Bosch introduces a full range of volume controls and program selectors to provide a complete public address solution.

**Functions**

**Operation**
Public address systems are often used for both announcements and background music distribution. Volume controls can be used to adjust the level locally. In addition to volume control, program selectors can also be installed to select five different programs locally. In the event of an (emergency) announcement, the built-in relay ensures that the message is broadcast at a preset level, independent of the local volume setting.

The volume controls come in three versions according to power rating: 12 W, 36 W, and 100 W. The total load of the loudspeakers connected to a volume control may not exceed the rated power.

Each of the three versions is also available in two versions. One is a power-saving, 4-wire volume override (/10 models), where the override relay is activated during an emergency call. The other is a failsafe, 4-wire volume override (/20 models), where the override relay is deactivated during an emergency call.

- 12 W, 36 W and 100 W versions
- Available in power-save or failsafe versions
- Built-in 24 VDC override relay
- Continuous rotating system
- Suitable for 3-wire and 4-wire systems

The design and color are unobtrusive in any interior. Ease of installation, operation and reliability is optimized in the design.

**Interconnections**
Screw connections

**Certifications and approvals**

<table>
<thead>
<tr>
<th>Safety</th>
<th>acc. to EN 60065</th>
</tr>
</thead>
<tbody>
<tr>
<td>Self-extinguishing</td>
<td>acc. to UL 94 V0</td>
</tr>
</tbody>
</table>

www.boschsecurity.com
Installation/configuration notes

LBC 1400/10 and LBC 1400/20 dimensions in mm

LBC 1410/10 and LBC 1410/20 dimensions in mm

LBC 1420/10 and LBC 1420/20 dimensions in mm

LBC 1430/10 dimensions in mm

LM1-SMB-MK dimensions in mm

LBC 1430/10 Program Selector
LM1-SMB-MK detail

LBC 1400/10 circuit diagram

LBC 1400/20 circuit diagram

LBC 1410/10 circuit diagram

LBC 1410/20 circuit diagram

LBC 1420/10 circuit diagram

LBC 1420/20 circuit diagram

3 | LBC 14x0/x0 MK Volume Controls and LBC 1430/10 Program Selector
Technical specifications

### Electrical

<table>
<thead>
<tr>
<th>LBC 1400/10 and /20</th>
<th></th>
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<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Rated power</td>
<td>12 W</td>
<td>Input voltage</td>
<td>100 V</td>
<td>Attenuation steps</td>
<td>5 x 3 dB + off</td>
</tr>
<tr>
<td>Frequency response</td>
<td>50 Hz to 20 kHz (-1 dB)</td>
<td>THD</td>
<td>&lt;0.5%</td>
<td>Current consumption</td>
<td>20 mA at 24 VDC</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>LBC 1410/10 and /20</th>
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</thead>
<tbody>
<tr>
<td>Rated power</td>
<td>36 W</td>
<td>Input voltage</td>
<td>100 V</td>
<td>Attenuation steps</td>
<td>8 x 3 dB + off</td>
</tr>
<tr>
<td>Frequency response</td>
<td>50 Hz to 20 kHz (-1 dB)</td>
<td>THD</td>
<td>&lt;0.5%</td>
<td>Current consumption</td>
<td>20 mA at 24 VDC</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>LBC 1420/10 and /20</th>
<th></th>
<th></th>
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<th></th>
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</tr>
</thead>
<tbody>
<tr>
<td>Rated power</td>
<td>100 W</td>
<td>Input voltage</td>
<td>100 V</td>
<td>Attenuation steps</td>
<td>10 x 2 dB + off</td>
</tr>
<tr>
<td>Frequency response</td>
<td>50 Hz to 20 kHz (-1 dB)</td>
<td>THD</td>
<td>&lt;0.5%</td>
<td>Current consumption</td>
<td>20 mA at 24 VDC</td>
</tr>
</tbody>
</table>

### LBC 1430/10

| Rated power                  | 100 W     | Input voltage | 100 V     | Number of programs | 5 programs + off |

### Mechanical

<table>
<thead>
<tr>
<th>LBC 1400/10 and /20</th>
<th>Dimensions (W x H x D)</th>
<th>87 x 87 x 45.6 mm</th>
<th>Weight</th>
<th>226 g</th>
<th>Color</th>
<th>White (RAL 9010)</th>
</tr>
</thead>
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<tr>
<th>LBC 1410/10 and /20</th>
<th>Dimensions (W x H x D)</th>
<th>87 x 87 x 45.6 mm</th>
<th>Weight</th>
<th>227 g</th>
<th>Color</th>
<th>White (RAL 9010)</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>LBC 1420/10 and /20</th>
<th>Dimensions (W x H x D)</th>
<th>87 x 147 x 61.5 mm</th>
<th>Weight</th>
<th>512 g (including surface mounting box)</th>
<th>Color</th>
<th>White (RAL 9010)</th>
</tr>
</thead>
</table>

### Environmental

| Operating temperature        | -10 ºC to +55 ºC (+14 ºF to +131 ºF) |
| Storage temperature          | -40 ºC to +70 ºC (-40 ºF to +158 ºF) |
| Relative humidity            | <95%                          |

### Ordering information

**LBC 1400/10 Volume Control**
Volume control 12 W, MK installation type, built-in 24 VDC override relay, power-save version, 5 attenuation steps of 3 dB and off, white RAL 9010. Order number **LBC1400/10**

**LBC 1400/20 Volume Control**
Volume control 12 W, MK installation type, built-in 24 VDC override relay, failsafe version, 5 attenuation steps of 3 dB and off, white RAL 9010. Order number **LBC1400/20**

**LM1-SMB-MK**
Dimensions (W x H x D) 87.3 x 87.3 x 50 mm
Weight 73 g
Color White (RAL 9010)

**LBC 1430/10**
Dimensions (W x H x D) 87 x 87 x 32.9 mm
Weight 125 g
Color White (RAL 9010)
LBC 1410/20 Volume Control
Volume control 36 W, MK installation type, built-in 24 VDC override relay, failsafe version, 8 attenuation steps of 3 dB and off, white RAL 9010.
Order number LBC1410/20

LBC 1420/10 Volume Control
Volume control 100 W, MKD/E2 installation type, built-in 24 VDC override relay, power-save version, 10 attenuation steps of 2 dB and off, white RAL 9010, supplied with surface mounting box.
Order number LBC1420/10

LBC 1420/20 Volume Control
Volume control 100 W, MKD/E2 installation type, built-in 24 VDC override relay, failsafe version, 10 attenuation steps of 2 dB and off, white RAL 9010, supplied with surface mounting box.
Order number LBC1420/20

LBC 1430/10 Program Selector
Program selector, MK installation type, 5 channel selection, white RAL 9010.
Order number LBC1430/10

Accessories
LM1-SMB-MK
Surface mounting box for volume controls LBC1400/10, LBC1400/20, LBC1410/10, LBC1410/20, and Program Selector LBC1430/10, white RAL 9010.
Order number LM1-SMB-MK