

# 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
- In order to ensure performance and operational safety, Fohhn system amplifiers including the correct speaker preset are required.

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



Weather-resistance possible

# 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 × v) (-6 dB, average @ 1-4 kHz)                        | 130° × 25°  |
| directivity (h × v) (octave band) in acc. with EN-54-24 @ 500 Hz              | 360° × 90°  |
| directivity (h × v) (octave band) in acc. with EN 54-24 @ 1000 Hz             | 190° × 40°  |
| directivity (h × v) (octave band) in acc. with EN 54-24 @ 2000 Hz             | 120° × 25°  |
| directivity (h × v) (octave band) in acc. with EN 54-24 @ 4000 Hz             | 95° × 13°   |

### Physical 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, Fohhn Designer |
|-----------------|------------------------------------|

weight: net weight without optional equipment

sensitivity 1 W / SPLmax 100 V @ 4 m in accordance with EN 54-24: measured in the far field of the speaker, count back to 4 m distance

impedance 100 / 50 / 25 % tap: measured at a voltage producing 1 W per speaker system

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