HÖRMANN Warnsysteme

WARNING AND INFORMATION

Electronic Siren ECN 600-D

SYSTEM

Sound Pressure Level	109 dB (A) / 30 m
Fundamental Frequency	415 Hz / 425 Hz
Siren Sound / Signal	Customer Specification
Digital Textmessages	Customer Specification
Standby-time	up to 7 days
Number of Alarms available within 48 h without Mains Power Supply	up to 20

SIREN HEAD

Number of Horns / Drivers	4
Weight Siren Head	28 kg
Head Dimension (W x H x D)	300 x 950 x 850 mm
Windload at 160km/h	522 N
Material of Horns	Aluminium (Alloy)

SIREN CABINET

Number of Class-D Amplifiers	2
Mains Power Supply	230 V oder 110 V +/–10%
Battery Voltage	24 V
Max. Charging Current	4 A
Local Activation and Display	Foil Keypad and LCD Display
Remote Activation and Control	Customer Specification
Live PA Annoucements	Yes
Cabinet Dimensions (W x H x D)	600 x 600 x 350 mm
Cabinet Design	Stainless Steel or Powder-coated
Cabinet Protection	IP65
Weight incl. Batteries	84 kg
Cabinet Ambient Temperature Range	–25 °C ... +65 °C

Specifications are subject to change without notice.

SIREN HEAD
Siren head consisting of self-supporting siren horns in modular construction. Single Slit diffraction effect leads to omnidirectional 360° sound propagation.

SIREN CABINET
Compact and clearly designed, based on 19" plug-in technology and modular construction. Robust assemblies and the absence of moving parts such as fans guarantee maximum reliability.

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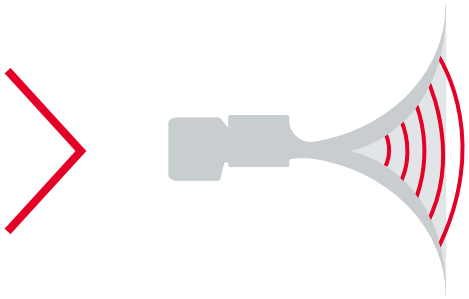
Sound Propagation by the ECN Siren Horn

VERTICAL SOUND PROPAGATION

The ECN siren horn is a specific development with exponential increase of the horn's cross sectional surface, to propagate siren signals with high sound intensity.

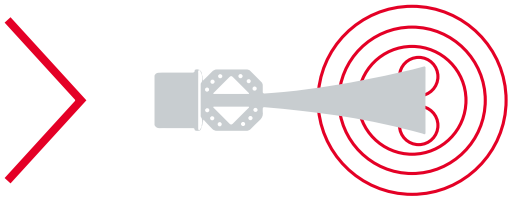
This special horn design assures optimum propagation of the sound wave within the horn, is widely in use, thoroughly tested and has proven to generate signals with high intensity.



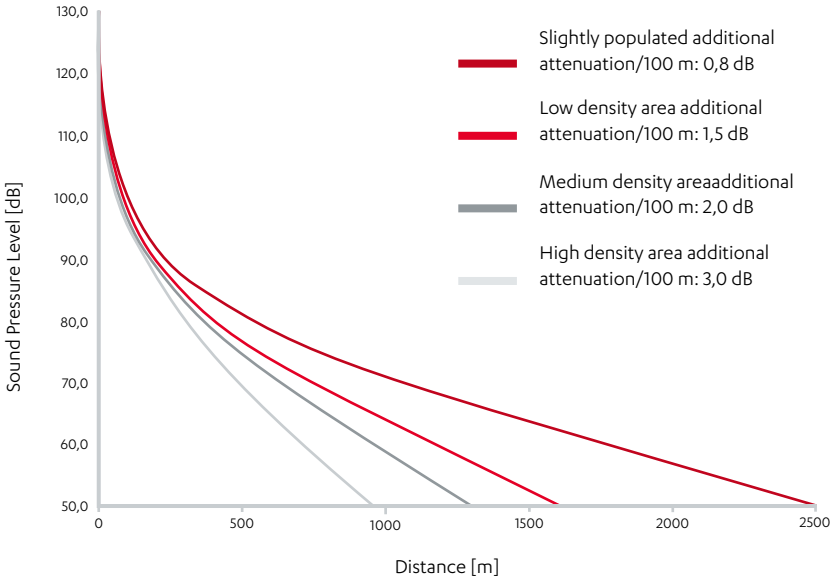
HORIZONTAL SOUND PROPAGATION

The siren horn's omnidirectional propagation of the sound wave in horizontal plane is based on the „Huygens principle".

This physical guideline explains the diffraction of a sound wave at a single slit. Diffraction of sound results in a circular sound wave of omnidirec-tional characteristic, which leads to 360° sound propagation.



Propagation of Sound Pressure Level (SPL)



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