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 × 4
IP code	IP66
EN 54-24 specifications	Sensitivity: 88 dB (1 W, 4 m) Max. SPL: 103 dB (30 W, 4 m) Coverage Angle (–6 dB): Horizontal: 190° (500 Hz), 165° (1 kHz), 85° (2 kHz), 45° (4 kHz) Vertical: 80° (500 Hz), 45° (1 kHz), 20° (2 kHz), 15° (4 kHz) Environmental Type: B (outdoor applications) IP Code: IP33C
Speaker Cable	4-core cabtyre cord 2 m (6.56 ft)
Cable Gland	Size: PG 13.5 – 12 (gray) ···1 Cable Diameter Range: 12.5 – 6.5 mm (0.49" – 0.26") Size: PG 13.5 – 08 (black) ···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 ···1 Ceramic terminal (2-pole) ···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 mm² (AWG 18 – 7) for solid wire, 0.8 – 8 mm² (AWG 18 – 8) for 7-core wire Bridge connection: 0.8 – 2.5 mm² (AWG 18 – 13) for solid wire, 0.8 – 1.5 mm² (AWG 18 – 15) for 7-core wire
Operating Temperature	–20 °C to +55 °C (–4 °F to 131 °F)
Finish	Case: Aluminum, white (RAL 9016 equivalent), salt-resistant, paint Front grille: Aluminum, white (RAL 9016 equivalent), paint Bolts: Stainless steel
Dimensions	167 (W) × 665 (H) × 140.5 (D) mm (6.57" × 26.18" × 5.53") (excluding projection)
Weight	8 kg (17.64 lb) (unit only)
Accessory	Terminal box ···1
Option	Speaker mounting bracket: YS-1100A

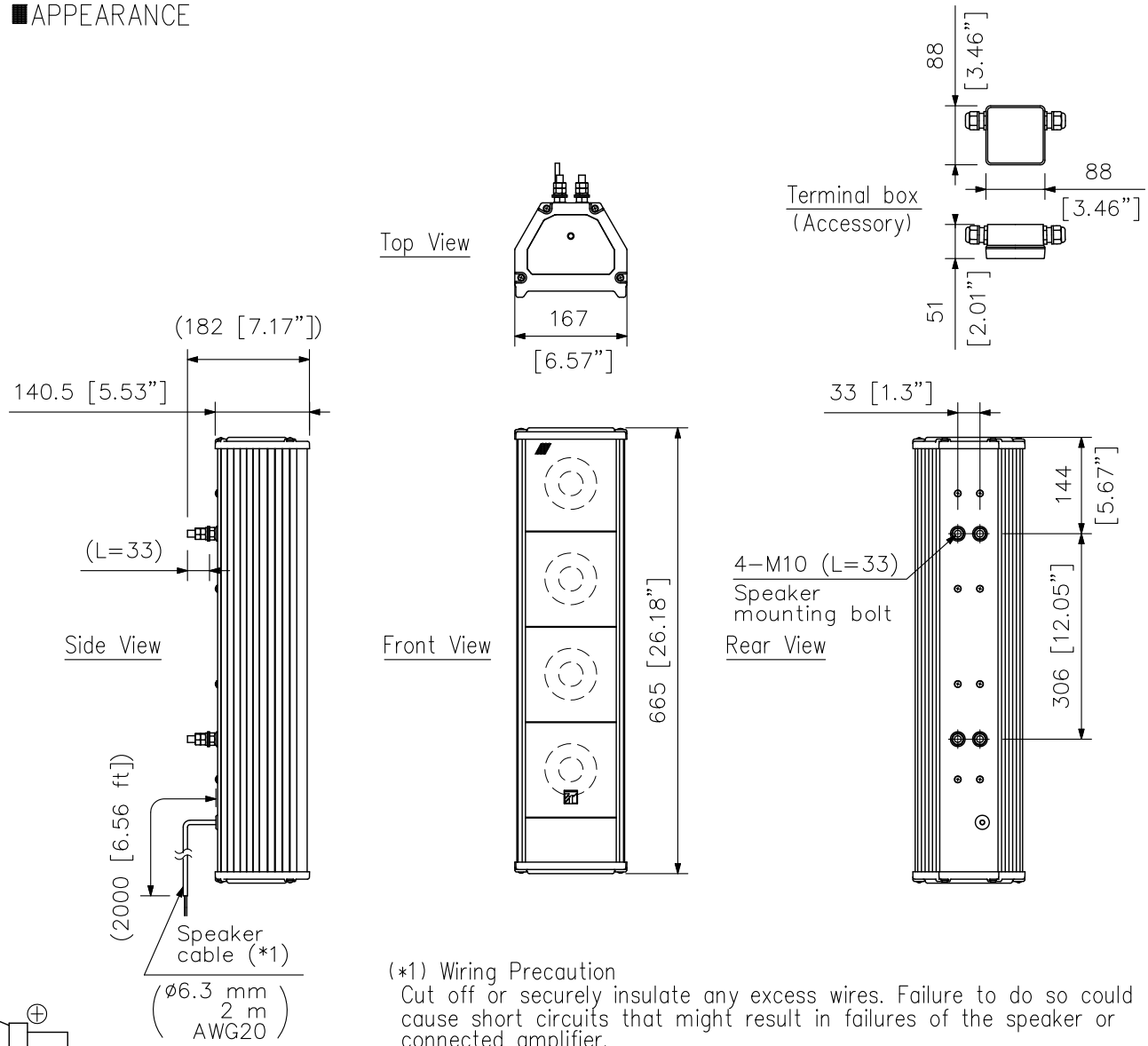
Notes: The speaker must be installed upright or facing down. Installing the speaker in any other position may render the drainage hole ineffective, eventually leading to an electrical failure or other damage.

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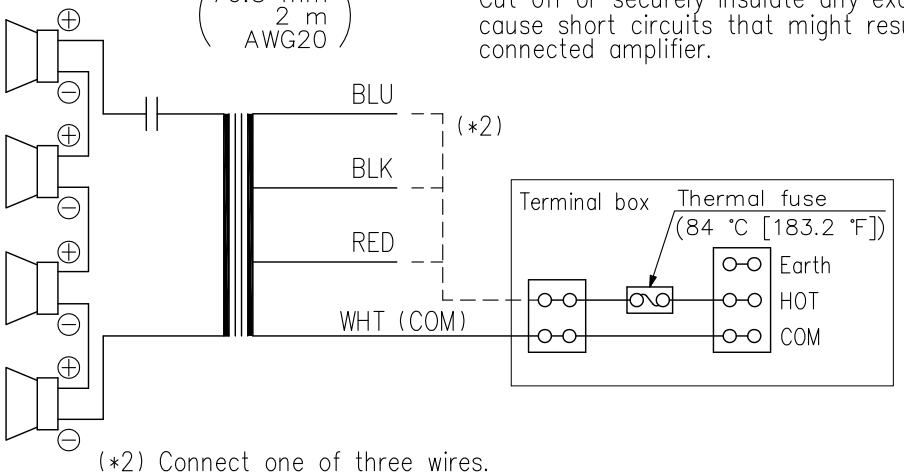
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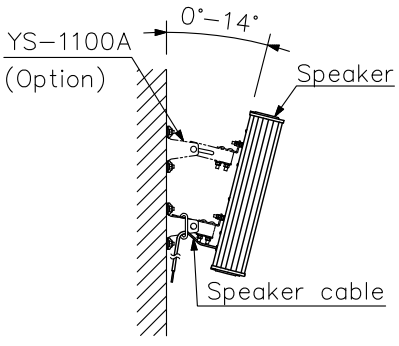
■APPEARANCE



(*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.

TOA Corporation

DWG No: GHA000C1