This ABS cabinet loudspeaker 6 W is suitable for speech and music reproduction and is applicable for use in voice alarm systems. The ABS rectangular cabinet is made from ABS with a metal grille front and provided with a volume control to adjust the requested volume locally, and provided with a built-in volume override relay. The built-in override relay allows emergency calls to be broadcasted at a preset level, independent of the local volume setting.

### Quality assurance

All Bosch loudspeakers are designed to withstand operating at their rated power for 100 hours in accordance with IEC 60268-5 Power Handling Capacity (PHC) standards. Bosch has also developed the Simulated Acoustical Feedback Exposure (SAFE) test to demonstrate that they can withstand two times their rated power for short durations. This ensures improved reliability under extreme conditions, leading to higher customer satisfaction, longer operating life, and lessens the chance of failure or performance deterioration.

### Safety

- According to EN 60065
- According to UL 94 V 0

### Region

<table>
<thead>
<tr>
<th>Region</th>
<th>Regulatory compliance/quality marks</th>
</tr>
</thead>
<tbody>
<tr>
<td>Europe</td>
<td>CE DECL EC LB7-UC06VR</td>
</tr>
</tbody>
</table>

### Installation/configuration notes

The rectangular ABS cabinet has a removable metal front grille. Easy to install, hidden wall mounting by using two screws supplied with the product. Two knock-out holes at the top- and bottom of the cabinet allow for easy entry of cable or conduct. Two rubber grommets in matching color of the cabinet are delivered as standard. The loudspeaker is provided with a four pole ABS screw terminal block for the 70 V or 100 V connection and the 24 VDC for powering the built-in override relay. The transformer allows selection of nominal full-power, half-power, quarter power or eight-power.
radiation (in 3 dB steps) by connecting the 70 V or 100 V line to the appropriate primary tap on the matching transformer. After wiring and mounting the cabinet to the wall, the metal front grille can be pushed back on the cabinet. The cabinet has provisions for internally mounting the optional line/loudspeaker supervision board.

**Dimensions in mm (in)**

| LB7-UC06VR |

| Circuit diagram |

| Frequency response |

| Polar diagrams |

### Octave band sensitivity*  
<table>
<thead>
<tr>
<th>Octave band sensitivity*</th>
<th>Octave SPL 1W/1m</th>
<th>Total octave SPL 1W/1m</th>
<th>Total octave SPL Pmax/1m</th>
</tr>
</thead>
<tbody>
<tr>
<td>125 Hz</td>
<td>79.4</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>250 Hz</td>
<td>89.6</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>500 Hz</td>
<td>87.9</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>1000 Hz</td>
<td>93.5</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>2000 Hz</td>
<td>92.2</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>4000 Hz</td>
<td>92.1</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>8000 Hz</td>
<td>89.5</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>A-weighted</td>
<td>-</td>
<td>89.0</td>
<td>96.2</td>
</tr>
<tr>
<td>Lin-weighted</td>
<td>-</td>
<td>89.4</td>
<td>96.8</td>
</tr>
</tbody>
</table>

### Octave band opening angles

<table>
<thead>
<tr>
<th>Octave band opening angles</th>
<th>Horizontal</th>
<th>Vertical</th>
</tr>
</thead>
<tbody>
<tr>
<td>125 Hz</td>
<td>180</td>
<td>180</td>
</tr>
<tr>
<td>250 Hz</td>
<td>180</td>
<td>180</td>
</tr>
<tr>
<td>500 Hz</td>
<td>180</td>
<td>180</td>
</tr>
<tr>
<td>1000 Hz</td>
<td>180</td>
<td>85</td>
</tr>
<tr>
<td>2000 Hz</td>
<td>104</td>
<td>116</td>
</tr>
<tr>
<td>4000 Hz</td>
<td>84</td>
<td>92</td>
</tr>
<tr>
<td>8000 Hz</td>
<td>64</td>
<td>58</td>
</tr>
</tbody>
</table>

*Acoustical performance specified per octave  
* (all measurements are done with a pink noise signal; the values are in dB SPL)
### Parts included

<table>
<thead>
<tr>
<th>Quantity</th>
<th>Component</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Cabinet loudspeaker</td>
</tr>
<tr>
<td>1</td>
<td>Installation instruction</td>
</tr>
<tr>
<td>2</td>
<td>Mounting screws (4 x 38 mm)</td>
</tr>
<tr>
<td>2</td>
<td>Rubber grommets</td>
</tr>
</tbody>
</table>

### Technical specifications

#### Electrical*

<table>
<thead>
<tr>
<th></th>
<th>Rated power (PHC)</th>
<th>Transformer taps</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>6 W</td>
<td>70 V: 6 W, 3 W, 1.5 W, 0.75 W, 0.375 W</td>
</tr>
<tr>
<td></td>
<td></td>
<td>100 V: 6 W, 3 W, 1.5 W, 0.75 W</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th></th>
<th>Sound pressure level at 6 W/1 W (1 kHz, 1 m)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>102 / 94 dB</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th></th>
<th>Sound pressure level at 6 W/1 W (1 kHz, 4 m)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>90 / 82 dB</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th></th>
<th>Frequency response (-10 dB)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>160 Hz to 20 kHz</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th></th>
<th>Opening angle at 1 kHz / 4 kHz (-6 dB)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>180°/ 85° (horizontal) 180°/ 98° (vertical)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th></th>
<th>Rated voltage / Rated impedance</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>70 / 100 V</td>
</tr>
<tr>
<td></td>
<td>835 / 1667 Ohm @ 6 W</td>
</tr>
<tr>
<td></td>
<td>1667 / 3333 Ohm @ 3 W</td>
</tr>
<tr>
<td></td>
<td>3333 / 6667 Ohm @ 1.5 W</td>
</tr>
<tr>
<td></td>
<td>6667 / 13333 Ohm @ 0.75 W</td>
</tr>
<tr>
<td></td>
<td>13363 Ohm @ 0.375 W (70 V only)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th></th>
<th>Override relay</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Voltage</td>
</tr>
<tr>
<td></td>
<td>24 V DC</td>
</tr>
<tr>
<td></td>
<td>Current consumption</td>
</tr>
<tr>
<td></td>
<td>20 mA</td>
</tr>
<tr>
<td></td>
<td>Connector</td>
</tr>
<tr>
<td></td>
<td>2 x 2-pole ABS screw terminal block</td>
</tr>
<tr>
<td></td>
<td>Acceptable wire gauge</td>
</tr>
<tr>
<td></td>
<td>0.5 to 4 mm²</td>
</tr>
</tbody>
</table>

* Technical performance data acc. to IEC 60268-5

#### Mechanical

<table>
<thead>
<tr>
<th></th>
<th>Dimensions (H x W x D)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>146 x 234 x 70 / 82 mm</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th></th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1.15 kg</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th></th>
<th>Color</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>White (RAL 9003)</td>
</tr>
</tbody>
</table>

#### Environmental

<table>
<thead>
<tr>
<th></th>
<th>Operating temperature</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>-10°C to +55°C (14°F to +131°F)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th></th>
<th>Storage and transport temperature</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>-40 °C to +70 °C (40 °F to +158 °F)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th></th>
<th>Relative humidity</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>&lt; 95%</td>
</tr>
</tbody>
</table>

#### Ordering information

LB7-UC06VR ABS cabinet loudspeaker 6 W with VR
ABS cabinet loudspeaker 6 W
Order number LB7-UC06VR