

# X axis | N82.16K

## Piezo Linear Actuator



## Introduction

The N82.16K piezoelectric linear actuator combines manual coarse adjustment and piezo fine adjustment. The manual adjustment stroke can reach 9.53mm and the fine adjustment stroke is 16 $\mu$ m.

### Characteristics >>

- Coarse adjustment 9.53mm
- Fine adjustment 16 $\mu$ m
- Combination of manual and piezo adjustment

### Applications >>

- Mirror adjustment frame
- Profilometry
- Nano lithography
- Nanotechnology and metrology
- Motion platform driver
- Scientific research, etc.
- Surface measurement technique
- Motion in strong magnetic fields or vacuum



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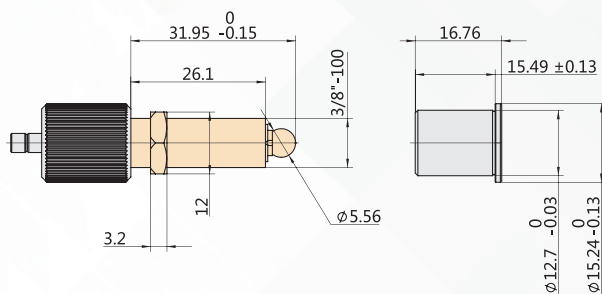
**Technical Data >>**

Type	N82.16K	Units
Manual motion range	9.53	mm
Piezo motion range (0~150V)	16	$\mu\text{m}\pm 20\%$
Piezo drive voltage	0~150	V
Force	200	N
El.capacitance	0.8	$\mu\text{F}\pm 20\%$
Operating temperature <sup>[1]</sup>	-25~85	°C
Material	Steel	
Cable length <sup>[2]</sup>	-	$\text{m}\pm 10\text{mm}$
Mass	60	$\text{g}\pm 5\%$
Recommended controller	E53.A、E53.C、E63.C	

Remarks:

[1] Custom is available.

[2] Custom cable length and connector are available.

**Drawing >>**

**Recommended Controllers >>**

**E53.A**

 Small size, easy integration, open loop  
 1-channel output, Ave. current 60mA  
 Analog control

**E63.C**

 Small volume, single channel, open loop  
 1-channel output, Ave. current 2.5mA  
 USB

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