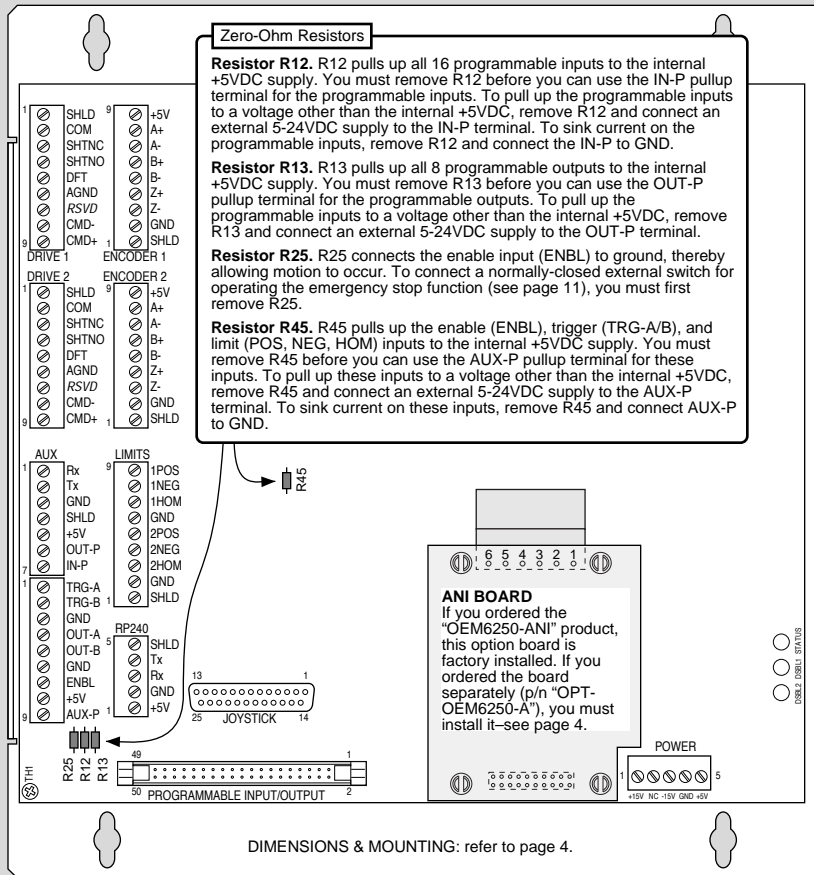


Connections

See also pages 5-23



OTHER PIN OUTS

PROGRAMMABLE I/O

Pin	Function
1	Input #16 (MSB of inputs)
3	Input #15
5	Input #14
7	Input #13
9	Input #12
11	Input #11
13	Input #10
15	Input #9
17	Output #8 (MSB of outputs)
19	Output #7
21	Output #6
23	Output #5
25	Input #8
27	Input #7
29	Input #6
31	Input #5
33	Output #4
35	Output #3
37	Output #2
39	Output #1 (LSB of outputs)
41	Input #4
43	Input #3
45	Input #2
47	Input #1 (LSB of inputs)
49	+5VDC

Even pins connected to common logic gnd.
MSB = most significant bit.
LSB = least significant bit.

JOYSTICK

Pin	Function
1	Analog Channel #1
2	Analog Channel #2
3	Analog Channel #3
8	Shield (chassis gnd)
14	Digital Ground
15	Axis Select Input
16	Velocity Select Input
17	Release Input
18	Trigger Input
19	Auxiliary Input
23	+5VDC Output

Pins 4-7, 9-13, 20-21, 24-25 are reserved

ANI BOARD

Pin	Function
1	Analog input #1
2	Analog input #2
3	Analog Ground
4	not connected
5	not connected
6	not connected

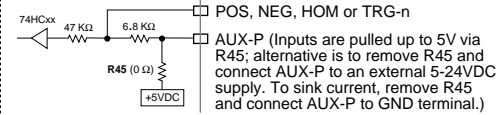
The ±10V analog inputs (ANI inputs) are available only if you ordered the OEM6250-ANI or OPT-OEM6250-A.

I/O SPECIFICATIONS & INTERNAL SCHEMATICS

DC Input.....5VDC ±5%, 4A min. (current requirements depend on the type and amount of I/O used – see page 20).

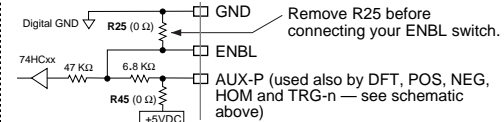
Serial Com.....RS-232C 3-wire (Rx, Tx & GND on AUX connector); Up to 99 units in a daisy chain.
9600 baud (or use AutoBaud feature – see page 6);
8 data bits; 1 stop bit; no parity.

Limits and Trigger Inputs (pg 12 & 15)



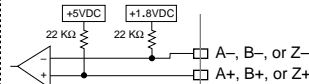
Specs: HCMOS-compatible*; voltage range = 0-24VDC.

Enable (ENBL) Input (pg 11)



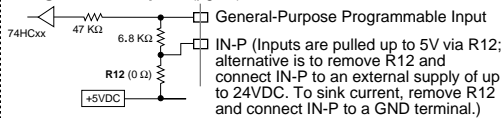
Specs: HCMOS-compatible*; voltage range = 0-24VDC.

Encoder Inputs (pg 13)



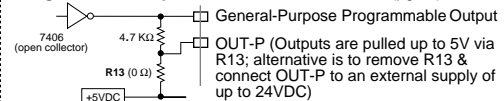
Specs: Differential comparator. Use 2-phase quadrature encoders; max. frequency = 1.6 MHz; min. time between transitions = 625 ns. TTL levels (Low ≤ 0.4V, High ≥ 2.4V); range = 0-5VDC.

Programmable Inputs (pg 16)



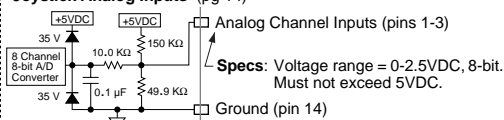
Specs: HCMOS-compatible*; voltage range = 0-24VDC.

Programmable Outputs, includes OUT-A & OUT-B (pg 16)



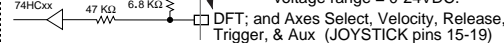
Specs: Open collector output. Max. voltage in OFF state (not sinking current) = 24V; Max. current in ON state (sinking) = 30mA.

Joystick Analog Inputs (pg 14)



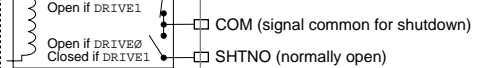
Specs: Voltage range = 0-2.5VDC, 8-bit. Must not exceed 5VDC.

Drive Fault Inputs (pg 7) and Joystick Digital Inputs (pg 14)



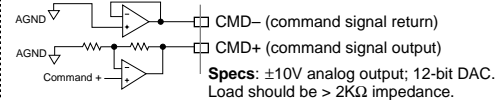
Specs: HCMOS-compatible*; voltage range = 0-24VDC.

Drive Shutdown Outputs (pg 7-10)



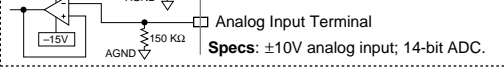
Specs: Solid state relay. Max. rating = 175VDC, 0.25A, 3W.

Drive Command Output (pg 7-10)



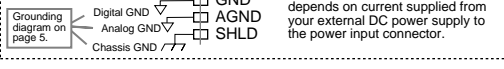
Specs: ±10V analog output; 12-bit DAC. Load should be > 2KΩ impedance.

ANI Input, from the optional analog input card (pg 11)



Specs: ±10V analog input; 14-bit ADC.

Terminals found on multiple connectors



* HCMOS-compatible levels: Low ≤ 1.00V, High ≥ 3.25V.

Troubleshooting

See also pages 28-31

- STATUS LED: Green = 5VDC power is applied. Red = power reset required. Off = no power. DSBL (axis disabled) LEDs: Off = O.K. On = drive is disabled (see page 28 for possible causes).
- Status information (see command descriptions in 6000 Series Software Reference):
 - General status information.....TASF, TSSF, TSTAT
 - Limits (end-of-travel, home).....TLIM, TLM
 - ENBL input.....TINOF (bit #6)
 - Programmable inputs and TRG-n.....TIN, INFNC
 - Programmable outputs.....TOUT, OUTFNC
- ENBL input must be grounded to GND terminal to allow motion.
- NEG & POS inputs must be grounded to GND terminal to allow motion (or disable with LH0 command).
- To help prevent electrical noise, shield all connections at one end only (see also Appendix B).
- Error messages while programming or executing programs – see 6000 Series Programmer's Guide.
- Technical support – see phone numbers on inside of front cover, and the HELP command response.

