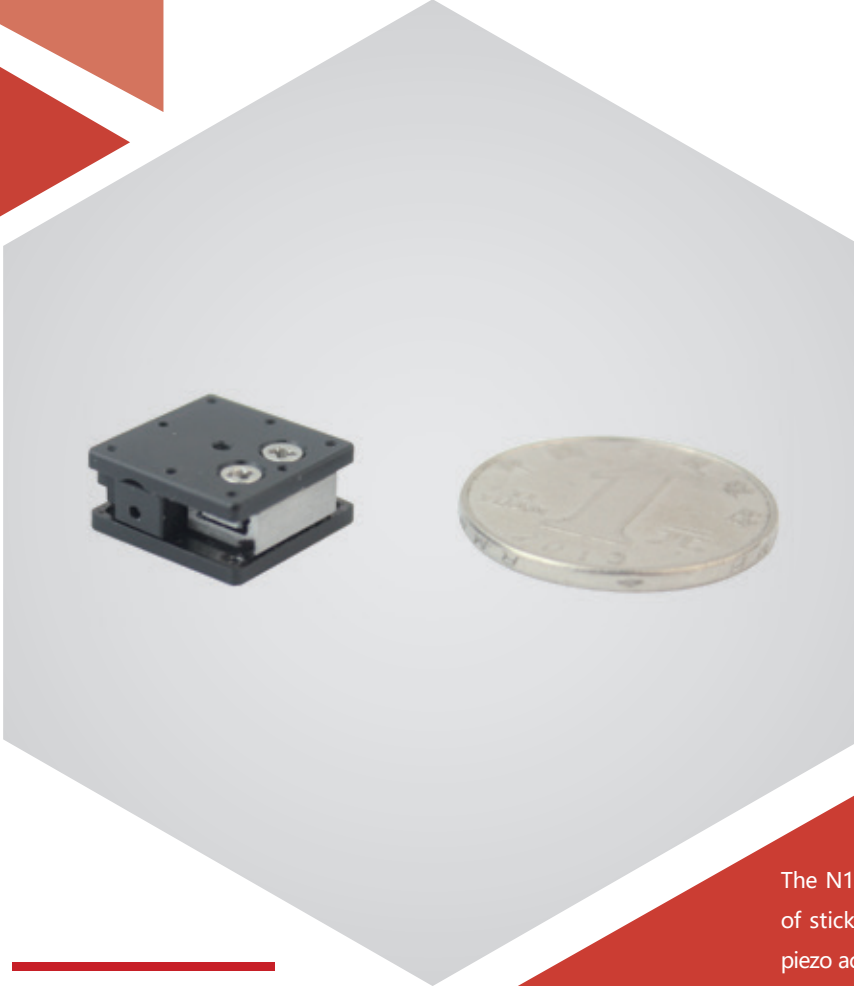


X axis | N11.X3.5K

Linear Piezo Motor



Introduction

The N11.X3.5K linear piezo motor adopts the principle of stick-slip and convert the micro-movement of PZT piezo actuator into a millimeter -level long travel. It is very small, only $15 \times 15 \times 7 \text{mm}^3$. However, its travel can be as high as 3.6mm, which is very suitable for adjustment and application of the millimeter range in the limited space.

Characteristics >>

- Travel to 3.6mm
- 1 to 3 axes for choice
- Speed up to 2mm/s
- Small size, light weight
- Self-locking at rest, requires no current

Applications >>

- Active optics
- Micro and nano CT
- Nano -focus and scanning
- Scanning electron microscopy (SEM) sample manipulation
- High vacuum sample high-precision alignment and tuning posture
- Sample movement in super resolution imaging
- Micro -nano equipment and manufacturing
- Integrated circuit manufacturing and testing



Harbin Core Tomorrow Science & Technology Co., Ltd.

Tel: +86-451-86268790

Email: info@coremorrow.com

Headquarters: Building I2, No.191 Xuefu Road, Nangang District, Harbin

Fax: +86-451-86267847

Web: www.coremorrow.com

Shanghai Office: Building 2, No.608 Shengxia Road, Pudong District, Shanghai

Technical Data >>

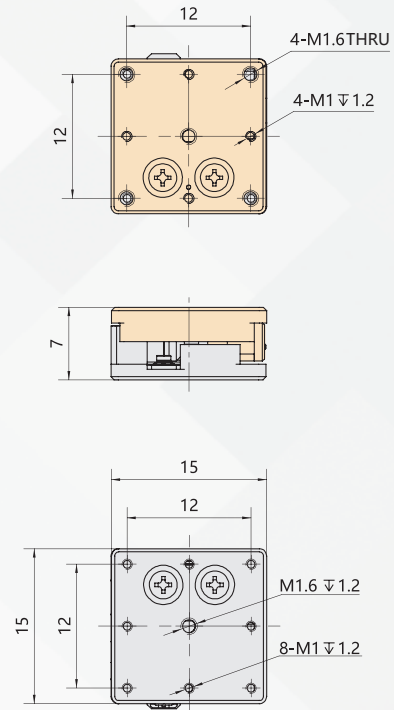
Type	N11.X3.5K	Units
Active axes	X	
Nominal travel range	3.6/±1.8	mm
Max speed	2	mm/s
Open loop resolution	<1	µm
Max force	0.5	N
Holding force(Passivity)	1.5	N
Max load (horizontal direction)	0.3	kg
Max load (vertical direction)	0.03	kg
Axial stiffness	1	N/µm±10%
Lateral stiffness	2	N/µm±10%
Operating temperature ^[1]	0~50	°C
Mass with cable	6	g±10%
Material	Al, Steel	
Size(L×W×H)	15×15×7	mm
Cable length ^[2]	1.5	m±10%
Recommended controller	E53.C1K-J	

Remarks:

[1] Custom is available.

[2] Custom cable length and connector are available.

Drawing >>



Recommended Controller >>



E53.C1K-J
 USB and serial port communication
 Suitable for piezo motor
 24VDC/1A power supply



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