

# Model 6260H Optical Scanner

## Mechanical and Electrical Specifications

*All position detector specifications apply with Cambridge Technology servo driver after a 30 second warm-up.  
 All angles are in mechanical degrees.  
 Consult manual for complete operating instructions.*

### Mechanical Specifications

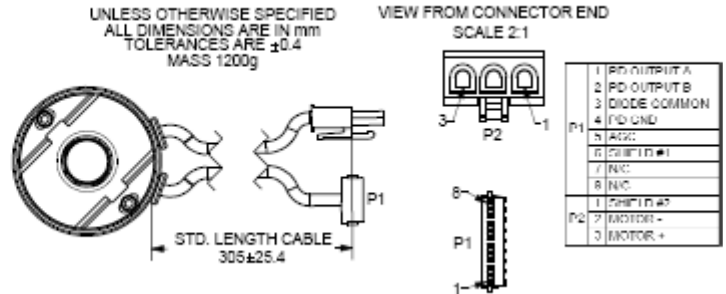
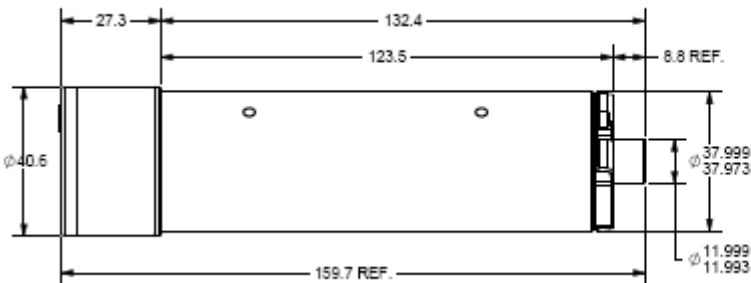
- Rated Angular Excursion: 40°
- Rotor Inertia: 47.5 gm\*cm<sup>2</sup>, +/-10%
- Torque Constant: 8.6x10<sup>5</sup> Dyne-cm/Amp, +/-10%
- Maximum Coil Temperature: 110 °C
- Thermal Resistance, Rotor to Case: 0.2°C/Watt, Max
- Mass: 1200g

### Electrical Specifications, Drive Armature

- Coil Resistance: 0.61 Ohms, +/-10%
- Coil Inductance: 541 μH, +/-10%
- Back EMF Voltage: 1500μV/Degree/Second, +/-10%
- Current, RMS: 12 A, Maximum
- Current, Peak: 40 A, Maximum
- Small Angle Step Response: 2.1 ms, with 50mm CTI Y mirror

### Electrical Specifications, Position Detector

- Linearity: 99.9 %, minimum, over 40° optical
- Scale Drift: 50 PPM/°C, Maximum
- Zero Drift: 15 Microradians/°C, Maximum
- Repeatability: 8 Microradians, Maximum
- Output Signal, Common Mode: 155 μA, with AGC Voltage of 30mA, +/-20%
- Output Signal, Differential Mode: 12μA/°, at common mode current of 155μA, +/- 20%



Unless Otherwise Specified  
 Tolerances  
 .X = ± .3  
 .XX = ±.13