

Model 6220H 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: 0.125 gm*cm², +/-10%
 Torque Constant: 6.17x10⁴ Dyne-cm/Amp, +/-10%
 Maximum Coil Temperature: 110 °C
 Thermal Resistance, Coil to Case: 1°C/Watt, Max



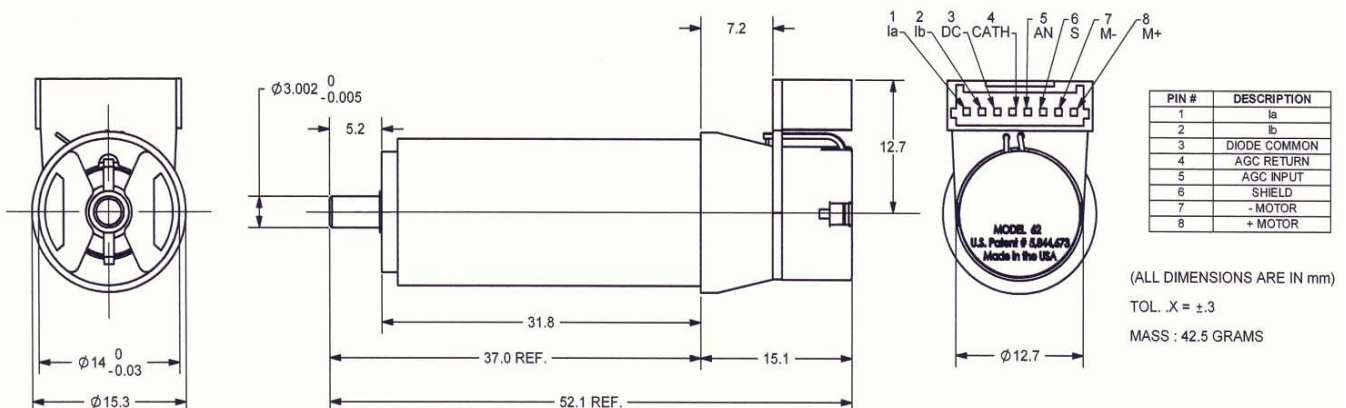
Shown with B Connector

Electrical Specifications, Drive Armature

Coil Resistance: 2.79 Ohms, +/-10%
 Coil Inductance: 180 μH, +/-10%
 Back EMF Voltage: 108 μV/Degree/Second, +/-10%
 Current, RMS: 3.9 A, Maximum
 Current, Peak: 20 A, Maximum
 Small Angle Step Response: 200 μs, with appropriate 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: 11.7μA/Deg., with Common Mode of 155μA, ± 20%



Also, available in 6210HL, 6210HR, 6210H and 6210HBR connector versions.
 Specifications are subject to change.