

VOICE ALARM-SERIES: LINEA LEN

EN 54-24 CERTIFIED LINE SOURCE LOUDSPEAKERS FOR USE WITH VOICE ALARM SYSTEMS.





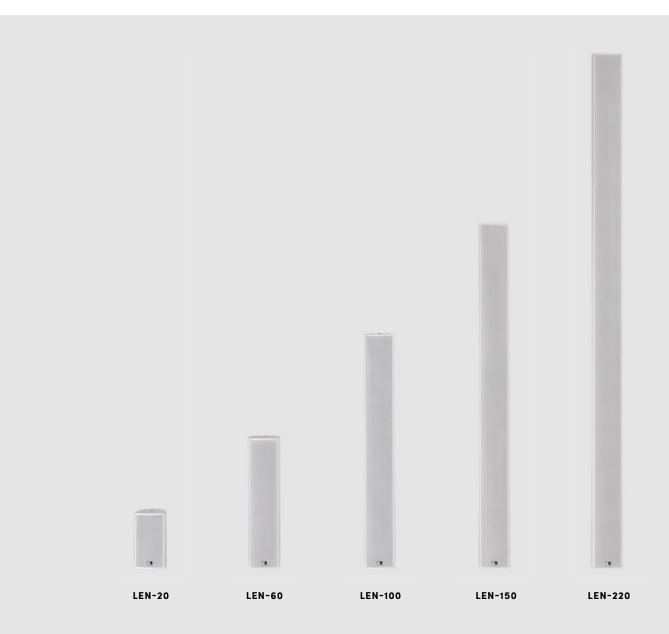


LINEA LEN LOUDSPEAKER SYSTEMS – EN 54-24 TYP B CERTIFIED.

FOHHN'S new LEN line source loudspeakers have been specially developed for use with voice alarm systems. The passive, 100V, EN 54-224 TYPE B certified loudspeakers have extruded aluminium housings with steel reinforcements, making them suitable for both indoor and outdoor use without requiring any additional weatherproofing.

All LEN loudspeaker systems are equipped with high-quality, full range, 4" treated drivers to provide optimal levels of efficiency in speech reproduction. An innovative, in-house developed waveform system (FOHHN[®] Source Division Waveguide), a multi-zone crossover and a special loudspeaker chassis configuration guarantee coherent vertical sound dispersion and increased sound pressure levels, as well as the suppression of unwanted side lobes. The result: highly directional sound coverage, long reach, great sound quality and excellent levels of speech intelligibility – even in acoustically challenging venues with long reverberation times (such as airports, railway stations, shopping centres, lecture theatres or conference rooms).

LINEA LEN line source loudspeakers are available in five models, with lengths ranging from 20 cm to 220 cm. All RAL Classic colours can be supplied, with special colours and photo-realistic decorative surfaces also available on request (FOHHN® Texture Design).



LINEA LEN AT A GLANCE:

- EN 54-24 certified, 100V line source loudspeakers for use with voice alarm systems
- innovative technology by FOHHN®
- exceptionally even sound dispersion
- SIDE LOBE FREE passive realization
- equipped with high performance speakers
- excellent speech intelligibility and sound quality, as well as a long reach
- weatherproof without requiring additional protection (protection class IP54 in accordance with IEC529/EN60529)
- ball impact resistant front grille made from galvanised sheet steel
- supplied in all **RAL** Classic colours, special colours or exclusive photo-realistic decorative surfaces available on request (**FOHHN® Texture Design**)

Possible applications for FOHHN®'S VOICE ALARM-SERIES: Shopping centres such as the Trinity Mall in Leeds (UK).



Fohhn Linea LEN

Passive column speakers for voice alarm systems



Datasheet

Model	LEN-20 T	100 T	L	EN-150	т	LEN-220 T							
Certificates			EN 54-24 Type B										
Electroacoustical features													
Acoustic design		weatherpr		ive line s ppressio								ver and	
Number of 4" drivers with treated cones			2 6		8	3	12			18			
2-way design		No	Yes		Yes		Yes			Yes			
Sensitivity 1W @ 4m acc. EN54-24 [2]	dBSPL	79 83		84		86			87				
SPLmax 100V @ 4m acc. to EN54-24 [2]	dBSPL	92	97	100	99	102	100	103	106	102	105	108	
Transformer options, power handling acc. to EN54-24 100V	W	50	65	130	80	160	65	130	260	77,5	155	310	
Transformer options, power handling acc. to EN54-24 70V	W	24,5	31,8	63,6	39,2	77,8	31,8	63,6	128,9	38	75,4	153,1	
Impedance 100% tap [1]	Ohms	200	154	77	125	63	154	77	38	129	65	32	
Impedance 50% tap [1]	Ohms	400	308	154	250	125	308	154	77	258	129	65	
Impedance 25% tap [1]	Ohms	800	615	308	500	250	615	308	154	516	258	129	
Nominal directivity HxV (-6dB, average@1-4kHz)	Deg	130 x 60	130 x 25		130 x 15		130 x 14			130 x 14			
Directivity horizontal (octave band) acc. to EN54-24													
500 Hz	Deg	360	360		360		360			360			
1000 Hz	Deg	190	190		190		190			190			
2000 Hz	Deg	120	120		120		120			120			
4000 Hz	Deg	95	95		95		95			95			
Directivity vertical (octave band) acc. to EN54-24	-												
500 Hz	Deg	360	90		55		35			25			
1000 Hz	Deg	120	40		25		20			15			
2000 Hz	Deg	60	25		15		14			14			
4000 Hz	Deg	30	13 8		3	8			8				
Mechanical features													
Housing			weat	therproof	aluminiu	um hous	ing, pow	der coat	ed, steel	bracing	6		
Mounting points	4xM6	4xM6 8xM6 8xM6 10xM6											
Front design	ball impact resistant steel grille, galvanized and powder coated in enclosure colour backed by acoustically transparent foam												
Protection class acc. to IEC529/EN60529							IP54						
Terminal		terminal connectors capable of receiving up to 4mm2, two per pin, terminal cover with dual cable gland for up to 10mm cable diameter											
weight	kg	3	6,5	7,5	9	9,5	12,5	13	14,5	17	18	19,5	
Width	mm	130	10	30	13	30		130			130		
Depth	mm	120	12	20	12	20		120			120		
Height	mm	230	64	640 990 1460 2200						2200			
Standard colours		black (RAL 9005) or white (RAL 9016)											
Optional features													
Custom colours					a	II RAL C	lassic co	olours					
Weather protection			weatherproof without further protection as standard										
Terminal		ceramic terminals capable of receiving up to 2,5mm2											
CAAD Simulation data						E	EASE						
Optional accessories													
Wallbracket WAL-1		x	;	ĸ	>	(x			х		
Wallbracket WAL-03		x											
			;	x	>	(x					
Wallbracket WLX-100													
Wallbracket WLX-100 Wallbracket WLX-220											х		