

# EVX-4Z / EVX-2ZA ZONE SPLITTER

The EVX-4Z / EVX-2ZA are modules intended for use with the EVAX 25/50. Their purpose is to enable the output of the EVAX 25/50 to be split into multiple zones for paging and alarm selection. The modules accept input from the EVAX 25/50 speaker output and utilizing selectable output relays distribute the output to the individual zones. The modules may be cascaded to increase the number of zones. The modules provide supervision of the individual zones for either open or short conditions. Indicator LEDs display active or fault condition for the individual zones. Fault condition is reported to the FACP through the same supervisory path as the EVAX 25/50. Zones may be selected manually by switches or through pull-down inputs. In the event of an alarm condition, module defaults to an All-Call. All-Call feature may only be overridden if accompanying panel has zone control features.

## OPERATION

In normal standby the EVX-4Z / EVX-2ZA will supervise each speaker zone wire loop. The EVX-4Z / EVX-2ZA will provide Style Y and Style Z supervision respectively. Upon an open or short condition the Yellow LED for that zone will light. A N.C. relay contact will open to present a corresponding fault to the FACP providing supervision to the EVAX 25/50.

To manually select a zone, the corresponding switch is set in the Active position. It's Red LED will light, and it's output relay activation will be enabled. On activation of the PTT signal from the EVAX 25/50, the output relay will connect the zone to the EVAX 25/50 speaker output. While the zone is selected, supervision is suspended. **DO NOT** leave zones in this condition unattended.

In alarm condition the EVX-4Z / EVX-2ZA defaults to an All-Call. On activation of the EVAX 25/50 V+ Alarm output, all zones are automatically selected, enabling evac tone and message to play. Modules will have field selectable option for alarm zone activation only if the FACP has the ability to provide separate pull-down inputs.

Each zone is limited to no more than 20W and total speaker load is not to exceed output rating of the EVAX 25/50. Upon a short condition, a PTC on the zone will open excluding that zone from output and enable the other zones to continue operating. Once short is removed, speaker line must be disconnected for 30 seconds to reset the PTC. Speaker output may be 25/50 or 70 VRMS selected by a jumper position.

### TB1:

**Ter. 1 - 8** Speaker Output 25/70 VRMS  
15W Max speaker load per zone.

### TB2:

**Ter. 1 & 2** - Speaker Input

**Ter. 3** - PTT (Push To Talk signal)

**Ter. 4** - V+ (24V DC 0.10A)

**Ter. 5** - Alarm Active

**Ter. 6** - Circuit Negative

**Ter. 7 / 8 / 9** - Aux. Trouble Relay

7 - N.O. / 8 - C / 9 - N.C.

Contact Ratings: 1A @30VDC  
Connect to Resistive Load, Class II Power or Power Limited Sources Only. Interconnected Equipment Must be in Same Room and Mounted Within 20'.

**Ter. 10 & 11** - Supv. Circuit Input

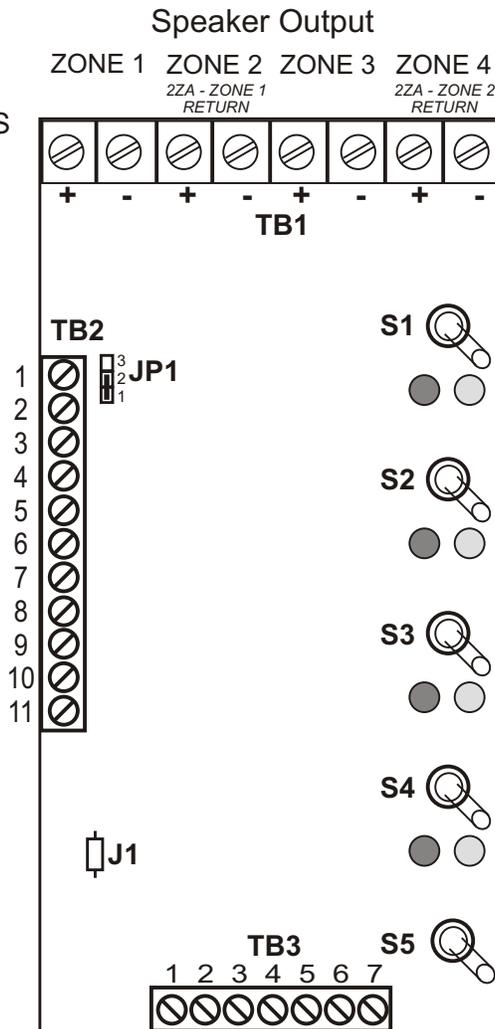
### TB3:

**Ter. 1 & 2** - EOLR / Supv Out

**Ter. 3 - 7** - Aux. Zone Activate  
(Pull Down)

3 - ALL CALL / 4 - Zone 4

5 - Zone 3 / 6 - Zone 2 7 - Zone 1



### SWITCHES:

**S1 - S4** - Zone select switch

**S5** - ALL CALL select

### JUMPERS:

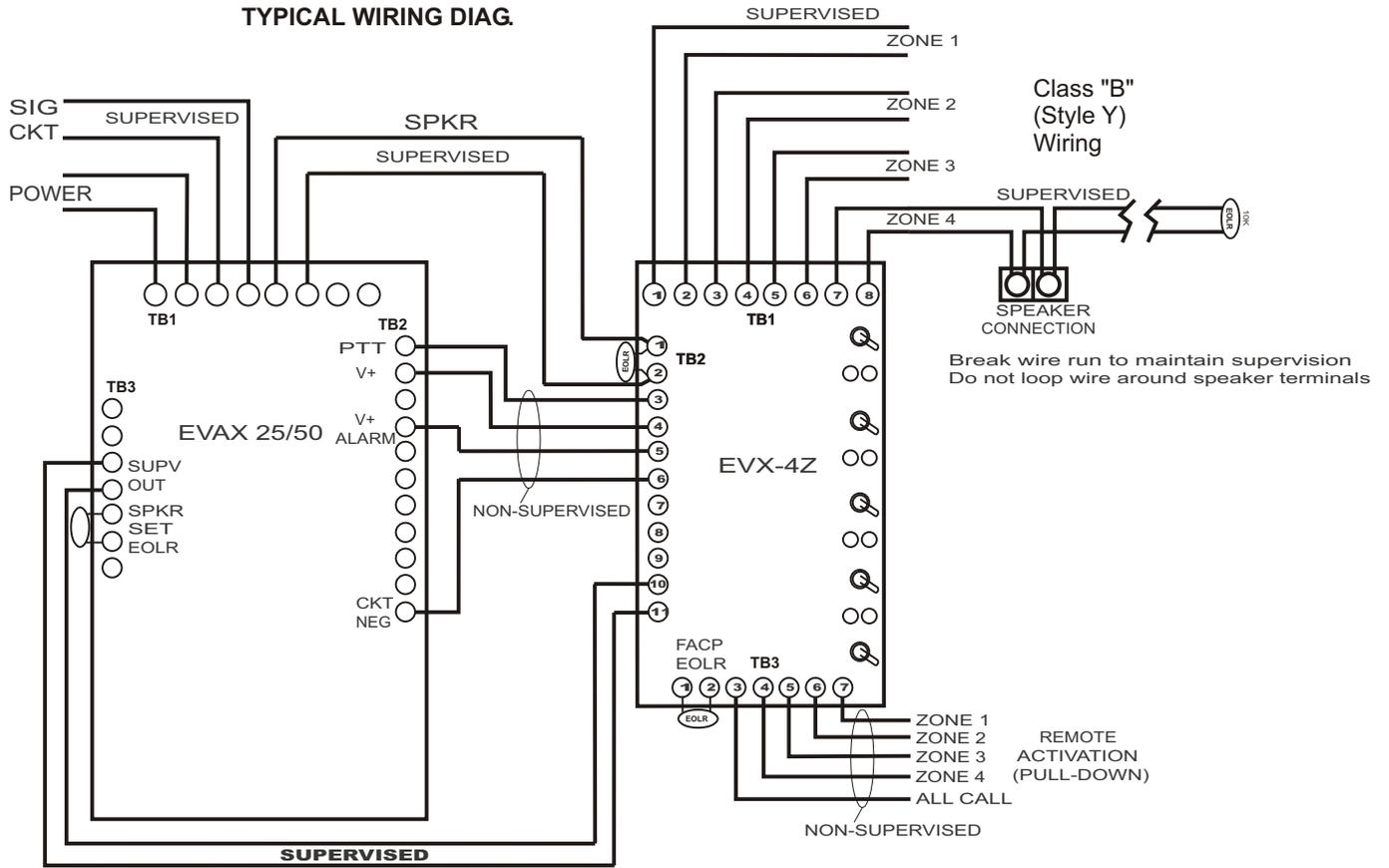
**JP1** 1-2 Short - Audio Enabled  
2-3 Short - Audio Disabled

**J1** - ALL CALL on Alarm Active  
Remove J1 for Alarm by Zone Activation

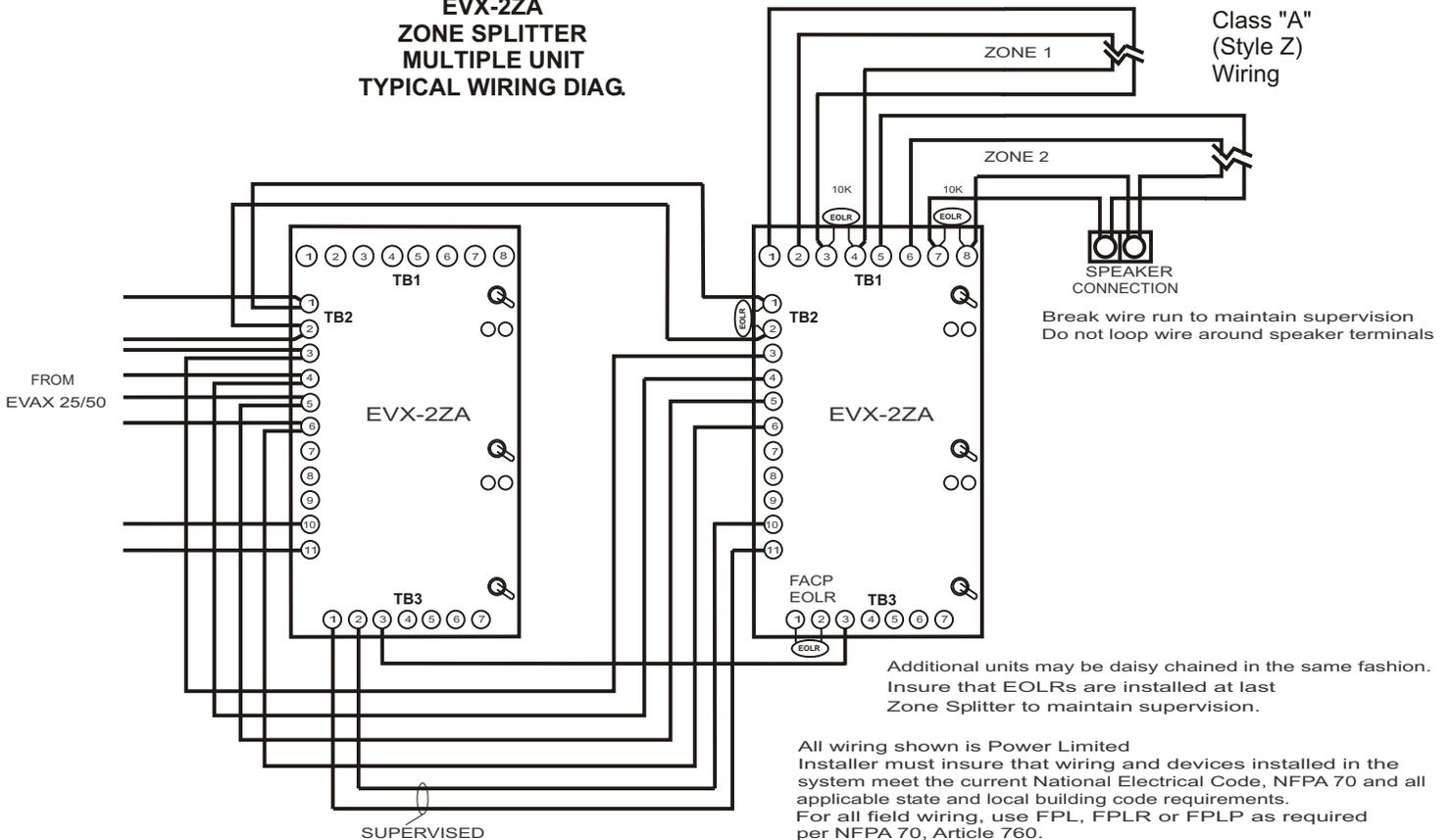
### SPECIFICATIONS:

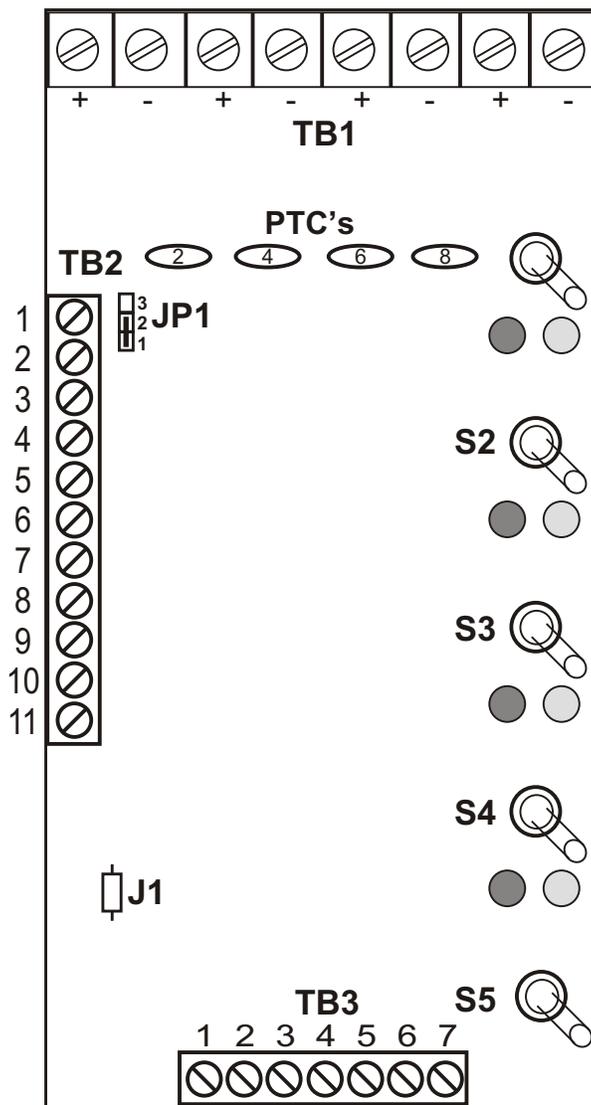
Power: 24 VDC  
0.045A Standby  
0.130A ALL CALL Active

**EVX-4Z  
ZONE SPLITTER  
TYPICAL WIRING DIAG.**



**EVX-2ZA  
ZONE SPLITTER  
MULTIPLE UNIT  
TYPICAL WIRING DIAG.**





PTC 2, 4, 6 & 8 provide output protection for Speaker Zones 1 - 4 respectively.

The EVX-4Z / EVX-2ZA is shipped with PTCs for 25V operation. Each PTC is installed in a two pin socket for easy replacement. If you need 70V speaker lines, be sure to change all four PTCs to the optional ones provided.

Jumper JP1 should be left in it's default position.

For 25V operation, **Leave the current PTCs installed.**

If you have any questions,  
Please call Tech Support  
**888-382-9835**