

# SC-106 EN

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## CEILING SPEAKER

**RCS**<sup>®</sup>  
AUDIO-SYSTEMS



**OPERATING INSTRUCTIONS / BEDIENUNGSANLEITUNG**

- ENGLISH  
- DEUTSCH

## DESCRIPTION

The speakers have been developed according to the latest knowledge in plastics technology. The corpus of high-quality impact-and scratch-resistant plastic ensures best boom and swing release.

The design of the „softline“-corpus combined with a highly acoustically transparent grille cover is understated and modern. This is evaluated by architects particularly positive.

This cabinet speaker is equipped with two loudspeakers as well as with two transformers. This cabinet speaker enables space saving A/B division and wiring of the required alarming loudspeakers through IEC 60849.

Another advantage regarding the usual A/B wiring (2 built-in speakers) is the very low gauge level regarding the according range, because in case of a line failure no under served range will occur. Of course, this has a positive impact on speaking comprehensiveness and therefore on the efficiency and safety of alarming signals.

## BESCHREIBUNG

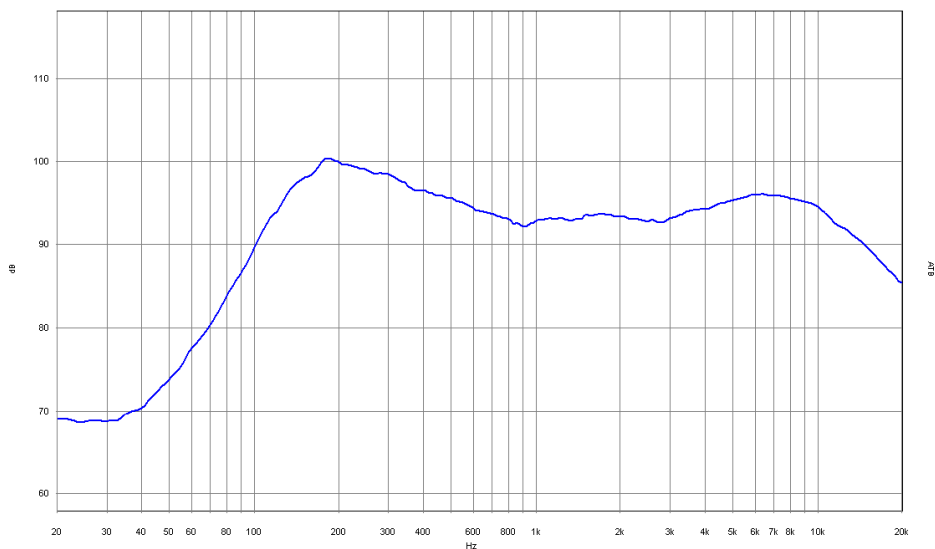
Die RCS-Gehäuselautsprecher sind nach den modernsten Erkenntnissen der Kunststofftechnik entwickelt worden. Der hochwertige schlag- und kratzeste Kunststoff des Korpus sorgt für beste Dröhn- und Schwingfreiheit.

Das Design des „softline“-Korpus, kombiniert mit einer hochschalldurchlässigen Lochblechabdeckung, ist dezent und modern und wird von Architekten besonders positiv beurteilt.

Dieser Gehäuselautsprecher ist sowohl mit zwei Lautsprechern wie auch mit zwei Übertragern bestückt und erlaubt damit auf platzsparende und elegante Weise eine A/B Aufteilung und Verkabelung der geforderten Alarmierungs-Lautsprecher nach DIN EN 60849.

Ein weiterer Vorteil gegenüber der üblichen A/B Verkabelung (2 Einbaulautsprecher) ist der geringere Pegelverlust in dem entsprechenden Bereich, da bei Ausfall einer Linie kein unterversorger Bereich entsteht. Dies wirkt sich natürlich auch positiv auf die Sprachverständlichkeit und damit die Wirksamkeit und Sicherheit von Alarmierungsanlagen aus.

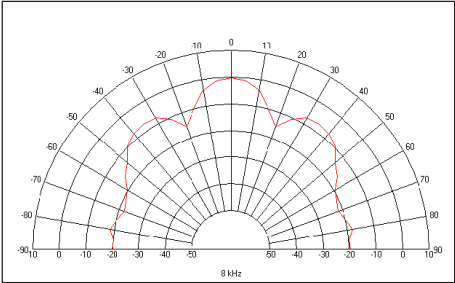
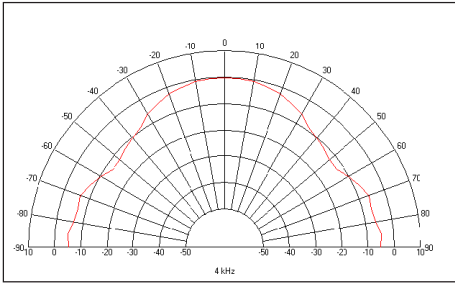
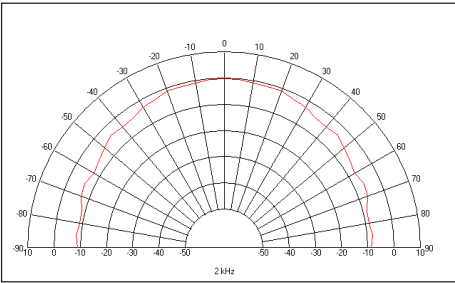
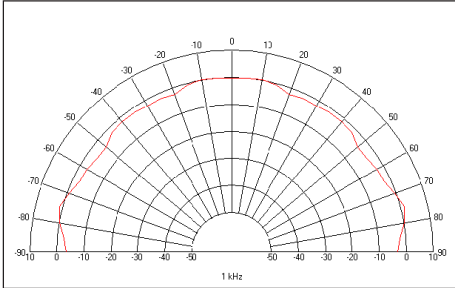
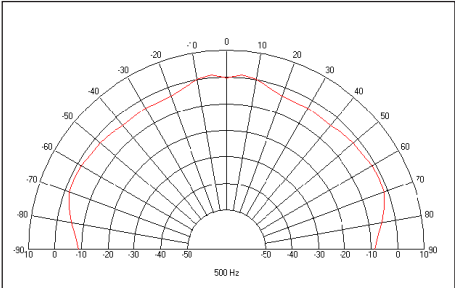
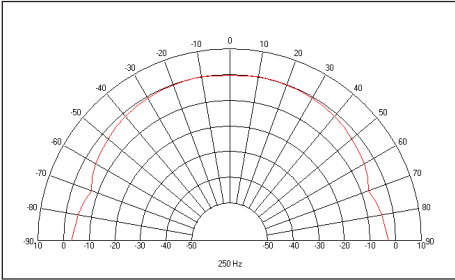
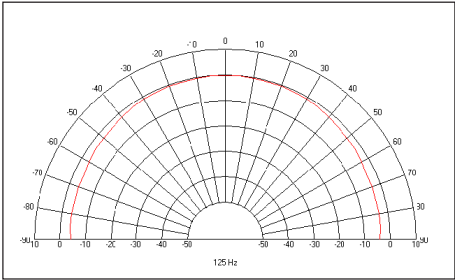
## FREQUENCY RESPONSE



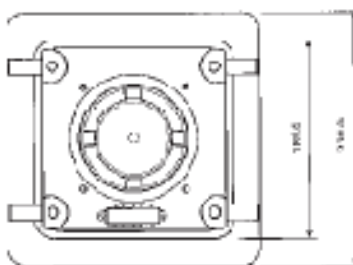
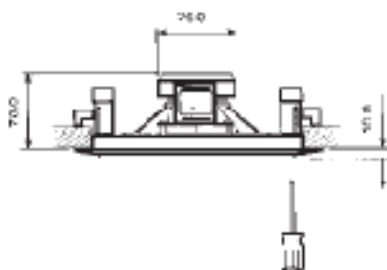
## FREQUENZBEREICH

Polar Response

| Polar Plots [Hz]                       | 125  | 250  | 500  | 1000 | 2000 | 4000 | 8000 |
|----------------------------------------|------|------|------|------|------|------|------|
| Polar response horizontal (red) (-6dB) | 180° | 180° | 160° | 180° | 100° | 60°  | 20°  |



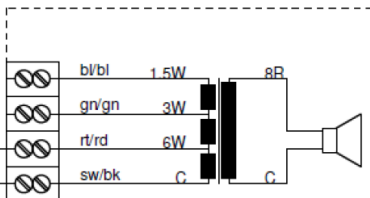
| Technical Data                            | SC-106 EN                                                        |
|-------------------------------------------|------------------------------------------------------------------|
| Input                                     | 100 V                                                            |
| Nominal power                             | 2x 6W, 3W, 1,5W                                                  |
| SPLP max 1 m                              | 111,2 dB                                                         |
| SPL max 1W/1m                             | 100,4 dB @ 182 Hz                                                |
| Sensitivity 1W/1m                         | 98,9 dB spl                                                      |
| Nominal impedance                         | 1.6k $\Omega$ @ 6W<br>3.3k $\Omega$ @ 3W<br>6.6k $\Omega$ @ 1,5W |
| Angle of radiation (-6dB) @ 0,5/1/2/4 kHz | 160°/180°/100°/60°                                               |
| Mechanical dimensions                     | 178 x178 mm                                                      |
| Weight                                    | kg                                                               |
| Frequency range (-3dB)                    | 96,6 - 15596,6 Hz                                                |
| Material                                  |                                                                  |
| Mounting hole                             | $\varnothing$ mm                                                 |
| Color                                     |                                                                  |



## CONNECTION DIAGRAMS

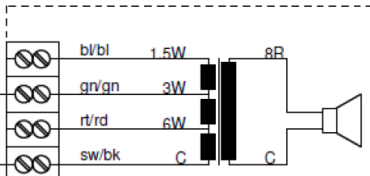
### Volle Leistung Full power

100V  
0V **100V Linie / line**



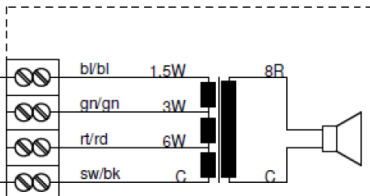
### Halbe Leistung Half power

100V  
0V **100V Linie / line**



### Viertel Leistung Quad power

100V  
0V **100V Linie / line**



RC-512 EN / Loudspeaker for voice alarm systems  
RCS Audio-Systems GmbH, Markfeld 5, 83043 Bad Aibling  
11 / System 1 / 1488, ITB Building Research Institute, 00-611 Warszawa, ul Filtrowa 1  
1488-CPD-0180/W / EN-54-24:2008 / Typ A

Charge No.:



DECLARED PERFORMANCE

LEISTUNGSERKLÄRUNG

| ESSENTIAL CHARACTERISTICS                                  | CHAPTER OF STANDARD      | PERFORMANCE | HARMONISED STANDARD |
|------------------------------------------------------------|--------------------------|-------------|---------------------|
| Performance in case of fire!                               | 4.2, 5.2, 5.3, 5.4, 5.5  | fulfilled   | EN 54-24:2008       |
| Operation reliability                                      | 4.3, 4.4, 4.5, 5.6, 5.18 | fulfilled   | EN 54-24:2008       |
| Durability of operation<br>Temperature resistance          | 5.7, 5.8, 5.9            | fulfilled   | EN 54-24:2008       |
| Durability of operation<br>Humidity resistance             | 5.10, 5.11, 5.12         | fulfilled   | EN 54-24:2008       |
| Durability of operation<br>Corrosion resistance            | 5.13                     | fulfilled   | EN 54-24:2008       |
| Durability of operation<br>Shock- and vibration resistance | 5.14, 5.15, 5.16, 5.17   | fulfilled   | EN 54-24:2008       |

The performance of the product identified in points 1 and 2 is in conformity with the declared performance in point 9. This declaration of performance is issued under the sole responsibility of the manufacturer identified in point 4.

|                                                                                                        |       |
|--------------------------------------------------------------------------------------------------------|-------|
| Approved by (seal, signature):                                                                         | Date: |
| Managing Director:  |       |

RCS02.06.2014

