



# technical specifications BF181 mkl

## general

- High-output, direct-radiating 18" subwoofer system
- Extended-excursion vented-spider 18" woofer
- X-venting™ for maximum breathing capacity
- SIS™ pre-wired for very high damping and further reduced distortion (with ALC)
- Low impedance for efficient amplifier loading
- Front-positioned NL4 connector for easy cardioid connection



## description

The BF181 is a high-performance subwoofer system, designed to deliver tight and accurate bass response with very low distortion.

It features a single 18" long-excursion woofer, with vented double-spider frame and 4" voice-coil, for a stable and prolonged high output.

The direct-radiating woofer is mounted in a vented chamber; exiting into the X-Venting™ bass reflex port: This centrally located port takes more than 25% of the baffle surface and is designed to maximise the system's breathing capacity, increasing overall output while minimising port-compression.

The double baffle board and the combination of complex internal panel lay-out with extensive bracing brings a rigid structure with a high enclosure stiffness from a relatively low-weight package. It is finished in Durotect™ scratch-resistant coating and is fitted with 2 handles for easy logistics (road-version).

For full system performance, the BF181 is driven and controlled by the ALC amplified loudspeaker controller; Driven by the ALC, the BF181 delivers maximum sound quality and output power with long-term operation reliability. The integrated factory presets in the drive processor of the ALC offer gain, phase and filtering matching with all Alcons top

systems; Also selectable response characteristics are available; “sub”, “bass”, “punch”, as well as cardioid projection control presets. The additional front-positioned NL4 connector caters for easy “reverse connection” in cardioid arrays. The 4 ohms system impedance, makes for a very efficient amplifier loading.

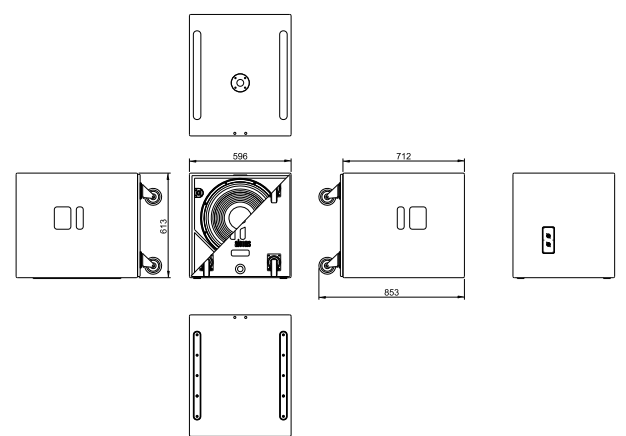
The BF181 is SIS™ pre-wired: Through the Signal Integrity Sensing circuit of the ALC, the cable-length

and connector resistance between the BF181 and ALC is dynamically compensated (system damping factor 10.000), further reducing distortion, while increasing response accuracy.

The BF181 is available in road-version and installation (“i”) version, without handles, wheel dolly board and M20 threaded stand mount flange. Through the Architect Color Option™ program, the BF181 can be finished in any RAL™ color.

# technical specifications BF181mkII

## dimensional drawing



## technical specifications

Frequency response	36 Hz – 200 Hz	(+/- 3 dB)
	30 Hz -	(+/-10 dB)
Sensitivity nominal	99 dB (40 - 100 Hz)	
Nominal impedance	4 ohms	
Recommended drive	Sentinel3 min.	
Nominal SPL peak	128 dB (Sentinel3 40 - 100 Hz)	
	133 dB (Sentinel10 40 - 100 Hz)	
	138 dB (comparative)	
Dispersion H x V	omni / (hyper)cardioid in array with processing	

## physical specifications

System	subwoofer, front loaded	
Drivers LF	1x AW18.4/4 18", vented	
Connectors	3x Speakon NL4 input/link (2 rear, 1 front)	
Physical dimensions	mm	inches
	Height	613 24,1
	Width	596 23,5
	Depth	712 28.0
Weight	kg	lb
	BF181	53,6 118.2*
	BF181i	45,7 100.8
Warranty	6 years limited	
	* incl. wheel board	

A: Alcons Audio  
De Corantijn 10  
1689 AP ZWAAG  
The Netherlands

E: info@alconsaudio.com  
W: www.alconsaudio.com  
T: +31 (0)229 28 30 90