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: 2.79x10⁻⁷ 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 1 case of 50°C, Max
- Peak Current: 8 A, Max
- Small Angle Step Response: 100μs

**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.
3 Pa + L
All dimensions in mm

Kleinfield
PHY 0873
Fab # 3358

Drill counterbore
(See other sheet)