

BOGEN[®]

COMMUNICATIONS, INC.

VAR-1

Voice Activated Relay

Description

The VAR Voice Activated Relay is a DPDT relay device which is activated when an audio signal is detected at the microphone preamp or at 70V, 25V, or 600-ohm line level inputs. It has a number of useful application, such as muting a sound system in response to a microphone or telephone page, activation of accessory (security) equipment, or activation of a zone page module.

A slide switch is included to select the preamp or line inputs. The VOX detect circuit also includes a volume control, sensitivity control and delay control. The audio output is an ~~isolated 600-ohm transformer~~. The unit operates from a DC power source (not included).

Installation

Set input source switch on the top side of the unit to LINE if using one of the line inputs or to MIC if using a microphone.

Connect a power supply to the 12-24VDC jack on the top of the unit or to the + and - screw terminals. The Bogen model PRSASAC power supply is recommended.

Wiring

Refer to the block diagram below and the sample wiring diagrams on the next page to wire the VAR-1 for your application.

Operation

Sensitivity can be adjusted according to the needs of the application. Clockwise rotation of the control increases sensitivity. Do not over rotate the control or you may damage the trim-pot.

The delay control is also adjustable in the field. The maximum delay time is 25 seconds. Clockwise rotation of the control increases delay time.

Specifications

Line Input

Impedance: 600 ohms

Frequency Response: 100Hz to 10KHz

70V Input Impedance: 200K ohms

Output Level: 400mV rms

25V Input Impedance: 75K ohms

Output Level: 420mV rms

MIC Preamp

Gain: 62db

Sensitivity: 750 microvolts, rms for 1V rms out

Distortion: < 2%

Frequency Response: 200Hz to 10KHz

Output Signal-to-Noise Ratio: 55db

VOX Sensitivity: 20mV - 150mV rms

@ 600-ohms Line Input

Time Delay Range (approx.): 0.25 to 25 sec.

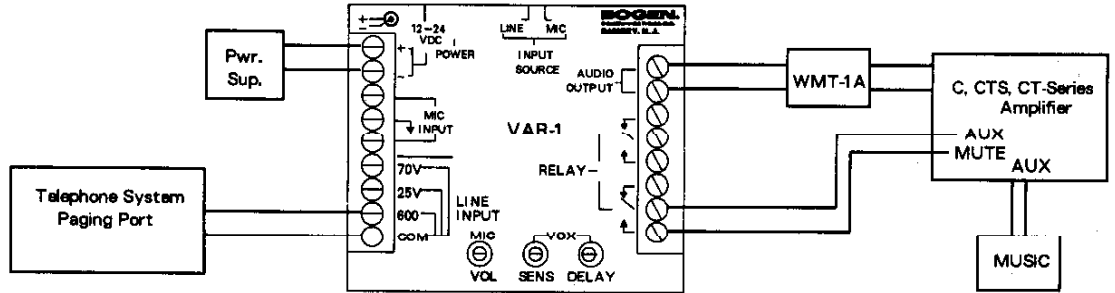
Relay Contact Rating: 2 amps/30V DC, 0.5 amp./120V AC

Service

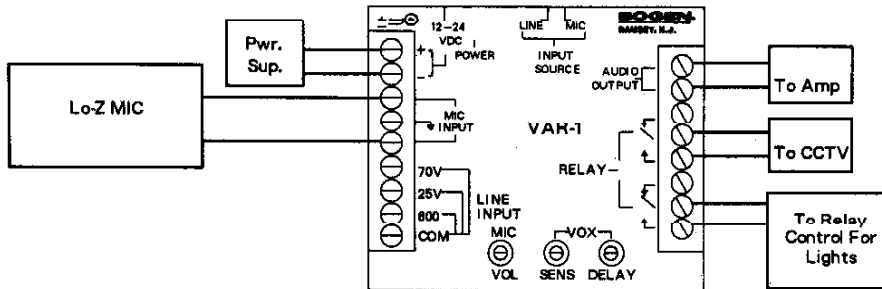
There are no user serviceable components within the VAR-1. The warranty may become void if the unit is serviced by other than an authorized Bogen service agency.

Contact the Bogen Applications Engineering Department if you have questions concerning VAR-1 applications.

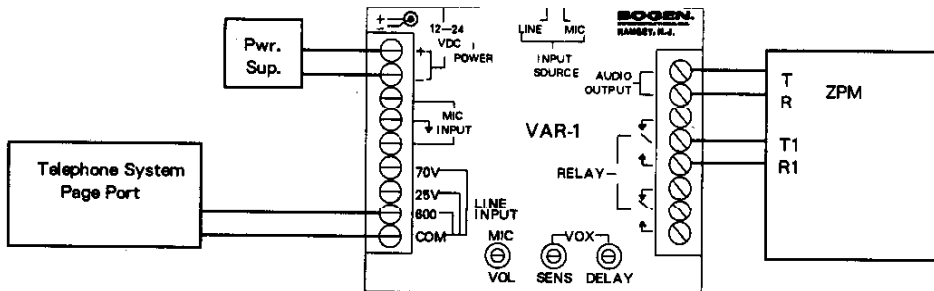
VAR-1 used with C, CT, or CTS Series amplifiers to mute music during a telephone page (page port without contact closure).



VAR-1 used in a security system to activate an amplifier, CCTV and light relay control.



VAR-1 used with zone page module.



VAR-1 Block Diagram

