



Specifications

AC power input (User-selectable):	110/220 VAC
Motor control input voltage:	±10 VDC across 300 K ohms
Encoder supply voltage:	+5 VDC
Max output power (Standard):	6 Watts
Output voltage range:	±12 VDC
Slew rate:	8 V/μS, max.
Voltage gain (Av):	1.2
Standard cabling:	CA10-10-3: 3 ft. motor extension cable CA10-10-6: 6 ft. motor extension cable CA10-10-9: 9 ft. motor extension cable 186381-02: 6 ft controller amplifier interface cable <i>Call for information on additional lengths</i>

MULTI-AXIS|micropower

The MC-4SA is a multi-axis motor drive amplification system designed for use in systems where low power micro motors are required for a particular application.

The MC-4SA was designed for interfaceability to the National Instrument™ controllers. The MC-4SA interface connectors allow versatile connectivity based on the application and controller being used. All 4 axes may be accessed through a single cable.

Simple Connectivity

All of the difficult interfacing problems have been taken out of the hands of the user. For example, setup is simple; connect one end of the 68 conductor cable to the controller and the other to the MC-4SA; plug in your MicroMini™ stage and you are ready! No external power supply connections, no multi-wire motor connections.

The MC-4SA also features a number of built-in protective devices and signal enhancement circuits such as;

- Supply Rail Monitoring (SRM)
- System status monitoring
- Kickless Balanced Power Supply
- Encoder conditioning
- Reversible motor polarity

Features

- Fully compatible with all MicroMini™ stages
- 110VAC 60Hz/220VAC 50/60Hz operation
- Built-in limit-sensing logic
- Front panel axis fault lights
- Axis enable switches w/illuminated status lights
- Compact design
- Versatile multiple-controller interface
- On-board encoder conditioning
- Joystick Input
- Linear Encoder Inputs (Differential)
- Auxiliary I/O connector for ease of wiring
- Easily accessible rear panel mounted fuses
- 19" Rack Mountable or Desktop design
- **Fully LabVIEW™ by National Instruments compatible.**



National Aperture, Inc. can provide custom electronic and mechanical design services in order to integrate the MC-4SA into your application.



MC-4SA-Joystick-2

Single or Dual Axis Manual Positioning Control for the MC-4SA Amplifier

Features:

- Manually Adjust Linear or Rotary position without writing any software
- Just plug it in and you are ready for precision positioning
- Integrated 2-Speed Control; Standard Jog and Accelerated Jog.
- Integrated Dual Axis Positioning System for use on the MC-4SA Amplifier
- Easy to use remote control
- Rubber "feet" on base for easy, stable surface placement.
- Package includes all cabling and sample joystick software for end user development

The information contained in this data sheet is subject to change without notice. Critical dimensions or specifications should be verified with our technical support staff.

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