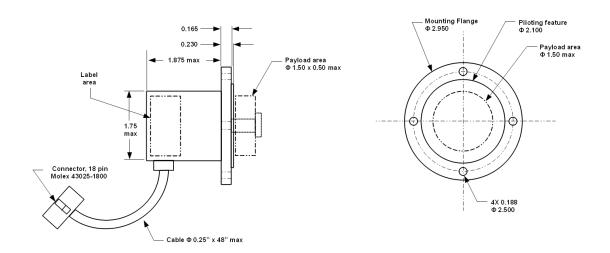
SSR1100 Scan Motor/Controller System

The SSR1100 Scan Motor/Controller family is designed to provide precise rotation of scan mirrors and active E/O payloads operating in the range of 1000RPM to 10000RPM. Typical applications include laser leveling systems, laser based position measurement systems, laser line scan generator, and any optical system requiring precision constant velocity scanning.

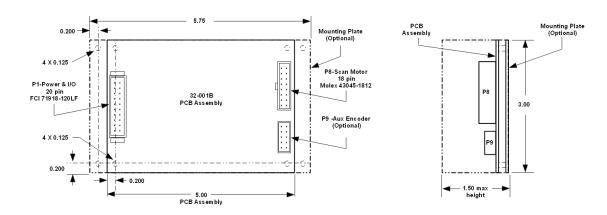
Features:

- Excellent speed stability: Speed jitter <0.05% (500 PPM), standard deviation of 100 revolutions.
- Cost effective solution for many scanning applications. (Optic or payload supplied at extra cost).
- Speed range: 1000RPM to 10,000RPM, bi-directional rotation.
- Rugged mechanical design & precision, long life ball bearings.
- Phase lock-loop speed control system, no long term speed error.
- > Brushless DC motor with Hall sensor feedback.
- ➤ Power requirement: 10VDC to 24VDC, 20W max power consumption.
- Accommodates payloads up to 2oz (55g) and 1.5" (50mm) diameter.
- -25°C to +75°C operating temperature range.
- Custom configurations available to accommodate mounting, payload (optic), and control requirements.

Scan Motor



Controller/Driver 32-001B



Connector Pin Designation

Scan Motor Connector P8	Power and Control Connector P1		
Molex 43045-1812 Mate: 43025-1800	FCI 71918-120LF Mate: 71600-620LF		
J1-1 Motor Phase-A J1-2 Motor Phase-B J1-3 Motor Phase-C J1-4 Motor Shield J1-5 Sensor Power (+5v) J1-6 Hall sensor power GND J1-7 Hall sensor H1 output J1-8 Hall sensor H2 output J1-9 Hall sensor H3 output J1-10 Encoder Power (+5V) J1-11 RT Excitation + (optional) J1-12 RT Excitation - (optional)	J2-1 +24VDC Power Input (+12V to +28 range, 2.5A max.) J2-2 +24VDC Power Input (Internally connected to J2-1) J2-3 Reserved J2-4 Reserved J2-5 Power Return J2-6 Power Return J2-7 Reserved J2-8 SREF, Input (HCTTL compatible, RPM = SREF/1250 x 60) J2-9 RUN/STOP Input (+5V or open = RUN, 0V = STOP) J2-10 Signal Return	J2-11 J2-12 J2-13 J2-14 J2-15 J2-16 J2-17 J2-18 J2-19 J2-20	Fault Output Encoder Channel-A Output Encoder Channel-B Output Encoder Index Output Signal Return RT Excitation + (optional) Reserved RT Signal + (optional) RT Signal + (optional)
J1-12 RT Excitation - (optional) J1-13 RT Signal + (optional) J1-14 RT Signal - (optional) J1-15 Encoder Channel - A			
J1-16 Encoder Channel - A J1-17 Encoder Index J1-18 Encoder Index J1-18 Encoder GND			

Typical Application

