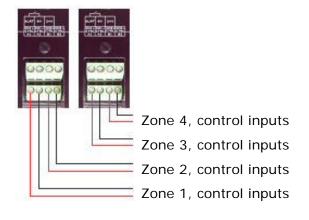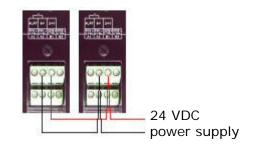# C Family ALERT wiring information

The ALERT output as used in the C Family of products can be used as follows. In each example, typically 1 to 16 of the CZ2H-IDC2 units can have the ALERT outputs wired as shown. The wiring should be done in a way to minimize exposure to electrically noisy environments. The 24 VDC power supply that is being used with the C Family installation should also be used with the ALERT wiring. This power supply should be wired to the PLC card in accordance with their instructions.

When the switched product is a Power-io solid state relay or I/O module, the + of the 24 VDC power supply is wired to the + control input of the Power-io solid state relay or I/O.

Zone 4, control inputs

Zone 3, control inputs

Zone 2, control inputs

Zone 1, control inputs

24 VDC power supply

1-16 Power-io ALERTs

A standard PLC input card where the input is set to PULL UP. Power-io's ALERT output will pull down when an ALERT condition happens. Some PLCs will call the ALERT output a "PLC sinking input signal".

24 VDC +

A Power-io HDA-3V25 solid state relay. When an ALERT condition happens, the green LED on the HDA-3V25 will illuminate and a solid state "contact closure" will occur between L1 and T1.

24 VDC +

A Power-io IO module such as:
IO-OAC (Output AC — AC switched output)
IO-ODC (Output DC — DC switched output)
IO-IDC (Input DC, Isolated input to a PLC; available as –Positive or –Negative; similar to normally open or normally closed)