



# DSP 15 EExmNT (IIB+H2) SPEAKER

## EXPLOSION-PROOF HORN SPEAKER

The speaker is especially designed for use in hazardous and noisy areas. Due to the light weight, the loudspeaker is suitable for use in offshore applications.

The connection cable is inserted into the E terminal compartment via an Ex cable gland. The power adjustment is carried out via different tapplings on the primary side of the 100 V transformer.



- Explosion-proof for Zone 1, 2, 21 and 22
- Robust industrial technology
- Sturdy design
- Light weight
- Degree of protection IP66/67

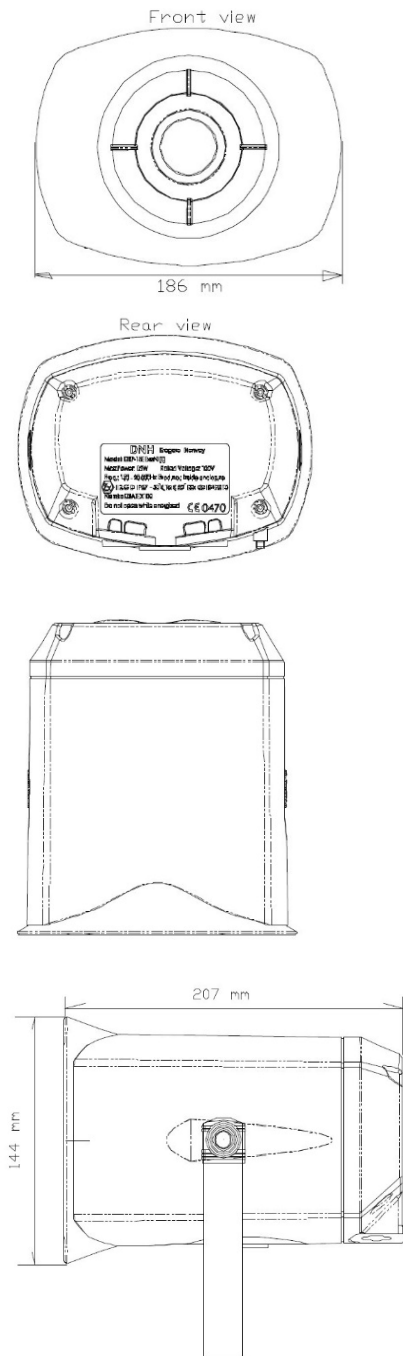
### MECHANICAL DATA

<b>Housing</b>	Anti-static polyamide
<b>Width x height x length</b>	186 mm x 144 mm x 207 mm (7.32" x 5.67" x 8.15")
<b>Cable entries</b>	2 x M20 x 1.5
<b>Cable gland</b>	1 x M20, 1 x M20 stopping plug
<b>Connection</b>	Push terminals
<b>Weight</b>	Approx. 2.2 kg (4.85 lbs)
<b>Color</b>	Black (RAL 9005)
<b>Mounting</b>	Stainless steel bracket

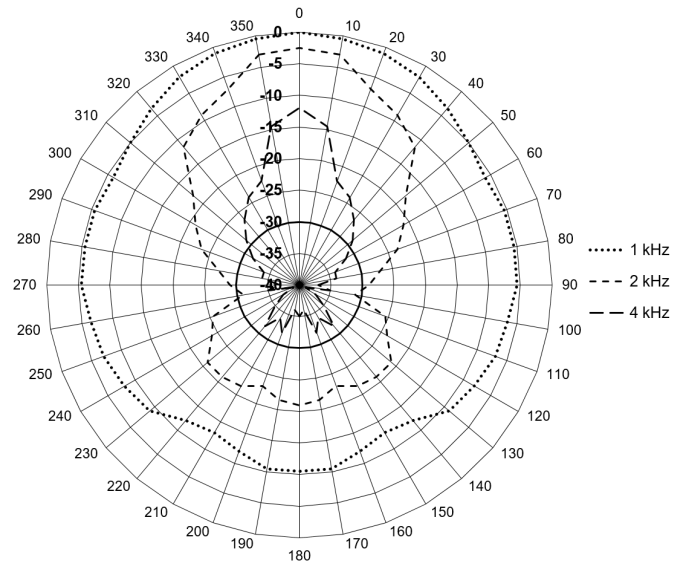
### ELECTRICAL DATA

<b>Rated power</b>	15 W
<b>Transformer tapplings</b>	100 V: 15 W / 8 W / 4 W / 3 W / 1.5 W / 0.8 W
<b>Sound pressure level 1 W, 1 m (3.28 ft)</b>	106 dB (+/-3 dB)
<b>Sound pressure level 15 W, 1 m (3.28 ft)</b>	116 dB (+/-3 dB)
<b>Effective frequency range</b>	380 Hz to 8,000 Hz
<b>Dispersion angle (-6 dB)</b>	1 kHz: 120° / 4 kHz: 37°

## DIMENSIONS

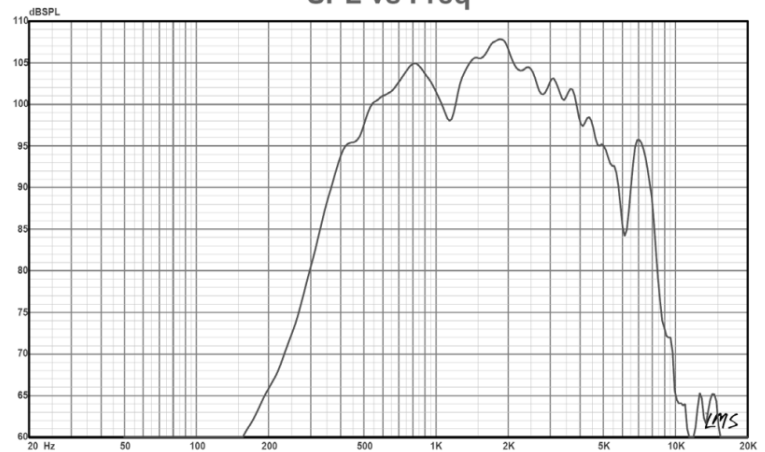


## POLAR DIAGRAMM



## FREQUENCY DIAGRAMM

SPL vs Freq



## MEASUREMENT CONDITIONS

Sound pressure level (SPL)	1 W / 1 m (3.28 ft)
Pink noise	1/3 octave filter
Zero level in frequency response	60 dB
Range	50 dB

## SOUND PRESSURE LEVEL RELATED TO DISTANCE

$P_{max}$ 15 W	Level (dB) at	(-6dB)	(-20dB)	(-28dB)	(-36dB)	
	1 m (3.28 ft)	2 m (6.56 ft)	10 m (32.81 ft)	25 m (82.02 ft)	65 m (213.25 ft)	
		116	110	96	88	80

## ENVIRONMENTAL REQUIREMENTS AND STANDARDS

<b>Ambient temperature during operation</b>	-50 °C to +60 °C (-58 °F to +140 °F)
<b>Relative humidity (non-condensing)</b>	Max. 95 %
<b>Degree of Protection</b>	IP66/67
<b>Approvals</b>	IECEX, ATEX, GOST, CQST, INMETRO
<b>Markings</b>	IECEX: Ex db eb mb IIB+H2 T4 Gb Ex tb IIIC T105° Db ATEX: Ex II 2G Ex db eb mb IIB+H2 T4 Gb Ex II 2D Ex tb IIIC T105°C Db

## ORDER DATA

<b>Type number</b>	001-215-022
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