

LS1-UC20E Pendant Sphere Loudspeaker



Security Systems



- Superb speech and music reproduction
- Wide sound spread
- Ease of installation
- Modern unobtrusive styling
- Tough, impact-resistant enclosure
- 5 m connection cable
- Provision for optional safety cord
- Water and dust protected to IP 65
- BS 5839 part 8 compliant

Sound spheres are pendant sound projectors designed to be suspended from the ceiling via their connecting cables. Their excellent sound spread makes them ideal for use in buildings with high ceilings such as hypermarkets and superstores. The pleasing shape and neutral colors make the pendant sphere models interesting architectural features in their own right.

The Bosch LS1-UC20E is a powerful 20 W Pendant Sphere loudspeaker, intended for high-quality speech and music reproduction in a wide range of in – and outdoor applications. They are not recommended for use in windy environments. The pendant sphere is made from high-impact self-extinguishing ABS acc. to class UL 94 V 0, finished in off-white.

Functions

Voice Alarm Loudspeaker

Voice alarm loudspeakers are specifically designed for use in buildings where performance of systems for verbal communication announcements is governed by regulations. The LS1-UC20E is designed for use in voice alarm systems and is compliant with British Standard BS 5839 part 8.

The loudspeaker has built-in protection to ensure that, in the event of a fire, damage to the loudspeaker does not result in failure of the circuit to which it is connected. In this way, system integrity is maintained, ensuring loudspeakers in other areas can still be used to inform people of the situation. The loudspeaker is supplied with a ceramic terminal block and thermal fuse.

Superb Sound Quality

The use of a high quality driver in combination with advanced filtering, have resulted in a very natural sound reproduction with excellent bass response.

BOSCH

Parts Included

| Quantity | Component |
|----------|--------------------------------------|
| 1 | LS1-UC20E Pendant Sphere Loudspeaker |

Certifications and Approvals

Quality Assurance

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.

Safety Aspects

In common with all Bosch products, care is taken to meet high safety standards. All ABS parts are self-extinguishing (according to UL 94 V 0) This sound projector complies with the relevant safety and installation regulations of EN 60065.

| | |
|--------------------------|-------------------------|
| Water-and Dust Protected | acc. to IEC 60529 IP 65 |
|--------------------------|-------------------------|

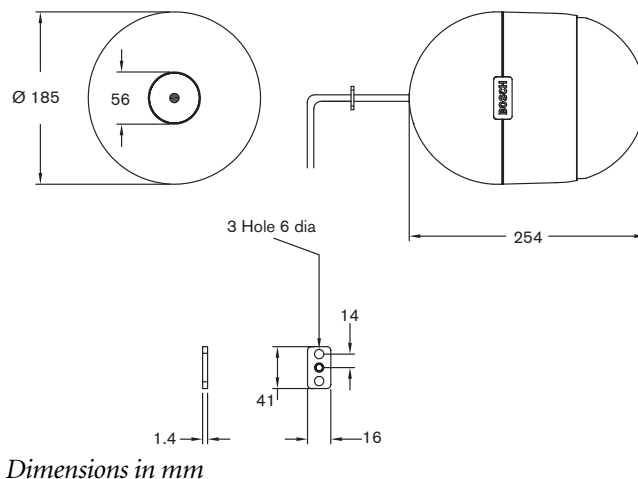
Installation/Configuration Notes

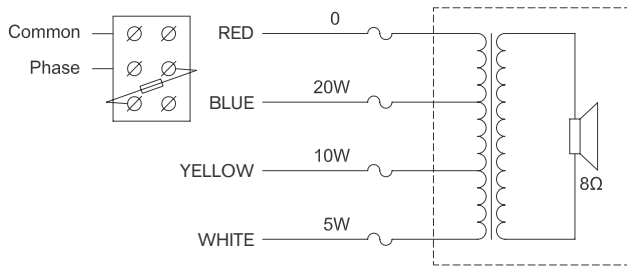
Mounting

The loudspeaker is suspended from the ceiling via its 5 m , 4-core connecting cable, which can easy to shorten for desired height. For optional safety, provision is made to attach a steel safety cord if required.

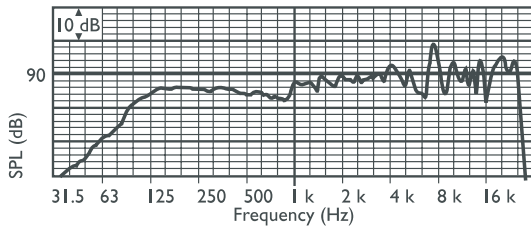
Power Setting

The loudspeaker is supplied with a 5 m color coded four-core connecting cable with each color connected to a different primary tap on the 100 V matching transformer. This allows nominal full-power, half-power or quarter-power radiation to be selected (i.e. in 3 dB steps).

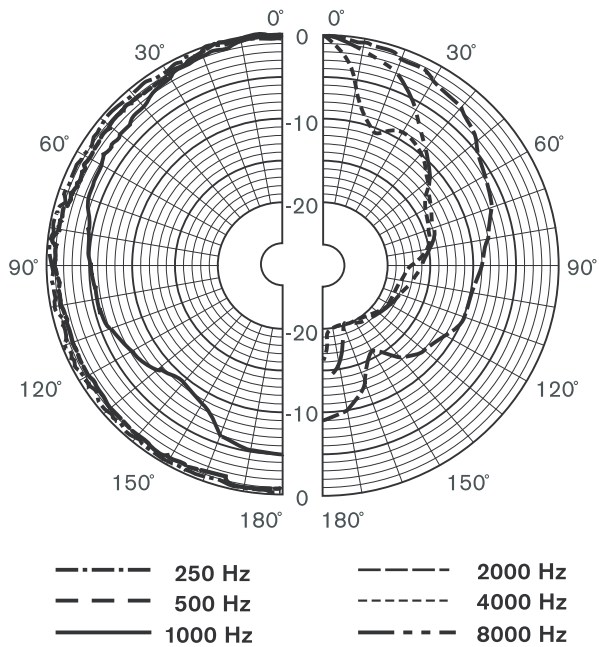




Circuit diagram



Frequency response



Polar diagram (measured with pink noise)

Technical Specifications
Electrical*

| | |
|--|---------------------|
| Maximum Power | 30 W |
| Rated Power | 20 W (20-10-5 W) |
| Sound Pressure Level at 20 W / 1 W (at 1 kHz, 1 m) | 99 dB / 86 dB (SPL) |
| Opening Angle (at 1 kHz / 4 kHz, -6 dB) | 220° / 65° |
| Effective Frequency Range (-10 dB) | 80 Hz to 20 kHz |
| Rated Input Voltage | 100 V |
| Rated Impedance | 500 ohm |

Mechanical

| | |
|-----------------------|------------------------------|
| Connection | 3-pole screw terminal block |
| Material | ABS |
| Dimensions (dia. x L) | 185 x 254 mm (7.3 x 10 inch) |
| Color | White (RAL 9010) |
| Weight | 3 kg (6.6 lb) |

Environmental

| | |
|---------------------|------------------|
| Ambient Temperature | -25 °C to +55 °C |
|---------------------|------------------|

*) Technical performance data acc. to IEC 60268-5

Ordering Information

Model & Description
LS1-UC20E Pendant Sphere Loudspeaker
20 W, to suspend from the ceiling

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