BOSCH
Invented for life

LBC 14x0/x0 MK Volume Controls and LBC 1430/10 Program Selector

- **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**
- **Program selector with up to five channels**
- **Optional surface mounting box**
- **Complies with international installation and safety regulations**

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.

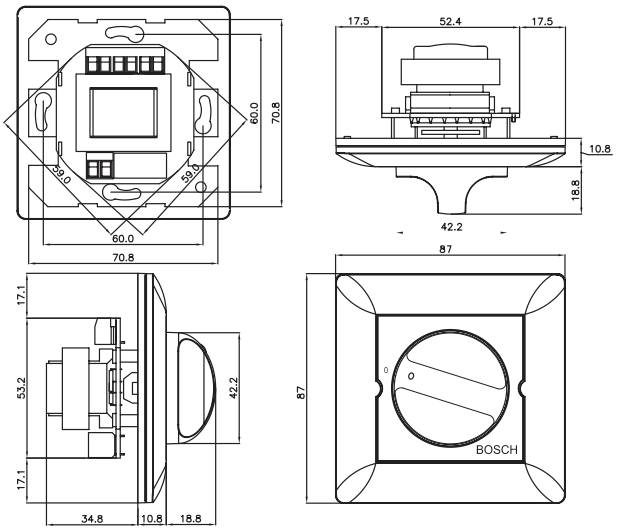
Interconnections

Screw connections

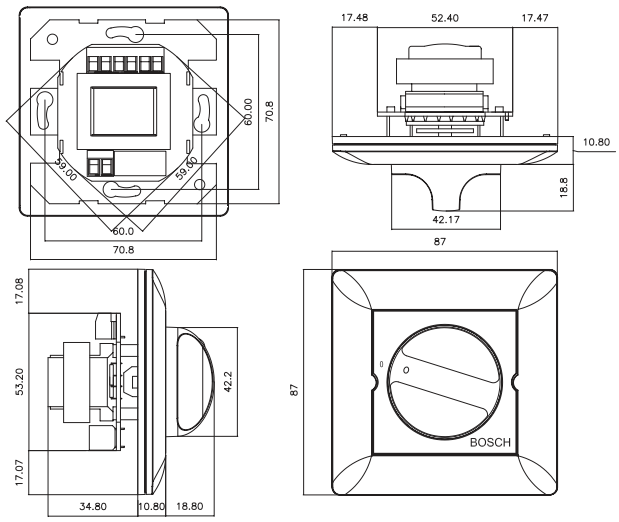
Certifications and Approvals

Region	Certification	
Europe	CE	LBC 14xx/20
Safety		acc. to EN 60065
Self-extinguishing		acc. to UL 94 V0

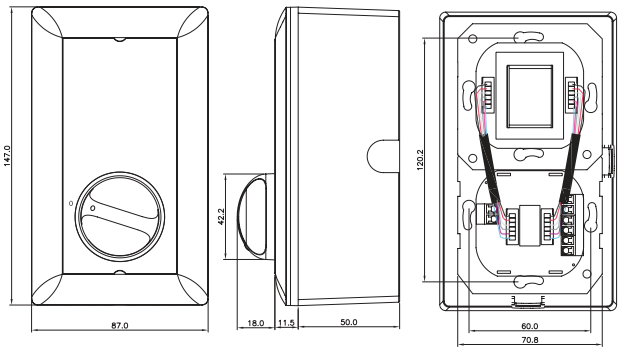
Installation/Configuration Notes



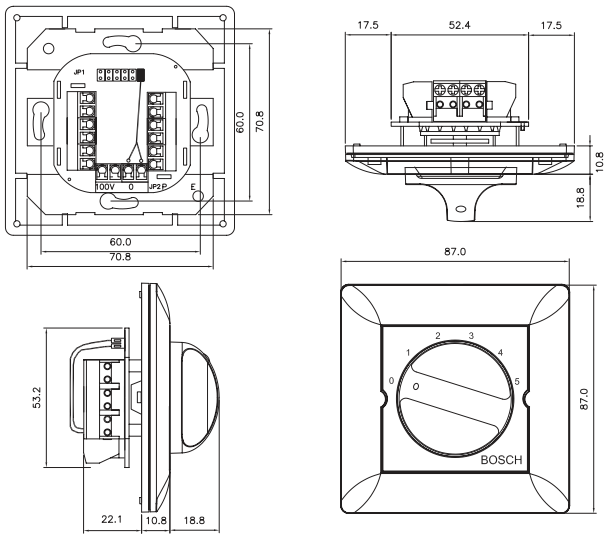
LBC 1400/10 and LBC 1400/20 dimensions in mm



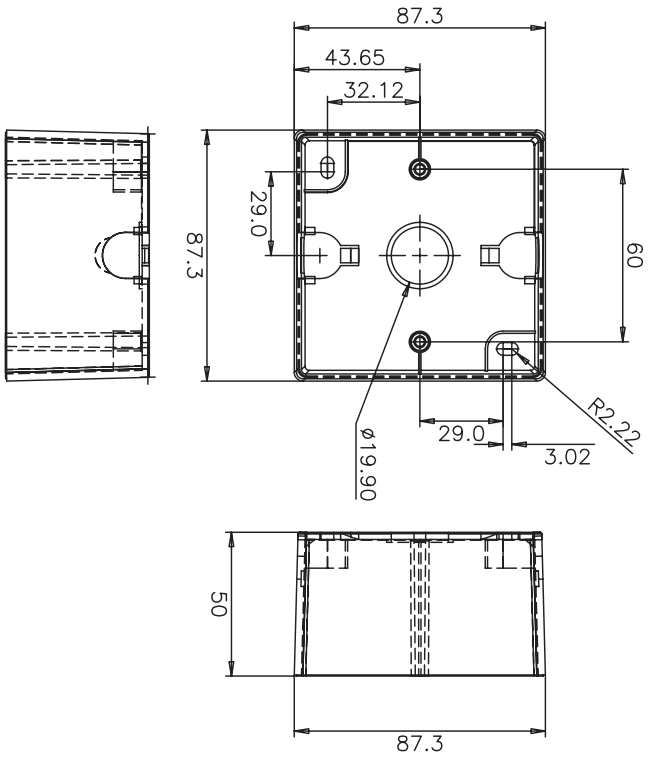
LBC 1410/10 and LBC 1410/20 dimensions in mm



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

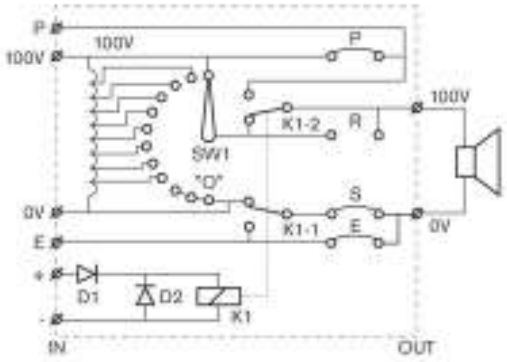


LBC 1430/10 dimensions in mm

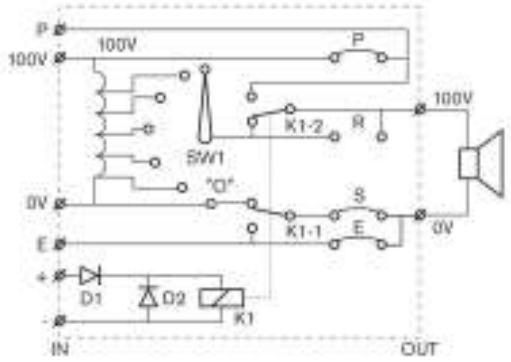


LM1-SMB-MK dimensions in mm

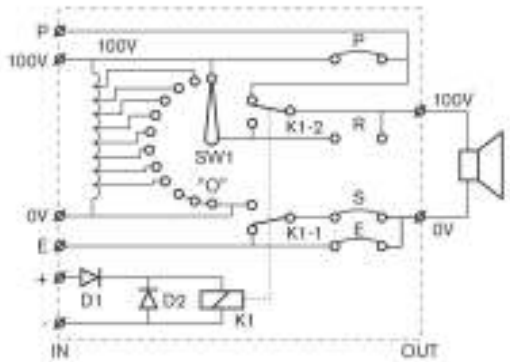
LM1-SMB-MK detail



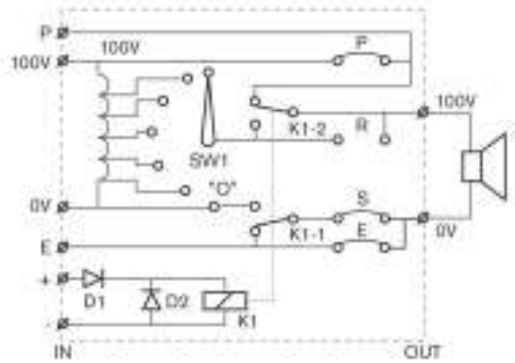
LBC 1410/10 circuit diagram



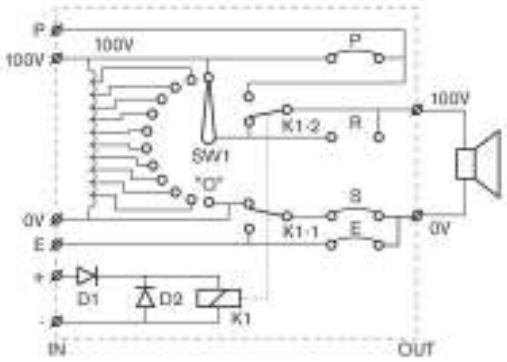
LBC 1400/10 circuit diagram



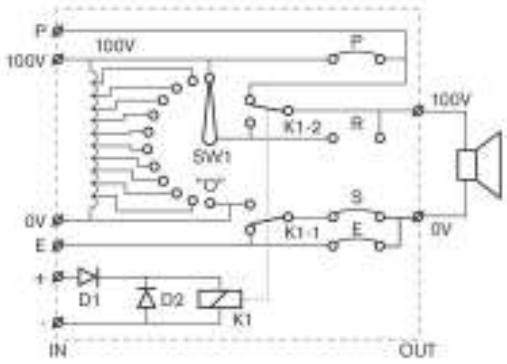
LBC 1410/20 circuit diagram



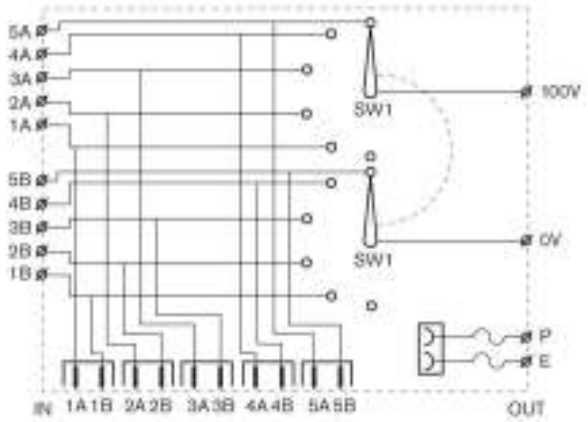
LBC 1400/20 circuit diagram



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
LBC 1400/10 and /20	
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 °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 1400/10 Volume Control 12 W, MK, power-save version	**LBC1400/10**
LBC 1400/20 Volume Control 12 W, MK, failsafe version	**LBC1400/20**
LBC 1410/10 Volume Control 36 W, MK, power-save version	**LBC1410/10**
LBC 1410/20 Volume Control 36 W, MK, failsafe version	**LBC1410/20**

Ordering Information

LBC 1420/10 Volume Control 100 W, MK D/E2, power-save version	**LBC1420/10**
LBC 1420/20 Volume Control 100 W, MK D/E2, failsafe version	**LBC1420/20**
LBC 1430/10 Program Selector 5-channel, MK	**LBC1430/10**
Accessories	
LM1-SMB-MK surface mounting box, MK	**LM1-SMB-MK**

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