EDGE-4X Motor

Application Recommendations

The EDGE-4X motor expands the Nanomotion's product line of low voltage piezo motors, bringing 4 times the force of the Edge motor. The EDGE-4X provides up to 1.3N force with unlimited travel for linear or rotary applications. Continuing to optimize size, weight and power, the EDGE-4X is well suited to:

- Auto Focus & Zoom Requirements
- Pan & Tilt Gimbal Drive
- Optical Image Stabilization Modules

Product Description

The EDGE-4X motor offers a small footprint for unlimited linear and rotary motion. The EDGE-4X provides 1.3N max force and is capable of achieving 200mm/sec maximum velocity. The EDGE-4X can easily adapt to numerous bearing structures to provide high resolution motion control for a wide range of applications in defense optronics, medical and semiconductor markets.

EDGE-4X Moto Features:

- Small operating footprint
- Wide dynamic velocity range
- Zero backlash
- Holds position at power off
- Silent operation
- Negligible EMI
- Non-magnetic motor
EM4X-S-1
EDGE-4X Motor

VELOCITY/LOAD CHARACTERISTICS

Load/Speed Characteristics

MECHANICAL DRAWINGS AND INTERFACE

ELECTRICAL INTERFACE

### TECHNICAL SPECIFICATIONS

**Mechanical**
- Weight/Mass: 2.2g
- Dimensions: 22.8 x 12.4 x 4.3 mm

**DYNAMIC**
- Driving Force (max): 1.3N
- Velocity (max): 200mm/sec

**ENVIRONMENTAL**
- Operation Temperature:
  - -40 ºC to 80 ºC
- Vibrations: 10g rms
- Shock: 350g, 0.8ms half sine

**ELECTRICAL**
- Motor Voltage (max): 14VAC
- Motor Current (max): 250mA AC
- *5V DC Drive Circuitry Available*

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**VELOCITY/LOAD CHARACTERISTICS**

**MECHANICAL DRAWINGS AND INTERFACE**

**ELECTRICAL INTERFACE**

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