

Model 6200H 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.

Specifications subject to change without notice

Mechanical Specifications

Rated Angular Excursion: 40°
Rotor Inertia: 0.013 gm cm², +/-10%
Torque Constant: 1.20x10⁴ dyne cm/amp, +/-10%
Maximum Rotor Temperature: 110°C
Thermal Resistance (Rotor to Case): 3.8°C/Watt, Max

Electrical Specifications/Drive Mechanism

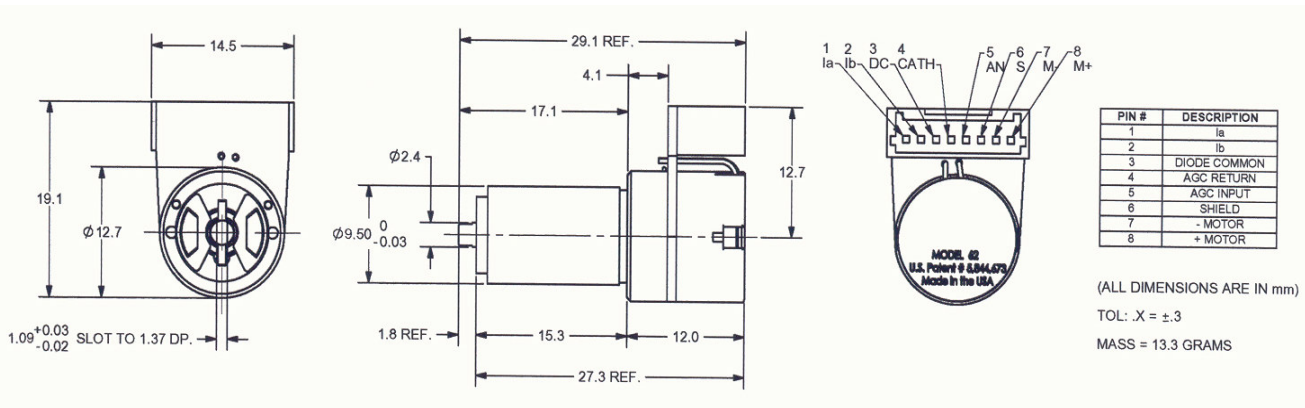
Coil Resistance: 2.14 Ohms, +/-10%
Coil Inductance: 52 µH, +/-10%
Back EMF Voltage: 20.9 µV/degree/sec, +/-10%
RMS Current: 2.3 Amperes at Tcase of 50°C, Max
Peak Current: 6 Amperes, Max
Small Angle Step Response: 130 µs with 3mm Y mirror, settled to 99%



Shown With Mini-CT Connector

Position Detector

Linearity: 99.9 %, Minimum over 20 degrees, 99.5% Typical, over 40 degrees
Scale Drift: 50 PPM/°C, Maximum
Zero Drift: 15µrad/°C, Maximum
Repeatability, Short Term: 8 microradians
Output Signal, Common Mode: 155µA with an AGC current of 30mA, +/-20%
Output Signal, Differential Mode: 12µA/°, at common mode current of 155µA, +/-20%



Also, available in 6200HL, 6200HR, 6200HB and 6200HBR connector versions.
Specifications are subject to change.