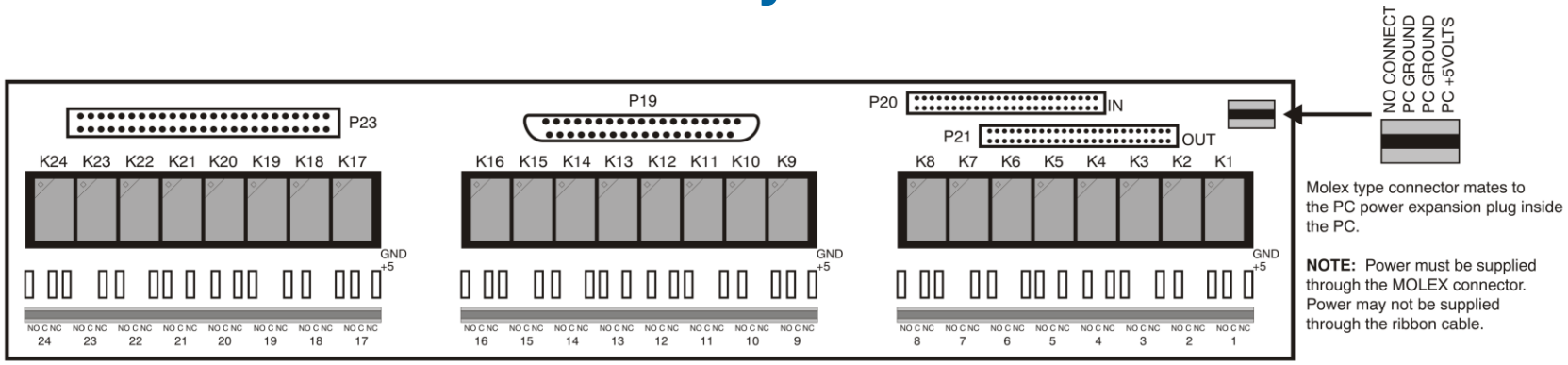
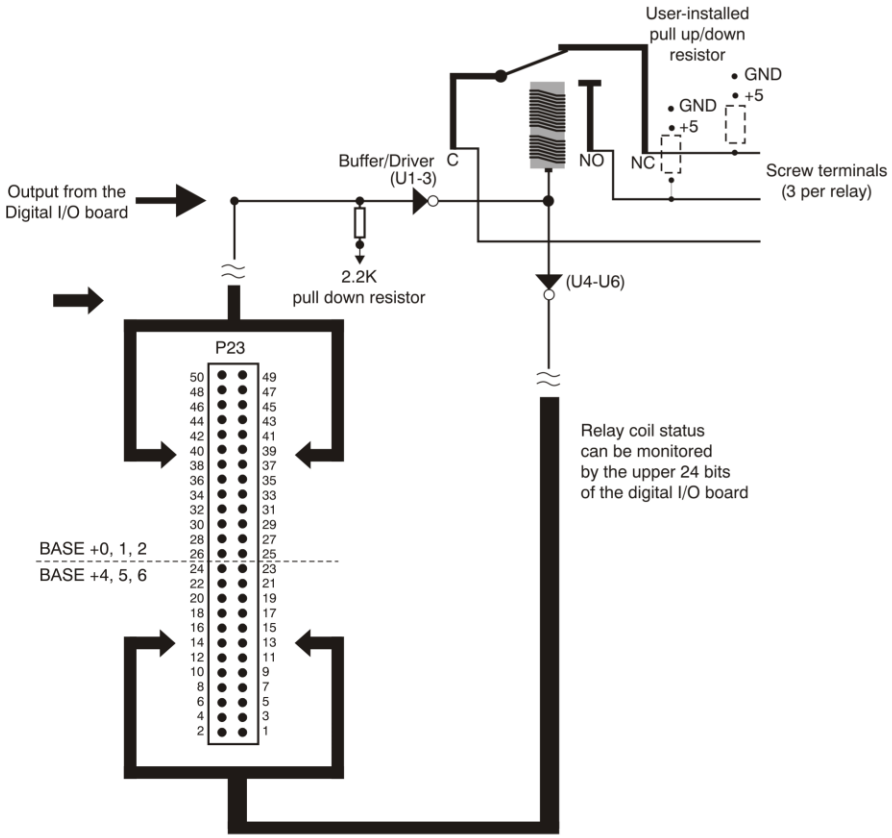
CIO-SERB24/FD Board Layout and Connection Guide

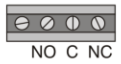


Molex type connector mates to the PC power expansion plug inside the PC.

NOTE: Power must be supplied through the MOLEX connector. Power may not be supplied through the ribbon cable.



Typical Channel



C = Common
NC = Normally closed
NO = Normally open

Notes:

- Screw terminal and relay numbers correspond to 8255 ports as:
  1, 2, 3, 4, 5, 6, 7, 8 = Port A Bits 0, 1, 2, 3, 4, 5, 6, 7
  9, 10 , 11, 12, 13, 14, 15, 16 = Port B Bits 0, 1, 2, 3, 4, 5, 6, 7
  17, 18, 19 , 20 = Port C Low, Bits 0, 1, 2, 3
  21, 22, 23, 24 = Port C High, Bits 4, 5, 6, 7

- Connector P19 provides the connection from the SERB24/FD to DIO boards utilizing 37-pin, D-type I/O connectors.

- Connector P20 provides the connection from the SERB24/FD to DIO boards utilizing 50-pin I/O connectors.

- Connector P21, when used in conjunction with P20, allows the user to daisy chain two SERB24/FD boards to be controlled from a single 50 pin connector.
  a. P20(IN) - Connects to DIO board and allows control of both SERB24/FD boards.
  b. P21(OUT) - Connects to second SERB24/FD board.

- 50-pin connector P23 can be used to read back (fault detect) the digital output word being written to the ***inputs*** of relay drivers U1, 2, 3. P23 can also be used to read back (fault detect) the digital output word from the ***outputs*** of relay drivers U1, 2, 3, and buffered through U4, 5, 6.

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