

Bosch LA3-VARI-BH Vari-Directional Array Base Unit with Coaxial Drivers for Improved High Frequency Response

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|------------------------------------|--|
| Frequency range ² | |
| VARI-B | 130 Hz to 10 kHz (± 3 dB) |
| VARI-BH | 130 Hz to 18 kHz (± 3 dB) |
| Max SPL ³ | Continuous / peak |
| VARI-B | 90 / 93 dB SPL (A-weighted at 20 m) |
| VARI-B+E | 90 / 93 dB SPL (A-weighted at 32 m) |
| VARI-B+E+E | 88 / 91 dB SPL (A-weighted at 50 m) |
| VARI-BH | 89 / 92 dB SPL (A-weighted at 20 m) |
| VARI-BH+E | 89 / 92 dB SPL (A-weighted at 32 m) |
| VARI-BH+E+E | 87 / 90 dB SPL (A-weighted at 50 m) |
| Coverage | |
| Horizontal (fixed) ⁴ | 130° (-6 dB, avg. 1 to 4 kHz) |
| Vertical (adjustable) ⁵ | Software configurable |
| Maximum throw: | |
| VARI-B(H) | 20 m |
| VARI-B(H)+E | 32 m |
| VARI-B(H)+E+E | 50 m |
| Transducers | |
| VARI-B | 4" Full Range (8 x 1 driver) |
| VARI-BH | 4" Coaxial (8 x 1 driver) |
| VARI-E | 4" Full Range (4 x 2 drivers) |
| Input Line (2x) | |
| Input level nominal | 0 dBV rms |
| Input level maximum | +20 dBV peak |
| Type | Transformer balanced |
| Impedance (balanced) | 7.8 kohm at 1 kHz |
| Input 100 V (2x) | |
| Input level nominal | +40 dBV rms |
| Type | Transformer balanced (floating input) |
| Impedance (balanced) | 1 Mohm at 1 kHz |
| Power Amplifiers | |
| Power | |
| VARI-B(H) | 8 x 15 W (class-D full bridge) |
| VARI-E | 4 x 25 W (class-D full bridge) |
| Protection | Thermal shutdown |
| Current limiting | |
| Dynamic range ⁶ | >105 dB |
| PSU | |
| Mains voltage | 100 to 120 V / 200 to 240 V (auto switching) |
| Power consumption | @ Mains / 24 Vdc (22 V min, 36 V max) |
| Power save | |
| VARI-B(H) | 13 / 4.5 W |
| VARI-B(H)+E | 17 / 7 W |
| VARI-B(H)+E+E | 19 / 9 W |
| Idle | |
| VARI-B(H) | 18 / 8.5 W |
| VARI-B(H)+E | 23 / 13 W |
| VARI-B(H)+E+E | 28 / 17 W |
| Max. (Noise, CF 6 dB) | |

| | |
|---|---|
| VARI-B(H) | 60 / 36 W |
| VARI-B(H)+E | 97 / 75 W |
| VARI-B(H)+E+E | 124 / 100 W |
| Power factor | According to EN61000-3-2, class A |
| Mains inrush current | <70 A (at 230 V) |
| Protection | Thermal shutdown |
| Current limiting | |
| Under voltage lock-out | |
| Signal processing ⁵ | |
| DSP | 32-bit floating point, 900 Mflops |
| ADC / DAC | 24-bits S-D, 128 x oversampling |
| Sample rate | 48 kHz |
| Functions | Pre-delay (max. 21 s) |
| Input-delay (max. 2 x 10 s / 4 x 5 s) | |
| Equalizer and compensation filtering | |
| Compressor | |
| Volume | |
| AVC | |
| Control | |
| Network interface | RS-485 full duplex, auto-switching 115k2, 57k6, 38k4, 19k2 baud, optically isolated |
| Max. number of units ⁷ | 126 |
| Surveillance | General status |
| Amplifier and load monitoring | |
| External pilot-tone detection(20 kHz to 30 kHz, min. level -22 dBV) | |
| Built-in ambient noise sensing microphone | |
| Thermal overload protection | |
| Failure relay | Maskable conditions |
| Contact 1 | No failure = closed / Failure = open |
| Rating | Max. 24 V, 100 mA |
| Contact 2 | No failure = 10 k ohm / Failure = 20 k ohm |
| Control voltage input | 5 to 24 Vdc, optically isolated |
| CobraNet | |
| Interface | RJ-45, Ethernet 100 Mbps |
| Word length | 16-/20-/24-bit (set by transmitter) |
| Sample rate | 48 kHz |
| Additional latency | 1.33/2.67/5.33 ms (set by transmitter) |
| Dimensions (H x W x D) | |
| VARI-B(H) | 1200 x 130 x 98 mm (47.2 x 5.1 x 3.8 in) |
| VARI-B(H)+E | 2400 x 130 x 98 mm (94.5 x 5.1 x 3.8 in) |
| VARI-B(H)+E+E | 3600 x 130 x 98 mm (141.7 x 5.1 x 3.8 in) |
| Bracket | 27 mm (1.1 in) additional depth, flat mounted |
| VARI-CM | 100 x 50 x 23 mm (3.9 x 2.0 x 0.9 in) |
| Weight | |
| VARI-B(H) | 13.0 kg (28.7 lbs) |
| VARI-B(H)+E | 24.7 kg (54.5 lbs) |
| VARI-B(H)+E+E | 36.4 kg (80.3 lbs) |
| Color | |
| Enclosure: VARI-B(H) and -E | RAL9007 (gray aluminum) |
| Grill: VARI-B(H) and -E | RAL9006 (white aluminum) |
| Operating temperature | -25 °C to 55 °C (-13 °F to 131 °F) |
| Storage and transport temperature | -40 °C to +70 °C (-40 °F to +158 °F) |
| Relative humidity | <95 % |