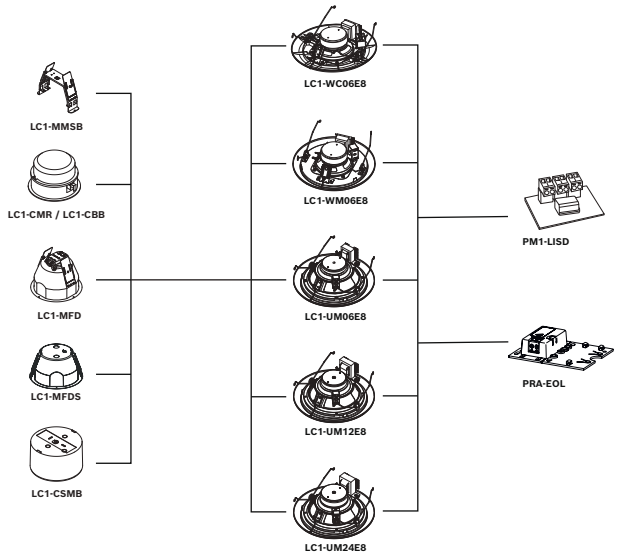
LC1 Modular ceiling loudspeaker range

- Excellent speech and music reproduction
- Easy installation with one grille size and one complete set of accessories
- Choice of different ceiling mounting methods
- EN 54-24, UL 2043, UL1480 certified

The LC1 Modular Ceiling Loudspeaker range can be used for a wide variety of ceiling environments. They provide excellent speech and music in indoor public address applications. The range offers a choice of five loudspeakers distinguished by input power, opening angle and sound reproduction.
It includes three 6 W dual cone loudspeakers offering a choice of opening angle and two high performance 12 W and 24 W coaxial loudspeaker drivers. They all have the same grille size and can be used in combination with the same mounting accessories.
The loudspeakers can be installed with the LC1-MFD or LC1-MFDS enclosure and are suitable for use in air-handling spaces. The loudspeaker frame includes provision for mounting the optional monitoring board PRA-EOL and DC-blocking board PM1-LISD inside the enclosure.

System overview



Type number	LC1-WC06E8	LC1-WM06E8	LC1-UM06E8	Lc1-UM12E8	LC1-UM24E8
Front grille material	ABS	Metal	Metal	Metal	Metal
Front grille size	220 mm (8.66 in)	220 mm (8.66 in)	220 mm (8.66 in)	220 mm (8.66 in)	220 mm (8.66 in)
Driver type	4" (dual cone)	4" (dual cone)	6.5" (dual cone)	6.5" (coax)	6.5" (coax)
Power	6 W	6 W	6 W	12 W	24 W

Type number	LC1-WC06E8	LC1-WM06E8	LC1-UM06E8	Lc1-UM12E8	LC1-UM24E8
SPL1.1	88 dB	88 dB	89 dB	89 dB	89 dB
Frequency range	85 Hz—20 kHz	85 Hz—20 kHz	70 Hz—20 kHz	55 Hz—20 kHz	55 Hz—20 kHz
Opening angles 1 kHz/4 kHz	180/75	180/128	180/62	180/64	180/58
Usage	High humidity/salt mist	General use, low ceiling	General use	General use/Hi-Q	General use/Hi-Q

Functions

Voice alarm applications
Voice alarm loudspeakers are specifically designed for use in buildings where system performance for verbal evacuation announcements is governed by regulations. The LC1 Modular Ceiling Loudspeaker range is designed for use in voice alarm systems and is EN 54-24 certified and compliant with British standard BS 5839-8.

Protection
The loudspeakers have built-in protection to ensure that fire damage to the loudspeakers does not cause failure of the connected circuit. In this way system integrity is maintained, ensuring loudspeakers in other areas can still be used to inform people of the situation.
The loudspeakers can also be used in combination with a metal fire-dome to increase protection of the cable termination.

Connections
The loudspeakers have a ceramic screw-terminal connection block, thermal fuse and heat-resistant, high-temperature wiring.

Regulatory information

All Bosch loudspeakers are designed to withstand operating at their rated power for 100 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 extra reliability under extreme conditions, leading to higher customer satisfaction, longer operating life, and much less chance of failure or performance deterioration. All plastic parts are self-extinguishing according to UL 94 V0.

Safety[1]	according to IEC/EN 62368-1
Emergency[2]	according to EN 54-24 according to BS 5839-8
UL listed	1480/2043
Ball-proof	according to DIN VDE 0710 part 13
Water and dust protection[3]	according to IEC/EN 60529, IP21C
Water and dust protection[4]	according to IEC/EN 60529, IP33
Salt mist[5]	according to IEC-68-2-11 Ka

[1] Valid for LC1-WC06E8, LC1-WM06E8, LC1-UM06E8, LC1-UM12E8, LC1-UM24E8 and LC1-PIB.
[2] Only in combination with the LC1-MFD or LC1-CSMB (+LC1-MSK) or LC1-CMR + LC1-CBB or LC1-MFDS.
[3] Only in combination with the LC1-MFD or LC1-CMR including LC1-CBB or LC1-MFDS.
[4] and [5] only LC1-WC06E8 with LC1-CMR including LC1-CBB.

Notice

UL 1480 requires installation with the LC1-MFD or LC1-CSMB, or the LC1-CMR including LC1-CBB. LC1-UM06E8 and LC1-UM12E8 have UL 1480 F certification listed for use in Fire Alarm and/or Emergency Communication Systems.

Installation/configuration notes

The LC1 Modular Ceiling Loudspeaker range is designed with ease of installation in mind, ensuring a user-friendly experience for seamless integration into diverse environments. The loudspeaker consists of a frame with the loudspeaker driver and metal or ABS grille with integrated light conductor, matching transformer and ceramic screw terminal connection block. On the loudspeaker are provisions for mounting the optional end-of-line surveillance board and optional DC-blocking board.
Power tapping on the 70 V / 100 V matching transformer allows selection of full-power, half-power, quarter-power and eight-power radiation.

Ordering information
Due to the modular concept of this system, it is important to order not only the ceiling loudspeaker unit, but also the flush ceiling mounting accessory of your choice, as mentioned here below. The loudspeakers can be flush mounted into the ceiling by means of the “U” shaped Metal Mounting Support Bracket LC1-MMSB or the ABS Ceiling Mounting Ring LC1-CMR with optional Back Box LC1-CBB.
In order to take full advantage of the modular architecture, all parts are separately packaged in the order in which they are required for installation.

LC1-MMSB Mounting Support Bracket
The metal Mounting Support Bracket has two ceiling clamps, which are secured with thumb screws in the ceiling hole. The bracket is also provided with two 4 mm holes for mounting the bracket with two screws into thin (metal) ceilings. Two spring catchers (for accepting the V-shaped loudspeaker springs) are provided. The bracket provides a provision for attaching an optional safety steel cord.

Fig. 1: LC1-MMSB Metal Mounting Support Bracket

LC1-CMR Mounting Ring
The LC1-CMR is an alternative for the ceiling mounting support bracket. The ABS Mounting Ring has two screw driving clamps to fix the mounting ring into the ceiling board. Inside the ring, two spring catchers (for accepting the V-shaped loudspeaker springs) are provided.

LC1-CBB Back Box
On top of the mounting ring, provisions are present to “click-on” the optional Back Box. The combination of Mounting Ring and Back Box prevents sound traveling via the ceiling cavity to adjacent areas, and fully protects the loudspeaker from dust, falling objects.
The Back Box has knock-out holes for two grommets (11 mm/0.80 in) and for two cable glands (20.5 mm/0.80 in).

Fig. 2: LC1-CMR and LC1-CBB Ceiling Mounting Ring and Back Box assembly

LC1-CSMB Surface Mounting Box
This ABS Surface Mounting Box is available for securing the ceiling loudspeaker to walls or hard ceilings. At the side, the Surface Mounting Box has two holes standard covered, opposite positioned and four knock-out holes on the rear side. For optional single point suspension of the assembly of Ceiling Loudspeaker and Surface Mounting Box, a separate metal suspension kit, LC1-MSK is available.

Fig. 3: LC1-CSMB Surface Mounting Box

LC1-MSK Metal Suspension Kit
This kit contains a tri-angled metal plate to be attached by three screws (supplied) onto the rear of the Surface Mounting Box and includes three suspension chains, converged in an eye-hook.

Fig. 4: LC1-MSK Metal Suspension Kit

LC1-MFD Metal Fire Dome, ceramic
Ease of installation for individual loudspeaker and loudspeaker/fire-dome combinations. The Fire Dome mounting is fixed in the ceiling, prior to the ceiling speaker mounting. The Fire Dome has a dual connection entry, enabling loop-through cabling and provision for attaching an optional safety steel cord. Connections are made using an innovative ceramic screw terminal connection block on the metal fire dome with loop-through facility.
Suitable for use in air-handling spaces.

Fig. 5: LC1-MFD Metal Fire Dome with innovative ceramic connector

LC1-MFDS Metal Fire Dome, Standard
This Metal Fire Dome has the same form factor as the LC1-MFD, but without the ceramic connector and internal wiring.
The Fire Dome has two grommets, enabling loop-through cabling. The grommets can be replaced with PG13.5 glands.
The eye-bolt on top makes it possible to attach an optional safety steel cord. The Metal Fire Dome is suitable for use in air-handling spaces.

Fig. 6: LC1-MFDS Metal Fire Dome with grommets

LM1-TB Tile Bridge / C-ring
This accessory consists of a C-ring and two tile rails, to be used to reinforce the ceiling material and to spread out the pressure from the ceiling speaker clamps. The C-ring can be guided through the cut-out opening in the ceiling and placed on the back side of the hole before inserting the loudspeaker. The tile

rails are suitable for 600 mm distance ceiling tile support rails. This accessory consists of a set of two pieces.

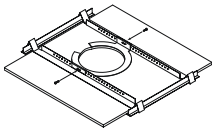


Fig. 7: LM1-TB Tile Bridge / C-Ring

Type number overview

LC1-WC06E8	Ceiling Loudspeaker (6 W)
LC1-WM06E8	Ceiling Loudspeaker (6 W)
LC1-UM06E8	Ceiling Loudspeaker (6 W)
LC1-UM12E8	Ceiling Loudspeaker (12 W)
LC1-UM24E8	Ceiling Loudspeaker (24 W)
LC1-MMSB	Mounting support bracket
LC1-CMR	Mounting Ring
LC1-CBB	Back Box
LC1-CSMB	Surface Mounting Box
LC1-MSK	Metal Suspension Kit
LC1-MFD	Metal Fire Dome, ceramic
LM1-TB	Tile Bridge / C-ring
LC1-MFDS	Metal Fire Dome, standard

Fig. 8: LC1 Modular Ceiling Loudspeaker Range overview

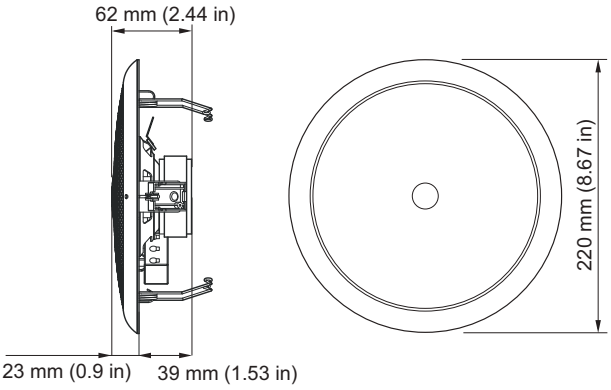


Fig. 9: LC1-WC06E8 Dimensions in mm (in)

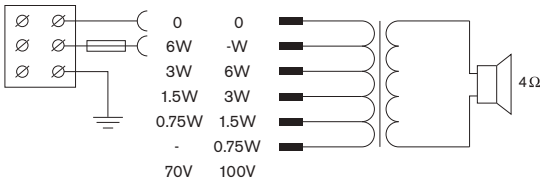


Fig. 10: LC1-WC06E8 Circuit diagram

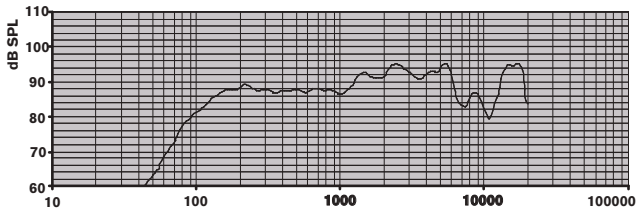


Fig. 11: LC1-WC06E8_Frequency response

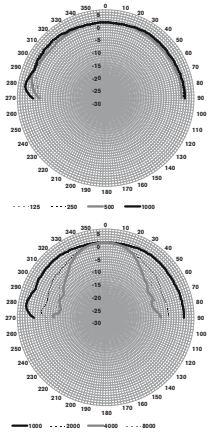


Fig. 12: LC1-WC06E8 Polar diagrams

Octave band sensitivity LC1-WC06E8

	Octave SPL 1W/1m	Total octave SPL 1W/1m	Total octave SPL Pmax/1m
125 Hz	85.3	-	-
250 Hz	88.3	-	-
500 Hz	87.5	-	-
1000 Hz	88.4	-	-

2000 Hz	93.4	-	-
4000 Hz	93.8	-	-
8000 Hz	88.0	-	-
A-weighted	-	89.0	106.2
Lin-weighted	-	89.7	107.1

Octave band opening angles LC1-WC06E8

	Horizontal	Vertical	
125 Hz	180	180	
250 Hz	180	180	
500 Hz	180	180	
1000 Hz	180	180	
2000 Hz	180	180	
4000 Hz	75	75	
8000 Hz	96	96	

LC1-WC06E8 Acoustical performance specified per octave. (all measurements are done with a pink noise signal; the values are in dBSPL).

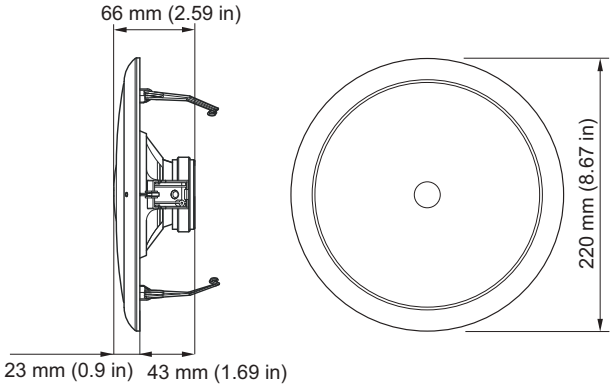


Fig. 13: LC1-WM06E8 Dimensions in mm (in)

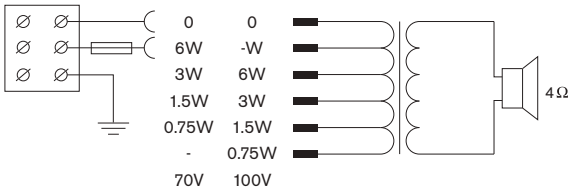


Fig. 14: LC1-WM06E8 Circuit diagram

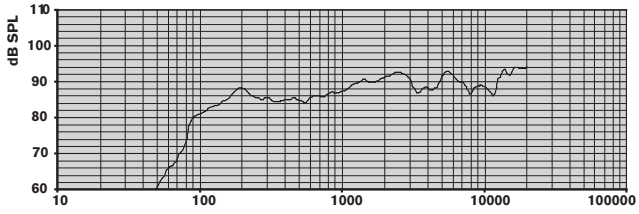


Fig. 15: LC1-WM06E8 Frequency response

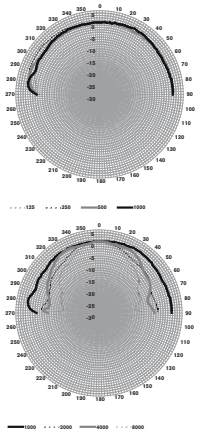


Fig. 16: LC1-WM06E8 Polar diagrams

Octave band sensitivity LC1-WM06E8

	Octave SPL 1W/1m	Total octave SPL 1W/1m	Total octave SPL Pmax/1m
125 Hz	83.4	-	-
250 Hz	86.1	-	-
500 Hz	85.1	-	-
1000 Hz	87.8	-	-

2000 Hz	91.2	-	-
4000 Hz	89.7	-	-
8000 Hz	89.3	-	-
A-weighted	-	86.9	94.2
Lin-weighted	-	88.1	94.9

Octave band opening angles LC1-WM06E8

	Horizontal	Vertical	
125 Hz	180	180	
250 Hz	180	180	
500 Hz	180	180	
1000 Hz	180	180	
2000 Hz	120	120	
4000 Hz	128	128	
8000 Hz	75	75	

LC1-WM06E8 Acoustical performance specified per octave. (all measurements are done with a pink noise signal; the values are in dBSPL).

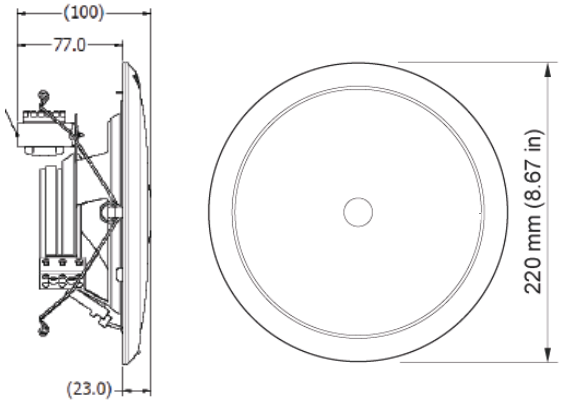


Fig. 17: LC1-UM06E8 Dimensions in mm

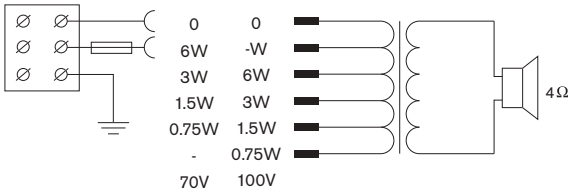


Fig. 18: LC1-UM06E8 Circuit diagram

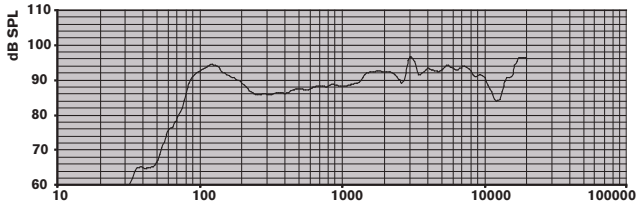


Fig. 19: LC1-UM06E8 Frequency response

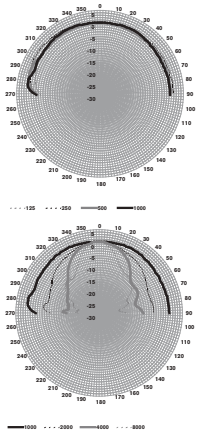


Fig. 20: LC1-UM06E8 Polar diagrams

Octave band sensitivity LC1-UM06E8

	Octave SPL 1W/1m	Total octave SPL 1W/1m	Total octave SPL Pmax/1m
125 Hz	93.4	-	-
250 Hz	88.4	-	-
500 Hz	86.3	-	-

1000 Hz	88.5	-	-
2000 Hz	91.4	-	-
4000 Hz	93.9	-	-
8000 Hz	92.6	-	-
A-weighted	-	88.9	95.8
Lin-weighted	-	90.4	96.5

Octave band opening angles LC1-UM06E8

	Horizontal	Vertical	
125 Hz	180	180	
250 Hz	180	180	
500 Hz	180	180	
1000 Hz	180	180	
2000 Hz	108	108	
4000 Hz	62	62	
8000 Hz	38	38	

LC1-UM06E8 Acoustical performance specified per octave. (all measurements are done with a pink noise signal; the values are in dBSPL).

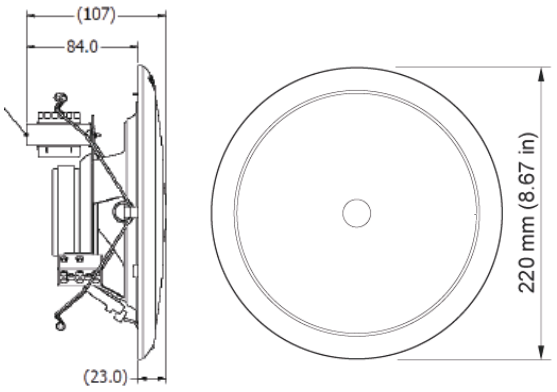


Fig. 21: LC1-UM12E8 Dimensions in mm

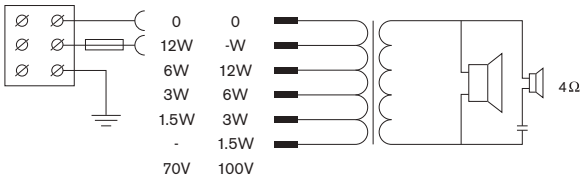


Fig. 22: LC1-UM12E8 Circuit diagram

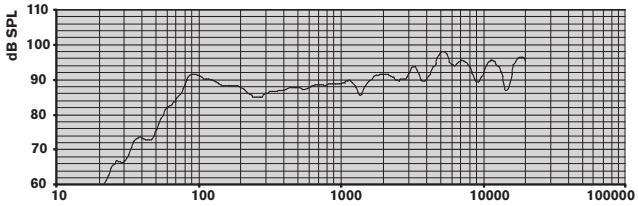


Fig. 23: LC1-UM12E8 Frequency response

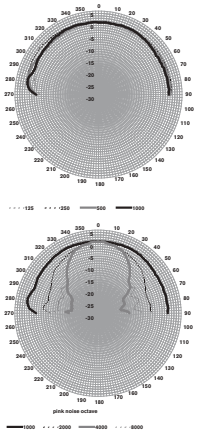


Fig. 24: LC1-UM12E8 Polar diagrams

Octave band sensitivity LC1-UM12E8

	Octave SPL 1W/1m	Total octave SPL 1W/1m	Total octave SPL Pmax/1m
125 Hz	89.4	-	-
250 Hz	87.3	-	-
500 Hz	86.5	-	-

1000 Hz	88.6	-	-
2000 Hz	90.0	-	-
4000 Hz	94.0	-	-
8000 Hz	93.7	-	-
A-weighted	-	88.9	99.3
Lin-weighted	-	90.3	100.2

Octave band opening angles LC1-UM12E8

	Horizontal	Vertical	
125 Hz	180	180	
250 Hz	180	180	
500 Hz	180	180	
1000 Hz	180	180	
2000 Hz	108	108	
4000 Hz	64	64	
8000 Hz	62	62	

LC1-UM12E8 Acoustical performance specified per octave. (all measurements are done with a pink noise signal; the values are in dBSPL).

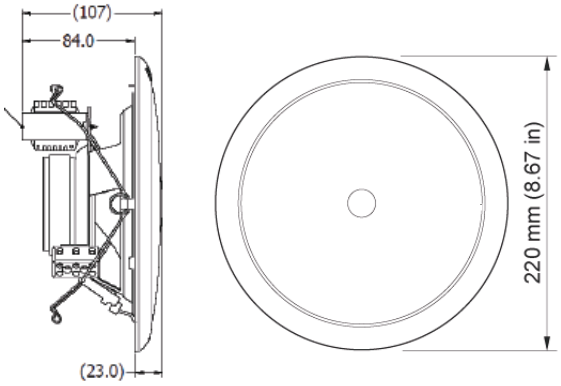


Fig. 25: LC1-UM24E8 Dimensions in mm

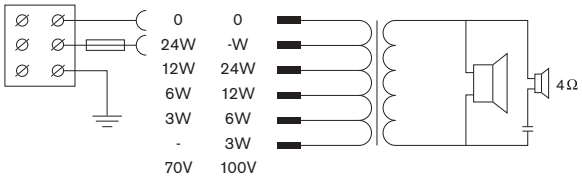


Fig. 26: LC1-UM24E8 Circuit diagram

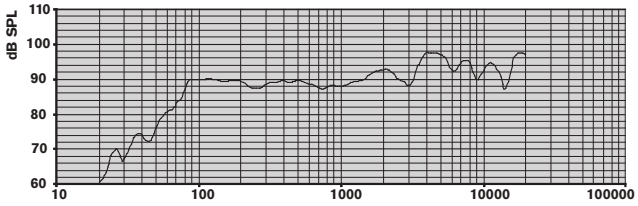


Fig. 27: LC1-UM24E8 Frequency response

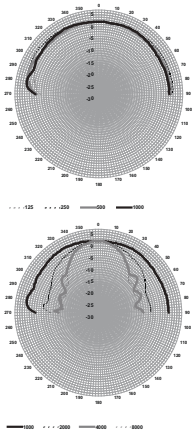


Fig. 28: LC1-UM24E8 Polar diagrams

Octave band sensitivity LC1-UM24E8

	Octave SPL 1W/1m	Total octave SPL 1W/1m	Total octave SPL Pmax/1m
125 Hz	89.9	-	-
250 Hz	88.3	-	-
500 Hz	89.0	-	-

1000 Hz	88.6	-	-
2000 Hz	91.5	-	-
4000 Hz	95.6	-	-
8000 Hz	93.8	-	-
A-weighted	-	90.0	103.1
Lin-weighted	-	91.3	103.8

Octave band opening angles LC1-UM24E8

	Horizontal	Vertical
125 Hz	180	180
250 Hz	180	180
500 Hz	180	180
1000 Hz	180	180
2000 Hz	106	106
4000 Hz	58	58
8000 Hz	57	57

LC1-UM24E8 Acoustical performance specified per octave. (all measurements are done with a pink noise signal; the values are in dBSPL).

Technical specifications

Electrical*

	LC1-WC06E8		
Description	Ceiling loudspeaker		
Rated power	6 W (6 / 3 / 1.5 / 0.75 W)		
Sound Pressure Level at rated power / 1 W (1 kHz, 1 m)	96 dB / 88 dB		
Sound Pressure Level at rated power / 1 W (1 kHz, 4 m)	84 dB / 78 dB		
Opening angle at 1 kHz / 4 kHz (-6 dB)	180° / 75°		
Effective frequency range (-10 dB)	85 Hz to 20 kHz		
Rated voltage		70 V	100 V
Rated impedance	6 W	833 Ohm	1667 Ohm
	3 W	1667 Ohm	3333 Ohm
	1.5 W	3333 Ohm	6666 Ohm
	0.75 W	6666 Ohm	13333 Ohm
Connector	3-pole screw-terminal block		

	LC1-WM06E8		**LC1-UM06E8**
Description	Ceiling loudspeaker		Ceiling loudspeaker
Rated power	6 W (6 / 3 / 1.5 / 0.75 W)		6 W (6 / 3 / 1.5 / 0.75 W)
Sound Pressure Level at rated power / 1 W (1 kHz, 1 m)	96 dB / 88 dB		97 dB / 89 dB
Sound Pressure Level at rated power / 1 W (1 kHz, 4 m)	87 dB / 79 dB		88 dB / 80 dB
Opening angle at 1 kHz / 4 kHz (-6 dB)	180° / 128°		180° / 62°
Effective frequency range (-10 dB)	85 Hz to 20 kHz		70 Hz to 20 kHz
Rated voltage		70 V	100 V
Rated impedance	6 W	833 Ohm	1667 Ohm
	3 W	1667 Ohm	3333 Ohm
	1.5 W	3333 Ohm	6666 Ohm
	0.75 W	6666 Ohm	13333 Ohm
Connector	3-pole screw-terminal block		

	LC1-UM12E8	**LC1-UM24E8**
Description	Ceiling loudspeaker	Ceiling loudspeaker
Rated power	12 W (12 / 6 / 3 / 1.5 W)	24 W (24 / 12 / 6 / 3 W)
Sound Pressure Level at rated power / 1 W (1 kHz, 1 m)	100 dB / 89 dB	103 dB / 89 dB

Sound Pressure Level at rated power / 1 W (1 kHz, 4 m)	88 dB / 77 dB			91 dB / 77 dB		
Opening angle at 1 kHz / 4 kHz (-6 dB)	180° / 64°			180° / 58°		
Effective frequency range (-10 dB)	55 Hz to 20 kHz			55 Hz to 20 kHz		
Rated voltage		70 V	100 V		70 V	100 V
Rated impedance	12 W	416 Ohm	833 Ohm	24 W	208 Ohm	416 Ohm
	6 W	833 Ohm	1667 Ohm	12 W	416 Ohm	833 Ohm
	3 W	1667 Ohm	3333 Ohm	6 W	833 Ohm	1667 Ohm
	1.5 W	3333 Ohm	6666 Ohm	3 W	1667 Ohm	3333 Ohm
Connector	3-pole screw-terminal block			3-pole screw-terminal block		

* Technical performance data acc. to IEC 60268-5

Mechanical

	LC1-WC06E8
Description	Ceiling loudspeaker
Diameter	220 mm (8.67 in)
Maximum depth*	125 mm (4.92 in)
Color	White (RAL 9010)
Material (frame / front grille)	ABS
Weight	820 g (1.81 lb)

	LC1-WM06E8	**LC1-UM06E8**
Description	Ceiling loudspeaker	Ceiling loudspeaker
Diameter	220 mm (8.67 in)	220 mm (8.67 in)
Maximum depth*	125 mm (4.92 in)	125 mm (4.92 in)
Color	White (RAL 9010)	White (RAL 9010)
Material (frame / front grille)	Steel	Steel
Weight	1.18 kg (2.6 lb)	1.16 kg (2.56 lb)

	LC1-UM12E8	**LC1-UM24E8**
Description	Ceiling loudspeaker	Ceiling loudspeaker
Diameter	220 mm (8.67 in)	220 mm (8.67 in)
Maximum depth*	125 mm (4.92 in)	125 mm (4.927 in)
Color	White (RAL 9010)	White (RAL 9010)
Material (frame / front grille)	Steel	Steel
Weight	1.3 kg (2.86 lb)	1.75 kg (3.86 lb)

	LC1-MMSB	**LC1-CMR**
Description	Mounting Support Bracket	Ceiling Mounting Ring
Dimensions	215 x 125 x 56 mm (8.47 x 4.92 x 2.2 in)	215 x 70 mm (8.47 x 2.75 in)
Mounting cut-out	190 mm (7.48 in)	200 mm (7.88 in)
	Cut-out template included	Cut-out template included
Max. ceiling thickness	50 mm (1.97 in)	25 mm (0.98 in)
Material	Steel	ABS
Color	Zinc plated	White (RAL 9010)
Weight	390 g (0.70 lb)	210 g (0.46 lb)

	LC1-CBB	**LC1-CSMB**
Description	Back Box	Surface Mounting Box
Dimensions	196 x 70 mm (7.72 x 2.75 in)	220 x 128 mm (8.67 x 5.04 in)
Material	ABS	ABS
Color	White (RAL 9010)	White (RAL 9010)
Weight	174 g (0.38 lb)	690 g (1.52 lb)

	LC1-MFD	LC1-MFDS
Description	Metal Fire Dome (including ceramic connector)	Metal Fire Dome with grommets
Dimensions	215 x 155 mm (8.47 x 6.1 in)	215 x 127 mm (8.47 x 5 in)
Mounting cut-out	190 mm (7.48 in)	190 mm (7.48 in)
	Cut-out template included	Cut-out template included
Material	Steel	Steel
Color	Flame red (RAL 3000)	Flame red (RAL 3000)
Weight	1 kg (2.20 lb)	0.635 kg (1.40 lb)

	LM1-TB	LC1-MSK
Description	Tile Bridge / C-Ring	Metal Suspension Kit
Dimensions		
Chain length	n.a	320 mm (12.59 in)
Tile rails	643 x 34 mm (25.33 x 1.34 in)	n.a
C-Ring	250 x 30 mm (9.85 x 1.18 in)	n.a
Material	Steel	Steel
Color	Zinc plated	Zinc plated
Weight	939 g (2.07 lb)	174 g (0.38 lb)

* with LC1-MMSB mounting support bracket

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, on a standard baffle
- 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

CE
1438

Bosch Security Systems BV
Torenallee 49,5617 BA Eindhoven, the Netherlands

Loudspeaker for voice alarm system type LC1-WC06E8, LC1-WM06E8, LC1-UM06E8, LC1-UM12E8, LC1-UM24E8 with "fire dome" type LC1-MFD, LC1-MFDS, LC1CSMB (+LC1-MSK), LC1-CMR- + LC1-CBB

EN 54-24
10
1438-CPR-0194
DoP: LP022924v2
Environmental type: A
Fire safety

For use only with speakers as indicated in the Installation Manual V03| F.01U.406.762

Fig. 29: CE label

Ordering information

LC1-MFDS Metal fire dome LC1, Standard
Metal fire dome for use with the LC1 ceiling loudspeakers with two grommets for loop-through facility, EN54-24 certified, Flame red.
Order number **LC1-MFDS | F.01U.415.620**

LC1-WC06E8 Ceiling loudspeaker, 6W, ABS
Ceiling loudspeaker, 6 W, ABS circular grille, 4-inch driver, without flush ceiling-mounting accessory, EN54-24 certified, white RAL 9010.
Order number **LC1-WC06E8 | F.01U.262.655**

LC1-WM06E8 Ceiling loudspeaker, 6W, metal, 4"
Ceiling loudspeaker, 6 W, integrated circular metal grille, 4-inch driver, without flush ceiling-mounting accessory, EN54-24 certified, white RAL 9010.
Order number **LC1-WM06E8 | F.01U.075.422 F.01U.395.812 F.01U.405.579**

LC1-UM06E8 Ceiling loudspeaker, 6W, metal
Ceiling loudspeaker, 6 W, integrated circular metal grille, 6-inch driver, without flush ceiling-mounting accessory, EN54-24 certified, white RAL 9010.
Order number **LC1-UM06E8 | F.01U.075.448 F.01U.377.483 F.01U.395.383 F.01U.395.384 F.01U.400.382**

LC1-UM12E8 Ceiling loudspeaker, 12W, coaxial
Ceiling loudspeaker, 12 W, integrated circular metal grille, 6-inch coax (two-way system) driver, without flush ceiling-mounting accessory, EN54-24 certified, white RAL 9010.
Order number **LC1-UM12E8 | F.01U.075.427**

LC1-UM24E8 Ceiling loudspeaker, 24W, coaxial
Ceiling loudspeaker, 24 W, integrated circular metal grille, 6-inch coax (two-way system) driver, without flush ceiling-mounting accessory, EN54-24 certified, white RAL 9010.
Order number **LC1-UM24E8 | F.01U.075.449**

LC1-MMSB Mounting support bracket for LC1
Metal mounting support bracket with two ceiling clamps for securing LC1 ceiling loudspeakers in the ceiling.
Order number **LC1-MMSB | F.01U.075.454**

LC1-CMR Mounting ring for LC1
Ceiling mounting ring with screw driving ceiling clamps for securing the LC1 ceiling loudspeakers in the ceiling, EN54-24 certified, white RAL 9010.
Order number **LC1-CMR | F.01U.075.453**
F.01U.395.813

LC1-MFD Metal fire dome LC1, ceramic connector
Metal fire dome for use with the LC1 ceiling loudspeakers, including ceramic terminal connector with cable loop-through facility, EN54-24 certified, flame red RAL 3000.
Order number **LC1-MFD | F.01U.075.450**

LC1-CSMB Surface mounting box for LC1
Surface mounting box, ABS, for securing LC1 ceiling loudspeaker to walls or hard ceilings.
Order number **LC1-CSMB | F.01U.075.452**
F.01U.377.484 F.01U.400.383 F.01U.405.580

Accessories

LC1-MSK Metal suspension kit for LC1
Metal suspension kit for single point suspension of LC1 ceiling loudspeaker and LC1-CSMB surface mounting box assembly.
Order number **LC1-MSK | F.01U.079.216**

LM1-TB Tile Bridge
Tile bridge/C-ring, an installation accessory for reinforcing the ceiling material and distributing the pressure from the ceiling speaker clamps.
Order number **LM1-TB | F.01U.075.845**

LC1-CBB Back box for LC1 speaker
Back box for mounting onto the LC1-CMR, fully protects the LC1 loudspeaker from dust and dripping water, makes the unit vermin proof and prevents sound traveling via the ceiling cavity to adjacent areas, EN54-24 certified, white RAL 9010.
Order number **LC1-CBB | F.01U.075.451**

LC1-MSK Metal suspension kit for LC1
Metal suspension kit for single point suspension of LC1 ceiling loudspeaker and LC1-CSMB surface mounting box assembly.
Order number **LC1-MSK | F.01U.079.216**

LM1-TB Tile Bridge
Tile bridge/C-ring, an installation accessory for reinforcing the ceiling material and distributing the pressure from the ceiling speaker clamps.
Order number **LM1-TB | F.01U.075.845**

LC1-CBB Back box for LC1 speaker
Back box for mounting onto the LC1-CMR, fully protects the LC1 loudspeaker from dust and dripping water, makes the unit vermin proof and prevents sound traveling via the ceiling cavity to adjacent areas, EN54-24 certified, white RAL 9010.
Order number **LC1-CBB | F.01U.075.451**

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