

# Voice Alarm

## LEN-60

Passive 100 V line source speaker, EN 54-24 certified, 6 × 4", 130° × 25°, approx. 130 × 640 × 120 mm, weatherproof



# Voice Alarm LEN-60

The LEN-60 is a passive 100 volt line source speaker certified according to EN 54-24 type B for use in voice alarm systems. Like all products in the Voice Alarm series, it is equipped with a weatherproof, steel-reinforced aluminum housing, making it equally suitable for indoor and outdoor use. The LEN column loudspeakers guarantee excellent speech intelligibility and long ranges even in difficult acoustic environments.

## Main features

- 6 × coated 4" chassis
- Uniform directivity
- Suppression of unwanted side lobes thanks to Fohhn Source Division Waveguide
- Weatherproof without additional protection (degree of protection IP54 according to IEC 529 / EN 60529)
- 8 × M6 thread for safe installation
- Available in different colors (RAL Classic, Pantone, NCS) or with Fohhn Texture Design

## Available with the following color options



Black



White

## Equipped with the following Fohhn technologies



Fohhn Texture Design



Fohhn Source Division Waveguide



100 V optional



Special colors optional



Ball impact resistant



Weatherproof execution

# Technical data

## Electroacoustic features

acoustic design	weatherproof passive line source speaker system, closed, passive 2-way CD crossover and filter, suppression of side lobes by Source Division Waveguides
components	6 × 4" drivers with treated cones
sensitivity 1 W @ 4 m in accordance with EN 54-24	83 dB SPL
SPLmax 100 V @ 4 m in accordance with EN 54-24 (trafo S/M/L)	97 dB SPL / 100 dB SPL / -
transformer options, power handling in acc. with EN 54-24 100 V (trafo S/M/L)	65 W / 130 W / -
transformer options, power handling in acc. with EN 54-24 70 V (trafo S/M/L)	31.8 W / 63.6 W / -
impedance 100 % tap (trafo S/L/M)	154 ohm / 77 ohm / -
impedance 50 % tap (trafo S/M/L)	308 ohm / 154 ohm / -
impedance 25 % tap (trafo S/M/L)	615 ohm / 308 ohm / -
2-way design	yes
nominal directivity (h x v) (-6 dB, average @ 1-4 kHz)	130° × 25°
directivity (h x v) (octave band) in acc. with EN-54-24 @ 500 Hz	360° × 90°
directivity (h x v) (octave band) in acc. with EN 54-24 @ 1000 Hz	190° × 40°
directivity (h x v) (octave band) in acc. with EN 54-24 @ 2000 Hz	120° × 25°
directivity (h x v) (octave band) in acc. with EN 54-24 @ 4000 Hz	95° × 13°

## Features

enclosure	weatherproof aluminium housing, powder coated, steel bracings
front design	ball impact resistant grille, galvanized and powder coated in housing colour backed by acoustically transparent foam
weight (trafo S/M/L)	approx. 6.5 kg / 7.5 kg / -
standard colours	black (RAL 9005) or white (RAL 9016), powder-coated
mounting points	8 × M6 screw threads
certificates	EN 54-24 type B
EN 54-24	1
connectors	terminal connectors capable of receiving up to 4 mm <sup>2</sup> , two per pin, terminal cover with dual cable gland for up to 10 mm cable diameter
dimensions (W × H × D)	approx. 130 × 640 × 120 mm

### Optional features

optional weather protection	as standard (protection class IP54, in accordance with IEC 529 / EN 90529)
optional connectors	ceramic terminals capable of receiving up to 2.5 mm <sup>2</sup>
optional colours	RAL Classic / NCS / Pantone on request, Fohhn Texture Design

### CAAD simulation data

simulation data	EASE, CLF, Ulysses
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power rating (nominal/program): according to IEC-60268-5

power rating (peak); maximum SPL: peak, 20 ms with bandpass filtered pink noise signal according to IEC 60268-2 at one octave above the lower limit of the frequency range

sensitivity: 2,83 V at 8 ohms (2 V at 4 ohms, 4 V at 16 ohms) at a distance of 1 m under anechoic fullspace conditions

frequency range: -10 dB under anechoic halfspace-conditions

weight: net weight without optional equipment

Intelligent Protection Circuit (IPC): voltage-controlled semiconductor circuit protecting the HF-driver against overload highly effective and with very short attack time

cut-off frequency: -10 dB under anechoic halfspace-conditions with speaker preset

heat dissipation: pink noise, 6 dB crest, 1/4 Pmax

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