

The HA-1060EN 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

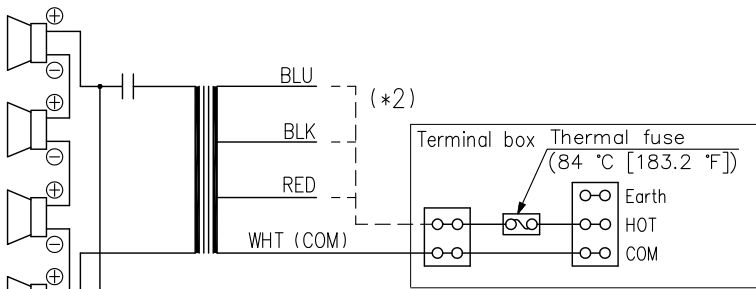
The HA-1060EN is composed of multiple horn speakers positioned in an array. It is a highly efficient speaker. Clear voice can be transmitted to a distant place without acoustic correction. The built-in high-pass filter cuts the bass that can damage the speaker. A double drip-proof structure, and a salt-resistant paint finish, it has excellent durability in an outdoor permanent environment.

■ SPECIFICATIONS

Rated Input	60 W
Rated Impedance	100 V line: 170 Ω (60 W), 330 Ω (30 W) 70 V line: 83 Ω (60 W), 170 Ω (30 W)
Sensitivity	111 dB (1 W, 1 m) (500 Hz – 5 kHz, IEC60268-5)
Max. SPL	128 dB (60 W, 1 m) (500 Hz – 5 kHz, IEC60268-5)
Frequency Response	520 Hz – 4.6 kHz (–10 dB) 350 Hz – 11 kHz (–20 dB)
Speakers Component	Horn speaker unit × 8
IP code	IP66
EN 54-24 specifications	Sensitivity: 89 dB (1 W, 4 m) Max. SPL: 106 dB (60 W, 4 m) Coverage Angle (–6 dB): Horizontal: 190° (500 Hz), 165° (1 kHz), 85° (2 kHz), 45° (4 kHz) Vertical: 40° (500 Hz), 25° (1 kHz), 15° (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 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
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) × 1233 (H) × 140.5 (D) mm (6.57" × 48.54" × 5.53") (excluding projection)
Weight	14 kg (30.86 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.

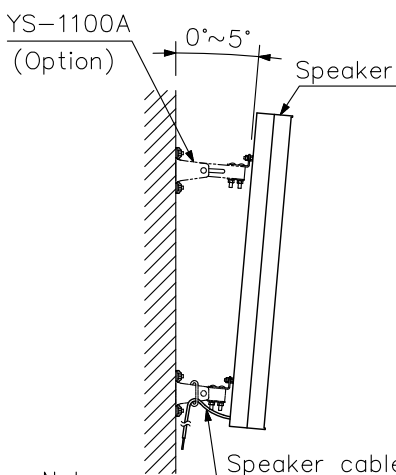
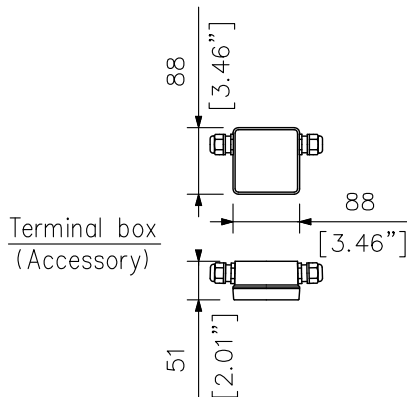
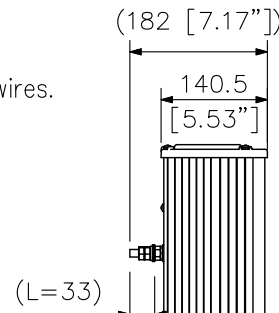
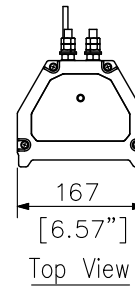
■ APPEARANCE



(*2) Connect one of three wires.

	Imp.	100 V line	70 V line
RED	83 Ω	—	60 W
BLK	170 Ω	60 W	30 W
BLU	330 Ω	30 W	—
WHT		COM	

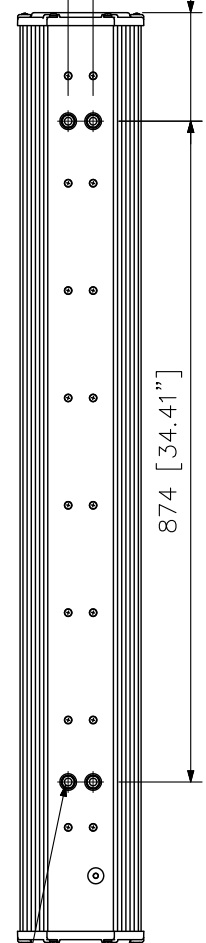
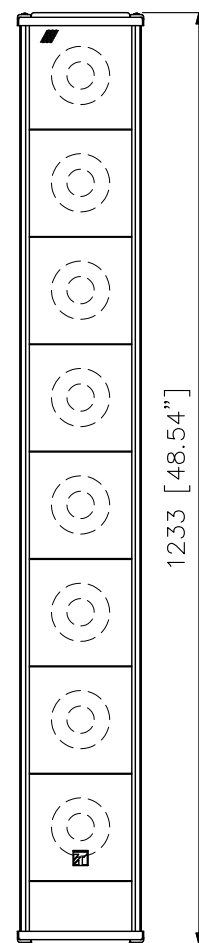
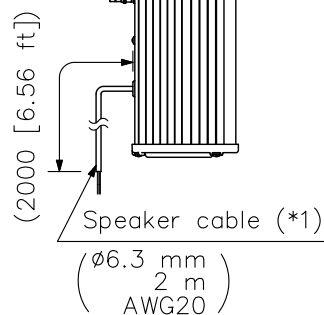
Wiring Diagram



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



4-M10 (L=33)
Speaker mounting bolt

(*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.

Note: Numerical values in parentheses are for reference only.