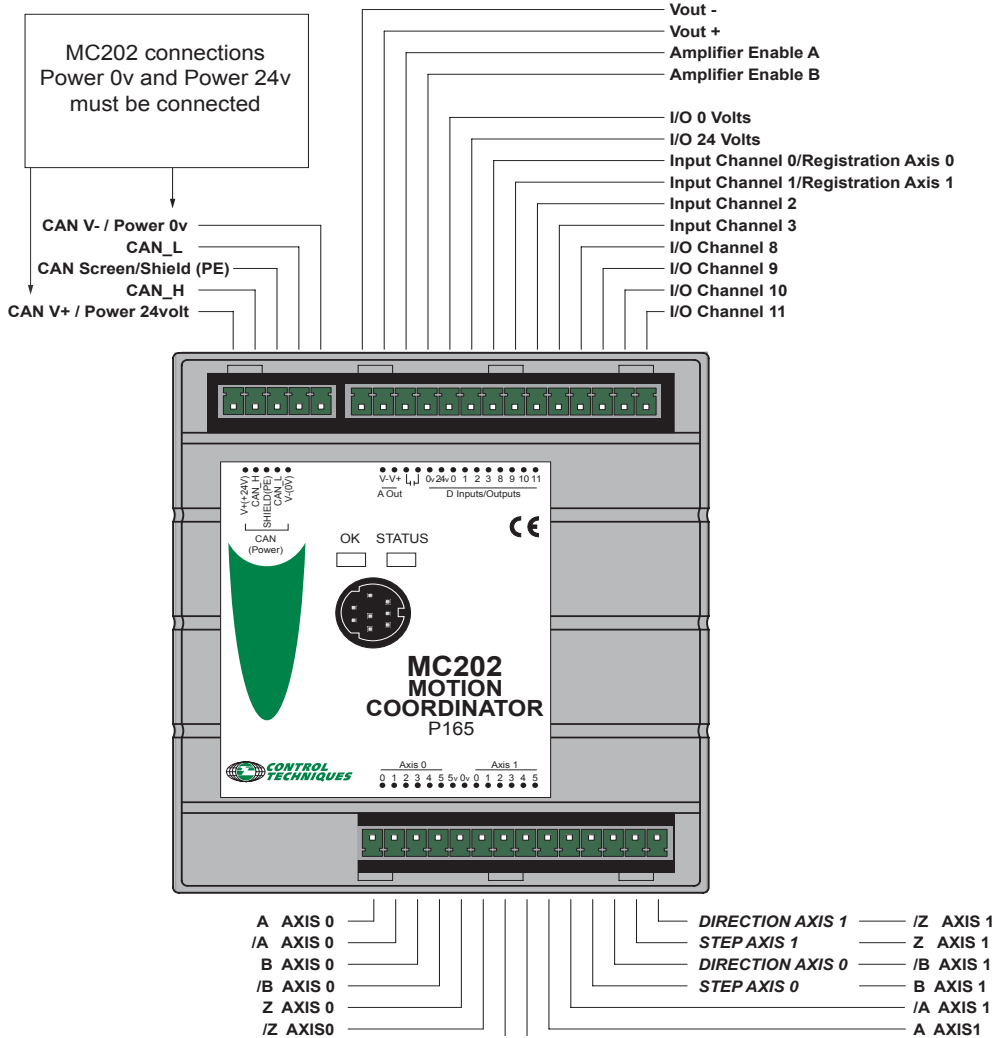


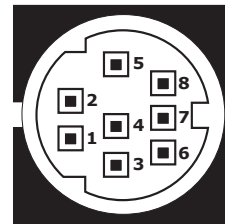
SEE TECHNICAL REFERENCE MANUAL FOR FULL INFORMATION



CT supplies ready made cables for connecting between a PC and the Motion Coordinator (Model# P350).

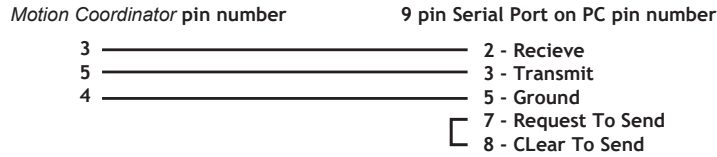
Serial Port:

PIN	FUNCTION	NOTES
1	Internal 5V	Do not connect
2	Internal 0V	Do not connect
3	RS-232 Transmit	
4	Ground	
5	RS-232 Receive	
6	Externally buffered control	Do not connect
7	Externally buffered output	Do not connect
8	Externally buffered output	Do not connect



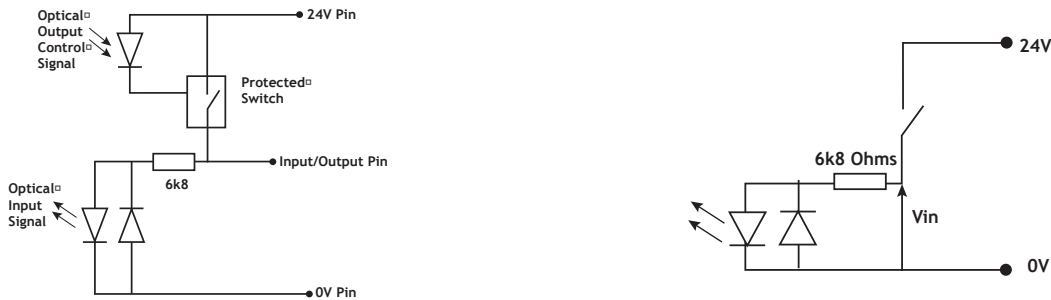
Pins 1, 2, 6, 7 and 8 are designed for the connection of an RS-485 adapter. There is no hardware handshake on the serial ports. An XON/XOFF is used.

Motion Coordinator to "AT" style PC with 9 pin serial port:



24V Input/Output Channels

Input/output channels 8...11 are bi-directional. The inputs have a protected 24V sourcing output connected to the same pin. Input channels 0...3 are single direction only.



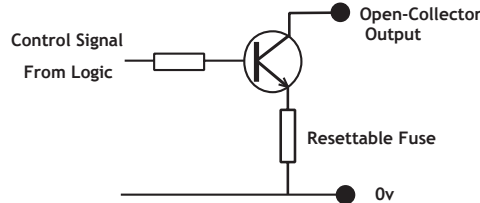
Amplifier Enable (Watchdog Relay Output)

A pair of internal relay contacts (Enable A and Enable B) are used to enable external amplifiers when the controller has powered up correctly and the system and application software is ready. The amplifier enable is a single pole relay with a set of normally open contacts.

ALL STEPPER AND SERVO AMPLIFIERS MUST BE INHIBITED WHEN THE AMPLIFIER ENABLE OUTPUT IS OPEN CIRCUIT

Open Collector Stepper Driver Output

The STEP,DIR signals use open-collector outputs. These outputs are NOT opto-isolated from the processor logic. The open-collector outputs may be pulled up to any voltage in the range 5V..24V as required but a current limiting resistor MUST be provided externally to the MC202 to limit the current in the output channel. Normally this current limiting resistor is built-in to the stepper amplifier circuit.



Default ATYPE Configuration:

Axis 0: Voltage output servo axis with encoder feedback	ATYPE AXIS(0)=2
Axis 1: Encoder feedback axis for synchronization	ATYPE AXIS(1)=3

Stepper Configuration:

Axis 0: Step and direction open collector outputs	ATYPE AXIS(0)=1
Axis 1: Step and direction open collector outputs	ATYPE AXIS(1)=1

Stepper/Encoder Configuration:

Axis 0: Encoder feedback axis for synchronization	ATYPE AXIS(0)=3
Axis 1: Step and direction open collector outputs	ATYPE AXIS(1)=1

Changes to ATYPE should be set prior to enabling the axes with WDOG=ON. This statement should ideally placed in the STARTUP program.