



DSP 15 25W EExmNLT (IIB+H2)

## SPEAKER

### EXPLOSION-PROOF HORN SPEAKER

The speaker is especially designed for use in hazardous and noisy areas. The connection cable is inserted via an Ex e cable gland.

The power adjustment is carried out via different tapings on the primary side of the 100V transformer.

The MED type is certified for maritime use.



- Explosion-proof for Zone 1, 2, 21 and 22
- Robust industrial technology
- Sturdy and resistant design
- Stainless steel bracket
- Degree of protection IP66/67
- Also available as MED type

#### MECHANICAL DATA

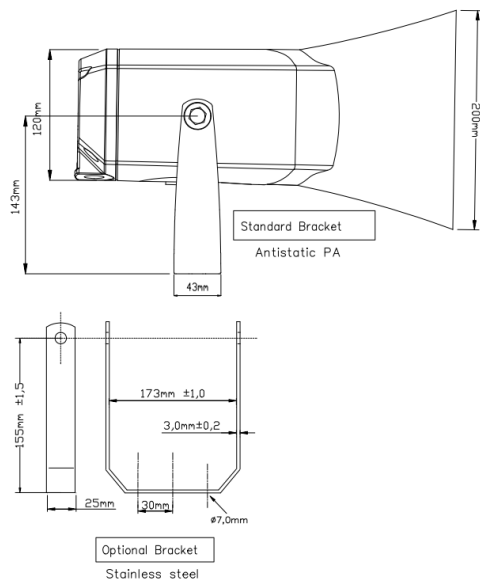
|                 |                                   |
|-----------------|-----------------------------------|
| Housing         | Special anti-static polyamide     |
| Width Length    | 170 mm x 348 mm (6.69" x 13.70")  |
| Horn dimensions | 275 mm x 200 mm (10.82" x 7.87")  |
| Cable entries   | 2 x M20 x 1.5                     |
| Cable gland     | 1 x M20,<br>1 x M20 stopping plug |
| Connection      | Push terminals                    |
| Weight          | Approx. 2.8 kg (6.17 lbs)         |
| Color           | Black (RAL 9005)                  |
| Mounting        | Stainless steel bracket           |

#### ELECTRICAL DATA

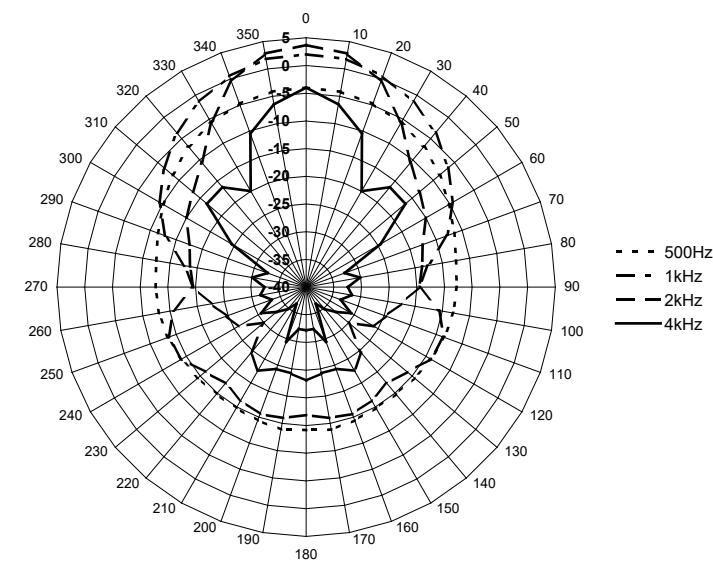
|                                             |                                                     |
|---------------------------------------------|-----------------------------------------------------|
| Rated power                                 | 25 W                                                |
| Transformer tapings                         | 100 V: 25 W / 15 W / 6.5 W / 5 W /<br>2.5 W / 1.5 W |
| Sound pressure level<br>1 W, 1 m (3.28 ft)  | 109 dB (+/- 3dB)                                    |
| Sound pressure level<br>25 W, 1 m (3.28 ft) | 122 dB (+/- 3dB)                                    |
| Effective frequency range                   | 380 Hz to 7,000 Hz                                  |
| Dispersion angle (-6 dB)                    | 1 kHz: 100° to 4 kHz: 30°                           |



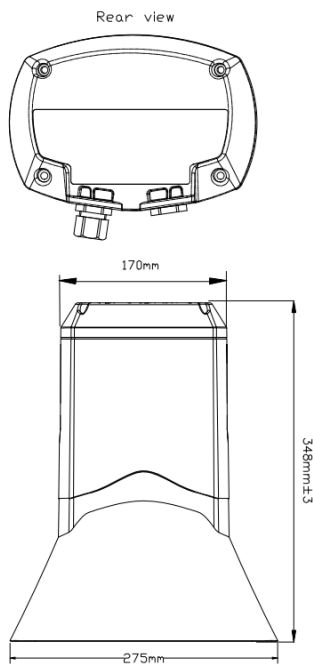
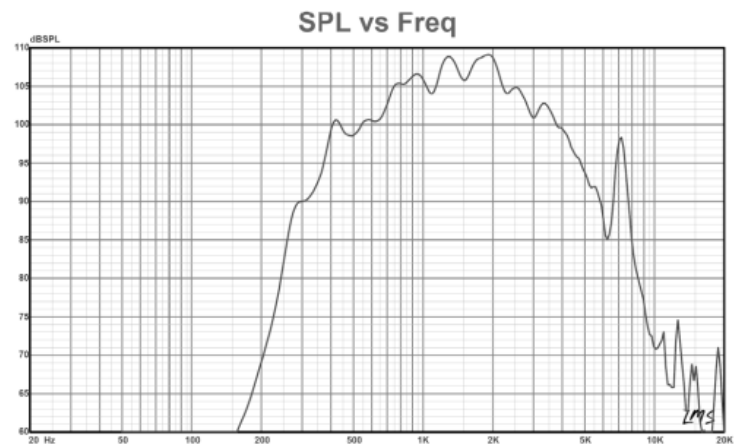
# DIMENSIONS



# POLAR DIAGRAM



# FREQUENCY DIAGRAM



# MEASUREMENT CONDITIONS

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

# SOUND PRESSURE LEVEL RELATED TO DISTANCE

| $P_{max}$<br>25 W | Level (dB)<br>at | (-6dB)           | (-20dB)            | (-28dB)            | (-36dB)             |
|-------------------|------------------|------------------|--------------------|--------------------|---------------------|
|                   | 1 m<br>(3.28 ft) | 2 m<br>(6.56 ft) | 10 m<br>(32.80 ft) | 25 m<br>(82.02 ft) | 65 m<br>(213.25 ft) |
|                   | 122              | 116              | 102                | 94                 | 86                  |

## ENVIRONMENTAL REQUIREMENTS AND STANDARDS

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

## ORDER DATA

| Type                            | Type Number     |
|---------------------------------|-----------------|
| DSP 15 25W EExmNLT (IIB+H2)     | 001-225-037     |
| DSP 15 25W EExmNLT (IIB+H2)-MED | 001-225-037/MED |

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