

# EST-S186

## Ceiling-mounted Prompt Installation Loudspeakers

### Overview

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Ceiling mounted fire alarm EST-S186 loudspeaker is designed for operations at high acoustic levels and the highest reduction in power supply. Actual wide band high efficiency ensures the best understanding of verbal messages. Its parameters have been carefully selected to comply with suspended ceiling applications, both at standard and considerably elevated ceiling-to-floor distance.

Thanks to the most advanced technologies EST-S186 loudspeaker combines excellent acoustic parameters and high aesthetics with resistance to mechanical damages. It is distinguished by easy and quick installation.

Quality standards and audio characteristics have been confirmed through multiple tests and trials employing such facilities as e.g. echo-proof chamber, resistance and integrity testing equipment.

The EST-S186 loudspeaker ensure a balanced sound which is extremely important in emission of highly understandable speech.

The EST-S186 loudspeaker is noticeable thanks to its elegant looks. The loudspeaker part which becomes visible after the installation is covered by a common and aesthetic white paint coat (RAL 9003).

EST-S186 is equipped with a standardized fire dome made of soft steel and supplied with two cable penetrations with rubber glands. Special jig for sling assembling facilitates quick installation. Ceramic blocks and fireproof wiring coupled with temperature limit fuse are located inside fire dome.

The individual power rating is selected by means of connection with applicable transformer branch.

EST-S186 loudspeaker equipped with fire dome and thermal protections entirely comply with EN 54-24 Standards. In order to ensure 100% consistency with the highest quality standards, we test our loudspeaker following the most meticulous procedures that warrant high parameters of sound emission, safety, and reliability.

In spite of the fact our loudspeaker is designed for the highest reliability under fire conditions, their acoustic parameters and attractive low prices make them successful in any and all public address systems.



### Details

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- Compliance with EN 54-24
- Certificate of Conformity: 1438-CPR-0671
- Compliance with BS5839-8 standard (Thermal protection)
- The highest level of verbal communication understanding
- Elegant looks
- 6 W transformer allowing a precise selection of loudspeaker output power
- 100% protection of line from breaks and short-circuits

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### Technical specifications

#### Electrical

Rated power	6 W
Tappings 100 V line according to EN 54-24, W	6 / 3 / 1.5 / 0.75
Tappings 70 V line, W	3 / 1.5 / 0.75 / 0.375
Transformer impedance, Ω 100 V	1667 / 3333 / 6667 / 13333
Driver impedance	8 Ω
Effective frequency range	120 - 20000 Hz
Sensitivity at 4 m, 1 W	79 dB
SPL at 4 m, Rated power	86 dB
SPL at 1 m, 1 W, Test signal bandwidth 300 Hz - 6 kHz	91 dB
SPL at 1 m, Rated power, Test signal bandwidth 300 Hz - 6 kHz	99 dB
Dispersion at 500 Hz / 1 kHz / 2 kHz / 4 kHz, [°]	180 / 180 / 150 / 90

#### Physical

Physical dimensions	175 x 75 mm (Ø x H)
Net weight	0.66 kg
Colour	White (RAL 9003)
Mounting position	Ceiling
Housing material	ABS
Mounting	Spring clamp
Cut-out	Ø 150 mm

#### Environmental

IP rating	32C
Environmental type / IP Rating according to EN 54-24	A / IP21C
Min / Max Amb Temp	-10°C to +55°C

#### Standards & regulation

Standards	EN54-24
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