



LONG RANGE ARRAY SPEAKER 30W

HA-1030EN

The HA-1030EN is certified to the European Standard EN 54-24: 2008, Loudspeaker for voice alarm systems for fire detection and fire alarm systems In compliance with the British Standard BS 5839-8: 2008. DoP number is 23-103.

DESCRIPTION

The HA-1030EN is composed of multiple horn speakers positioned in an array. It is a highly efficient speaker. Clear voice can be transmitted to a distant place without acoustic correction. The built-in high-pass filter cuts the bass that can damage the speaker. A double drip-proof structure, and a salt-resistant paint finish, it has excellent durability in an outdoor permanent environment.

SPECIFICATIONS

| | |
|------------------------|---|
| Rated Input | 30 W |
| Rated Impedance | 100 V line: 330 Ω (30 W), 670 Ω (15 W) 70 V line: 170 Ω (30 W), 330 Ω (15 W) |
| Sensitivity | 109 dB (1 W, 1 m) (500 Hz – 5 kHz, IEC60268-5) |
| Max. SPL | 123 dB (30 W, 1 m) (500 Hz – 5 kHz, IEC60268-5) |
| Frequency Response | 550 Hz – 4.8 kHz (–10 dB) 360 Hz – 12 kHz (–20 dB) |
| Speakers Component | Horn speaker unit \times 4 |
| Operating Temperature | –20 $^{\circ}$ C to +55 $^{\circ}$ C (–4 $^{\circ}$ F to 131 $^{\circ}$ F) |
| Dust/Water Protection | IP66 |
| EN 54-24 | |
| Sensitivity | 88 dB (1 W, 4 m) |
| Max. SPL | 103 dB (30 W, 4 m) |
| Coverage Angle (–6 dB) | Horizontal: 190 $^{\circ}$ (500 Hz), 165 $^{\circ}$ (1 kHz), 85 $^{\circ}$ (2 kHz), 45 $^{\circ}$ (4 kHz) Vertical: 80 $^{\circ}$ (500 Hz), 45 $^{\circ}$ (1 kHz), 20 $^{\circ}$ (2 kHz), 15 $^{\circ}$ (4 kHz) |
| Environmental Type | B (outdoor applications) |
| Dust/Water Protection | IP33C |
| Speaker Cable | 4-core cabtyre cord 2 m (6.56 ft) |
| Cable Gland | Size: PG 13.5 – 12 (gray) \times 1 Cable Diameter Range: 12.5 – 6.5 mm (0.49" – 0.26") Size: PG 13.5 – 08 (black) \times 1 Cable Diameter Range: 9 – 4.5 mm (0.35" – 0.18") Two cable glands are factory-installed. |
| Input Terminal | Ceramic terminal (3-pole), can be bridge-connected \times 1 Ceramic terminal (2-pole) \times 1 Thermal fuse is included. |
| Applicable Wire Size | For Ceramic terminal (3-pole) Conductor: Solid wire or 7-core wire No bridge connection: 0.8 – 10 mm 2 (AWG 18 – 7) for solid wire, 0.8 – 8 mm 2 (AWG 18 – 8) for 7-core wire Bridge connection: 0.8 – 2.5 mm 2 (AWG 18 – 13) for solid wire, 0.8 – 1.5 mm 2 (AWG 18 – 15) for 7-core wire |
| Finish | Case: Aluminum, white (RAL 9016 equivalent), salt-resistant, paint Front grille: Aluminum, white (RAL 9016 equivalent), paint Bolts: Stainless steel |
| Dimensions | 167 (W) \times 665 (H) \times 140.5 (D) mm (6.57" \times 26.18" \times 5.53") (excluding projection) |
| Weight | 8 kg (17.64 lb) |
| Accessory | Terminal box \times 1 |
| Option | Speaker mounting bracket: YS-1100A |

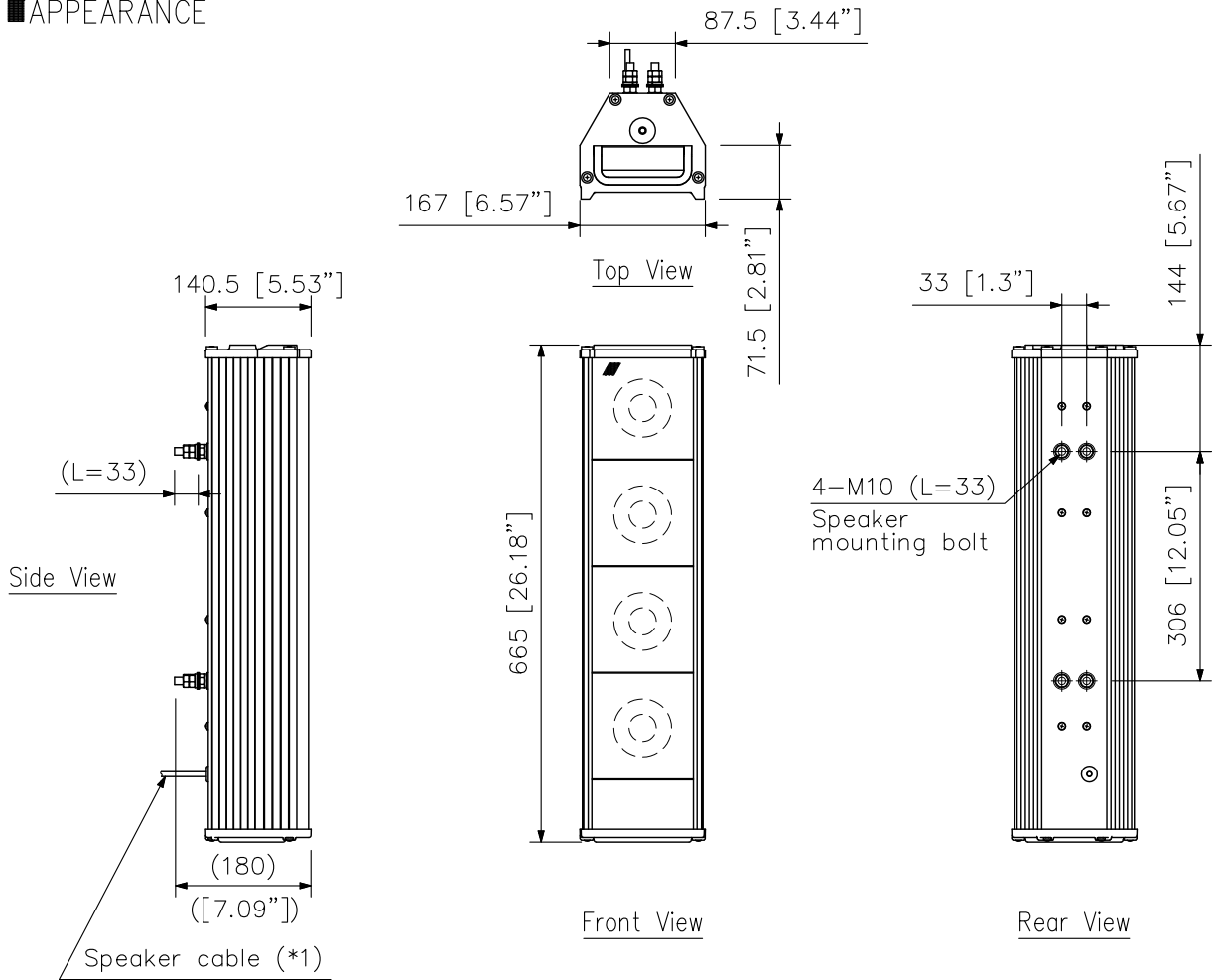
Notes: The speaker must be installed upright or facing down. Installing the speaker in any other position may render the drainage hole ineffective, eventually leading to an electrical failure or other damage.



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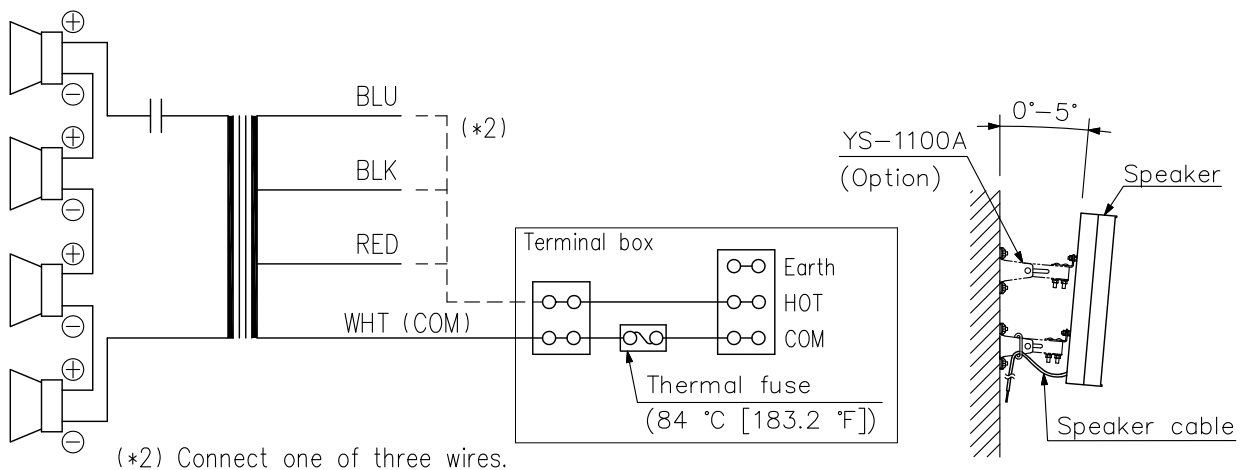
HA-1030EN

■ APPEARANCE



Speaker cable (*1)
($\phi 6.3$ mm
2 m
AWG20)

(*1) Wiring Precaution
Cut off or securely insulate any excess wires. Failure to do so could cause short circuits that might result in failures of the speaker or connected amplifier.



(*2) Connect one of three wires.

| | Imp. | 100 V line | 70 V line |
|-----|--------------|------------|-----------|
| RED | 170 Ω | - | 30 W |
| BLK | 330 Ω | 30 W | 15 W |
| BLU | 670 Ω | 15 W | - |
| WHT | | COM | |

Wiring Diagram

Note: Route the speaker cables in as short a configuration as possible by securing them to nearby brackets or other firmly fixed parts. Longer wiring distances may result in cable breakage due to strong winds or other potentially harmful conditions.

Speaker mounting example

UNIT:mm SCALE:1/10

Note: Numerical values in parentheses are for reference only.