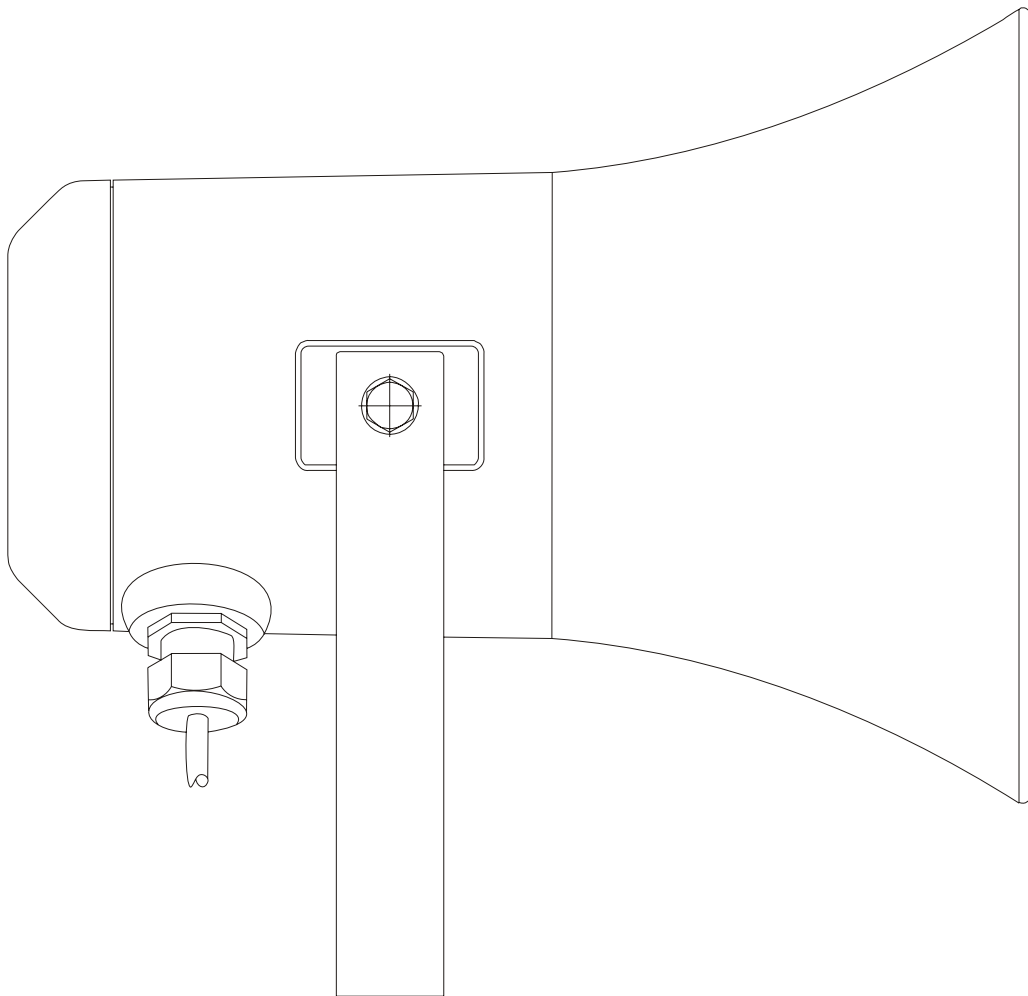


Overview

Ex- loudspeaker LP115 / LP125

The explosion-proof loudspeaker



4 972 2

4 973 3


NEUMANN

40% less energy consumption for the same sound pressure level*.

Correspondingly lower purchase and operating costs for amplifier units & peripherals are eliminated.

The Neumann Ex loudspeaker is the only one in its class to have an identical sound pressure level of 119dB(A) in both versions. This allows up to 33 units* to be connected in series.

The loudspeaker with built-in 100V transformer allows connection to 100V loudspeaker systems in accordance with VDE 0800 T1: 5.89, which are installed in potentially explosive environments.

The type of protection II 2 G Ex demb IIC T4, T5, T6 allows the use in hazardous areas of zone 1 and 2.

The housing material is electrically conductive and UV-resistant solid plastic. Brackets and the fastening screws on the housing are made of stainless steel.

*for 15 W version

Performance features

Up to 33 units connected in series*

40% less energy consumption at the same sound pressure level* compared to comparable products

100V transformer enables connection to 100V loudspeaker systems according to VDE 0800 T1: 5.89, which are installed in explosive environments

Use in Ex areas of zone 1 and 2

Housing material of electrically conductive and UV-resistant solid plastic

When connecting several loudspeakers in series, with a rated power handling capacity of up to 500W

*for 15 W version

Equipment features

The volume can be changed using the two coding lines (brown/yellow) between the terminals

The speaker is suitable for wall and ceiling mounting

4 972 2

4 973 3

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The logo consists of three wavy horizontal lines above the letter 'N', which is also flanked by three wavy horizontal lines. Below this graphic, the word 'NEUMANN' is written in a bold, uppercase, sans-serif font.

NEUMANN

Mechanical data

Dimensions	approx. Ø 219 x 287mm
Weight	approx. 3,5 kg
Type of protection	PTB 05 ATEX 1097 ⊕ II 2 G Ex demb IIC T4, T5, T6
Housing protection	IP 66 IEC 60529
Housing material	plastic (antistatic), UV-resistant
Metal elements	Stainless steel V4A
Connection terminals	Fine wire up to 2.5mm ² (AWG 14) Single wire up to 2,5mm ²
Cable entry	Plastic cable entry M20 x 1.5 for cable diameter Ø 6 ... 13mm

Device data

Connection technology	100V
Input - Output	max. 500W
Transmission range	280 - max. 10000Hz
according to IEC 60268	330 - 6200Hz
Distortion factor 1W / 1kHz	≤ 4%
Distortion factor 10W 1kHz	≤ 5%
Beam angle 1kHz -6dB	130°
Beam angle 4kHz -6dB	40°
Max. power	15W (8W) ¹⁾ 25W (12W) ¹⁾
Performance levels	LP115 15W 8W 4W 2W LP125 25W 12,5W 8W 4W 2W 1W
Sound pressure level	LP115 15W/1m 119dB(A) LP125 25W/1m 119dB(A) 1W/1m 107dB(A)

Environmental data

Operating environment temperature	T4: -55°C bis +80°C T5: -55°C bis +65°C T6: -55°C bis +55°C
Transport temperature area	-60°C bis +95°C
Storage temperature area	-60°C bis +95°C

1) These are the explosion-technically guaranteed upper limits of the power, taking into account manufacturing tolerances, operating temperature and level below the transmission range.

The typical electrical power consumption within the transmission range is L.-No. 4 973 3 (LP115) = 8W and for L.-No. 4 972 2(LP125) = 12W.

4 972 2

4 973 3

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