

Model 6215H Optical Scanner

Mechanical and Electrical Specifications

All angles are in mechanical degrees.

Mechanical Specifications

Rated Angular Excursion: 40°
 Rotor Inertia: 0.028 gm·cm², +/-10%
 Torque Constant: 3.78x10⁴ dyne·cm/amp, +/-10%
 Maximum Rotor Temperature: 110°C
 Thermal Resistance (Rotor to Case): 1°C/W

Electrical Specifications/Drive Mechanism

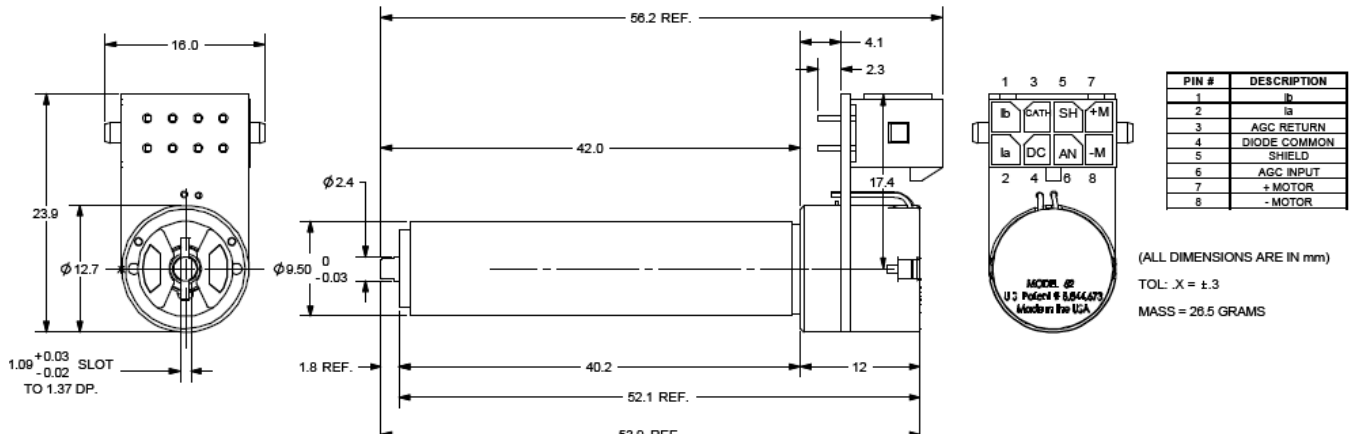
Coil Resistance: 2.5 Ohms, +/-10%
 Coil Inductance: 94μH, +/-10%
 Back EMF Voltage: 66μV/(deg/sec)
 RMS Current: 4.1A, at T_{case}=50°C
 Peak Current: 20 A, Max
 Small Angle Step Response: 130μs



Shown With B 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 6215HL, 6215HR, 6215H and 6215HBR connector versions.
 Specifications are subject to change.