

# Process Photonics

## SC1000

## Stepper Motor Controller



- Fully integrated stepper motor controller with drivers and power supply
- Two independent motor control & driver channels
- Unipolar & bipolar motors
- Full, half & microstepping
- Home & limit switch interfaces
- USB or RS232 communications
- Embedded controller for stand alone operation
- Windows® graphical user interface
- Active-X control for integration into VB6 and .net custom software applications

### Specifications\*

#### Electrical

- Input Voltage: 90 to 120V Vac, 50/60 Hz
- Front Panel Power ON/OFF switch and status indicator LED
- Standard IEC instrument cord power connection
- Embedded Stepper Controller: BiStep2A\*\*
- Two independent motor control/driver channels
- Motor types: unipolar (4-pole) or bipolar (2-pole)
- Motor voltages: 3 to 43 volts
- Drive current:
  - 2 amps/winding max. each channel
  - 4 amps/winding max. parallel operation, single channel only
- Home and limit switch inputs
- Terminal block quick connectors for motor and control inputs & outputs on the rear panel

#### Mechanical

- Dimensions (HxWxD): 3"x8"x10"
- Operating temperature: 0 to 50 °C

\* specifications are subject to revision and change

\*\* refer to BiStep 2A manual for additional specifications and controller functionality

#### Software

- Windows® based graphical user interface includes user-friendly operator screens, configuration & setup utilities and full diagnostics
- Functionality includes: homing, jogging, full, half and micro stepping
- Networking of multiple stepper controllers
- Active-X control software used to integrate stepper controller functions into VB6 and .net custom software applications
- USB and RS232 communications

#### Options

- **-LM:** power supply is configured for low voltage motors (3 to 15 volts)
- **-HM:** power supply is configured for higher voltage motors (15 to 43 volts)
- **StepHost:** Graphical user interface software
- **StepX:** Active-X control software used to integrate stepper controller functions into VB6 and .net software applications
- **StepHub:** USB hub used to network multiple stepper controllers, includes network versions of StepHost and StepX applications
- **StepCustom:** Application support, system integration, and software programming based on custom requirements

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