

S5102

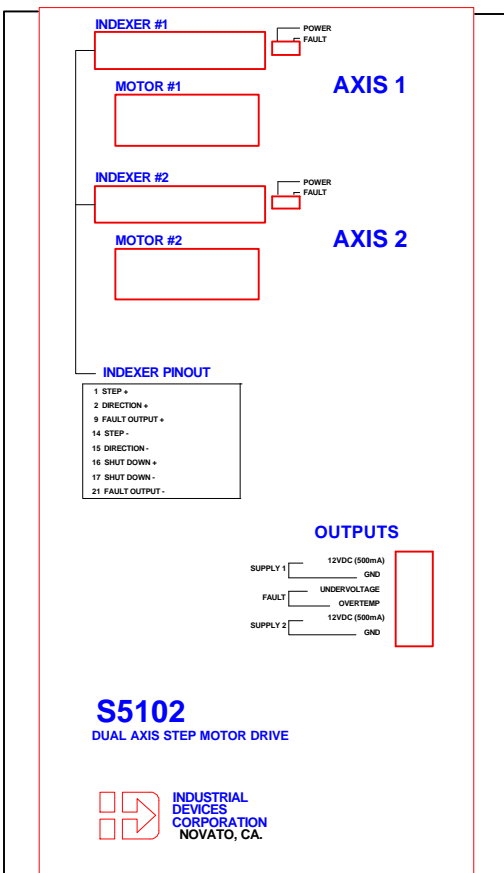
2 Axis Microstepping Drive

The S5102 dual axis drive provides optimum speed thrust performance with any combination of NS or RS Series cylinder and/or 23 and 34 frame stepping motors. Because the S5102 integrates two drives into one convenient package, you save time, space, and money.

Designed for reliability, the S5102 is optically isolated, short circuit, brownout and over-temperature protected to ensure reliable trouble free operation.

Each axis accepts step and direction pulses from our 851 Indexer or any user-supplied computer, programmable controller, motion controller or other pulse source.

The S5102 microstepping drive has selectable resolutions of 200-50,800 steps/rev and a max speed of 3000 rpm.



Features

- Fully packaged — includes power supply, 2 microstepping drives, heatsink, and connectors
- Microprocessor-controlled microstepping — high resolution, smooth at low speeds, less resonance
- Durable — Short-circuit (phase-to-phase and phase-to-ground), brownout and over-temperature protected
- Short circuit protected by a 6 Amp output fuse. Operates with the motor/drive's short circuit protection
- Independent resistor selectable motor currents, 0-7 Amps per phase at 75 VDC
- 95-132 VAC power input; no external transformer required
- AC input filter minimizes conducted noise from the power supply's high voltage switching transistors to the AC line
- Incorporates 2 undedicated +12VDC supplies to power limit switches, etc.

Performance

Actuator performance (speed vs. thrust) curves for each axis are identical to those found in our *1994 Catalog* for the NS and RS using our S5851 control.

Motor performance (speed vs. torque) curves using IDC 23 and 34 Frame motors, are identical to those found in the *S5851 Control Brochure*.

Connections

Indexer #1 & #2 (25 Pin D)

- 1 Step+
- 2 Direction+
- 9 Fault Output+
- 14 Step-
- 15 Direction-
- 16 Shutdown+
- 17 Shutdown-
- 21 Fault Output-

Motor #1 & #2 (Screw Terminal)

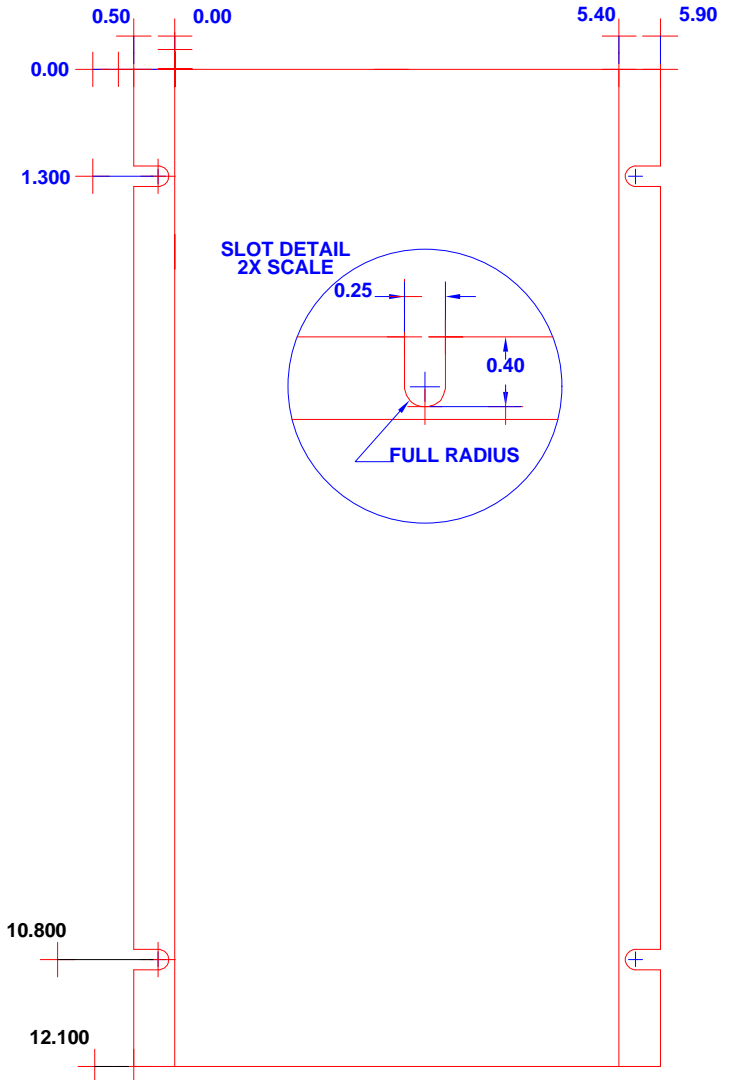
- 1 Motor Phase A +
- 2 Motor Phase A -
- 3 Earth Ground
- 4 Motor Phase B +
- 5 Motor Phase B -

Auxiliary Power Output (Screw Terminal)

- 1 +12 VDC Supply 1
- 2 0 VDC Supply 1
- 3 Under-voltage Output
- 4 Over-temperature Output
- 5 + 12 VDC Supply 2
- 6 0 VDC Supply 2

Mounting Dimensions

While the depth of the drive is only 5.5", a 9-10" deep enclosure is recommended to provide clearance for connector and cabling.



Industrial Devices Corporation

64 Digital Drive • Novato, CA 94949 • 800-747-0064 • Fax 415-883-2094