SUM-40 Smart Ultrasonic Motor



Description

The SUM-40 servomotor is a direct drive piezo motor stage with an integrated amplifier, controller, and optical encoder that gives the user closed loop control in a compact package. Despite its small size, the SUM-40 boasts a continuous torque of 50 mN-m while the integrated optical encoder provides 130 microradian resolution.

Highlights

- Zero Power Hold
- Integrated electronics
- Does not use magnets

- Zero backlash
- USB Type-C / RS232 Serial
- Compact, lightweight design Quiet operation

High Precision



Specifications

Controller: Integrated **Total Rotation:** 360° Continuous Max Velocity: 300 RPM (1800deg/s)

Max Rated Torque: 100 mN-m Continuous Torque: 50 mN-m

OV Holding Torque: 100 mN-m Feedback: **Optical Encoder**

Encoder Resolution: 46,592 counts/rev 130 microradians

Mass: 82g

Rotary Inertia: 0.35 kg-mm² Operational Temp: -10C to 55C

Max Dimensions: 40mm x 40mm x 34.4mm

Shaft Diameter: 4mm Shaft Radial Load: 20N

Shaft Axial Load: 20N away from motor

10N toward motor

Driver Peak Power: 12 W Input Voltage: 12V Frame size NEMA 17 **Motor Housing** Aluminum

Communication USB-C / RS232 Serial



