

## TECHNICAL DATA

# FreeSpace FS4SE

## surface-mount loudspeaker

**BOSE****PROFESSIONAL**

### Product Overview

FreeSpace FS loudspeakers are the next step of our widely trusted line of in-ceiling and surface-mount loudspeakers, offering significant upgrades in durability, design, and ease of installation — all with remarkably consistent tonality. Engineered for high-quality performance in both background music and voice announcement applications, FS loudspeakers are ideal for almost any commercial space. The line includes five loudspeakers, two distinct levels of sound, new mounting options, and a modern aesthetic to match. For those seeking consistent, quality installed sound, FreeSpace FS loudspeakers are the perfect mix of performance and value.

The FS4SE is an in-ceiling model with a full-range 4.5-inch transducer, low frequency range down to 70 Hz, and sensitivity of 89 dB SPL / 1W @ 1m.



### Key Features

**Maintain consistent tonal quality** with shared voicing across all FS models

**Hear the best of both — music and voice —** with transducers that offer clear voice reproduction and smooth response for background music

**Customize systems with confidence** using in-ceiling, surface-mount, and pendant-mount options, allowing for tailored mix-and-match installations. DesignMax subwoofers and larger models can expand your system design options even further

**Blend with more room designs** with updated enclosures — available in black and white — that pair modern aesthetics with practical features, including removable logos

**Tackle site-specific challenges** with the support of a full suite of accessories, designed to handle a wide range of applications and mounting options

**Install with ease —** all models feature Euroblock inputs and front-baffle input location on in-ceiling models

**Support public safety —** EN54-24 for Voice Alarm Systems for Fire Detection and Fire Alarm Systems for Buildings. UL 1480 UUMW listed for use in fire alarm and signaling systems in life safety applications

**Bring quality sound to more places** with the FS4SE — rated for outdoor, wet installations

### Technical Specifications

| SINGLE LOUDSPEAKER PERFORMANCE              |  |   |
|---|--|---|
| Frequency Response (-3 dB) <sup>(1)</sup>   | 80 - 16,000 Hz   |   |
| Frequency Range (-10 dB) <sup>(1)</sup>     | 70 - 17,000 Hz   |   |
| Nominal Coverage Angle (H × V) (1 - 4 kHz)  | 130° × 125°  |   |
| Nominal Coverage (H × V) (1 - 10 kHz)       | 105° × 100°  |   |
|   | AES transducer test <sup>(5)</sup>                                 | Bose extended-lifecycle test <sup>(4)</sup> |
| Power Handling, (SPL, 1 W @ 1 m)            | 50 W   | 40 W  |
| Power Handling, Peak                        | 200 W  | 160 W                                       |
| Sensitivity (SPL, 1 W @ 1 m) <sup>(2)</sup> | 89 dB  | 89 dB                                       |
| Calculated Maximum SPL @ 1 m <sup>(3)</sup> | 106 dB   | 105 dB                                      |
| Calculated Maximum SPL @ 1 m, Peak          | 112 dB   | 111 dB                                      |
| Loudspeaker EQ                              | Not required, Bose EQ voicing and SmartBass available              |   |
| Recommended High-Pass Protection            | 70 Hz with minimum 24-dB/octave filter                             |   |
| Transformer Taps                            | 70V: 2.5, 5, 10, 20, 40 W, bypass<br>100V: 5, 10, 20, 40 W, bypass |   |
| TRANSDUCERS                                 |  |   |
| Full-Range Driver                           | 1 × 4.5-inch woofer (114 mm)                                       |   |
| Nominal Impedance                           | 8 ohms (transformer bypass)  |   |

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## surface-mount loudspeaker

| <b>PHYSICAL</b>  |   |
|--|---|
| Enclosure Material                                       | Engineered plastics, highly UV fade-resistant   |
| Bracket Material   | Powder-coated steel   |
| Grille   | Perforated steel, powder-coated finish, tamper-resistant design   |
| Logo   | Rotatable, removable  |
| Color  | Black: similar to Ral 9005, White: similar to Ral 9003  |
| Environmental/Ingress Protection <sup>(6)</sup>          | Rated for direct-exposure outdoor installations (IP55 per EN60529; IP33C per EN54-24). Suitable for use outdoors in wet locations. Includes weather-resistant input cover. Optional accessory aluminum grille for harsh environments to prevent red corrosion is available.                     |
| Safety Agency  | Certification: EN54-24:2008 for Voice Alarm Systems, UL 1480 UUMW, CAN/ULC-S541 UUMW7 for Speakers for Fire Alarm and Signaling Systems. Installation: NFPA 70, NFPA 72, CSA C22.1 Section 32<br>For EN54-24 specifications, Refer to FS4SE EN 54-24 Certified Ratings document on pro.bose.com |
| Operating Temperature Range                              | -25 °C to 70 °C (-13 °F to 158 °F)  |
| Connectors   | Euroblock 6-pin connector with loop-through, mounted on rear.<br>Accepts 18 AWG (0.8 mm <sup>2</sup> ) to 14 AWG (2.5 mm <sup>2</sup> ) size wire.  |
| Suspension/Mounting                                      | External U-bracket with bracket screws  |
|  | 7 preset mounting angles: 0°, +15°, +30°, or +45° for wall or ceiling placement   |
|  | Two (2) rear M8 screw inserts for use with optional Ceiling Mount Bracket S2, WBPWR-50 pan-and-tilt bracket (for outdoors), or RMUBRKT1 pan-and-tilt bracket (for indoors)  |
|  | Safety cable can be used with either of two (2) rear M8 inserts when using included U-bracket, or with either of two (2) side M8 inserts, when using optional brackets  |
| Dimensions (H × W × D)                                   | 254 × 171 × 174 mm (10.0 × 6.7 × 6.8 in)  |
| Dimensions with Bracket (H x W x D)                      | 273 × 171 × 196 mm (10.7 × 6.7 × 7.7 in)  |
| Net Weight, Loudspeaker with Grille and Bracket (Single) | 3.08 kg (6.80 lb)   |
| Shipping Weight (Pair)                                   | 8.32 kg (18.35 lb)  |
| Included Accessories                                     | Each FS4SE includes one (1) Bose logo for vertical orientation, one (1) U-Bracket and one (1) weather-resistant input cover   |
| Optional Accessories                                     | Aluminum Grille kit (2-pack), WBPWR-50 pan-and-tilt bracket (for outdoors), RMUBRKT1 pan-and-tilt bracket (for indoors), Ceiling Mount Bracket S2, Ceramic Terminal and Thermal Fuse Kit (10-pack)  |
| <b>PRODUCT CODES</b>                                     |   |
| 841155-0310  | FREESPACE FS4SE PAIR BLK  |
| 841155-0410  | FREESPACE FS4SE PAIR WHT  |

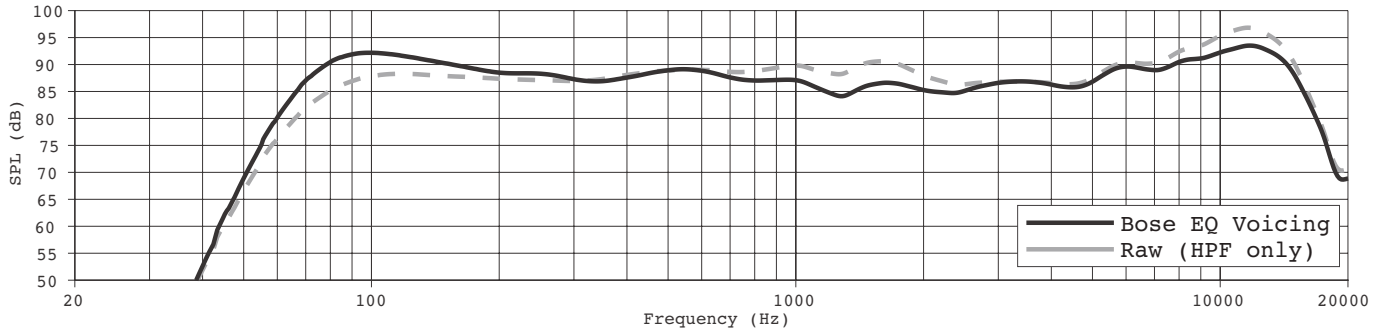
### Footnotes

- (1) Frequency response and range measured on-axis in half-space environment with recommended EQ
- (2) Sensitivity measured on-axis in half-space environment averaged 100 Hz - 10 kHz using recommended high-pass protection
- (3) Maximum SPL calculated from sensitivity and power handling specifications, exclusive of power compression
- (4) Bose extended-lifecycle test using pink noise filtered to meet IEC268-5, 6-dB crest factor, 500-hour duration
- (5) AES standard 2-hour duration with IEC system noise
- (6) Tested to IP55 per EN60529 when used in General Purpose Audio applications. Tested to IP33C per EN5 54-24 for fire and evacuation notification applications
- (7) Measured in whole-space environment

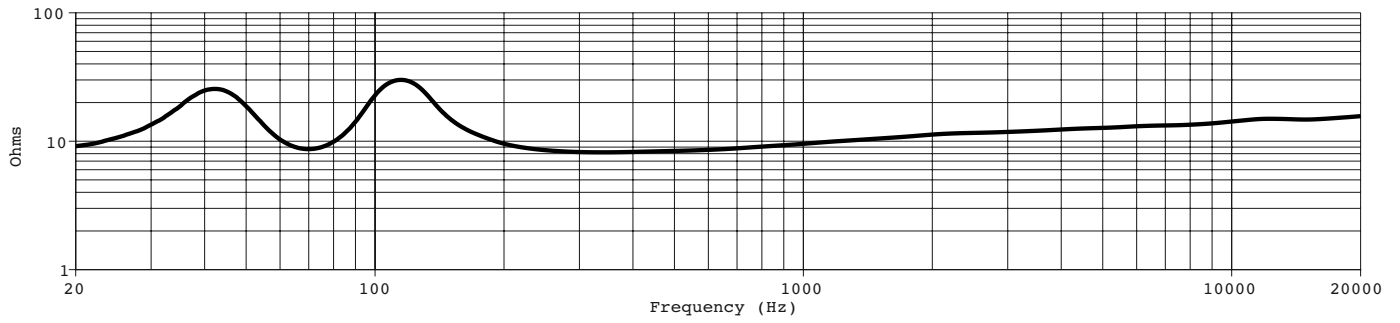
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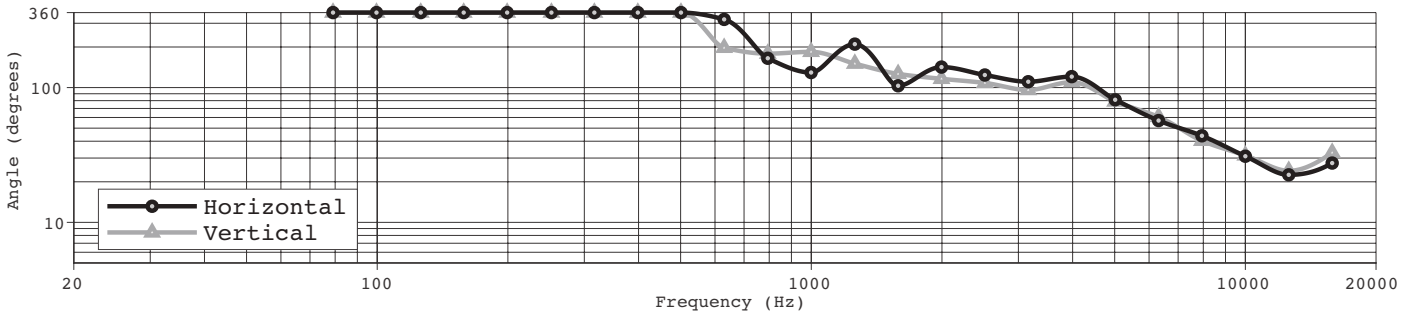
## On-Axis Frequency Response



## Impedance



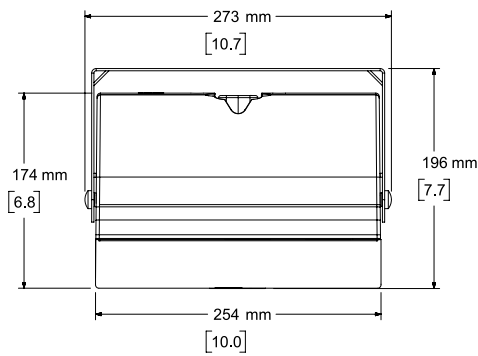
## Beamwidth<sup>7</sup>



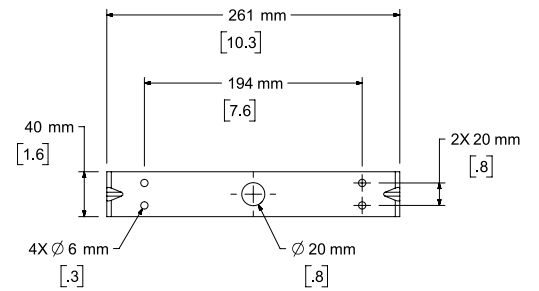
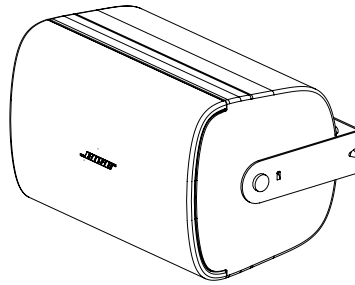
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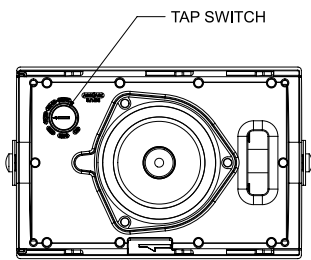
### Dimensions



**Top View**

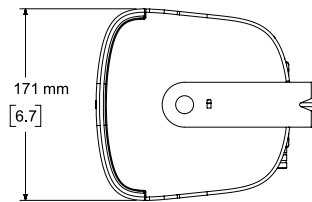


**Rear View  
BRACKET ONLY**



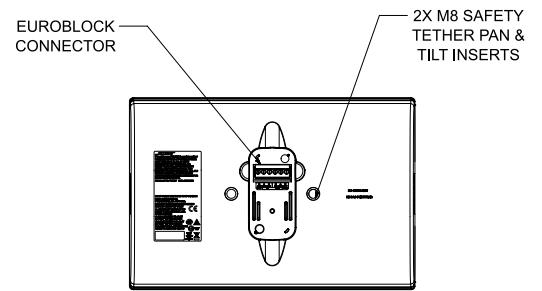
**Front View**

GRILLE REMOVED FOR CLARITY



**Right View**

DIMENSIONS APPLY TO BOTH SIDES



**Rear View**

BRACKET/CAP REMOVED FOR CLARITY

**NOTES:**

1. DIMENSIONS ARE IN MILLIMETERS OVER INCHES
2. WEIGHT APPROX 3.08kg [6.80lbs] (SPEAKER ONLY)  
WEIGHT W/BRACKET APPROX 3.42kg [7.55lbs]

For additional specifications and application information, please visit [PRO.BOSE.COM](http://PRO.BOSE.COM).  
Specifications subject to change without notice. 07/2020