# LBC 14x0/x0 MK Volume Controls and LBC 1430/10 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-wire 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.
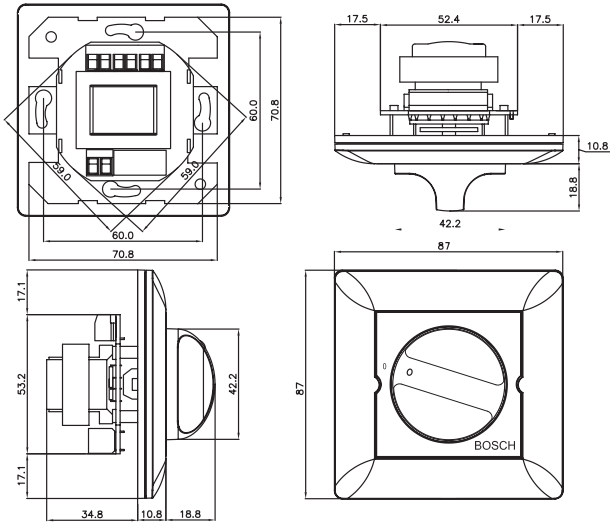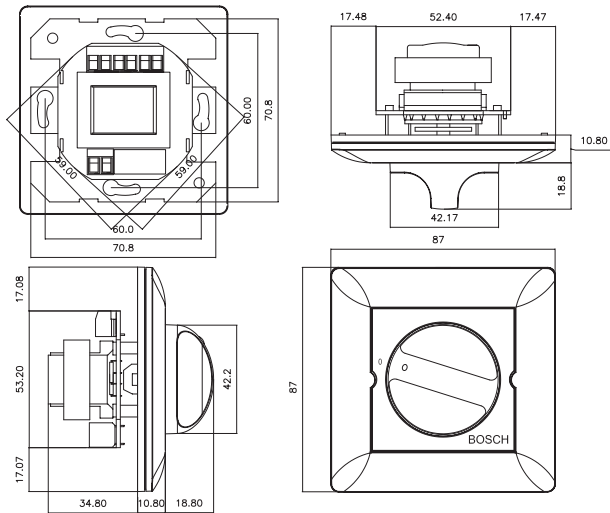
### Interconnections
Screw connections

## Certifications and Approvals

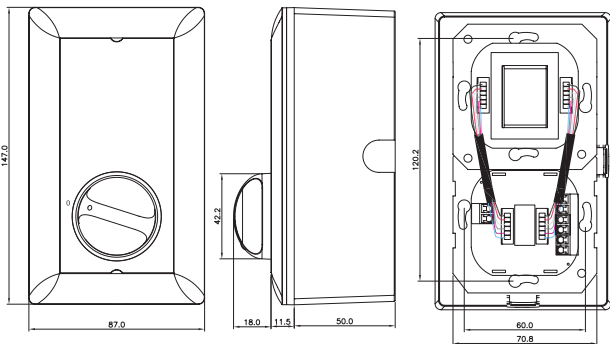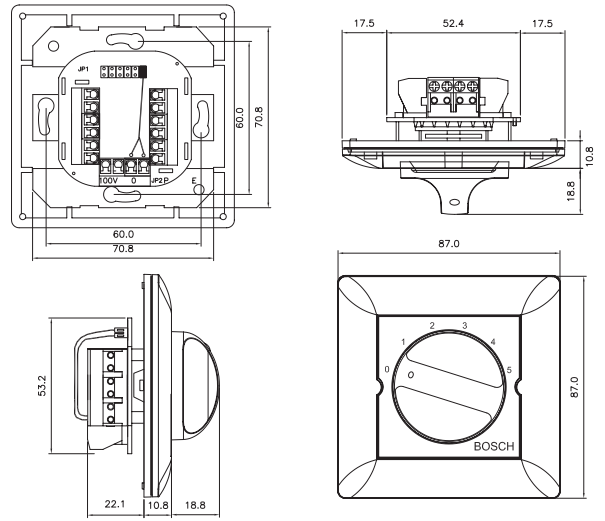| Safety | acc. to EN 60065 |
|---|---|
| Self-extinguishing | acc. to UL 94 V0 |

## Installation/Configuration Notes

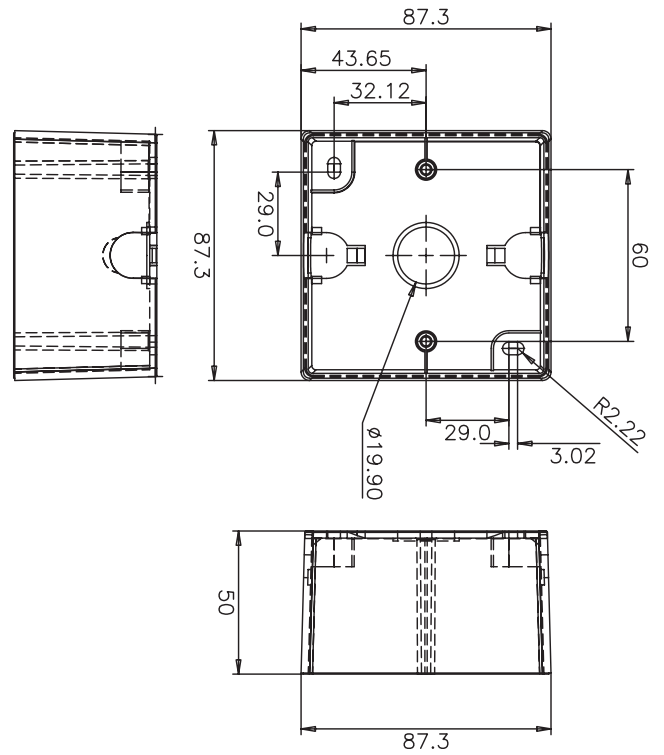LBC 1400/10 and LBC 1400/20 dimensions in mm
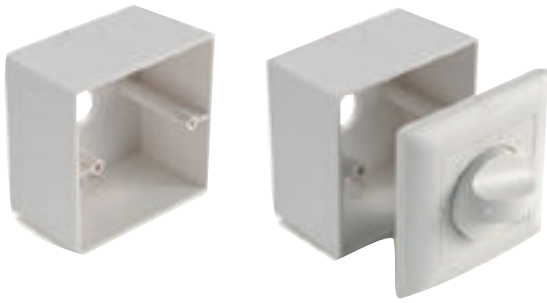
LBC 1410/10 and LBC 1410/20 dimensions in mm

LBC 1420/10 and LBC 1420/20 dimensions in mm
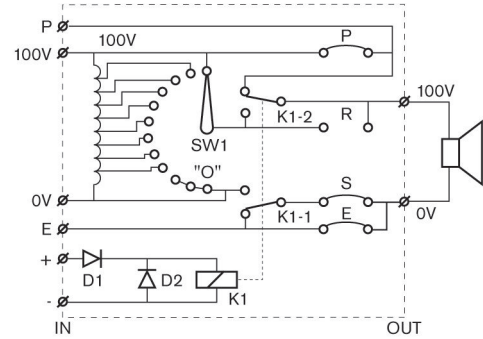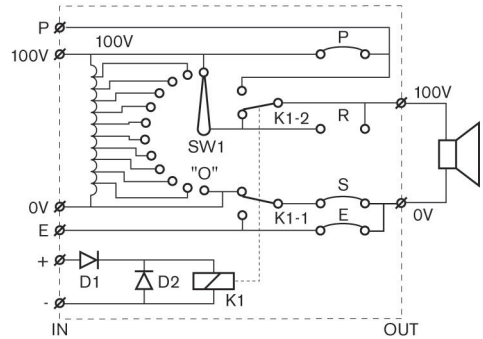
LBC 1430/10 dimensions in mm

LM1-SMB-MK dimensions in mm

LM1-SMB-MK detail

LBC 1400/10 circuit diagram
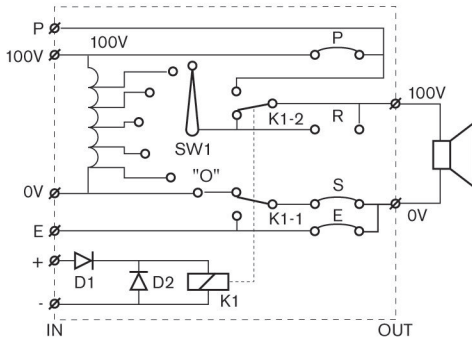
LBC 1400/20 circuit diagram
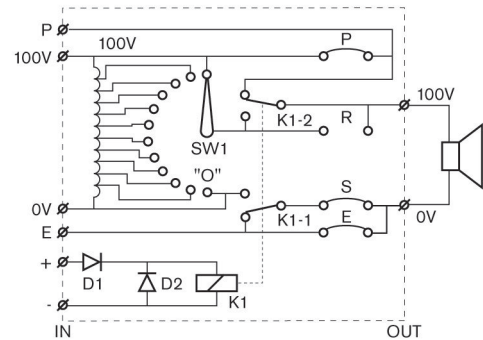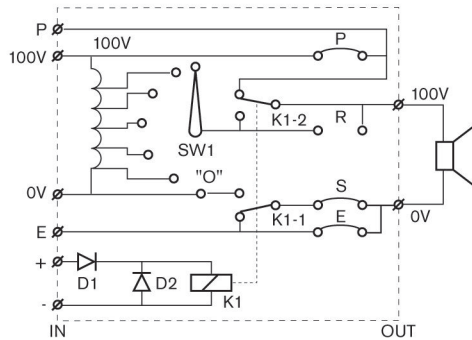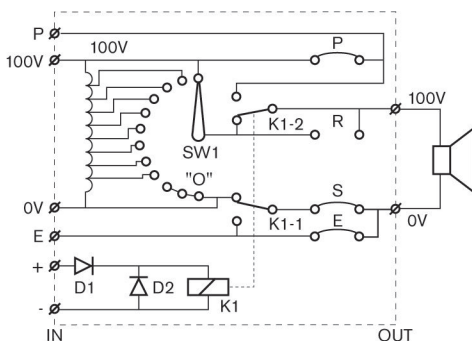
LBC 1410/10 circuit diagram
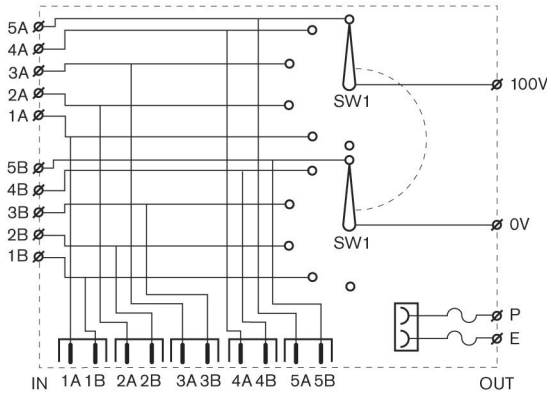
LBC 1410/20 circuit diagram

LBC 1420/10 circuit diagram

LBC 1420/20 circuit diagram

LBC 1430/10 circuit diagram

## Technical Specifications

### Electrical

| LBC 1400/10 and /20 | |
|---|---|
| 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 |

| LBC 1410/10 and /20 | |
|---|---|
| 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 |

| LBC 1420/10 and /20 | |
|---|---|
| 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 |

| LBC 1430/10 | |
|---|---|
| Rated power | 100 W |
| Input voltage | 100 V |
| Number of programs | 5 programs + off |

### Mechanical

| LBC 1400/10 and /20 | |
|---|---|
| Dimensions (W x H x D) | 87 x 87 x 45.6 mm |
| Weight | 226 g |
| Color | White (RAL 9010) |

| LBC 1410/10 and /20 | |
|---|---|
| Dimensions (W x H x D) | 87 x 87 x 45.6 mm |
| Weight | 227 g |
| Color | White (RAL 9010) |

| LBC 1420/10 and /20 | |
|---|---|
| Dimensions (W x H x D) | 87 x 147 x 61.5 mm |
| Weight | 512 g (including surface mounting box) |
| 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) |

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

### 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**
12 W, MK, power-save version
Order number **LBC1400/10**

**LBC 1400/20 Volume Control**
12 W, MK, failsafe version
Order number **LBC1400/20**

**LBC 1410/10 Volume Control**
36 W, MK, power-save version
Order number **LBC1410/10**

**LBC 1410/20 Volume Control**
36 W, MK, failsafe version
Order number **LBC1410/20**

**LBC 1420/10 Volume Control**
100 W, MK D/E2, power-save version
Order number **LBC1420/10**

**LBC 1420/20 Volume Control**
100 W, MK D/E2, failsafe version
Order number **LBC1420/20**

**LBC 1430/10 Program Selector**
5-channel, MK
Order number **LBC1430/10**

**Accessories**

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