Cambridge Technology

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Model 6230H 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

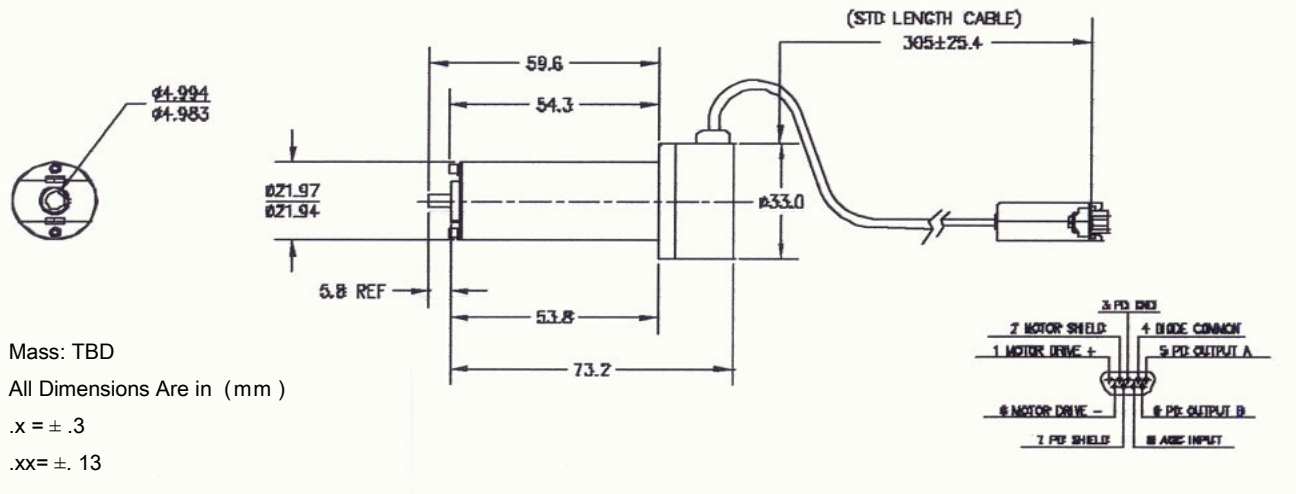
Rated Angular Excursion: 40º
Rotor Inertia: 0.97 gm*cm^2, +/-10%
Torque Constant: 1.31x10^5 Dyne-cm/Amp, +/-10%
Maximum Coil Temperature: 110 ºC
Thermal Resistance, Coil to Case: 0.80ºC/Watt, Max

Electrical Specifications, Drive Armature

Coil Resistance: 1.07 Ohms, +/-10%
Coil Inductance: 173 µH, +/-10%
Back EMF Voltage: 229 µV/Degree/Second, +/-10%
Current, RMS: 7.1 A, at T case of 50º Maximum
Current, Peak: 25 A, Maximum
Small Angle Step Response: 250 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: 11.7 µA/Deg,, with Common Mode of 155µA,± 20%



Mass: TBD
All Dimensions Are in (mm)
.x = ± .3
.xx= ±. 13

Specifications are subject to change without notice.

03/07