SI-H KG Series Force Transducers

Force Transducers for Muscle Research

KG-series force transducers measure a large range of detectable forces. The transducer with the highest sensitivity has a resolution of 0.2µN, sufficient to measure the force of a single heart cell. All transducers are extraordinarily rugged, withstanding even overload forces.

- Anti-oscillation option that eliminates the native resonance frequency of the transducer and mounting support for unparalleled low noise recording and fidelity
- Lifetime warranty on the optical transducer heads

Also available:
- Stainless steel tweezers for fiber mounting
- Spray water protected version of all transducers
- Single and double bridge amplifiers

**Mounting Devices**

A variety of convenient fiber mounting devices are available in two lengths and two shaft diameters.

Length: The 32mm length is ideal for standard, isometric forces. Choose the 22mm length when using a motor.

Shaft diameter: Use 0.8mm for the KG4 and KG7B force transducers, and the 0.5mm for the KG4A and KG7.

The KG20 and the KG2 have unique mounting devices.

**Force Transducers**

- **KG2**
  - Range: 0 - 1N
  - Resolution: 0.4mN

- **KG2A**
  - Range: 0 - 0.5N
  - Resolution: 0.3mN

- **KG4**
  - Range: 0 - 50mN
  - Resolution: 15µN

- **KG4A**
  - Range: 0 - 20mN
  - Resolution: 4µN

- **KG7B**
  - Range: 0 - 10mN
  - Resolution: 1µN

- **KG7A**
  - Range: 0 - 5mN
  - Resolution: 0.4µN

- **KG7**
  - Range: 0 - 5mN
  - Resolution: 0.2µN

**The KG Force Transducers**

The KG Force Transducers are designed for use solely with the SI-BAM21-LC optical force transducer amplifier.