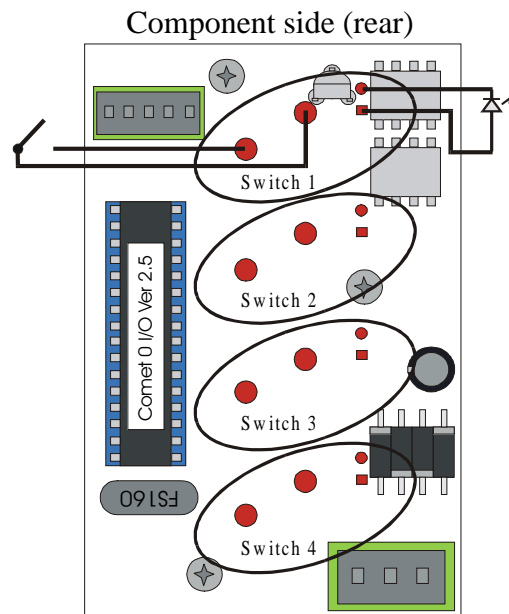


Tech Note

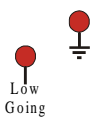
# #131 Comet 0 I/O Wiring




[23 Jul 2002]




## Switch Contacts:

 Any dry contact closure may be wired to the switch contacts to trigger the programmed function of the Comet 0 I/O.

## LED Contacts:

 Any 5V logic device (up to 10mA) may be wired to the LED contacts to indicate an action on the respective switch contact.



## General Description

The Comet 0 I/O is a version of the Intelix Comet 4 remote control module that has no buttons or LEDs. The Comet 0 I/O is a control module for the MZP (Multi-Zone Paging and Program Distribution System) that is used when external contact closures or +5 V logic signals need to be used to trigger the MZP to react to an external device.

The carefully optimized design allows the Comet 0 I/O to conveniently interconnect with standard Comet devices in LAN bus topology. Up to 128 Comet devices can be utilized with 1 MZP matrix mixer via ReO bus communication. Each Comet can be easily assigned to perform its defined functions using the MZP setup software.

The Comet 0 I/O makes the MZP an ideal choice for zone paging and program routing applications where external devices such as relays, message repeaters, emergency systems, and other devices are capable of producing contact closures or 5V logic signals.

## Circuit Board Description

The above printed circuit board drawing shows the necessary contact points for 4 contact closures and their 4 corresponding LED contacts.

### Contact Closures

The contact closures can be activated by either a SPST switch or a 5V logic low signal. A logic signal must be active low. 0 Volts activates the contact, whereas +5 Volts is used for inactive status. A typical logic connection to switch input 1 is shown in the above drawing.

### Output drivers

The 4 output driver contacts can be connected to any 5 VDC devices operated with a current sink capacity of 10 mA or less. The outputs are controlled by the system software, which typically turns an LED on when its switch contacts are active. These signals can be used for external indicators (LEDs or lamps). In standard software the outputs track the state of their respective contacts; that is if switch #1 contacts are active, the LED #1 output will be high.