

# LBC 14xx/x0 U40 Volume Controls and LBC 1431/10 Program Selector

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**BOSCH**

Invented for life



- ▶ 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 and 4-wire systems

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.

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

The volume controls and program selectors can be combined with Gira standard 55 system switchers and accessories.

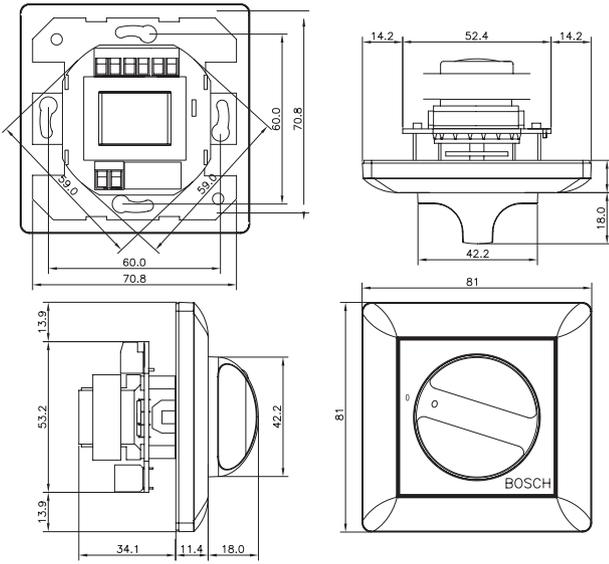
### Interconnections

Screw connections

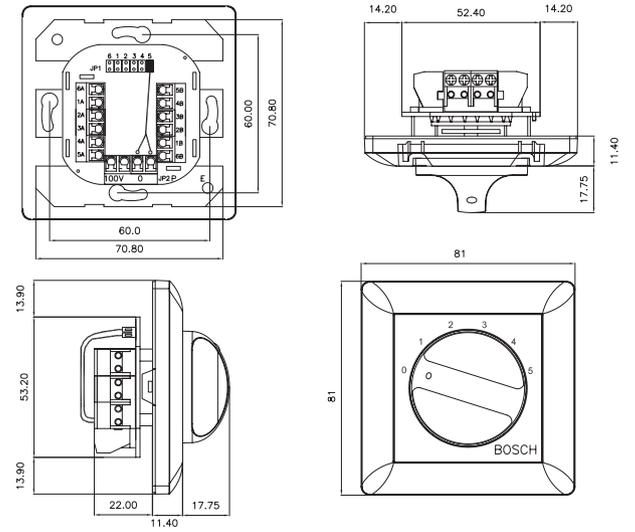
## Certifications and approvals

Safety	acc. to EN 60065
Self-extinguishing	acc. to UL 94 V0

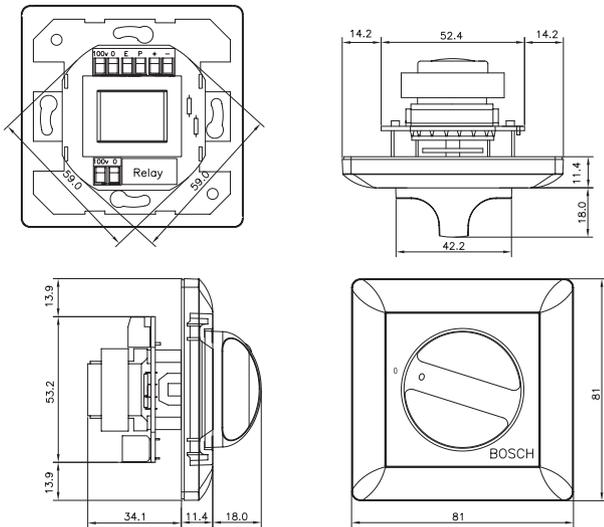
Installation/configuration notes



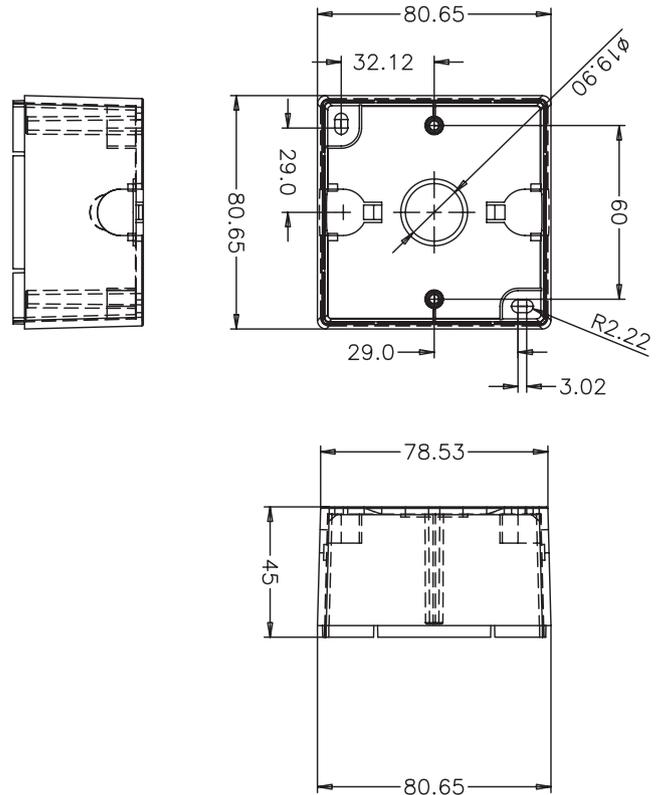
LBC 1401/10 and LBC 1401/20 dimensions in mm



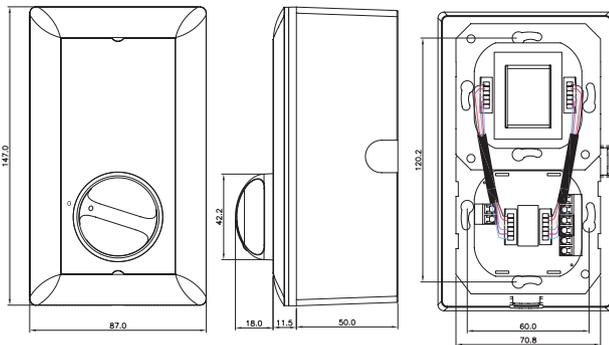
LBC 1431/10 dimensions in mm



LBC 1411/10 and LBC 1411/20 dimensions in mm



LM1-SMB-U40 dimensions in mm

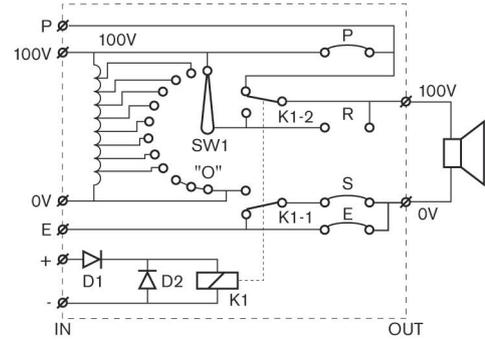


LBC 1420/10 and LBC 1420/20 dimensions in mm

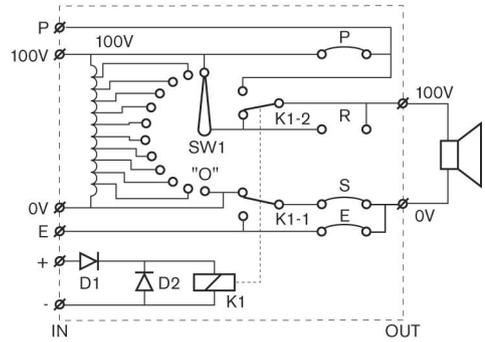


LM1-SMB-U40 detail

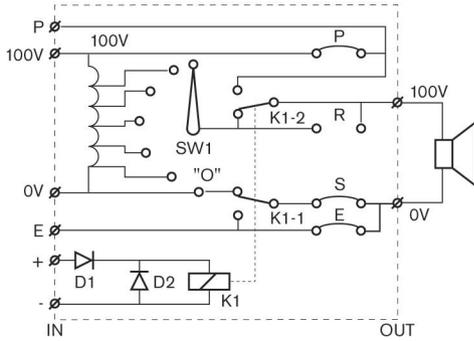
LBC 1411/10 circuit diagram



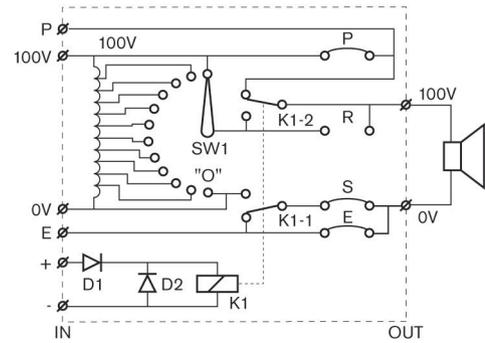
LBC 1411/20 circuit diagram



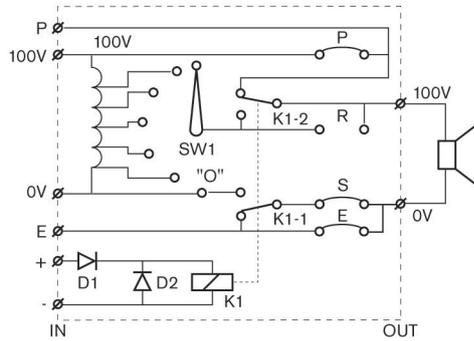
LBC 1401/10 circuit diagram



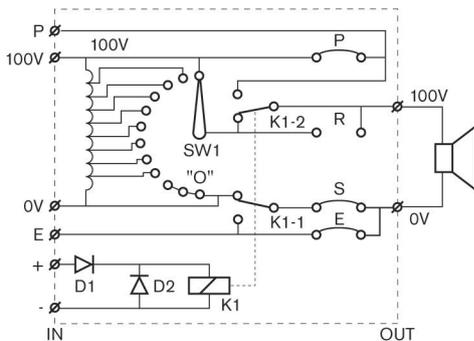
LBC 1420/10 circuit diagram

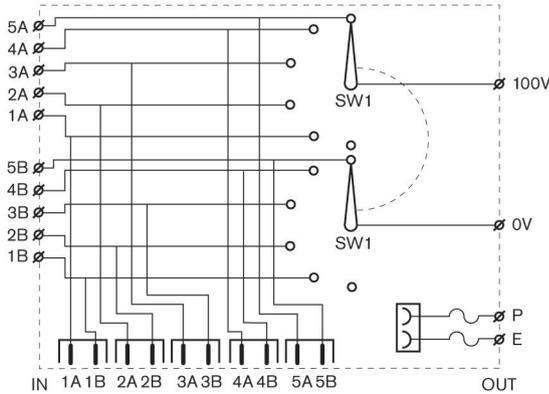


LBC 1401/20 circuit diagram



LBC 1420/20 circuit diagram





LBC 1431/10 circuit diagram

**Technical specifications**

**Electrical**

<b>LBC 1401/10 and /20</b>	
Rated power	12 W
Input voltage	100 V
Attenuation steps	5 x 3 dB + off
Frequency response	50 Hz to 20 kHz (-1 dB)
THD	<0.5%
Current consumption	20 mA at 24 VDC
Connector	Screw terminal
<b>LBC 1411/10 and /20</b>	
Rated power	36 W
Input voltage	100 V
Attenuation steps	8 x 3 dB + off
Frequency response	50 Hz to 20 kHz (-1 dB)
THD	<0.5%
Current consumption	20 mA at 24 VDC
Connector	Screw terminal
<b>LBC 1420/10 and /20</b>	
Rated power	100 W
Input voltage	100 V
Attenuation steps	10 x 2 dB + off
Frequency response	50 Hz to 20 kHz (-1 dB)
THD	<0.5%
Current consumption	20 mA at 24 VDC
Connector	Screw terminal
<b>LBC 1431/10</b>	
Rated power	100 W

Input voltage	100 V
Number of programs	5 programs + off
Connector	Screw terminal

**Mechanical**

<b>LBC 1401/10 and /20</b>	
Dimensions (W x H x D)	81 x 81 x 45.5 mm
Weight	214 g
Color	White (RAL 9010)
<b>LBC 1411/10 and /20</b>	
Dimensions (W x H x D)	81 x 81 x 45.5 mm
Weight	217 g
Color	White (RAL 9010)
<b>LBC 1420/10 and /20</b>	
Dimensions (W x H x D)	87 x 147 x 61.5 mm
Weight	512 g (including surface mounting box)
Color	White (RAL 9010)
<b>LBC 1431/10</b>	
Dimensions (W x H x D)	81 x 81 x 33.4 mm
Weight	110 g
Color	White (RAL 9010)
<b>LM1-SMB-U40</b>	
Dimensions (W x H x D)	80.65 x 80.65 x 45 mm
Weight	60 g
Color	White (RAL 9010)

**Environmental**

Operating temperature	-10 °C to +55 °C (+14 °F to +131 °F)
Storage temperature	-40 °C to +70 °C (-40 °F to +158 °F)
Relative humidity	<95%

**Ordering information**

**LBC 1401/10 Volume Control**  
12W, U40, power-save version  
Order number **LBC1401/10**

**LBC 1401/20 Volume Control**  
12 W, U40, failsafe version  
Order number **LBC1401/20**

**LBC 1411/10 Volume Control**  
36 W, U40, power-save version  
Order number **LBC1411/10**

**LBC 1411/20 Volume Control**

36 W, U40, failsafe version  
Order number **LBC1411/20**

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**LBC 1420/10 Volume Control**

100 W, MK D/E2, power-save version  
Order number **LBC1420/10**

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**LBC 1420/20 Volume Control**

100 W, MK D/E2, failsafe version  
Order number **LBC1420/20**

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**LBC 1431/10 Program Selector**

5-channel, U40  
Order number **LBC1431/10**

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**Accessories**

**LM1-SMB-U40**

surface mounting box, U40  
Order number **LM1-SMB-U40**

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