The LP1-BC10E-1 is a powerful 10 W bidirectional sound projector intended for high quality speech and music reproduction in indoor and outdoor applications. The two loudspeakers facing in opposite directions are ideally suited to applications such as tunnels, long corridors and shopping arcades. The state-of-the-art design is matched to both modern and traditional style environments. The sound projector is suitable for use in voice alarm systems.

### Functions

**Superb sound quality**
The use of high-quality drivers has resulted in a very natural sound reproduction.

**Voice alarm loudspeaker**
Voice alarm loudspeakers are specifically designed for use in buildings where performance of systems for verbal communication announcements is governed by regulations. The LP1-BC10E-1 is designed for use in voice alarm systems. The sound projector is pre-wired for use with an optional line/loudspeaker supervision board externally mounted. The loudspeaker has built-in protection to secure that, in the event of a fire; damage to the loudspeaker does not result in failure of the circuit to which it is connected. In this way, system integrity is maintained; ensuring loudspeakers in other areas can still be used to inform people of the situation. The loudspeaker has a ceramic terminal block, thermal fuse and heat resistant, high-temperature wiring. The sound projector is made from high-impact self-extinguishing ABS according to class UL 94 V 0, finished in white.

### Certifications and approvals

**Quality assurance**
All Bosch loudspeakers are designed to withstand operating at their rated power for 100 continuous hours in accordance with IEC 268-5 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 lessons the chance of failure or performance
deterioration.

**Safety aspects**
In common with all Bosch products, care is taken to
meet high safety standards. This sound projector
complies with the relevant safety and installation
regulations of EN 60065. All ABS parts are self-
extinguishing (according to UL 94 V 0)

<table>
<thead>
<tr>
<th>Water and dust protection</th>
<th>according to IEC 60529, IP 65</th>
</tr>
</thead>
<tbody>
<tr>
<td>Emergency</td>
<td>according to EN 54-24 / BS 5839-8 / EN 60849</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Region</th>
<th>Certification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Europe</td>
<td>CE</td>
</tr>
<tr>
<td></td>
<td>CE DOP</td>
</tr>
<tr>
<td></td>
<td>CE DOC (IP)</td>
</tr>
<tr>
<td>CPD</td>
<td></td>
</tr>
<tr>
<td>Poland</td>
<td>CNBOP</td>
</tr>
</tbody>
</table>

**Installation/configuration notes**

**Mounting**
Ease of installation is realized in the way of mounting:
first the mounting plate is fixed to the wall or ceiling,
secondly a safety cord is attached to the mounting
plate, allowing the installer temporarily hang the
loudspeaker during installation. After making the
connections, the sound projector can be fixed to the
mounting plate by means of a fixing screw nut and the
horizontal direction can be fixed. A cover plate covers
screws and electrical wiring. The versatile mounting
bracket allows the sound projector to be horizontal
directed. The cover plate is provided with two cable –
or 16 mm (0.63 inch) conduit entries (covered as
standard supplied) in opposite position, suitable for
loop-through cabling.

**Power setting**
A ceramic terminal for electrical connection is
provided. The loudspeaker is standard connected to
full power. Half-power, quarter-power or eighth-power
can be selected by connecting the appropriate color
coded wire to the terminal block.

<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>75.4</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>
### Acoustical performance specified per octave * (all measurements are done with a pink noise signal; the values are in dBSPL).

<table>
<thead>
<tr>
<th>Frequency</th>
<th>A-weighted</th>
<th>Lin-weighted</th>
</tr>
</thead>
<tbody>
<tr>
<td>250 Hz</td>
<td>-</td>
<td>83.0</td>
</tr>
<tr>
<td>500 Hz</td>
<td>-</td>
<td>85.3</td>
</tr>
<tr>
<td>1000 Hz</td>
<td>-</td>
<td>89.2</td>
</tr>
<tr>
<td>2000 Hz</td>
<td>-</td>
<td>92.4</td>
</tr>
<tr>
<td>4000 Hz</td>
<td>-</td>
<td>93.5</td>
</tr>
<tr>
<td>8000 Hz</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

### Parts included

<table>
<thead>
<tr>
<th>Quantity</th>
<th>Component</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>LP1-BC10E-1 Sound Projector</td>
</tr>
</tbody>
</table>

### Technical specifications

#### Electrical*

- **Maximum power**: 15 W
- **Rated power**: 10 / 5 / 2.5 / 1.25 W
- **Sound pressure level at 10 W / 1 W (1kHz, 1 m)**: 90 dB / 80 dB (SPL)
- **Sound pressure level at 10 W / 1 W (1 kHz, 4 m)**: 85 dB / 76 dB (SPL)
- **Opening angle at 1 kHz / 4 kHz (-6 dB)**: 165° / 60°
- **Effective frequency range (-10 dB)**: 75 Hz to 20 kHz
- **Rated voltage**: 100 V
- **Rated impedance**: 10 W: 1000 Ohm, 5 W: 2000 Ohm

#### Mechanical

- **Dimensions (D x L)**: 185 x 297 mm (7.3 x 11.7 in)
- **Weight**: 3 kg (6.6 lb)
- **Color**: White (RAL 9010)
- **Material**: ABS

#### Environmental

- **Operating temperature**: -25 ºC to +55 ºC (-13 ºF to +131 ºF)
- **Storage and transport temperature**: -40 ºC to +70 ºC (-40 ºF to +158 ºF)
- **Relative humidity**: <95%

#### Note:
- The specification data is measured in an anechoic chamber, free field.
- The reference axis is perpendicular to the center point of the front grille.
- The reference plane is perpendicular to the center of the reference axis.
- The horizontal plane is perpendicular to the center of the reference plane.

### Ordering information

**Sound projector, 10W, bi-directional**

Sound projector 10 W, bidirectional, white ABS enclosure with metal grilles, water and dust protected IP65, EN54-24 certified, white RAL 9010.

Order number **LP1-BC10E-1**
Sound projector, 10W, bi-directional

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