

Instruction manual

Directional
speakers

High sound
pressure

Constant
directivity

K4-F SERIES — PASSIVE DIRECTIONAL SOUND COLUMNS - 3,5" FERRITE CHASSIS

K4-10F / K4-20REG-F / K4-30F / K4-40F / K4-60F / K4-80F / K4-100F

K4-F series, ferrite version

PASSIVE DIRECTIONAL SOUND COLUMNS



ENGLISH

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GENERAL INFORMATION

The newly developed K4-F series passive directional sound columns are equipped with a combination of high-efficient neodymium ball-dome systems (HF frequency range) and specially spaced 3.5" ferrite broadband chassis in the LF/MF frequency range.

The use of internal passive crossovers has achieved a vertical opening angle of 30 degrees for the K4-60F version, 25 degrees for the K4-80F version and 20 degrees for the K4-100F version.

These professional loudspeaker systems are specially designed for sound transmission in acoustically demanding rooms with long reverberation times, e.g. cathedrals, churches, congress halls as well as for all rooms with unfavorable acoustic conditions.

The specially shaped aluminum profile housing is particularly stable and elegant in design, adapting to any environment. It can be powder-coated on customer request according to RAL color samples.

The newly developed speaker systems are characterized by a natural and balanced sound quality. Excellent speech intelligibility and even volume are further advantages of these column speakers.

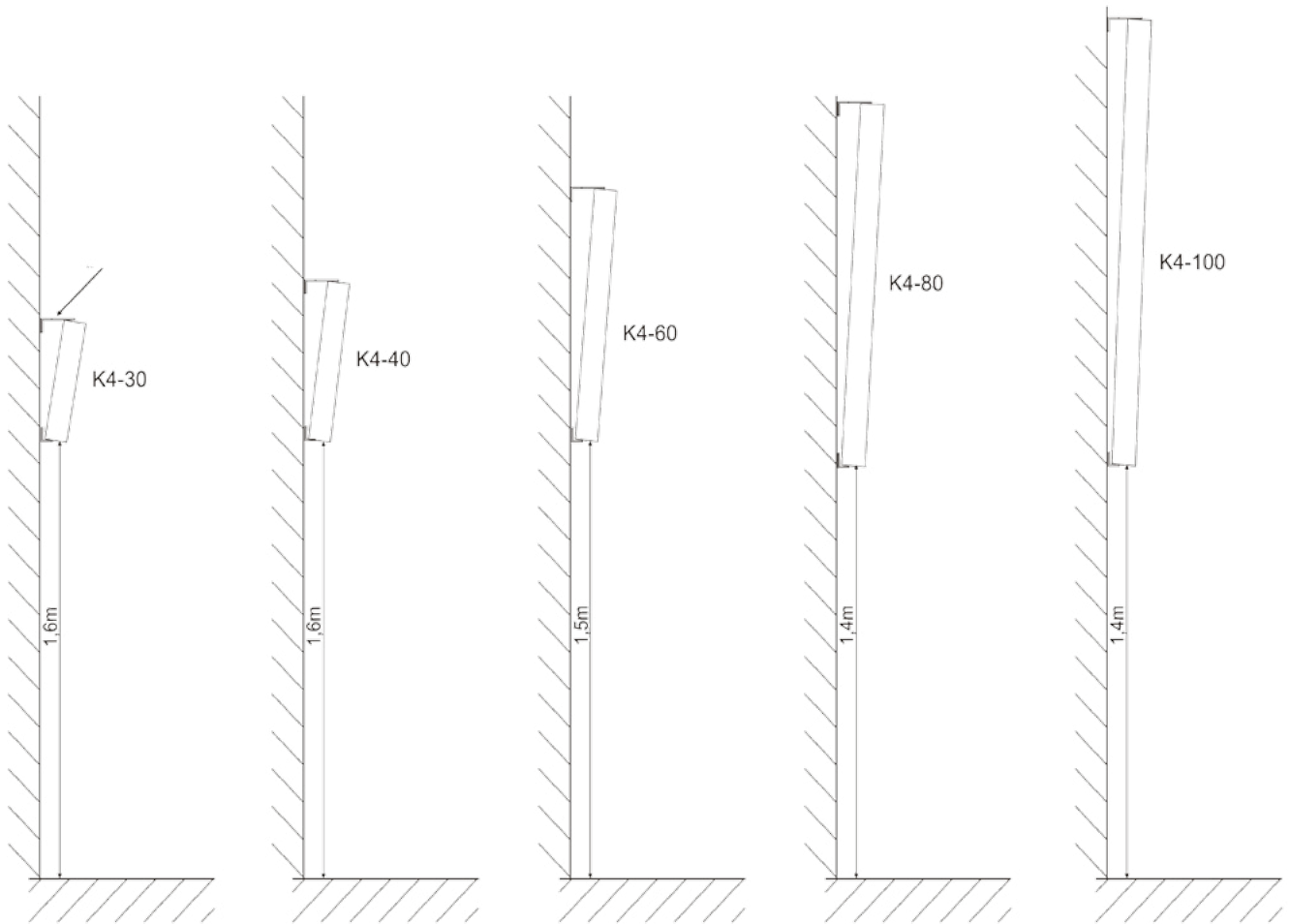
Due to special mounting brackets included in the scope of delivery, the installation of the directional sound columns K4-F is easy.

The K4-F sound columns from version K4-30F version should be installed according to specifications in the installation plan. Please note the mounting height.

Please refer to the technical data for the typical range and equipment of the individual sound columns.



RECOMMENDED MOUNTING OF THE LOUDSPEAKERS



IMPRESSIONS



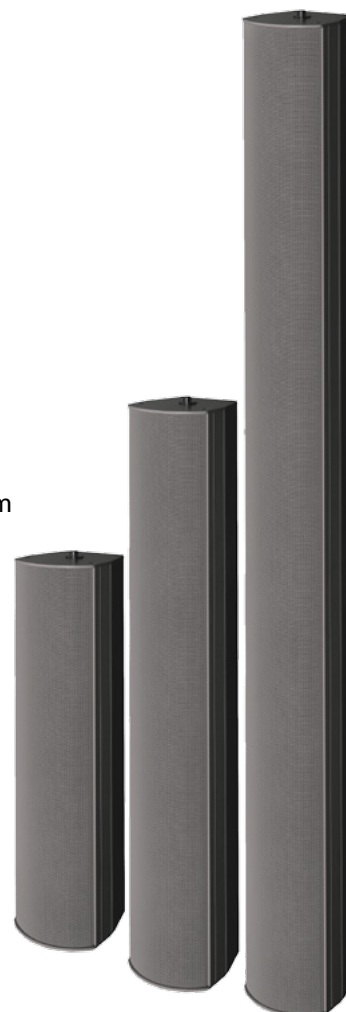
TECHNICAL DATA

Model:	K4-10F	K4-20F-REG (with volume control)
Rated power@ 1/1:	10 Watt	20 Watt
1/2:	5 Watt	10 Watt
1/4:	2.5Watt	5 Watt
Impedance@ 1/1:	1 kOhm	500 Ohm
1/2:	2 kOhm	1 kOhm
1/4:	4 kOhm	2 kOhm
SPL@1W/1meters:	87 dB	90 dB
Input voltage:	100 V	100 V
Range@SPL/92 dB (PINK NOISE):	Monitoring	Monitoring
Range@SPL/95 dB (PINK NOISE):	Monitoring	Monitoring
Frequency response (+/-3 dB)[Hz]:	135 Hz - 18.000 Hz (-3dB)	135 Hz - 18000 Hz (-3dB)
Opening angle@[H]:	90 degrees (-6dB@1kHz-8kHz)	90 degrees (-6dB@1kHz-8kHz)
Opening angle@[V]:	90 degrees	60 degrees
On board LF/MF ferrite/HF neodymium:	1 x 3.5" LF/MF	2 x 3.5" LF/MF
Dimensions (HxWxD):	145x 95 x 113 [mm]	269 x 95 x 113 [mm]
Weight:	0.7 kg	1.0 kg
Model:	K4-30F	K4-40F
Rated power@ 1/1:	30 Watt	40 Watt
1/2:	15 Watt	20 Watt
1/4:	7.5 Watt	10 Watt
Impedance@ 1/1:	333 Ohm	250 Ohm
1/2:	666 Ohm	500 Ohm
1/4:	1.33 kOhm	1000 Ohm
SPL@1W/1meters:	91 dB	92 dB
Input voltage:	100 V	100 V
Range@SPL/92 dB (PINK NOISE):	5 Mtr.	9 Mtr.
Range@SPL/95 dB (PINK NOISE):	3 Mtr.	6 Mtr.
Frequency response (+/-3 dB)[Hz]:	130 Hz - 18.000 Hz (-3dB)	130 Hz - 18.000 Hz (-3dB)
Opening angle@[H]:	90 degrees (-6dB@1kHz-8kHz)	120 degrees (-6dB@1kHz-8kHz)
Opening angle@[V]:	40 degrees	35 degrees
On board LF/MF ferrite/HF neodymium:	3 x 3.5" LF/MF+1 x HF neodymium	4 x 3.5" LF/MF+1 x HF neodymium
Passive switch:	LF/HF:12 dB@Oct.	LF/HF:12 dB@Oct.
Separation frequency:	4.5 kHz	4.5 kHz
Dimensions (HxWxD):	450 x 95 x 113 [mm]	550 x 95 x 113 [mm]
Weight:	2.0 kg	4.5 kg

TECHNICAL DATA

Model:	K4-60F	K4-80F
Rated power@ 1/1:	60 Watt	80 Watt
1/2:	30 Watt	40 Watt
1/4:	15 Watt	20 Watt
Impedance@ 1/1:	166 Ohm	125 Ohm
1/2:	333 Ohm	250 Ohm
1/4:	666 Ohm	500 Ohm
SPL@1W/1meters:	94 dB	96 dB
Input voltage:	100 V	100 V
Range@SPL/92 dB (PINK NOISE):	12 Mtr.	15 Mtr.
Range@SPL/95 dB (PINK NOISE):	9 Mtr.	12 Mtr.
Frequency response(+/-3 dB)[Hz]:	125 Hz-18.000 Hz (-3dB)	120 Hz-18.000 Hz (-3dB)
Opening angle@[H]:	120 degrees (-6dB@1kHz-8kHz)	120 degrees (-6dB@1kHz-8kHz)
Opening angle@[V]:	30 degrees	25 degrees
On board LF/MF ferrite/HF neodymium:	6 x 3.5"LF/MF+1x HF neodymium	8 x 3.5"LF/MF+2 HF neodymium
Passive switch:	LF/HF:12 dB@Oct.	LF/HF:12 dB@Oct.
Separation frequency:	4.5 kHz	4.5 kHz
Dimensions (HxWxD):	800 x 95 x 113 [mm]	1020 x 95 x 113 [mm]
Weight:	8.5 kg	11.0 kg

Model:	K4-100F
Rated power@ 1/1:	100 Watt
1/2:	50 Watt
1/4:	25 Watt
Impedance@ 1/1:	100 Ohm
1/2:	200 Ohm
1/4:	400 Ohm
SPL@1W/1meters:	98 dB
Input voltage:	100 V
Range@SPL/92 dB (PINK NOISE):	18 Mtr.
Range@SPL/95 dB (PINK NOISE):	15 Mtr.
Frequency response (+/-3 dB)[Hz]:	110 Hz-18.000 Hz (-3dB)
Opening angle@[H]:	120 degrees (-6dB@1kHz-8kHz)
Opening angle@[V]:	20 degrees
On board LF/MF ferrite/HF neodymium:	10 x 3.5"LF/MF+2 x HF neodymium
Passive switch:	LF/HF:12 dB@Oct.
Separation frequency:	4.5 kHz
Dimensions (HxWxD):	1200 x 95 x 113 [mm]
Weight:	13.5 kg



NOTES

Disclaimer

The author points out that the representations, explanations, calculations and the same contained in the directive are merely exemplary in nature. They reflect the current state of knowledge and the current legal situation, but make no claim to completeness. In view of the complexity of construction projects, the development of individual solutions relevant to the respective project is indispensable. Any liability for the descriptions, applications, indications and transmissions of the guideline or individual details or parts of it shall be hereby expressly excluded.

Important notes

The following applies to all pages of this description:

Technical changes and printing errors reserved.

The pictures are similar, color deviations reserved.