / 9.06 inches
	Cut out diameter:	199 mm / 7.83 inches
	Weight:	2.03 kg / 4.48 lbs
Shipping information	Package Height:	165 mm / 6.5 inches
	Package Width:	260 mm / 10.24 inches
	Package Depth:	265 mm / 10.43 inches
	Package Weight:	2.03 kg / 4.48 lbs

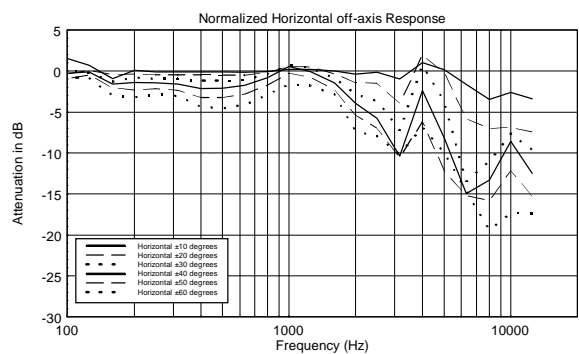**PART NUMBER**

- **13133065**

  PL 70EN

  EAN 8024530007591

DRAWINGS

ø 199 mm

ø 230 mm

124 mm

137 mm
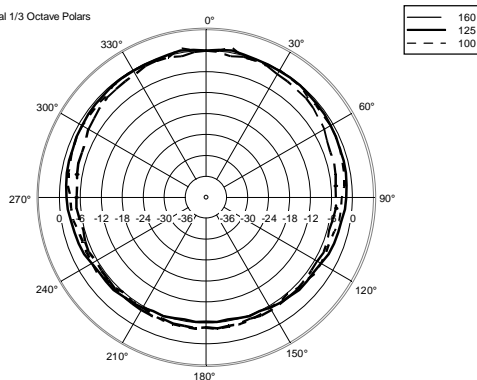
SCHEMATICS
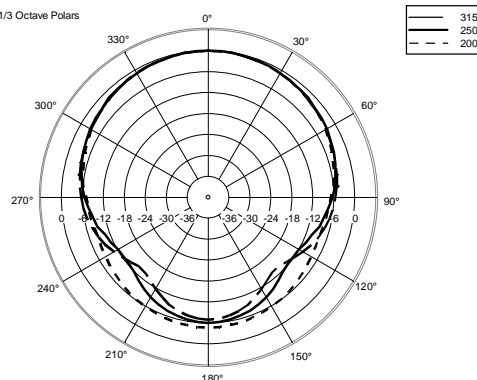

TAP	POWER (100 V)	POWER (70 V)
1	0.75 W	0.375 W
2	1.5 W	0.75 W
3	3 W	1.5 W
4	6 W	3 W
5	COM	
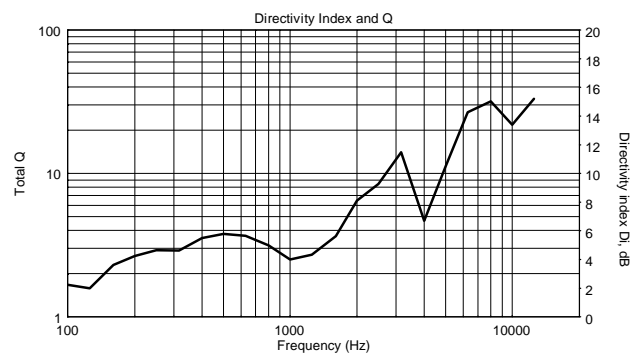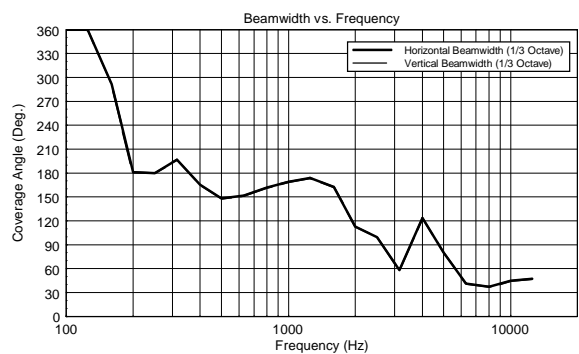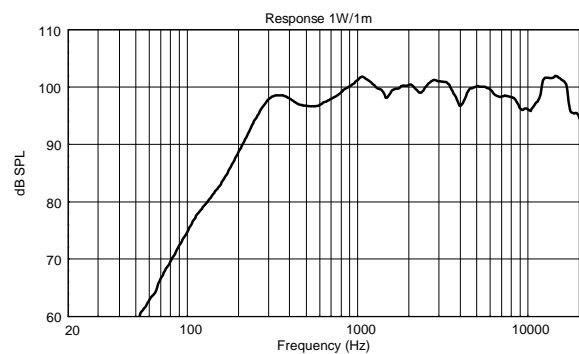
Response 1W/1m

Beamwidth vs. Frequency

- Horizontal Beamwidth (1/3 Octave)
- Vertical Beamwidth (1/3 Octave)

Directivity Index and Q

Normalized Horizontal off-axis Response

- Horizontal ±10 degrees
- Horizontal ±20 degrees
- Horizontal ±30 degrees
- Horizontal ±40 degrees
- Horizontal ±50 degrees
- Horizontal ±60 degrees

Horizontal 1/3 Octave Polars

	160
	125
	100

Horizontal 1/3 Octave Polars

	315
	250
	200

Horizontal 1/3 Octave Polars

	630
	500
	400

Horizontal 1/3 Octave Polars

	1250
	1000
	800

Horizontal 1/3 Octave Polars

	2500
	2000
	1600

Horizontal 1/3 Octave Polars

	5000
	4000
	3150

Horizontal 1/3 Octave Polars

	10000
	8000
	6300
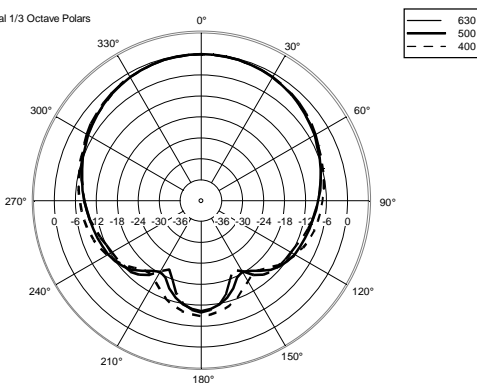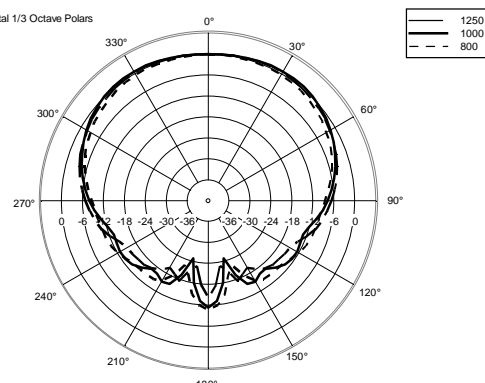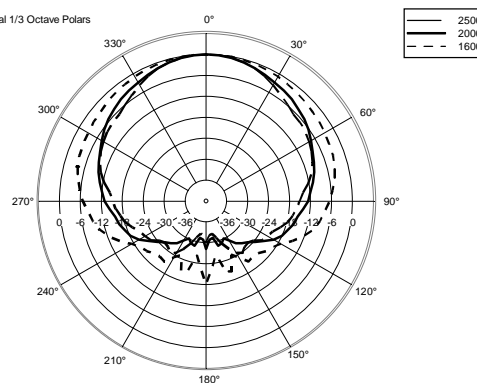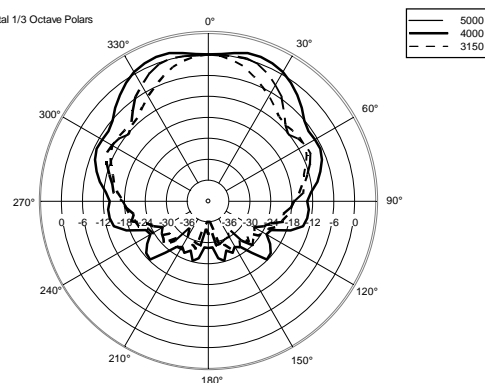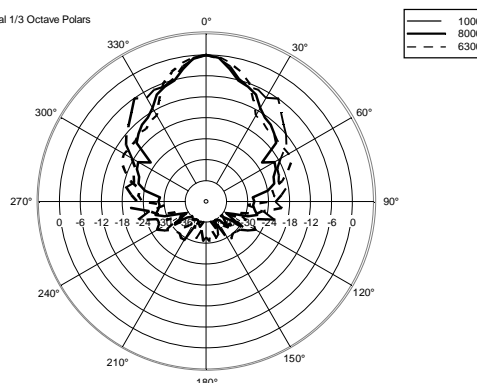
Horizontal One Octave Polars

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Vertical 1/3 Octave Polars

	160
	125
	100

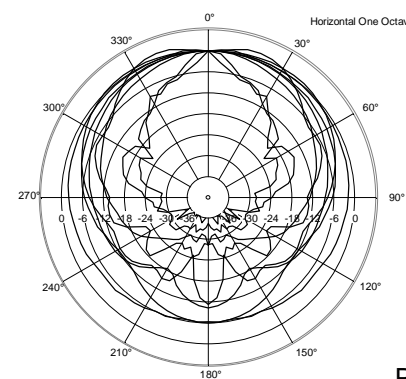Vertical 1/3 Octave Polars

	315
	250
	200

Vertical 1/3 Octave Polars

	630
	500
	400

Vertical 1/3 Octave Polars

	1250
	1000
	800

Vertical 1/3 Octave Polars

	2500
	2000
	1600

Vertical 1/3 Octave Polars

	5000
	4000
	3150

Vertical 1/3 Octave Polars

	10000
	8000
	6300

Vertical One Octave Polars

PL 70EN
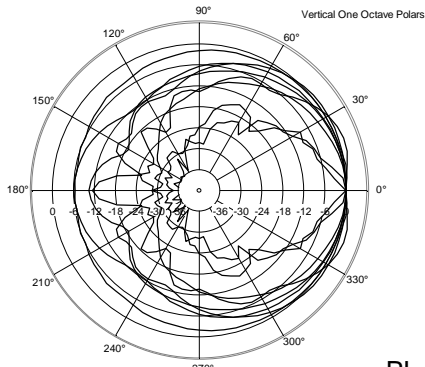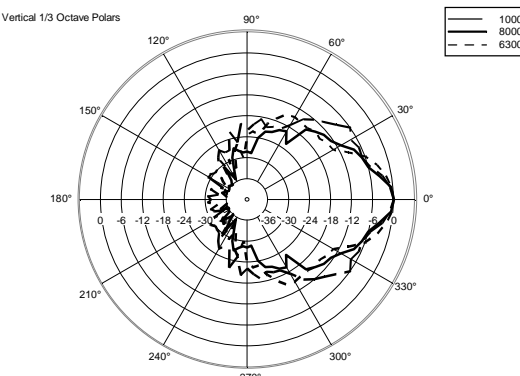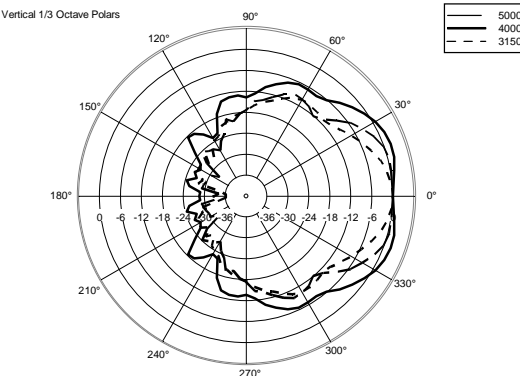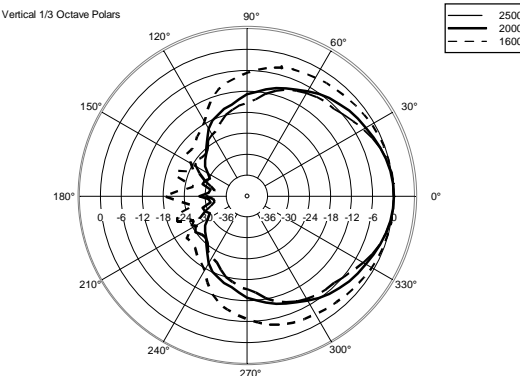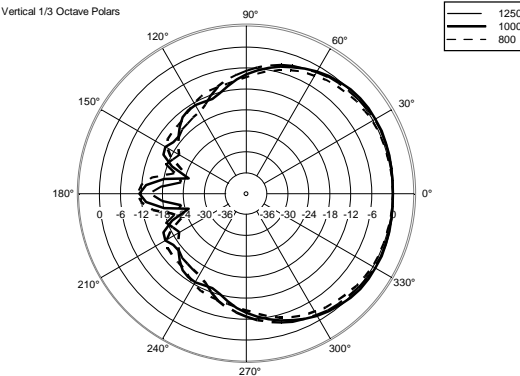
ACCESSORIES

A&E SPECIFICATIONS

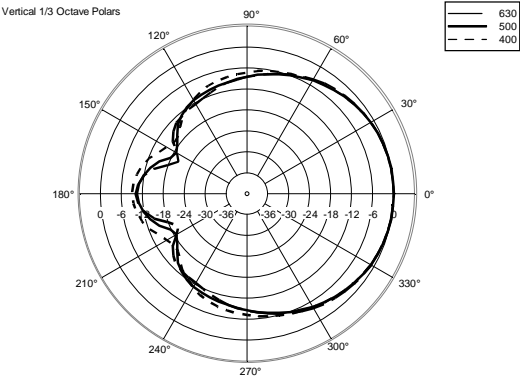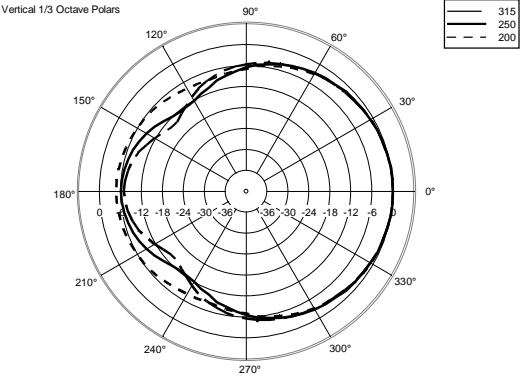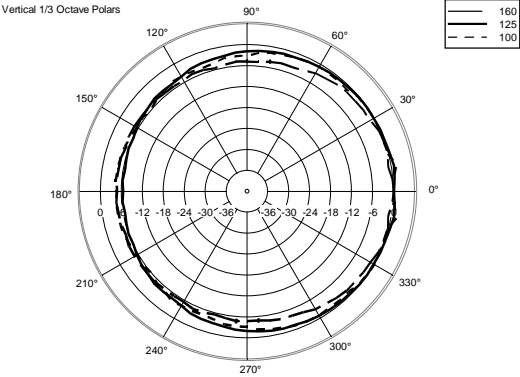The product shall be a ceiling speaker having a flameproof steel backcan, designed for recess installation into ceilings or panels and especially suitable for broadcasting background music into commercial spaces, but also alarm messages thanks to the highly intelligible voice reproduction and the EN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