## FreeSpace FS4SE <br> surface-mount loudspeaker

PROFESSIONAL

## Product Overview

FreeSpace FS loudspeakers are designed for high-quality performance in background music and voice announcement applications. Redesigned enclosures and aesthetics, removeable logos, metal backcans on ceiling-mount models, and ease-of-installation features mean that this update to the classic FreeSpace DS line is ideal for installations in almost any commercial space. The surface-mount FS4SE features a full-range 4.5-inch cone transducer, low frequency range down to 70 Hz , 8 -ohm and $70 / 100 \mathrm{~V}$ operation. Audio connections are terminated with a detachable Euroblock connector, and the FS4SE is iP55 rated for outdoor installation.


## Key Features

High-quality loudspeaker solutions for voice and background music
Updated enclosures and removeable logos that do not leave grille marks or holes
Low-impedance and high-impedance operation without separate model versions
Consistent tonality throughout the line means mixing and matching models in the same installation
UL1480 ULC-S541 Life Safety Fire Alarm and Signaling listed
Black and White versions of all models
Designed for surface-mount installation indoors or outdoors with included U-bracket and iP55 outdoor rating

## Technical Specifications

| SINGLE LOUDSPEAKER PERFORMANCE |  |  |
| :---: | :---: | :---: |
| Frequency Response ( -3 dB ) ${ }^{(1)}$ | 80-17,000 Hz |  |
| Frequency Range (-10 dB) ${ }^{(1)}$ | 70-19,000 Hz |  |
| Nominal Coverage Angle ( $\mathrm{H} \times \mathrm{V}$ ) ${ }^{(2)}$ | $125^{\circ} \times 125^{\circ}$ |  |
| Nominal Coverage ( $\mathrm{H} \times \mathrm{V}$ ) ( $1-10 \mathrm{kHz}$ ) | $100^{\circ} \times 100^{\circ}$ |  |
|  | Bose extended-lifecycle test ${ }^{(5)}$ | AES transducer test ${ }^{(6)}$ |
| Power Handling, long-term continuous | 40 W | 50 W |
| Power Handling, peak | 160 W | 200 W |
| Sensitivity (SPL/1W@1m) ${ }^{\text {(3) }}$ | 87 dB | 87 dB |
| Calculated Maximum SPL @ 1 m ${ }^{(4)}$ | 103 dB | 104 dB |
| Calculated Maximum SPL @ 1 m, peak | 109 dB | 110 dB |
| Loudspeaker EQ | Not Required, Bose EQ Voicing and SmartBass available |  |
| Recommended High-Pass Protection | 70 Hz with minimum 24-dB/octave filter |  |
| Overload protection | Resistor-network power reduction with automatic reset |  |
| Transformer taps | 70V: 2.5, 5, 10, 20, 40 W , bypass |  |
|  | 100V: 5, 10, 20, 40 W , bypass |  |
| TRANSDUCERS |  |  |
| Full-Range Driver | $1 \times 4.5$-inch woofer ( 114 mm ) |  |
| Nominal Impedance | 8 ohms (transformer bypass) |  |

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| PHYSICAL |  |
| :---: | :---: |
| Enclosure Material | Engineered plastics, highly UV fade resistant |
| Bracket Material | Powder-coated steel |
| Grille | Perforated steel, powder-coat finish, tamper-resistant design |
| Logo | Rotatable, removable |
| Color | Black: similar to Ral 9005, White: similar to Ral 9003 |
| Environmental/Ingress-Protection | Outdoor iP55 (suitable for use outdoors in wet locations), includes weather resistant input cover. |
| Safety Agency | Certification: UL 1480, ULC-S541 for Fire Alarm and Signaling Systems Installation: NFPA 70, NFPA 72, CSA C22.1 Section 32, in accordance with IEC60268-5, CE RoHS |
| Operating Temperature Range | $-25^{\circ} \mathrm{C}$ to $70{ }^{\circ} \mathrm{C}\left(-13^{\circ} \mathrm{F}\right.$ to $\left.158{ }^{\circ} \mathrm{F}\right)$ |
| Connectors | Euroblock 6-pin connector with loop-through, mounted on rear. Accepts 18 AWG ( $0.8 \mathrm{~mm}^{2}$ ) to 14 AWG ( $2.5 \mathrm{~mm}^{2}$ ) size wire. |
| Suspension/Mounting | External U-bracket with bracket screws |
|  | 7 preset mounting angles: $0^{\circ}, \pm 15^{\circ}, \pm 30^{\circ}$, or $\pm 45^{\circ}$ for wall or ceiling placement |
|  | Two (2) rear M8 screw inserts for use with optional Ceiling Mount Bracket, or Pan and Tilt brackets |
|  | 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 ( $\mathrm{H} \times \mathrm{W} \times \mathrm{D}$ ) | $277 \times 171 \times 174 \mathrm{~mm}(10.91 \times 6.73 \times 6.85 \mathrm{in})$ |
| Dimensions with Bracket ( $\mathrm{H} \times \mathrm{W} \times \mathrm{D}$ ) | $277 \times 171 \times 196 \mathrm{~mm}(7.83 \times 6.73 \times 7.72 \mathrm{in})$ |
| Net Weight, Loudspeaker with grille and bracket (single) | 3.42 kg ( 7.55 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, WBPWR-50 pan-and-tilt bracket (for outdoors), RMUBRKT1 pan-and-tilt bracket (for indoors), Ceiling Mount Bracket S2, Ceramic terminal w/ Fuse kit |
| PRODUCT CODES |  |
| 841155-0110 | FREESPACE FS4SE PAIR BLK |
| 841155-0210 | FREESPACE FS4SE PAIR WHT |

## Footnotes

(1) Frequency response and range measured on-axis in half-space environment with recommended EQ
(2) 1 kHz to 4 kHz average
(3) Sensitivity measured on-axis in half-space environment with recommended EQ
(4) Maximum SPL calculated from sensitivity and power handling specifications, exclusive of power compression
(5) Bose extended-lifecycle test using pink noise filtered to meet IEC268-5, 6-dB crest factor, 500 -hour duration
(6) AES standard 2-hour duration with IEC system noise

For additional specifications and application information, please visit PRO.BOSE.COM.
Specifications subject to change without notice. 01/2020

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## Dimensions



Top View

Front View GRILLE REMOVED FOR CLARITY


Rear View BRACKET ONLY


Right View DIMENSIONS APPLY TO BOTH SIDES

Rear View BRACKET/CAP REMOVED FOR CLARITY

NOTES

1. DIMENSIONS ARE IN MILLIMETERS OVER INCHES
