

# AL 10-T12 EN54

## Line-array Speaker



### Features and Functions

- Robust industrial technology
- Sturdy design
- For indoor and outdoor use
- Excellent speech intelligibility
- Degree of protection IP54
- Certified according to EN 54-24

The compact weather-proof column speakers of the AL 10-T12 EN54 series are used together with the INDUSTRONIC communication and public address system. They are ideal for indoors and outdoors. The speakers comply with the high safety requirements of EN 54-24:2008 and are therefore ideal for voice alarms.

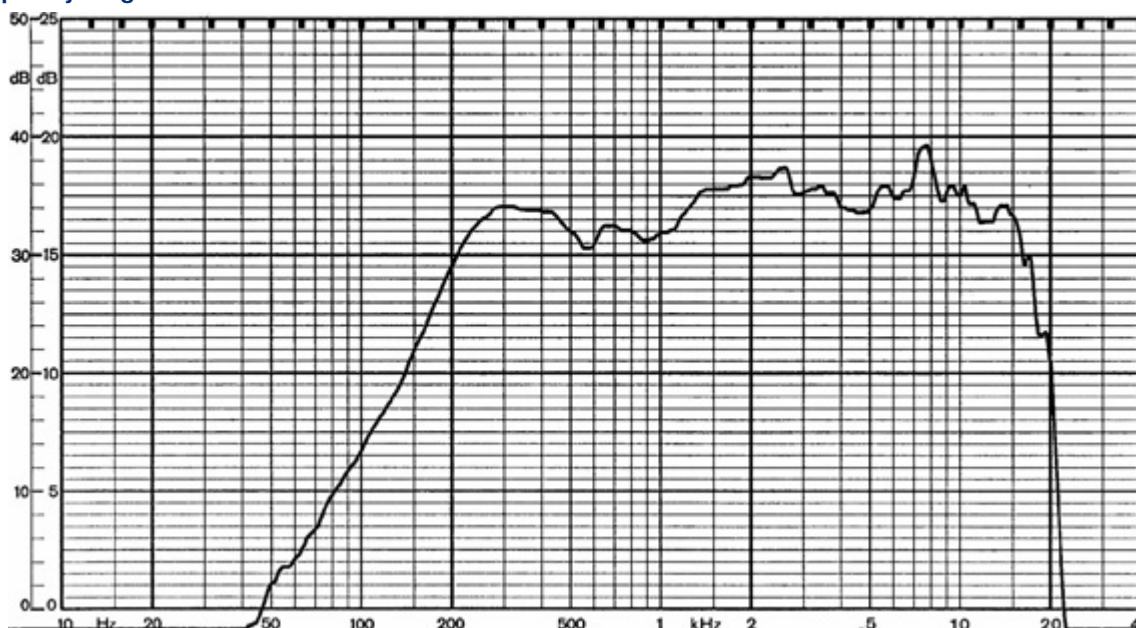
### Mechanical Data

• Housing	Plastic
• Cover	Perforated aluminum plate
• Width x height x depth	100 mm x 300 mm x 96 mm (3.9" x 11.8" x 3.8" )
• Weight	2 kg (4.4 lbs)
• Color	White
• Mounting	Metal bracket
• Connection	Junction box incl. ceramic terminals

### Electrical Data

• Rated power	12 W
• Transformer tapings	100 V: 12 W / 6 W / 3 W / 1.5 W
• Sound pressure level 1 W, 1 m	88 dB (+/-3 dB)
• Sound pressure level 12 W, 1 m	99 dB (+/-3 dB)
• Effective frequency range (-10 dB)	150 Hz to 18,000 Hz
• Dispersion angle horizontal (-6 dB)	1 kHz: 190°, 4 kHz: 100°
• Dispersion angle vertical (-6 dB)	1 kHz: 130°, 4 kHz: 40°

### Frequency Diagram



### Measurement Conditions

Sound pressure level (SPL): 1 W / 1 m

Pink noise: 1/3 octave filter

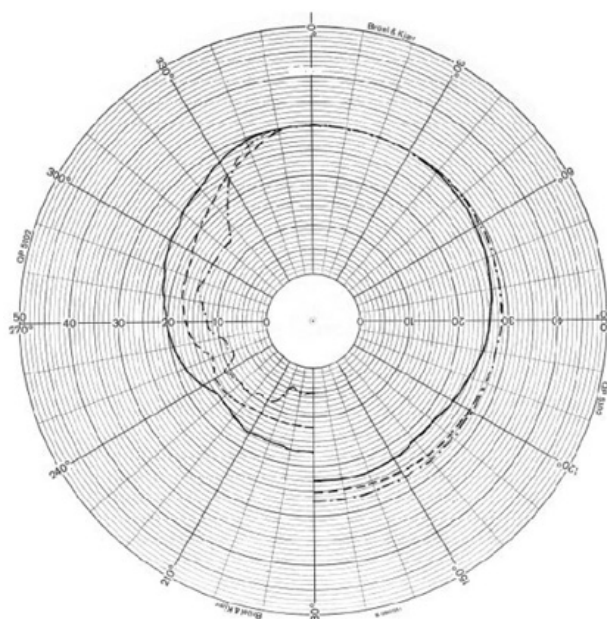
Zero level: 60 dB

Range: 50 dB

### Output Level Related to Distance

P max:	Level (dB) at	(-6 dB)	(-12 dB)	(-16 dB)	(-18 dB)	(-22 dB)	(-24 dB)	(-26 dB)	(-28 dB)
12 W	1 m	2 m	4 m	6 m	8 m	12 m	16 m	20 m	25 m
		99	93	87	83	81	77	75	73

### Polar Diagram



#### Right:

- ..... 200 Hz
- 500 Hz
- 1,000 Hz

#### Left:

- · - · - · 8,000 Hz
- 4,000 Hz
- 2,000 Hz

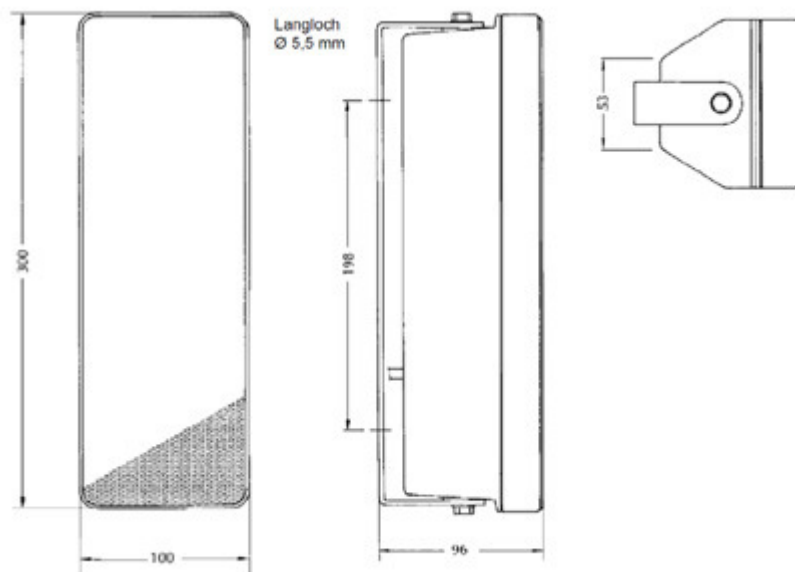


Fig. 1: Dimensional drawing AL 10-T12 EN54

#### Environmental Requirements and Standards

• Ambient temperature during operation	-20 °C to +60 °C (-4 °F to +140 °F)
• Humidity	Max. 95 %
• Degree of protection	IP54
• Approval	EN 54-24: 2008

#### Order Data

#### Type Number

001-212-017

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