

Model 6210H Optical Scanner

Mechanical and Electrical Specifications

All angles are in mechanical degrees.

Mechanical Specifications

Rated Angular Excursion: 40°
 Rotor Inertia: 0.018 gm·cm², ± 10%
 Torque Constant: 2.79x10⁴ dyne·cm/amp, +/-10%
 Maximum Rotor Temperature: 110°C
 Thermal Resistance (Rotor to Case): 2°C/W

Electrical Specifications/Drive Mechanism

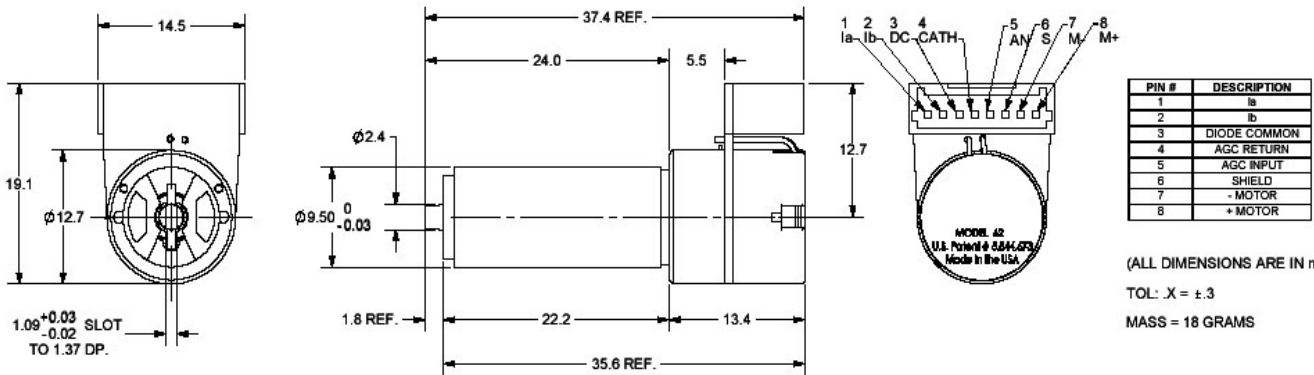
Coil Resistance: 3.7 Ohms, +/-10%
 Coil Inductance: 109 μH, +/-10%
 Back EMF Voltage: 48.7 μV/(deg/sec)
 RMS Current: 2.4 A at Tcase of 50°C, Max
 Peak Current: 8 A, Max
 Small Angle Step Response: 100μs



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 6210HL, 6210HR, 6210HB and 6210HBR connector versions.
 Specifications are subject to change.