

PLENA Voice Alarm System

Override relay behavior



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1. Introduction

The Voice alarm System is a two channel system with supervision via a 20 kHz pilot tone. Using a pilot tone has ramifications for the connected amplifiers and override relays.

From the manual

Internally, the positive override pins (Z+) are all connected to either the NC or the NO contact of the Volume Override output (see figure 5.10). The negative override pins (Z-) are all connected to earth.

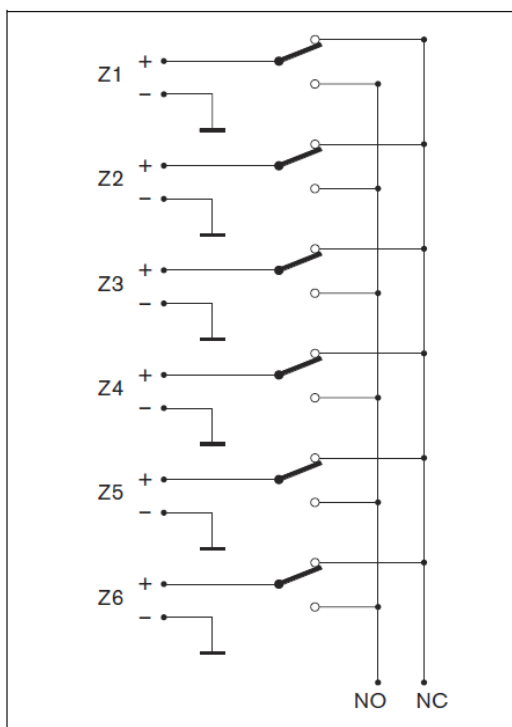


figure 5.10: Volume override contacts

If a zone is set to receive background music, it is connected to the BGM (back ground music) bus that is fed from the BGM amplifier. That amplifier also delivers the a pilot tone. If a call is made, the relay of the target zone will connect that zone to the call bus, fed by the call amplifier. Other zones are either connected to the BGM amplifier or not connected to an amplifier for the duration of the call.

If no call is running the zone with BGM are connected to the BGM bus. All other zones are connected to the call bus so they have the pilot tone from the call amplifier.

This also means that in two channel mode the zones that do not have BGM, have the volume override relay in the call position.

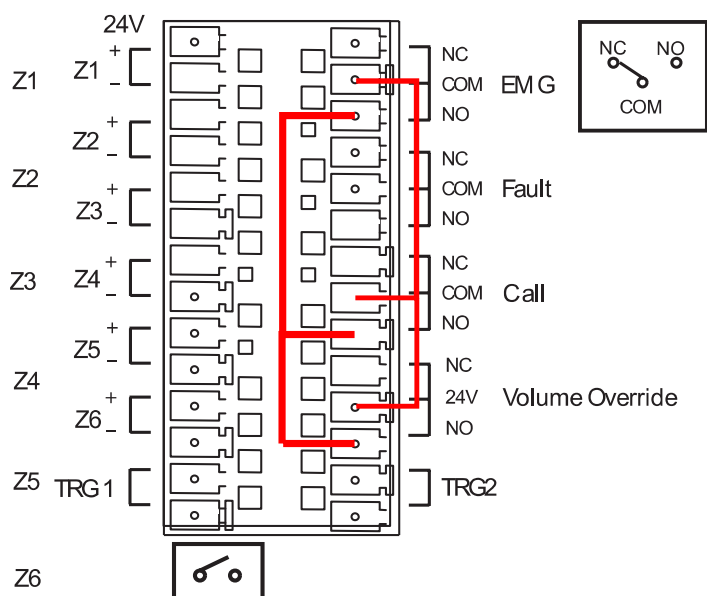
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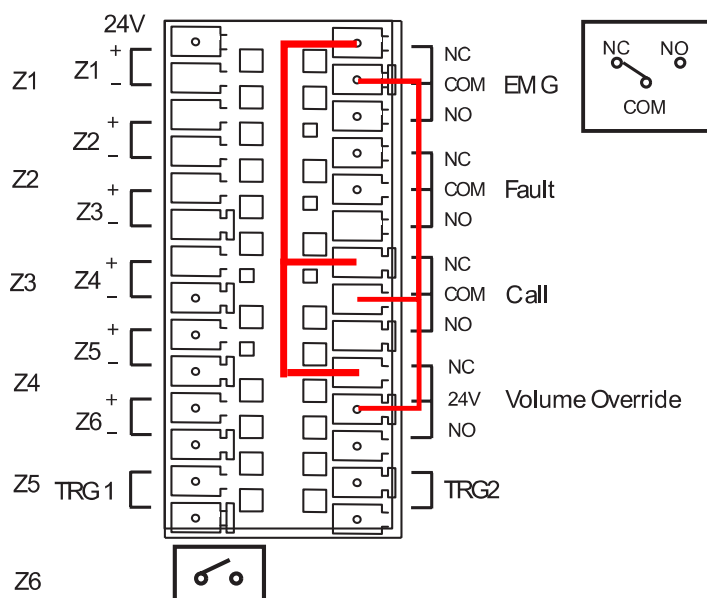
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If that is not wanted, please just wire the call active relay in series with the NO or NC bus. That will globally enable 24V, ground or the 100V to the override relays (depending on your setup, power save or fail safe).



Example for power save mode.



Example for failsafe mode

2. Definitions, acronyms and abbreviations

AN	Application note
VAS	Voice Alarm Controller
Pcs	Pieces

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EMG

Emergency

3. About

Bosch Security Systems B.V.
Sales Support Organization PA
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