

Multi-purpose Loudspeaker¹

HPSA15

Overview²

The HPSA15 loudspeaker is a high-efficiency double re-entrant loudspeaker that delivers 15-watts of continuous power. Its unique design provides exceptional intelligibility, making it ideal for fire alarm and life safety applications. It is UL 1480 listed as a fire protective signalling speaker.

The HPSA15 operates within a nominal frequency response range of 400-14,000 Hz, and provides audible output of 120 dB (peak at one meter) at the rated power level. It includes a versatile, three-way, 25/70.7 V line transformer that meets a variety of distributed system needs. The transformer is adjustable by means of a convenient seven-position, watts/impedance selection switch. This labor-saving switch is screwdriver adjustable and includes a protective cover with built-in cable strain relief.

The HPSA15 features an innovative mounting bracket that, with a single adjustment, provides precise positioning in both the vertical and horizontal planes. It also allows the HPSA15 to be installed on conventional surfaces or strap-mounted on I-beams or pillars. Durable epoxy-coated metal and ABS plastic components are weather-resistant suitable for indoor or outdoor use.

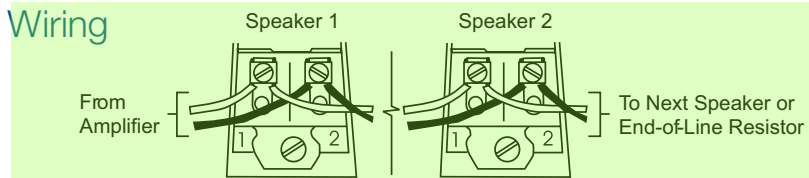
Standard Features⁶

- Superior intelligibility for voice and tone signaling
- High-efficiency driver with proven performance reliability
- Suitable for installation on supervised circuits
- Includes a versatile 25/70.7 transformer for line applications
- UL 1480 listed as fire protective signalling speakers
- Adjustable bracket for precise positioning
- Environment resistant for outdoor and indoor use
- Available in gray or red finish

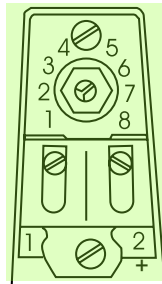
Application⁸

HPSA15 weather-resistant loudspeakers feature highly intelligible voice and signal transmission for medium-power indoor and outdoor fire alarm, mass notification, and security applications. They incorporate high-efficiency compression drivers that project sound over long distances or wide areas with fewer loudspeakers. HPSA15 loudspeakers are ideal for installation in commercial buildings, distribution centers, factories, schools, public access areas, civic centers and recreational facilities. They are suitable for installation on supervised circuits.

Wiring



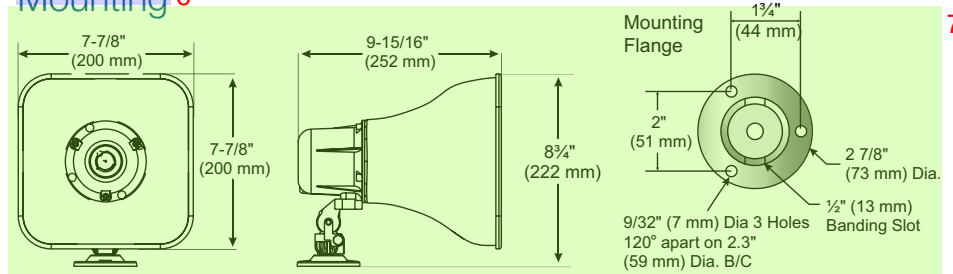
Configuration



Switch Position	Impedance	25V Line	*dB at 10 Ft.	70V Line	*dB at 10 Ft.
1	5.0 K	-		.9 W	93
2	2.5 K	-		1.8 W	96
3	1.3 K	.48 W	90	3.8 W	98
4	666	.94 W	93	7.5 W	101
5	333	1.8 W	96	15.0 W	103
6	89	7.5 W	101	Do Not Use on 70 V	
7	45	15.0 W	103		

* UL 3 dB Increment Rating

Mounting



Specifications

Power Rating	15 Watts
RMS Frequency Response	400 - 14,000 Hz
Sensitivity	120dB at 15 watts (peak) / 1 Meter 116dB at 15 watts / 1 Meter (avg) 500-6,000 Hz 106dB 1 Watt / 1 Meter (avg) 500-6,000 Hz
Capacitor Rating	5 mfd
Power Taps	1, 2, 3.8, 7.5, 15 @ 70.7V
Dispersion	70°
Conduit	1/2" connection
Sound Level	103 dB (UL 10' Rating)
Operating Environment	All models meet or exceed the UL Listed standards for audible signal appliances and are capable of operating within an ambient temperature range of 66°C (150°F) to -35°C (-30°F).
Listings	UL 1480

Ordering Information

Part Number	Description	Ship Wt., lb (kg)
HPSA15R2570	15-watt loudspeaker, red	5.0 (2.27)
HPSA15G2570	15-watt loudspeaker, gray	5.0 (2.27)