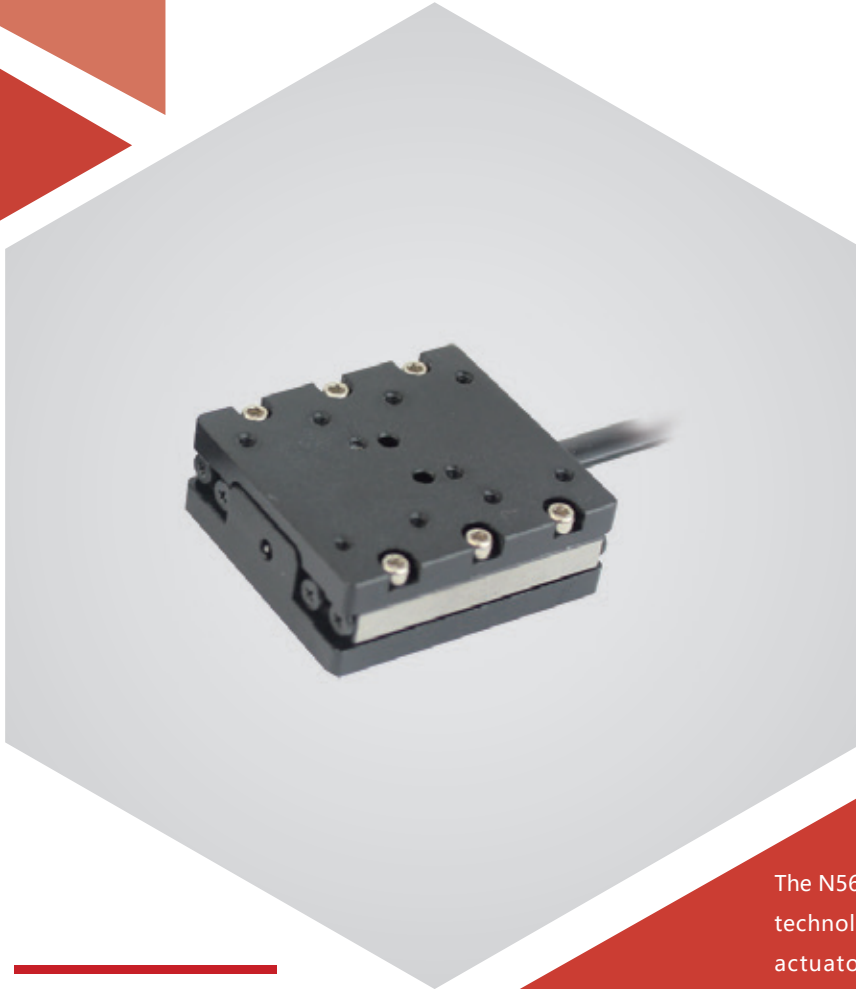


X axis | N56.10E-B1

Linear Piezo Motor



Characteristics >>

- Piezo drive
- High resolution
- Stroke up to 10mm
- Small size

Applications >>

- Atomic force microscope
- Scientific research
- Fiber optic docking
- Microfabrication
- Nano positioning with small load & large travel
- Precision positioning & micro-nano operation of semiconductors, etc.

Introduction

The N56 linear piezo motor adopts piezo micro-drive technology, which uses piezo micro-displacement actuators to achieve high-precision positioning and movement technology. Macro motion linear millimeter-level stroke is achieved after mechanical structure conversion of the micro-deformation of piezo actuator under electric field.



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Technical Data >>

Type	N56.10E-B1	Units
Active axes	X	
Integrated sensor	Grating sensor	
Travel range	10 or ± 5	mm
Speed limit	3	mm/s $\pm 20\%$
Resolution	0.005	μm
Max force	3	N
Repeatability	0.1	$\mu\text{m}\pm 20\%$
Push/pull force(Active)	3	N
Holding force(Passivity)	4.5	N
Max load (horizontal direction)	0.5	kg
Max load (vertical direction)	0.1	kg
Axial stiffness	1.5	N/ $\mu\text{m}\pm 10\%$
Lateral stiffness	9	N/ $\mu\text{m}\pm 10\%$
Operating temperature ^[1]	0~50	°C
Material	Al, Steel	
Mass (not include cable)	58	g $\pm 10\%$
Cable length ^[1]	1.5	m $\pm 10\text{mm}$
Recommended Controller	E53.D1E-J	

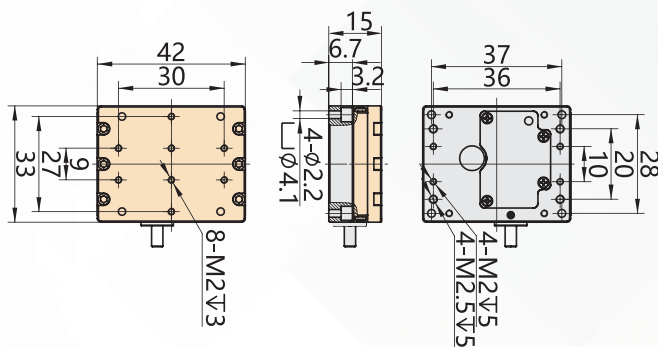
Note: Technical data is measured by supporting piezo controller. Unless otherwise specified, the above parameters are measured at room temperature about 25° C.

[1]: Custom ultralow temperature and ultrahigh vacuum versions are available.

[2]: Custom cable length and connector is available.

Note: The above parameters are related to the testing environment and testing equipment. Please contact the sales engineer for confirmation before purchase.

Drawing >>



Recommended Controllers >>



E53.D1E-J
USB and serial port communication
Suitable for piezo motor
24VDC/1A power supply



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