

ELK-800 Installation

Wiring Connections

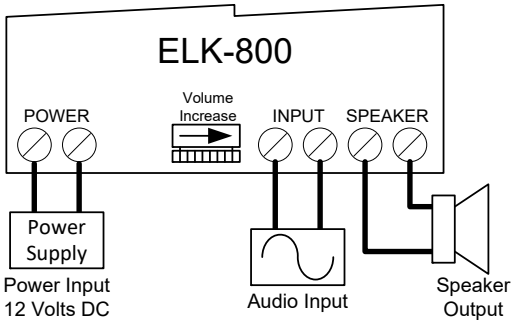
- POWER:** Connect to a good quality 12 to 18 volts A.C.or D.C.**Power Source. No Polarity. D.C.Power is recommended for a cleaner output.
- **NOTE:**The ELK-800 is primarily designed for short duration (intermittent) paging applications. For long durations, such as playing music, you may need to reduce the volume output, lower the power input voltage, or lower the speakerloading in order to keep the ELK-800from over loading and shutting down.
- INPUT:** Connect an audio input source. i.e.:microphone, telephone PBXor KEYsystempaging output, etc.,even an ordinary single line phone set (seediagram below).
- SPEAKER:** Two (2) ohm maximum load. Speakers maybe series/parallel wired for multiple speaker combinations up to 16 speakers.**

Volume Control

Turn the volume control clockwise (CW)to increase volume. Adjust to a comfortable level.

Power Supply Wire Sizing

Number of Speakers	Wire Length (ft)	
	24 AWG	22 AWG
4	100	160
2	200	320
1	400	640



Input Wire Sizing

When using a remote power supply and 24 AWG wire, the length of the audio wire should be limited to 3000 feet with a maximum of four (4) ELK-800 amplifiers connected. Standard telephone twisted pair wire is a good choice for the audio wire run.

Recommended SpeakerSpacing for Paging Applications

Ambient Sound Level	Location	Speaker Spacing
Quiet 50 to 65 db	Offices	120 feet (14,400 sq. ft.)
Moderate 65 to 80 db	Light Manufacturing	90 feet (8,100 sq. ft.)
Noisy 80 to 90 db	HeavyManufacturing	60 feet (3,600 sq. ft.)
Very Noisy +90 db		40 feet (1,600 sq. ft.)

