

Public Address

Loudspeaker Selection Guide



BOSCH

Invented for life

New edition 2018



Public Address Loudspeaker portfolio



As a leading global player in the design and manufacture of public address systems, Bosch offers a wide range of loudspeakers that form part of these systems. It has a first-rate loudspeaker solution for every audio application, including voice alarm, speech and background music, as well as foreground music and professional audio.

This guide provides **a brief overview of Bosch's portfolio of loudspeakers**, offering a quick look at each product's unique specifications, installation requirements, the environment it is suitable for, and available accessories.

Its easy-to-use and simple-to-store format makes it a highly portable, one-stop reference guide to Bosch's advanced loudspeaker solutions.

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Public Address Loudspeaker portfolio



In addition to explaining each product, the guide provides information about Bosch's vast capabilities and unique experience in the field of electro-acoustic technology.

It also offers information about the international EN54 standard. Loudspeakers used in voice alarm systems that form part of a fire alarm system must comply with EN54-24.

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Leader in acoustical excellence



Bosch is an established leader in the design and development of electro-acoustic technologies. From waveguide to array technology, from 3-D simulation to cutting-edge design, Bosch's products have been setting the industry standard for over 60 years.

Bosch is committed to continual innovation and it invests heavily in research. It owns and operates one of Europe's largest acoustical test and measurement facilities. Fully equipped anechoic rooms enable Bosch to accurately and automatically measure microphones and loudspeakers to ensure the superior quality of every acoustical product. All acoustical products meet or exceed international standards.

Bosch has engineered solutions for many applications. When high-quality background music with a consistent sound level is required, or in emergency situations where messages have to be received clearly, Bosch has the proven acoustical technology. Not only does Bosch offer the ideal product, but it also acts a strategic partner, making its expertise and acoustic support available to propose the optimal solution for the given environment.

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Proven experience, continual innovation



Examples of technologies that Bosch has developed to successfully address some of the more persistent challenges in the field of acoustics include the Cardioid Column Loudspeaker, Back Plate Electret (BPE) Microphone Transducer, Automatic Noise Dependent Audio Signal Processes (ANDAP), and Multi-Channel Reverberation (MCR).

Bosch was also the first to use passive line array technology in the public address market. Its Line Array Loudspeaker boasts a resourceful use of passive filtering to ensure a constituent listening experience. Even better performances are achieved with its active line array technology, achieving very large listening areas with constant sound pressure level and full range sound. Other radical new technologies have Bosch allowed to create a powerful Hemi-directional Loudspeaker that provides a uniform sound field over a large area.

All Bosch acoustical products are robust, require minimal power, and are easy to install and maintain.

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EN54 Certified

Meeting international standards



Loudspeakers form part of a public address & voice alarm system. Such systems are used for public announcements, background music, and, most importantly, to direct people to safety in an emergency. If an emergency occurs, it is vital that the loudspeakers (and the entire system) operate fully throughout a location.

The assurance of correct operation begins with the inclusion of relevant and required elements during a product's development and production processes.

The international standard EN54 specifies the requirements for a complete fire alarm system, including the voice alarm component that comprises loudspeakers. Loudspeakers to be used in these systems must be certified according to the EN54 fire alarm product standard part 24.

EN54-24 specifies requirements, testing methods and performance criteria for loudspeakers used in fire detection and alarm systems that broadcast a warning of a fire to the occupants of a building. The standard gives the common requirements for the construction and robustness of voice alarm loudspeakers, as well as their performance under climatic and mechanical conditions. Only products that comply with this standard can bear the CE mark mentioning it.

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EN54 Certified

Meeting international standards

Safety depends not only on compliant products, but also on the design, installation, and correct operation of the system. With its vast experience, Bosch is well placed to advise on the selection of the most appropriate products and the most ideal design and installation.

Products you can trust

The loudspeakers that form part of Bosch's voice alarm systems – Plena and Praesideo – and indeed the systems themselves, have been granted EN54 certification by an accredited body. Bosch has also been granted EN54-24 certification for a broad range of loudspeakers covering different application areas associated with voice evacuation.

Bosch's comprehensive range of EN54-24 certified loudspeakers can be used for all audio applications, such as voice alarm, speech and background music, as well as foreground music and professional audio.

Every Bosch EVAC Loudspeaker is equipped with a ceramic block and thermal fuse (in accordance with BS5839:8) to prevent the failure of a total loudspeaker line in the case where a short is caused by one loudspeaker.

The Bosch range includes indoor and outdoor loudspeakers, as well as wall- and ceiling-mounted loudspeakers. Details and specifications for the full range of Bosch EN54-24 certified loudspeakers can be found on the cards that follow.

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The Icons explained

► Specifications



Rated power (PHC) [W]



Sound pressure level [dB]
at 1W (1kHz, 1m)



Sound pressure level [dB]
at rated power (1kHz, 1m)



Horizontal opening angle [°]
(1kHz, -6dB)



Horizontal opening angle [°]
(4kHz, -6dB)



Vertical opening angle [°]
(1kHz, -6dB)



Vertical opening angle [°]
(4kHz, -6dB)



High quality music
reproduction (+ is better,
++ is best)

► Specifications active line array



Active Speaker with built-in
amplifier



Digital Signal Processing



Typical throw [m]



Maximum SPL [dB] at typical
throw distance (Continuous)

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The Icons explained

► Specifications active line array



Minimum mounting height
[m] from the floor



Maximum mounting height
[m] from the floor



Variable vertical opening
angle, depending on software
settings

► Installation



Rated voltage



Low impedance audio input



Number of taps (right) and
rated power of lowest tap
[W] (bottom)



Provision for supervision
board mounting



Flush mounting possible



Surface mounting possible



Pendant mounting possible



Wall Cut-out diameter [mm]



Wall Cut-out Sizes [mm]

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The Icons explained

► Installation



Minimum required mounting depth [mm]



Easy Paintable



Material used in loudspeaker:
MDF



Material used in loudspeaker:
Aluminium



Material used in loudspeaker:
Steel



Material used in loudspeaker:
ABS plastic (UL94 V0)



Material used in loudspeaker:
Glass reinforced polyester



Mounting method:
Slider



Mounting method:
Clips



Mounting method:
Springs



Mounting method:
Screws



Mounting method:
Screw driven clamps



Line Input [dBV]
(Vari-directional)

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The Icons explained

► Installation



Failure relay
(Vari-directional)



Control voltage input
(Vari-directional)

► Environment



EN54 certified
A = indoor, B = outdoor



IP rating
(IEC 60529)



Ball Proof
(VDE 0710 part 13)



Mechanical impact
(IK rating, EN 50102)



Salt resistant
(IEC 68-2-11)



Ammonia resistant



Wind-force [Bft]



Chlorine resistant (applications
in swimming pools possible)
(IEC 60068/2-60)



UV Resistant
(IEC 60068-2-5)



Explosion Proof
(ATEX approved)



UL listing
UL 1480G/UL2043

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The Icons explained

► Environment



Recommended for reverberant area's

► Accessoires



Back box



Mounting support bracket



Metal fire dome



ABS grille



Steel grille



Pilot tone indication board



Mounting ring



Surface mounting box



Metal suspension kit



Tile bridge / C-ring



Metal suspension bracket adaptor set

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The Icons explained

► Accessoires



Mounting bracket



Floorstand



Flush mounting box



Surface mounting box



Vari CobraNet module



Vari configuration set



Driver unit



Driver unit



Driver unit

► Configuration Setup



Base: LA3-VARI-B,
LA3-VARI-BH



Extender: LA3-VARI-E

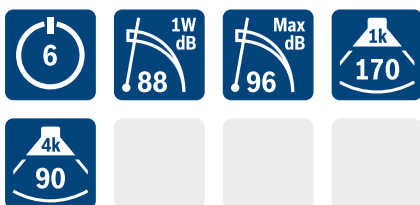
www.boschsecurity.com

LBC 3950/01

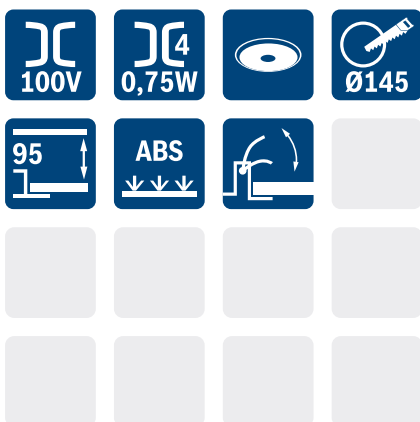
Ceiling Loudspeakers



► Specifications



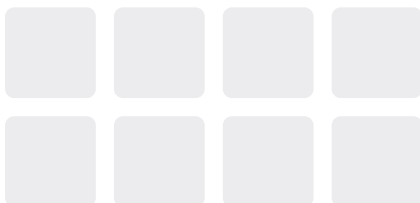
► Installation



► Environment



► Accessories

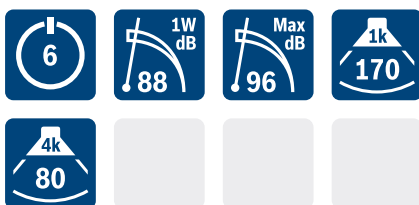


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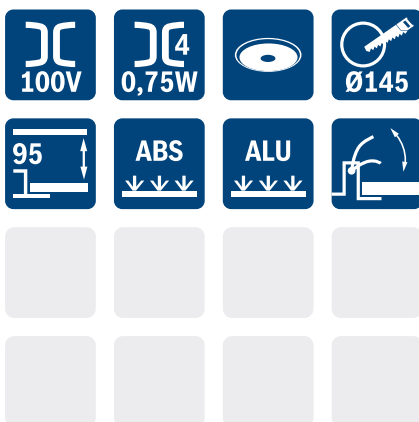
Ceiling Loudspeakers



► Specifications



► Installation



► Environment

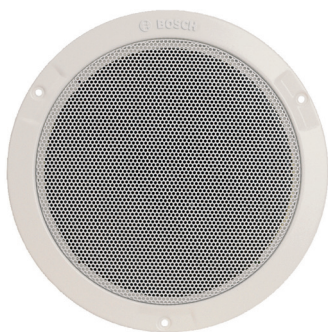


► Accessories

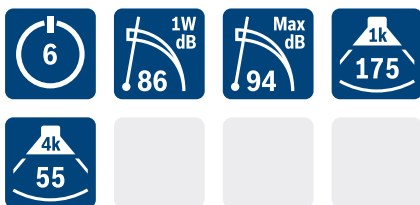


LHM 0606/x0

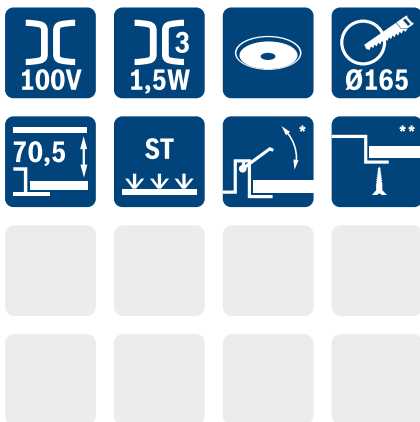
Ceiling Loudspeakers



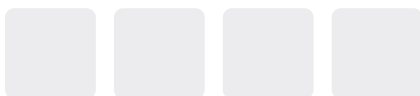
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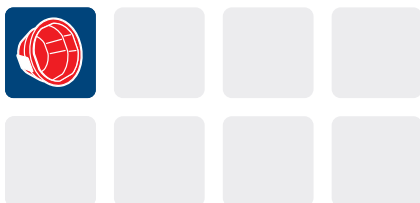
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► Environment



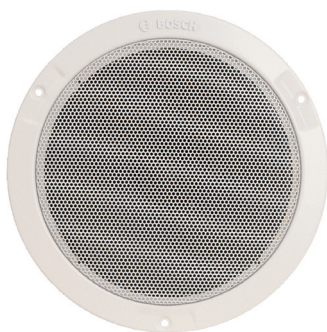
► Accessories



* LHM 0606/10
** LHM 0606/00

LHM 0626/00

Ceiling Loudspeakers



► Specifications

► Installation

► Environment

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► Accessories

LC3-UC06

Ceiling Loudspeakers



► Specifications

► Installation

► Environment

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► Accessories

* The LC3-UC06-LZ has a 4 Ohm connection

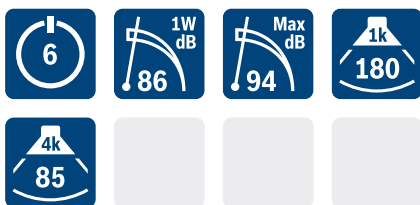
LC3-UC06E

EN54

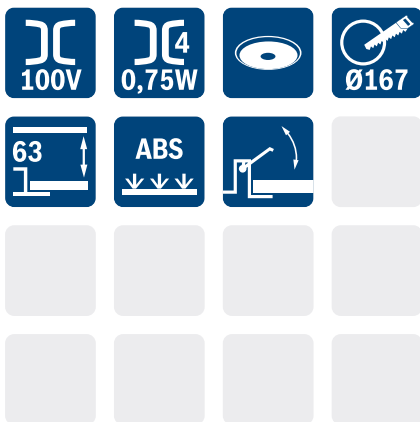
Ceiling Loudspeakers



► Specifications



► Installation



► Environment



► Accessories



* In combination with Back Box LC3-CBB

LC5-WC06E4

EN54

Ceiling Loudspeakers



► Specifications

► Installation

► Environment

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► Accessories

* In combination with Back Box LC5-CBB

LC7-UM06E3-AB

EN54

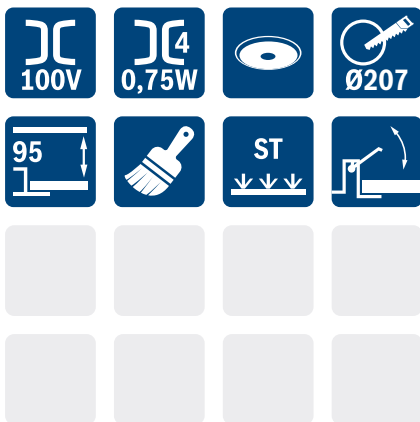
Ceiling Loudspeakers



► Specifications



► Installation



► Environment



► Accessories

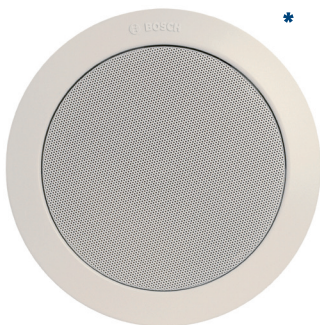


* Two independent loudspeaker systems in one housing
Fire dome included

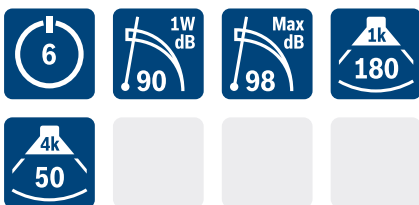
LBC 3086/41

EN54

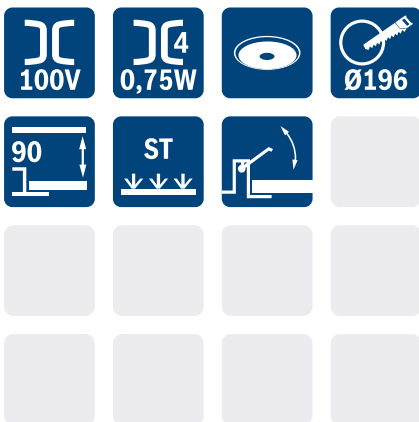
Ceiling Loudspeakers



► Specifications



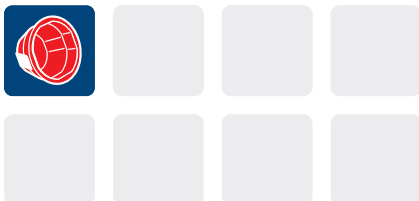
► Installation



► Environment



► Accessories

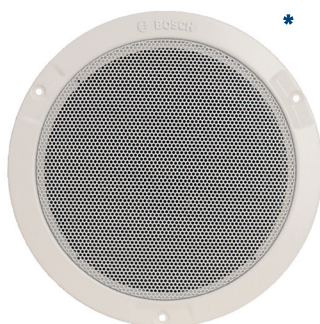


* Only in combination with the LBC 3081/02 Fire dome

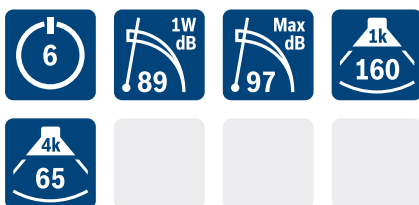
LBC 3087/41

EN54

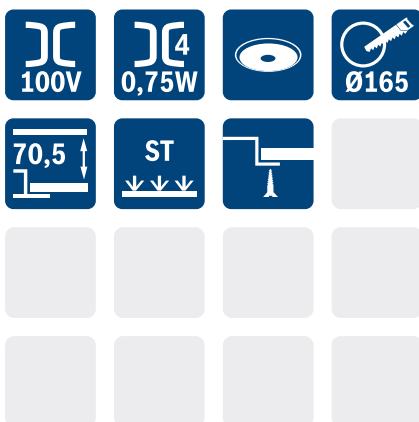
Ceiling Loudspeakers



► Specifications



► Installation



► Environment



► Accessories










* Only in combination with the LBC 3080/x1 Fire dome

LBC 3090/01

















Ceiling Loudspeakers







► Specifications









► Installation

► Environment

			
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► Accessories

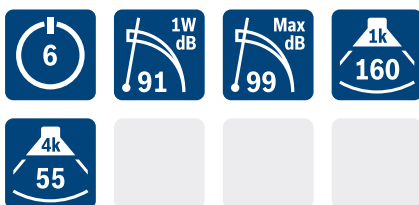
* In combination with Surface Mounting Box LBC3091/01

LBC 3090/31

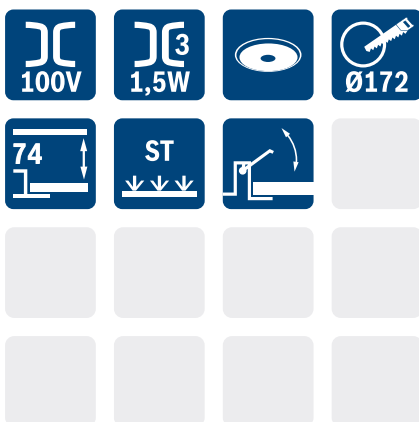
Ceiling Loudspeakers



► Specifications



► Installation



► Environment

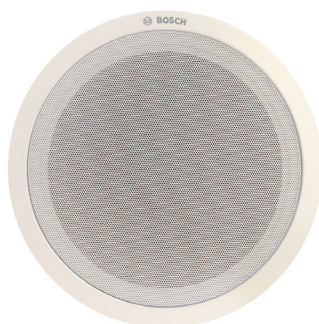


► Accessories

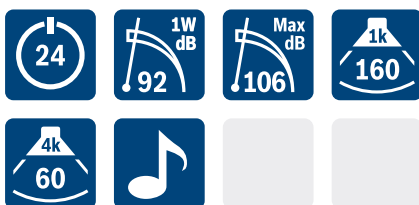


LBC 3099/41

Ceiling Loudspeakers



► Specifications



► Installation



► Environment



► Accessories



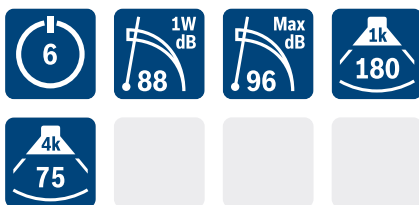
LC1-WC06E8

EN54

Ceiling Loudspeakers



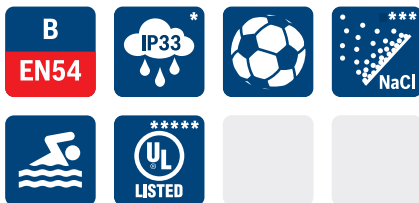
► Specifications



► Installation



► Environment



► Accessories



* In combination with Firedome, Surface Mounting Box or Mounting Ring including Back Box
** To be used with Surface Mounting Box
*** To be used with Mounting Ring
**** In combination with mounting support bracket
***** UL 1480G/UL2043

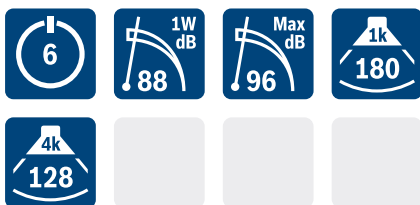
LC1-WM06E8

EN54

Ceiling Loudspeakers



► Specifications



► Installation



► Environment



► Accessories



* In combination with Firedome, Surface Mounting Box or Mounting Ring including Back Box
** To be used with Surface Mounting Box
*** To be used with Mounting Ring
**** In combination with mounting support bracket
***** UL 1480G/UL2043

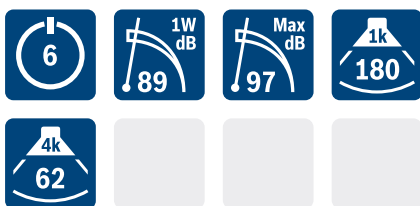
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EN54

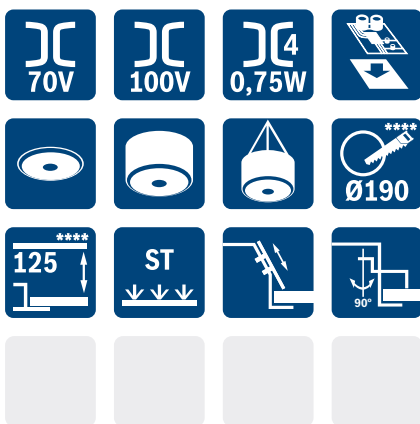
Ceiling Loudspeakers



► Specifications



► Installation



► Environment



► Accessories



* In combination with Firedome, Surface Mounting Box or Mounting Ring including Back Box
** To be used with Surface Mounting Box
*** To be used with Mounting Ring
**** In combination with mounting support bracket
***** UL 1480F/UL2043

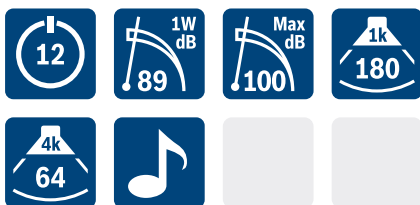
LC1-UM12E8

EN54

Ceiling Loudspeakers



► Specifications



► Installation



► Environment



► Accessories



* In combination with Firedome, Surface Mounting Box or Mounting Ring including Back Box
** To be used with Surface Mounting Box
*** To be used with Mounting Ring
**** In combination with mounting support bracket
***** UL 1480F/UL2043

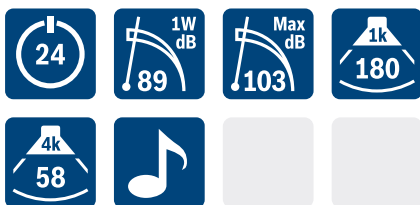
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EN54

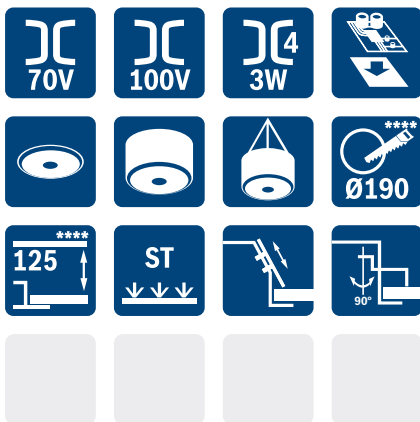
Ceiling Loudspeakers



► Specifications



► Installation



► Environment



► Accessories



* In combination with Firedome, Surface Mounting Box or Mounting Ring including Back Box
** To be used with Surface Mounting Box
*** To be used with Mounting Ring
**** In combination with mounting support bracket
***** UL 1480G/UL2043

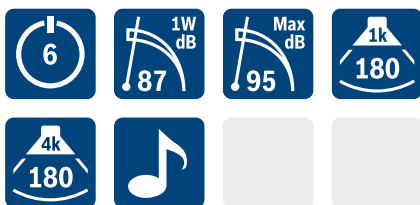
LC4-UC06E

EN54

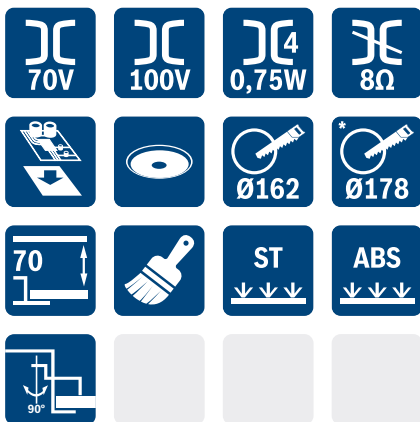
Ceiling Loudspeakers



► Specifications



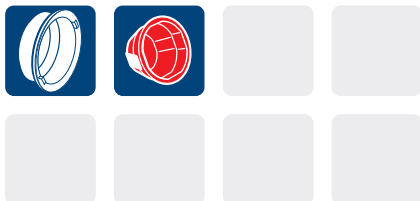
► Installation



► Environment



► Accessories



* With fire dome
** In combination with the backbox LC4-CBB or fire dome LC4-MFD
*** UL 1480F/UL2043

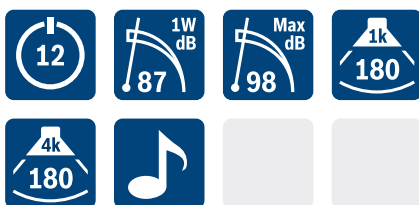
LC4-UC12E

EN54

Ceiling Loudspeakers



► Specifications



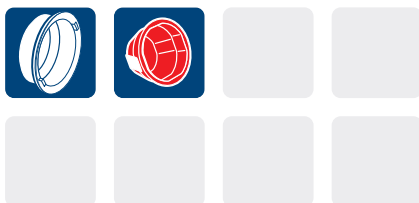
► Installation



► Environment



► Accessories



* With fire dome
** In combination with the backbox LC4-CBB or fire dome LC4-MFD
*** UL 1480F/UL2043

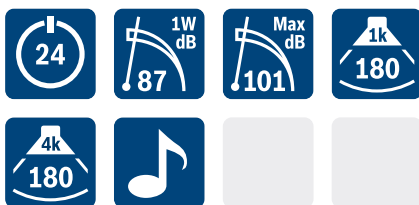
LC4-UC24E

EN54

Ceiling Loudspeakers



► Specifications



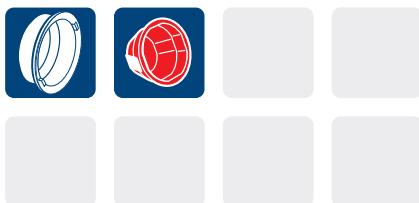
► Installation



► Environment



► Accessories



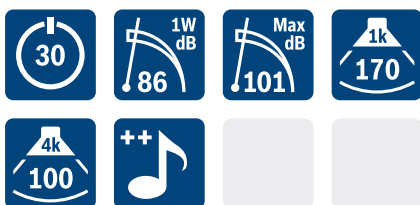
* With fire dome
** In combination with the backbox LC4-CBB or fire dome LC4-MFD
*** UL 1480F/UL2043

LC2-PC30G6-4

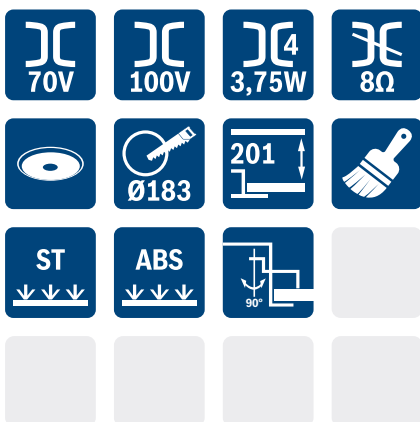
Ceiling Loudspeakers



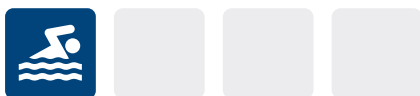
► Specifications



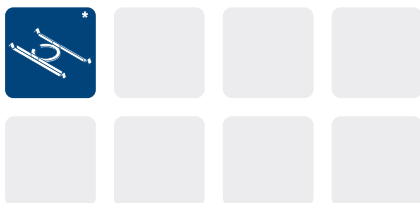
► Installation



► Environment



► Accessories



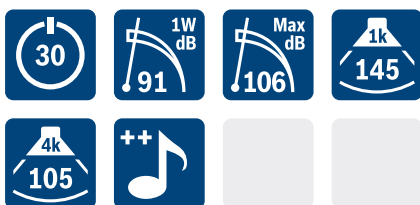
* Delivered with the speaker
Delivered in pairs

LC2-PC30G6-8

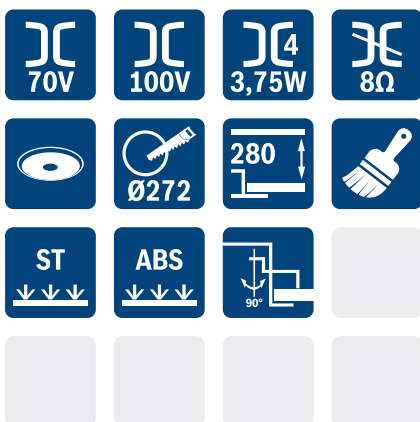
Ceiling Loudspeakers



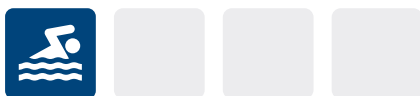
► Specifications



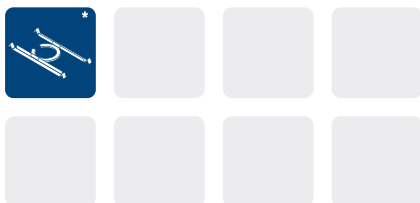
► Installation



► Environment



► Accessories



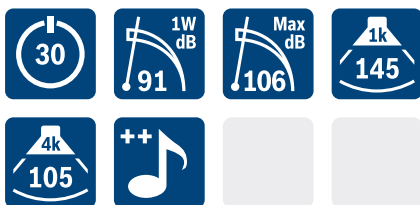
* Delivered with the speaker
Delivered in pairs

LC2-PC30G6-8L

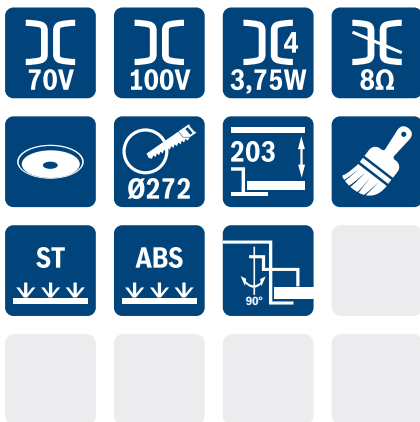
Ceiling Loudspeakers



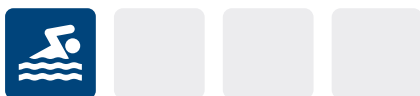
► Specifications



► Installation



► Environment



► Accessories



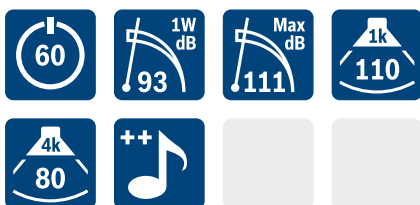
* Delivered with the speaker
Delivered in pairs

LC2-PC60G6-8H

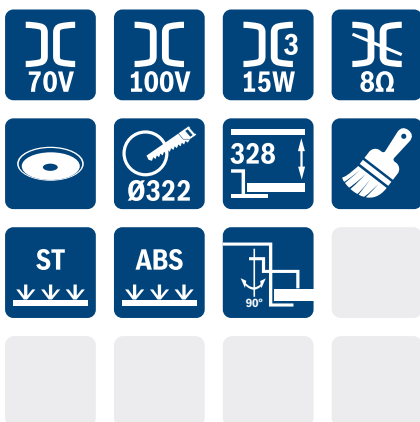
Ceiling Loudspeakers



► Specifications



► Installation



► Environment



► Accessories



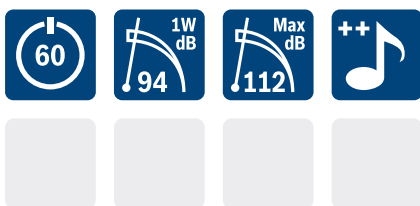
* Delivered with the speaker
Delivered in pairs

LC2-PC60G6-10

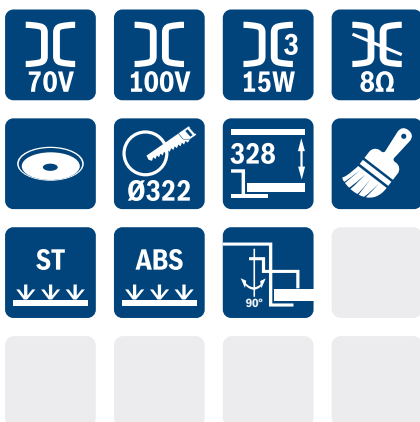
Ceiling Loudspeakers



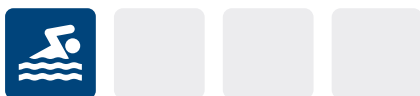
► Specifications



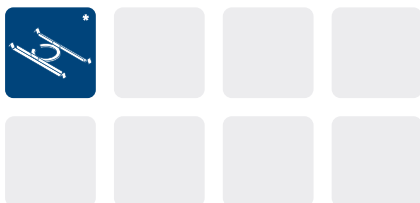
► Installation



► Environment



► Accessories



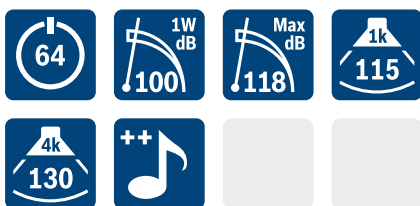
* Delivered with the speaker

LC2-PC60G6-12

Ceiling Loudspeakers



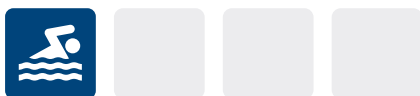
► Specifications



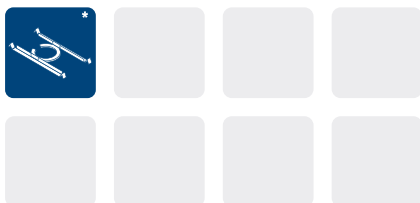
► Installation



► Environment



► Accessories



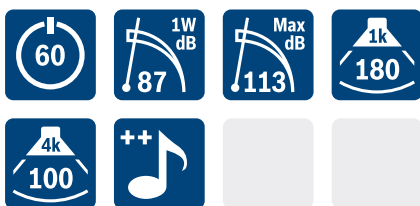
* Delivered with the speaker

LC20-PC60G6-6

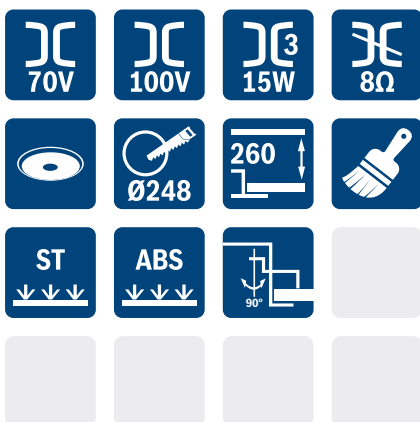
Ceiling Loudspeakers



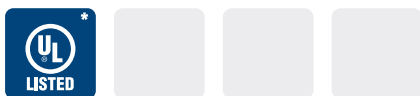
► Specifications



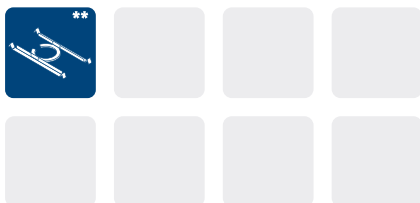
► Installation



► Environment



► Accessories



* UL1480F/UL2043
** Delivered with the speaker
Delivered in pairs

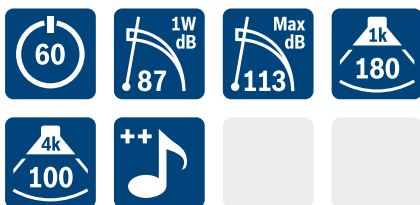
LC20-PC60G6-6E

EN54

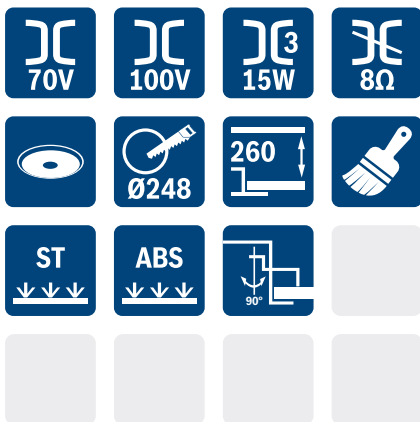
Ceiling Loudspeakers



► Specifications



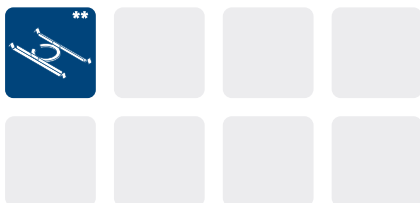
► Installation



► Environment



► Accessories



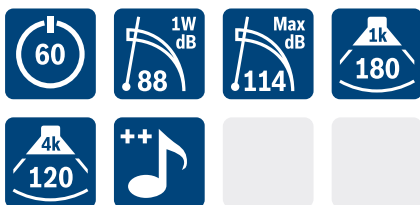
* UL1480F/UL2043
** Delivered with the speaker
Delivered in pairs

LC20-PC60G6-8

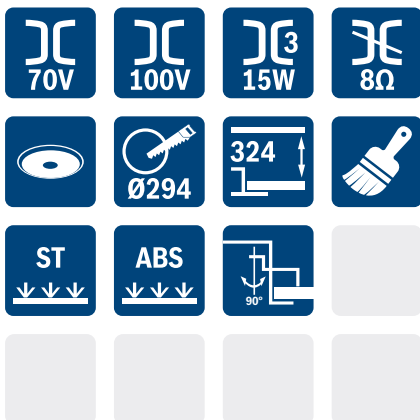
Ceiling Loudspeakers



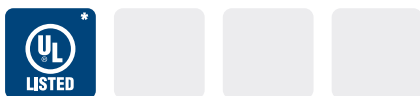
► Specifications



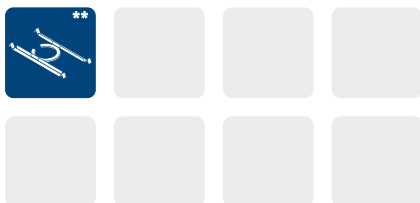
► Installation



► Environment



► Accessories



* UL1480F/UL2043
** Delivered with the speaker
Delivered in pairs

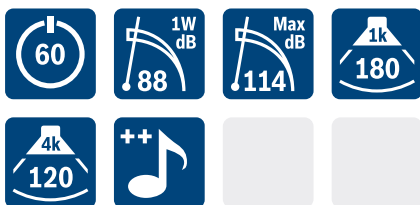
LC20-PC60G6-8E

EN54

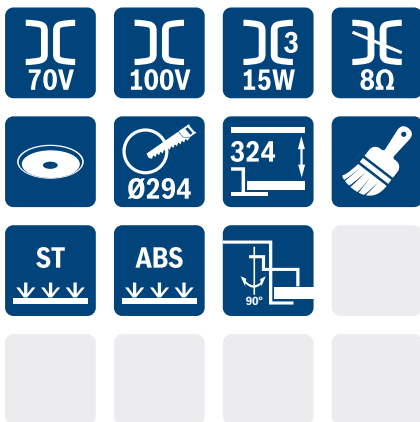
Ceiling Loudspeakers



► Specifications



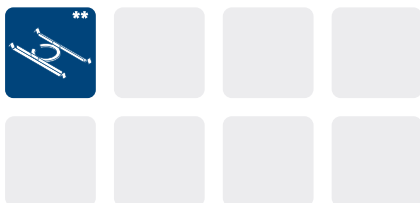
► Installation



► Environment



► Accessories



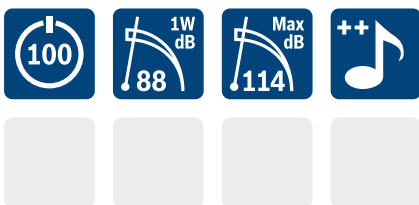
* UL1480F/UL2043
** Delivered with the speaker
Delivered in pairs

LC6-SW100-L

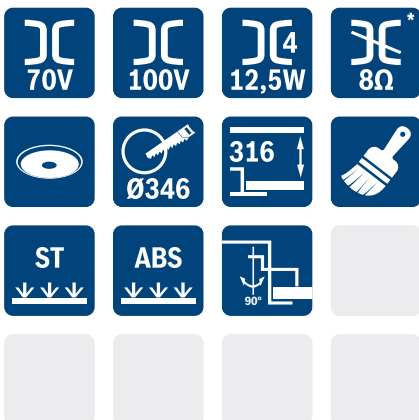
Ceiling Loudspeakers



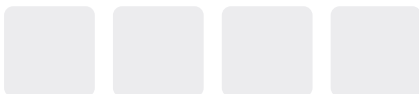
► Specifications



► Installation



► Environment



► Accessories



* 4 ohm
** Delivered with the speaker

LC6-S-L

Ceiling Loudspeakers



► Specifications



► Installation



► Environment



► Accessories



* Satellite speaker for connection to ceiling subwoofer LC6
** 16 ohm
Delivered in pairs

LP6-S-L*

Sound Projectors



► Specifications



► Installation



► Environment



► Accessories



* Satellite speaker for connection to subwoofer cabinet LB6 /ceiling subwoofer LC6

** 16 ohm
Delivered in pairs

LBC 3941/11

Sound Projectors



► Specifications

 6	 1W dB 88	 Max dB 96	 1k 180
 4k 90			

► Installation

 100V	 4 0,75W		 ABS
 ALU			

► Environment

 IP65			
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


► Accessories

LBC 3094/15

















Sound Projectors



► Specifications

► Installation

► Environment

			
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► Accessories

LBC 3095/15

Sound Projectors



► Specifications



► Installation



► Environment



► Accessories



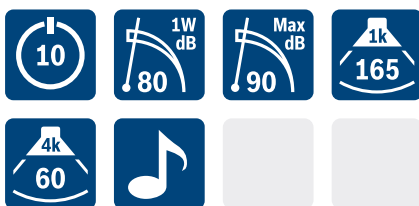
LP1-BC10E-1

EN54

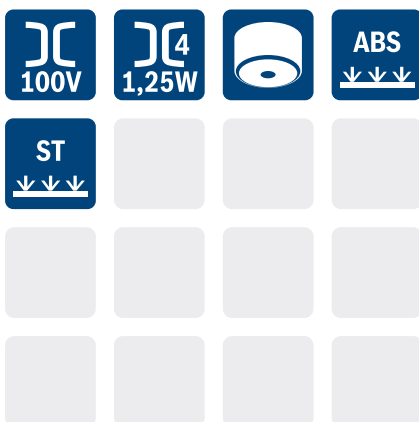
Sound Projectors



► Specifications



► Installation



► Environment



► Accessories



* Bi-Directional

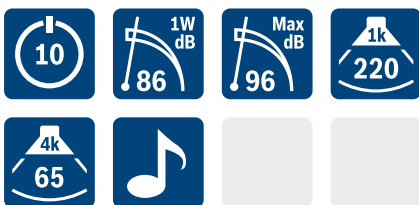
LP1-UC10E-1

EN54

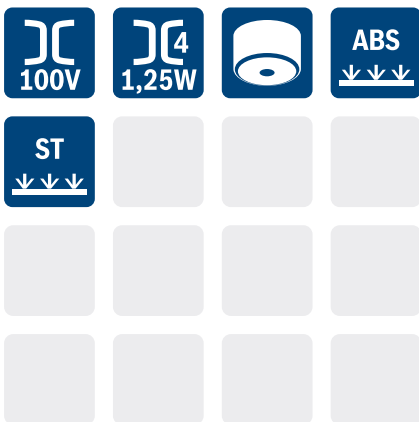
Sound Projectors



► Specifications



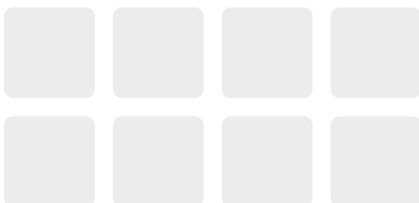
► Installation



► Environment



► Accessories



LP1-UC20E-1

EN54

Sound Projectors



► Specifications

► Installation

► Environment

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► Accessories

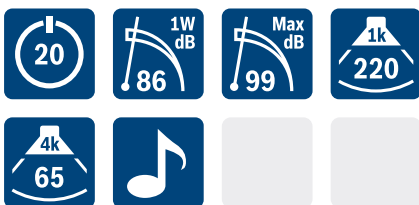
LS1-UC20E-1

EN54

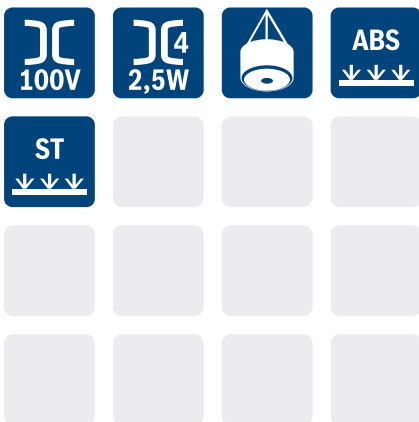
Sound Projectors



► Specifications



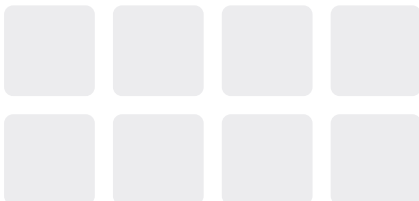
► Installation



► Environment



► Accessories



LBC 3430/03

EN54

Sound Projectors



► Specifications

► Installation

► Environment

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► Accessories

* Bi-Directional









LBC 3432/03

EN54

















Sound Projectors



► Specifications

► Installation

► Environment

			
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► Accessories

LS1-OC100E-1

EN54

Sound Projectors



► Specifications



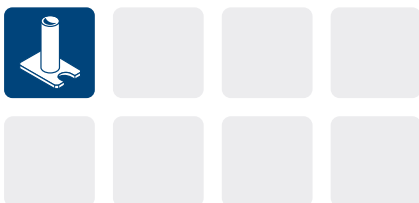
► Installation



► Environment



► Accessories

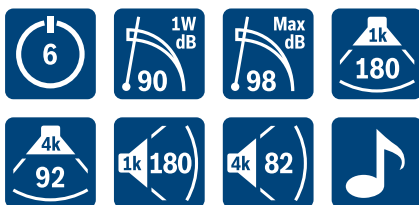


LBC 3011/x1

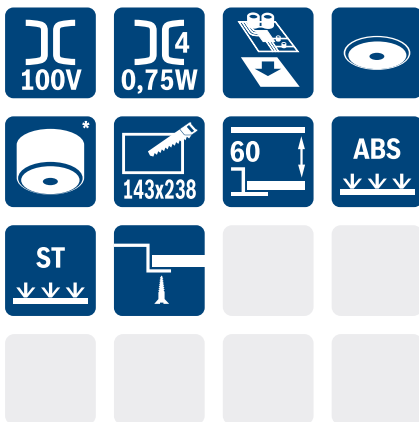
Cabinet Loudspeakers



► Specifications



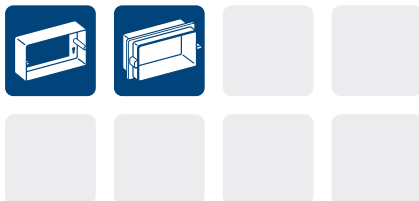
► Installation



► Environment



► Accessories



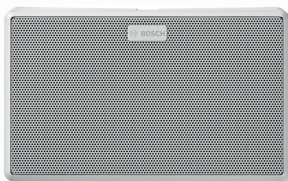
x = 4 (standard) / 5 (with volume control)

* With Surface Mounting Box
LBC3012/01

LB7-UC06E-AB

EN54

Cabinet Loudspeakers

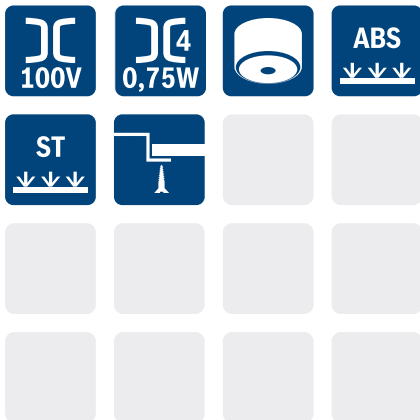


*

► Specifications



► Installation



► Environment



► Accessories

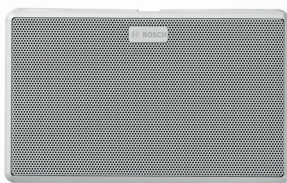


* Two independent loudspeaker systems in one housing

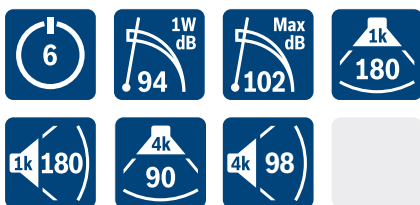
LB7-UC06E

EN54

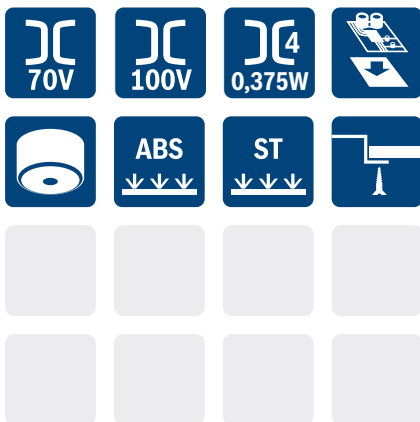
Cabinet Loudspeakers



► Specifications



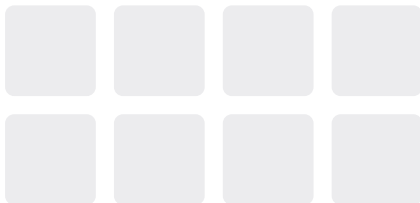
► Installation



► Environment

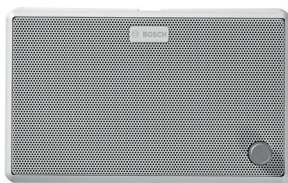


► Accessories

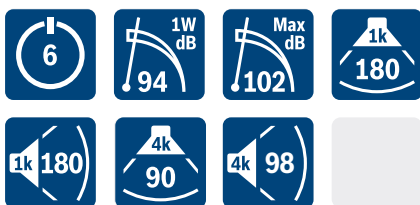


LB7-UC06V

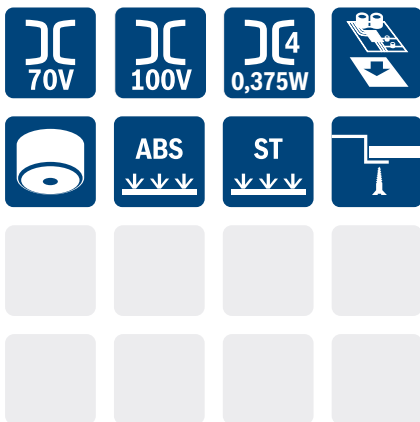
Cabinet Loudspeakers



► Specifications



► Installation



► Environment



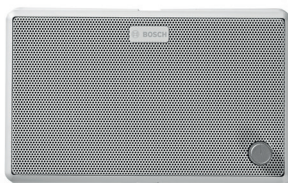
► Accessories



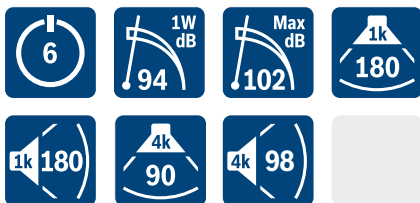
With volume control

LB7-UC06VR

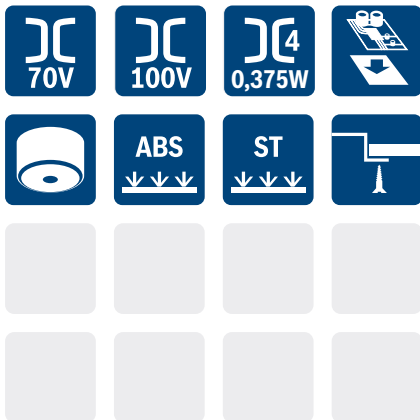
Cabinet Loudspeakers



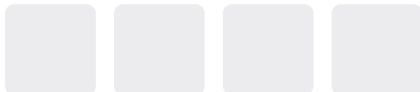
► Specifications



► Installation



► Environment



► Accessories



With volume control and volume override relay

LB1-UM06E-1

EN54

Cabinet Loudspeakers



► Specifications

► Installation

► Environment

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► Accessories

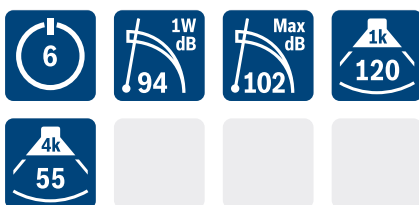
LBC 3018/01

EN54

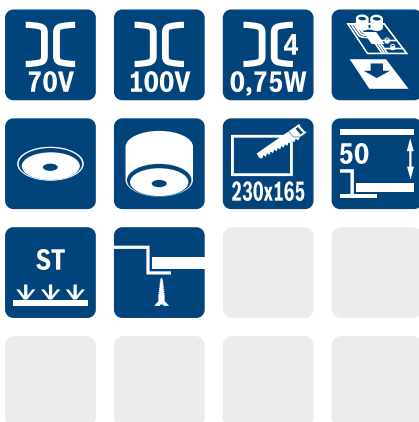
Cabinet Loudspeakers



► Specifications



► Installation



► Environment



► Accessories

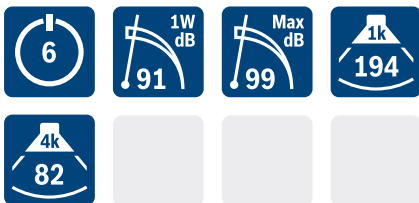


LB1-UW06-Fx1

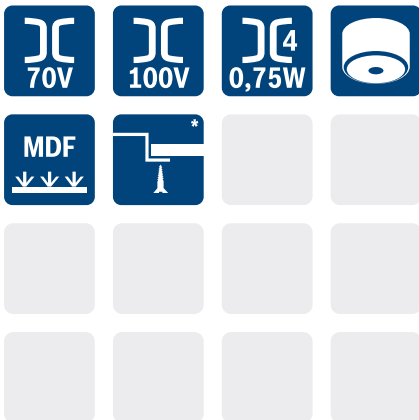
Cabinet Loudspeakers



► Specifications



► Installation



► Environment



► Accessories



x = D (Black) / x = L (White)

* Brackets standard supplied

LB1-UW06y-x1

Cabinet Loudspeakers



► Specifications

► Installation

► Environment

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► Accessories

x = D (Black) / x = L (White),
y = V (with volume control)

LB1-CW06-x1

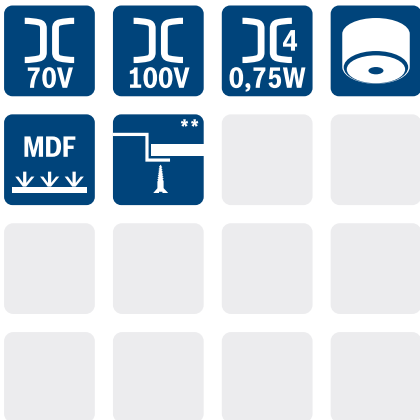
Cabinet Loudspeakers



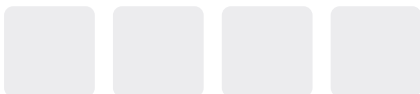
► Specifications



► Installation



► Environment



► Accessories



x = D (Black) / x = L (White)

* Corner mounting

** Brackets standard supplied

LB1-UW12-x1

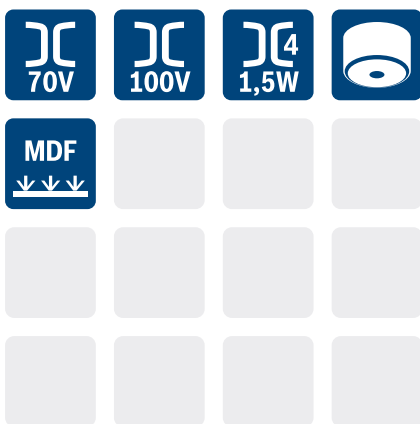
Cabinet Loudspeakers



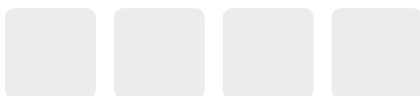
► Specifications



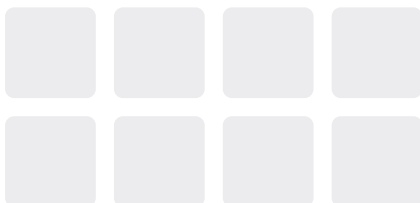
► Installation



► Environment



► Accessories



x = D (Black) / x = L (White)

LB1-BW12-x1

Cabinet Loudspeakers



► Specifications



► Installation



► Environment



► Accessories



x = D (Black) / x = L (White)

* Bi-directional

LB2-UC15-x1

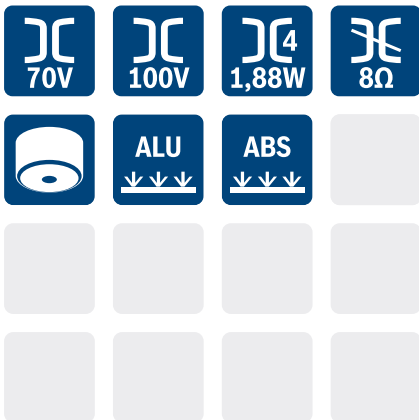
Cabinet Loudspeakers



► Specifications



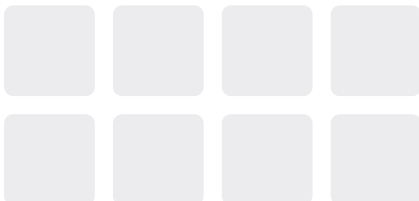
► Installation



► Environment



► Accessories



x = D (Charcoal) / x = L (White)

LB2-UC30-x1

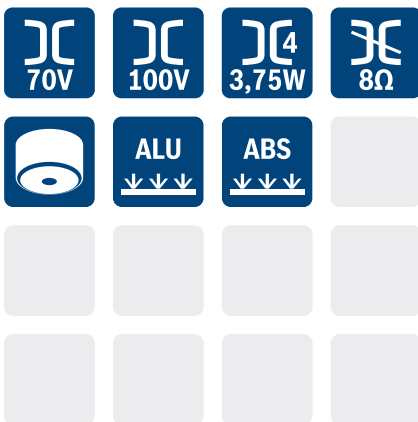
Cabinet Loudspeakers



► Specifications



► Installation



► Environment



► Accessories

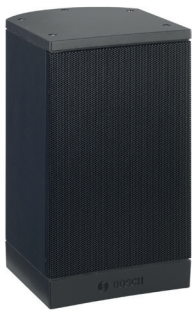


x = D (Charcoal) / x = L (White)

LB1-UM20E-x

EN54

Cabinet Loudspeakers



► Specifications



► Installation



► Environment



► Accessories



x = D (Charcoal) / x = L (White)

LB1-UM50E-x

EN54

Cabinet Loudspeakers



► Specifications



► Installation



► Environment



► Accessories



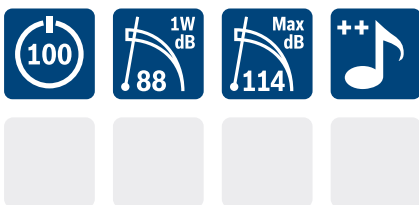
x = D (Charcoal) / x = L (White)

LB6-SW100-x

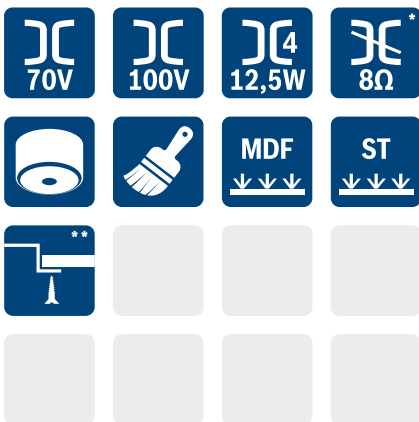
Cabinet Loudspeakers



► Specifications



► Installation



► Environment



► Accessories



x = D (Black) / x = L (White)

* 8 ohm stereo, 4 ohm mono

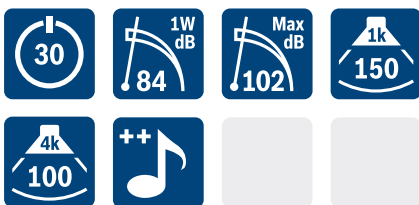
** Bracket standard supplied

LB6-S-x*

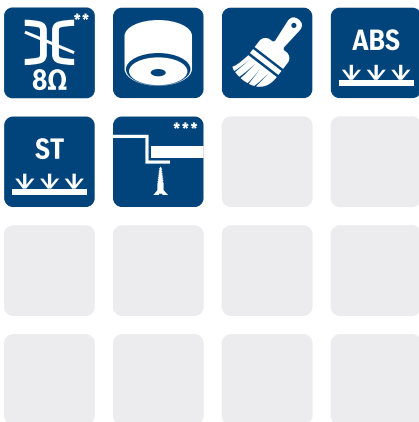
Cabinet Loudspeakers



► Specifications



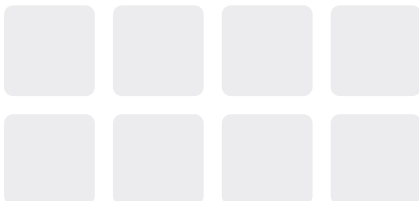
► Installation



► Environment



► Accessories



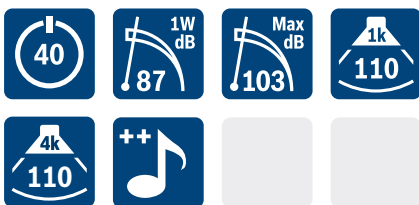
x = D (Black) / x = L (White)
* Satellite speaker for connection to subwoofer cabinet LB6
Delivered in pairs
** 16 ohm
*** Bracket standard supplied

LB20-PC40-4x

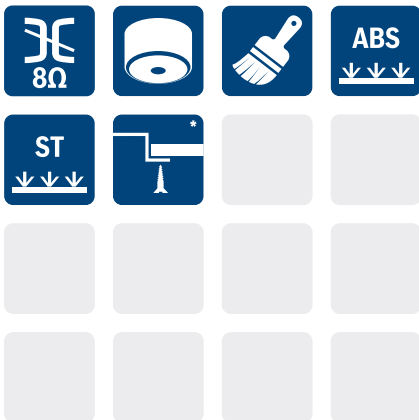
Cabinet Loudspeakers



► Specifications



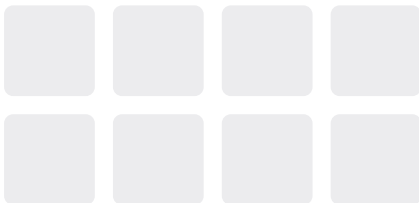
► Installation



► Environment



► Accessories



x = D (Black) / x = L (White)

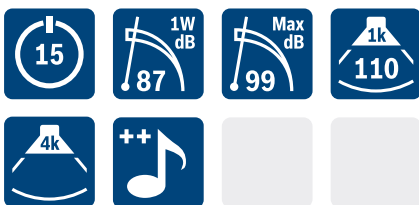
* Bracket standard supplied
Delivered in pairs

LB20-PC15-4x

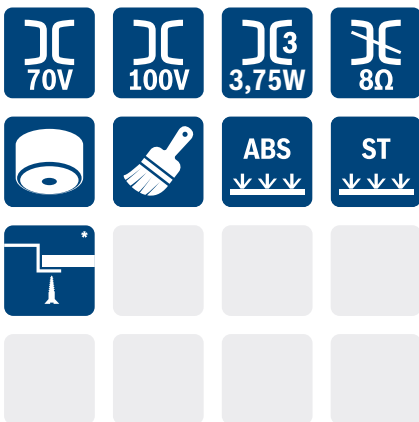
Cabinet Loudspeakers



► Specifications



► Installation



► Environment



► Accessories



x = D (Black) / x = L (White)

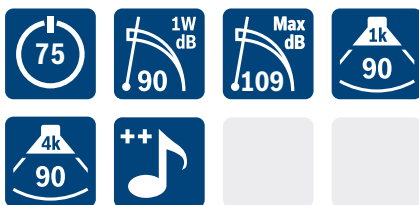
* Bracket standard supplied
Delivered in pairs

LB20-PC75-5x

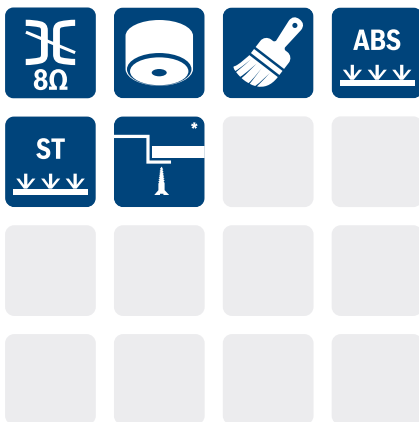
Cabinet Loudspeakers



► Specifications



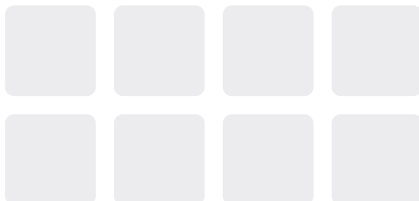
► Installation



► Environment



► Accessories



x = D (Black) / x = L (White)

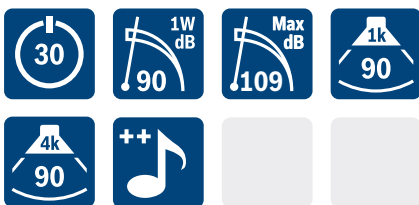
** Bracket standard supplied
Delivered in pairs

LB20-PC30-5x

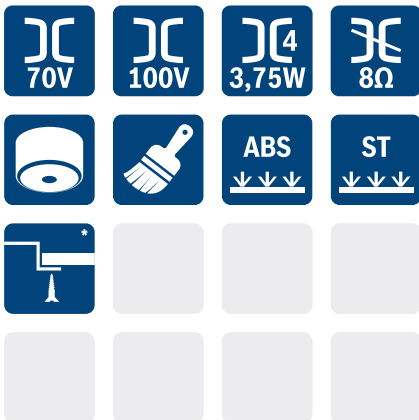
Cabinet Loudspeakers



► Specifications



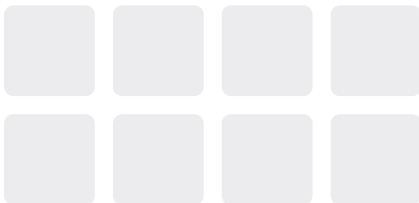
► Installation



► Environment



► Accessories



x = D (Black) / x = L (White)

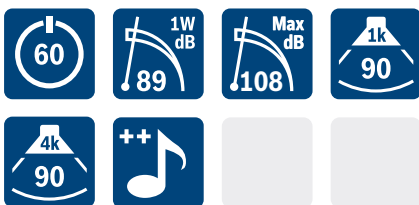
* Bracket standard supplied
Delivered in pairs

LB20-PC60EW-5x

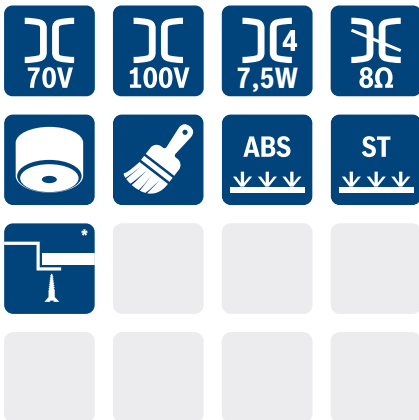
Cabinet Loudspeakers



► Specifications



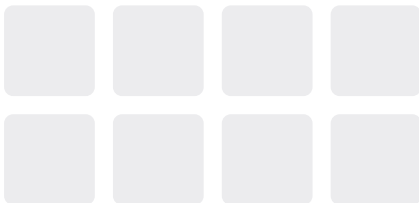
► Installation



► Environment



► Accessories



x = D (Black) / x = L (White)

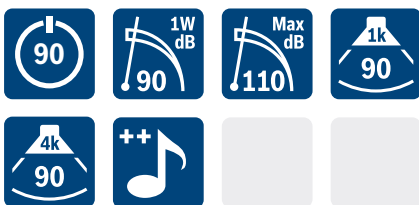
* Bracket standard supplied
Delivered in pairs

LB20-PC90-8x

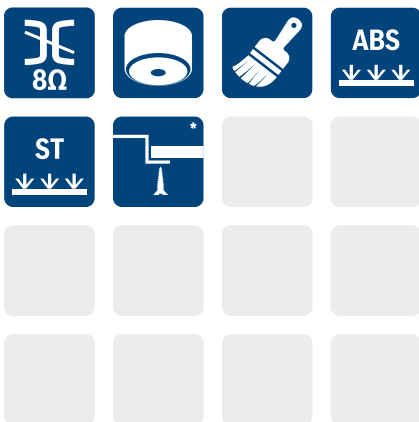
Cabinet Loudspeakers



► Specifications



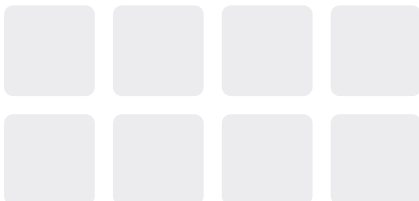
► Installation



► Environment



► Accessories



x = D (Black) / x = L (White)

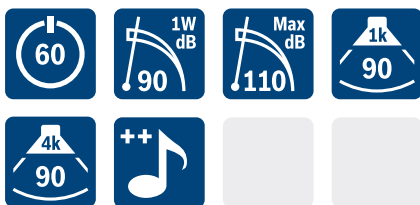
** Bracket standard supplied
Delivered in pairs

LB20-PC60-8x

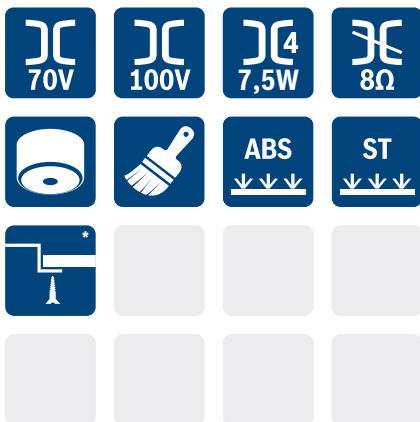
Cabinet Loudspeakers



► Specifications



► Installation



► Environment



► Accessories



x = D (Black) / x = L (White)

** Bracket standard supplied
Delivered in pairs

LB20-SW400-x

Cabinet Loudspeakers



► Specifications



► Installation



► Environment



► Accessories



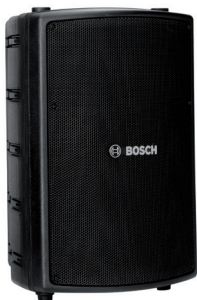
x = D (Black) / x = L (White)

* 8 ohm stereo, 4 ohm mono
** Bracket standard supplied
*** IP65 with port covers

LB3-PC250

EN54

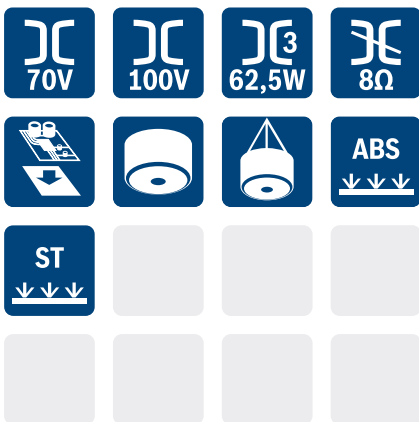
Cabinet Loudspeakers



► Specifications



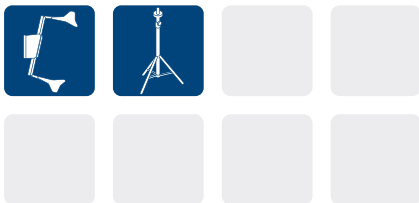
► Installation



► Environment



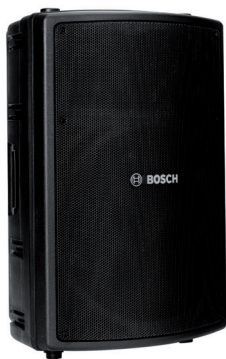
► Accessories



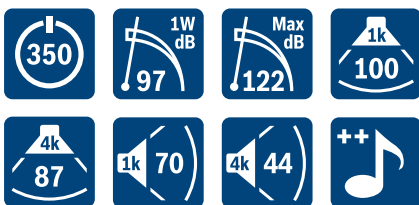
LB3-PC350

EN54

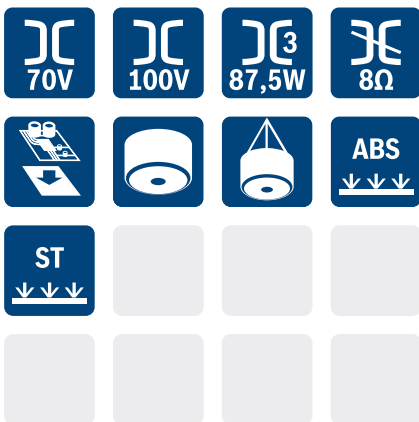
Cabinet Loudspeakers



► Specifications



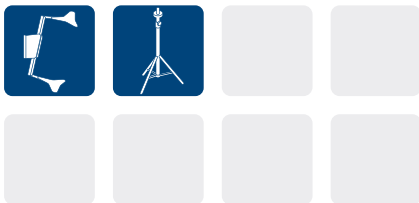
► Installation



► Environment



► Accessories

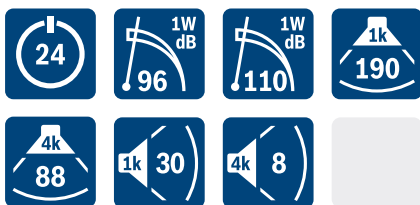


LA1-UW24-x1

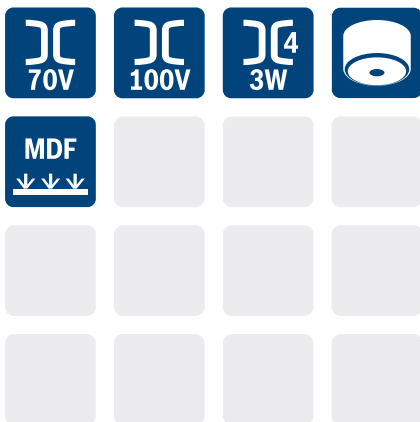
Column Loudspeakers



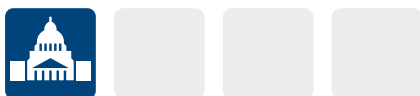
► Specifications



► Installation



► Environment



► Accessories



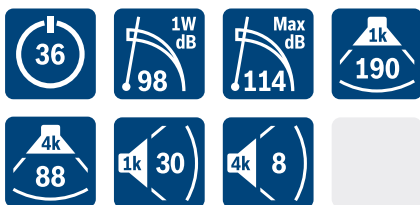
x = D (Black) / x = L (White)

LA1-UW36-x1

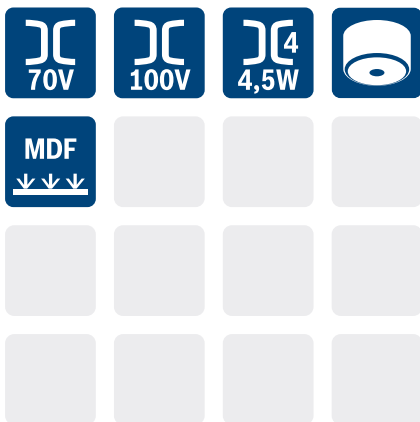
Column Loudspeakers



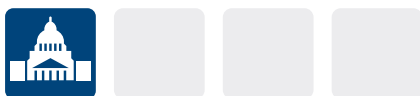
► Specifications



► Installation



► Environment



► Accessories

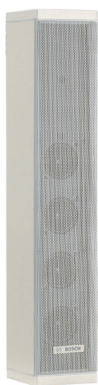


x = D (Black) / x = L (White)

LA1-UM20E-1

EN54

Column Loudspeakers



► Specifications



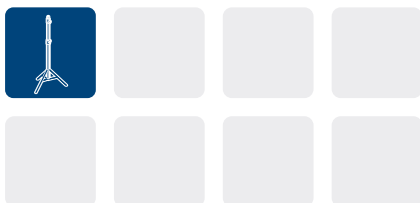
► Installation



► Environment



► Accessories



LA1-UM40E-1

EN54

Column Loudspeakers



► Specifications

► Installation

► Environment

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► Accessories

LBC 3200/00

EN54

Column Loudspeakers



► Specifications



► Installation



► Environment



► Accessories



LBC 3201/00

EN54

Column Loudspeakers



► Specifications



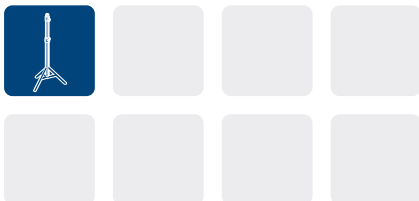
► Installation



► Environment



► Accessories



LBC 3210/00

EN54

Column Loudspeakers



► Specifications



► Installation



► Environment



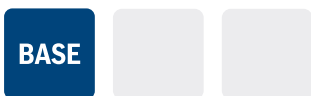
► Accessories



Vari-array B1

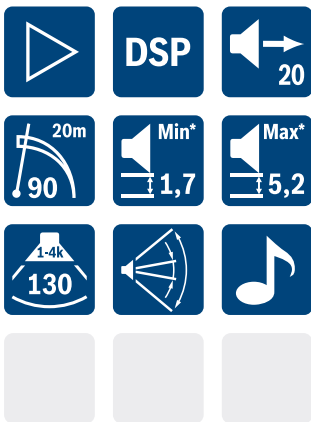
Active Line Array

► Configuration Setup



1 x Base: LA3-VARI-B

► Specifications



► Installation



► Environment



► Accessories

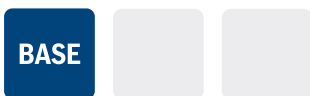


* Assuming standing listening height

Vari-array H1

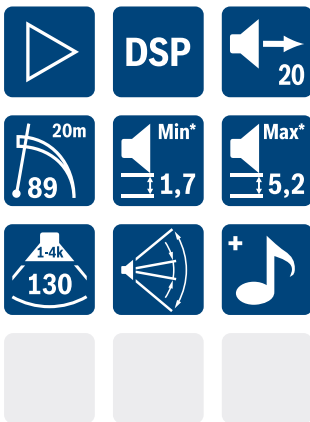
Active Line Array

► Configuration Setup



1 x Base: LA3-VARI-BH

► Specifications



► Installation



► Environment



► Accessories



* Assuming standing listening height

Vari-array B2

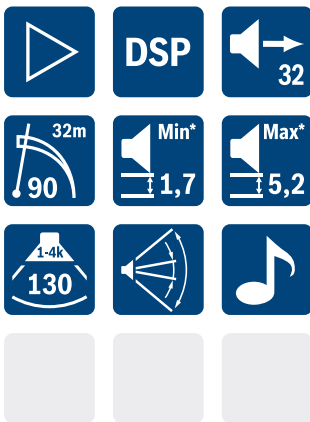
Active Line Array

► Configuration Setup



1 x Base: LA3-VARI-B
1 x Extender: LA3-VARI-E

► Specifications



► Installation



► Environment



► Accessories



* Assuming standing listening height

Vari-array H2

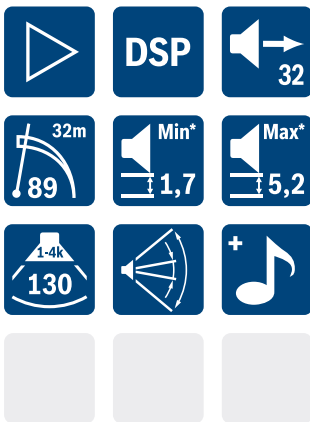
Active Line Array

► Configuration Setup



1 x Base: LA3-VARI-BH
1 x Extender: LA3-VARI-E

► Specifications



► Installation



► Environment



► Accessories



* Assuming standing listening height

Vari-array B3

Active Line Array

► Configuration Setup

BASE

EXT

EXT

1 x Base: LA3-VARI-B

2 x Extender: LA3-VARI-E

► Specifications



DSP



► Installation



► Environment



► Accessories



* Assuming standing listening height

Vari-array H3

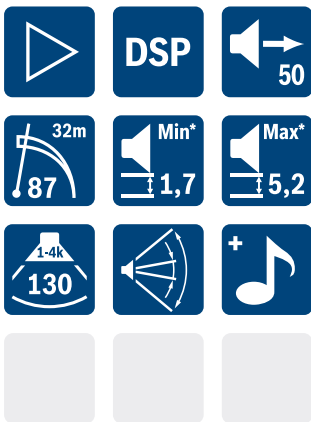
Active Line Array

► Configuration Setup



1 x Base: LA3-VARI-BH
2 x Extender: LA3-VARI-E

► Specifications



► Installation



► Environment



► Accessories



* Assuming standing listening height

LBC 3470/00

Horn Loudspeakers



► Specifications

15	1W dB 103	Max dB 115	1k 130
4k 50			

► Installation

100V	3 3,75W	Screws and mounting plate	Loudspeaker component
Paintbrush	ABS ↓ ↓ ↓		

► Environment

IP65			
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► Accessories

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LBC 3481/12

Horn Loudspeakers



► Specifications

► Installation

► Environment

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► Accessories

LBC 3491/12

Horn Loudspeakers



► Specifications

10	1W dB 108	Max dB 118	1k 90
4k 40	1k 130	4k 45	

► Installation

100V	3 2,5W	Paint can	Paintbrush
ALU ↓↓↓	ABS ↓↓↓		

► Environment

IP65			
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










► Accessories

LBC 3492/12

Horn Loudspeakers



► Specifications









► Installation

► Environment

			
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► Accessories

















			
			

LBC 3493/12

Horn Loudspeakers



► Specifications









► Installation

► Environment

			
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► Accessories

LH1-10M10E

EN54

Horn Loudspeakers



► Specifications

10	1W dB 102	Max dB 112	1k 120
4k 35	1k 125	4k 35	

► Installation

100V	4 1,25W	Screws and mounting plate	Loudspeaker
Paintbrush	ALU ↓ ↓ ↓	ABS ↓ ↓ ↓	

► Environment

B EN54	IP65 ↓ ↓ ↓	11	
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► Accessories

















LBC 3482/00

EN54









Horn Loudspeakers



► Specifications









► Installation

► Environment

			
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► Accessories

















LBC 3483/00

EN54









Horn Loudspeakers



► Specifications








► Installation

► Environment

			
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► Accessories

















			
			

LBC 3484/00

Horn Loudspeakers



► Specifications









► Installation

► Environment

			
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► Accessories

LBC 3472/00 with LBC 3478/00

Horn Loudspeakers



► Specifications

► Installation

► Environment

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► Accessories

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* Note: MOQ = 6 pieces

LBC 3473/00 with LBC 3479/00 Horn Loudspeakers



► Specifications

► Installation

► Environment

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► Accessories

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* Note: MOQ = 6 pieces

LBC 3474/00 with LBC 3479/00 Horn Loudspeakers



► Specifications

► Installation

► Environment

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► Accessories

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* Note: MOQ = 6 pieces

LH2-UC06

Horn Loudspeakers



► Specifications

 6	 1W dB 97	 Max dB 105	 1k 360
 4k 60			

► Installation

 70V	 100V	 0,75W	
	 Ø110	 140	
 ABS			

► Environment

 IP67	 NaCl	 11	
 UV			

► Accessories

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EN60945 certified

LH2-UC15E

EN54

Horn Loudspeakers



► Specifications

► Installation

► Environment

► Accessories

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EN60945 certified

LH1-UC30E

EN54

Horn Loudspeakers



► Specifications

► Installation

► Environment

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► Accessories

* Not supported by CSP tool

LBC 3403/16




Horn Loudspeakers



► Specifications

LBN 9000*	LBN 9001*	LBN 9003*	1k 90
15	30	50	4k 30
1W dB 109	1W dB 110	1W dB 110	
Max dB 121	Max dB 125	Max dB 127	

► Installation

LBN 9000*	LBN 9001*	LBN 9003*	100V
4 5W	4 10W	4 30W	ST ↓ ↓ ↓
			ABS ↓ ↓ ↓

► Environment

IP65	UV		
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► Accessories

			
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* Type number of applied driver unit

LBC 3404/16




Horn Loudspeakers



► Specifications

LBN 9000*	LBN 9001*	LBN 9003*	1k 70
15	30	50	4k 25
1W dB 112	1W dB 113	1W dB 113	
Max dB 124	Max dB 128	Max dB 130	

► Installation

LBN 9000*	LBN 9001*	LBN 9003*	100V
4 5W	4 10W	4 30W	ST ↓↓↓
			ABS ↓↓↓

► Environment

IP65	UV		
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► Accessories

			
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* Type number of applied driver unit

LBC 3405/16

Horn Loudspeakers



► Specifications

LBN 9000*	LBN 9001*	LBN 9003*	1k 60
15	30	50	4k 35
1W dB 113	1W dB 114	1W dB 115	
Max dB 125	Max dB 129	Max dB 132	

► Installation

LBN 9000*	LBN 9001*	LBN 9003*	100V
4 5W	4 10W	4 30W	ST ↓↓↓
			ABS ↓↓↓

► Environment

IP65	UV		
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► Accessories

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* Type number of applied driver unit

LBC 3406/16




Horn Loudspeakers



► Specifications

LBN 9000*	LBN 9001*	LBN 9003*	1k 100
15	30	50	4k 35
1W dB 110	1W dB 112	1W dB 112	1k 65
Max dB 122	Max dB 127	Max dB 129	4k 30

► Installation

LBN 9000*	LBN 9001*	LBN 9003*	100V
4 5W	4 10W	4 30W	ST ↓ ↓ ↓
			ABS ↓ ↓ ↓

► Environment

IP65	UV		
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► Accessories

			
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* Type number of applied driver unit

LH3-UC25XS

Horn Loudspeakers



► Specifications

► Installation

► Environment

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► Accessories

LH3-UC25XL

Horn Loudspeakers



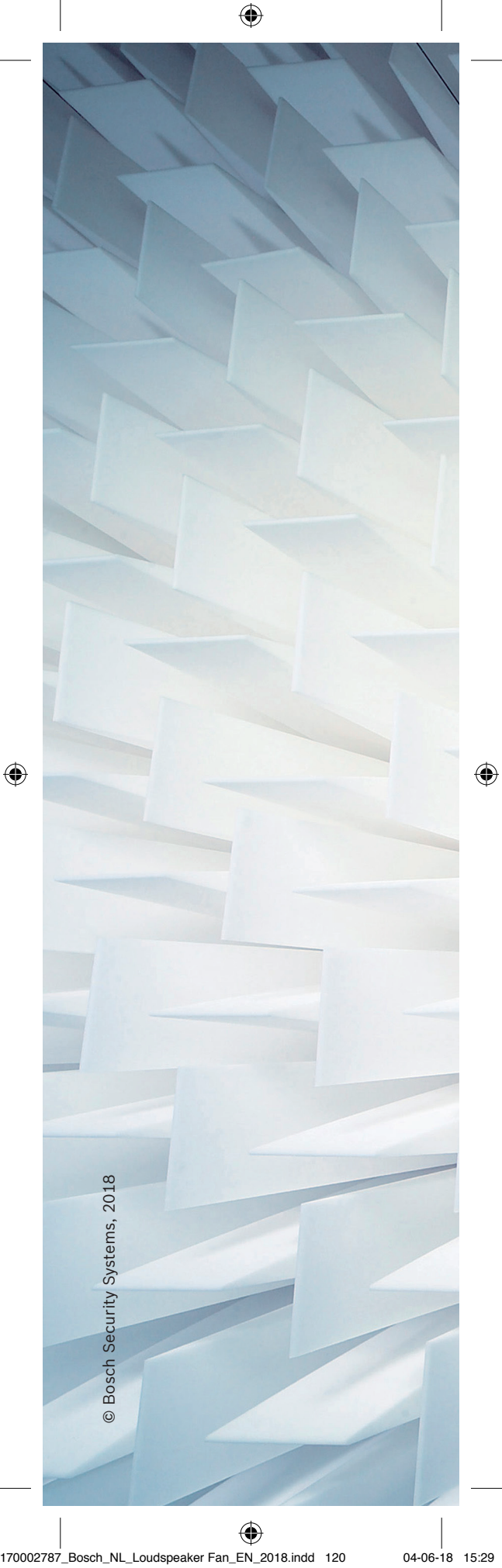
► Specifications

► Installation

► Environment

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► Accessories



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