

LONG RANGE ARRAY SPEAKER 120W

HA-2120EN

The HA-2120EN 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 23-104.

■DESCRIPTION

The HA-2120EN 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. Drip-proof structure, and a salt-resistant paint finish, it has excellent durability in an outdoor permanent environment.

■ SPECIFICATIONS

Rated Input	120 W
Rated Impedance	100 V line: 83 Ω (120 W), 170 Ω (60 W)
,	70 V line: 42 Ω (120 W), 83 Ω (60 W)
Sensitivity	113 dB (1 W, 1 m) (500 Hz - 5 kHz, IEC60268-5)
Max. SPL	133 dB (120 W, 1 m) (500 Hz - 5 kHz, IEC60268-5)
Frequency Response	500 Hz - 4.3 kHz (-10 dB)
	290 Hz - 8 kHz (-20 dB)
Speakers Component	Horn speaker unit × 3
IP code	IP66
EN 54-24 specifications	Sensitivity: 91 dB (1 W, 4 m)
·	Max. SPL: 110 dB (120 W, 4 m)
	Coverage Angle (-6 dB):
	Horizontal: 200° (500 Hz), 120° (1 kHz), 65° (2 kHz), 40° (4 kHz)
	Vertical: 80° (500 Hz), 40° (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: $0.8 - 10 \text{ mm}^2 \text{ (AWG } 18 - 7)$ for solid wire,
	$0.8 - 8 \text{ mm}^2 \text{ (AWG } 18 - 8) \text{ for } 7\text{-core wire}$
	Bridge connection: $0.8 - 2.5 \text{ mm}^2 \text{ (AWG } 18 - 13) \text{ for solid wire,}$
	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: FRP, white (RAL 9016 equivalent), paint
	Front grille: Aluminum, white (RAL 9016 equivalent), paint
	Bolts: Stainless steel
Dimensions	215 (W) × 555 (H) × 309 (D) mm (8.46" × 21.85" × 12.17")
	(excluding projection)
Weight	16 kg (35.27 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.

