

EM4X-S-1

EDGE-4X Motor

ORDERING INFORMATION

Part Number: EM4X-S-1-0 EM4X-S-1-0 (50mm FPC) EM4X-S-1-10 (100mm FPC)

Part Number: EM4X-V-1-0 EDGE-4X Vacuum Rated Motor

RELATED PRODUCTS/ **ACCESSORIES**

Part Number: XCD-E4X-BD1-01 Controller/Driver for 1 EDGE-4X Motor

Part Number: XCD-E4X-BD2-01 Controller/Driver for 2 EDGE-4X

Motors in parallel

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



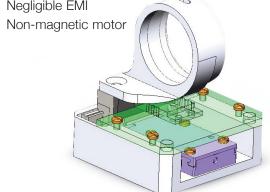
Product Description

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





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EDGE-4X Motor

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

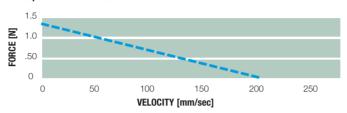
Operation Temperature: -40 °C to 80 °C Vibrations: 10g rms Shock: 350g, 0.8ms half sine

ELECTRICAL

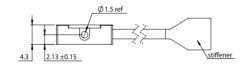
Motor Voltage (max): 14VAC Motor Current (max): 250mA AC *5V DC Drive Circuitry Available

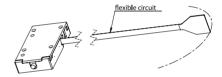
VELOCITY/LOAD CHARACTERISTICS

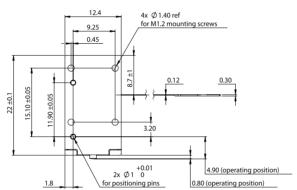
Load/Speed Characteristics



MECHANICAL DRAWINGS AND INTERFACE







Nanomotion Ltd. Worldwide Headquarters

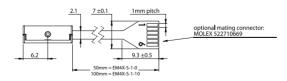
Mordot HaCarmel Industrial Park Yokneam 20692 Israel

- t: +972 73 2498000
- **f:** +972 73 2498099
- e: nano@nanomotion.com

Nanomotion Inc. U.S. Headquarters

- 1 Comac Loop, Suite 14B2 Ronkonkoma, New York 11779
- t: (800) 821-6266
- **t:** (631) 585-3000
- **f:** (631) 585-1947
- e: nanoUS@nanomotion.com

ELECTRICAL INTERFACE



pin number ——	pin name —	— description ——
1	NTC OUT	TERMINAL RESISTOR
2	NTC IN	TERMINAL RESISTOR
3	P2	NM MOTOR
4	P1	NM MOTOR
5	сом	NM MOTOR COMMON
5	сом	NM MOTOR COMMON

