

Make Your Motion and Control More Accurate!

# X axis | P11.X200S/K Piezo Nanopositioning Stages



# Introduction

P11.X/Z200 is a small-volume 1 axis piezo nanopositioning stage, its travel range can reach 200µm, the movement direction can be chosen X direction or Z direction, and a closed-loop feedback sensor can be selected to obtain higher precision. Custom low temperature vacuum versions are available.

# Characteristics >>

- X motion
- Travel to 200µm
- Small size
- Fast response time
- Vacuum version available

# Applications >>

- Laser interference
- Nano-measurement
- Nano imprint
- Scanning microscope
- Quality assurance test
- Micromachining / precision control
- Biotechnology
- Nanopositioning



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# Technical Data >>

Туре	S-Closed loop K-Open loop	P11.X200S	Р11.Х200К	Units
Active axes		Х	Х	
Travel range(0~120V)		160	160	μm±20%
Travel range(0~150V)		200	200	μm±20%
Sensor		SGS	-	
Closed/open loop resolution		10	4	nm
Linearity		0.05	-	%F.S.
Repeatability		0.02	-	%F.S.
Pitch/yaw/roll		<20	<20	µrad
Vacuum compatible		10^-4	10^-4	Ра
Unloaded resonant frequency		0.3	-	kHz±20%
Closed/open-loop unloaded step time		20	0.8	ms±20%
Load capacity		0.5	0.5	kg
El. capacitance		3.6	3.6	μF±20%
Operating temperature <sup>[1]</sup>		-20~80	-20~80	°C
Material		Steel, Al	Steel, Al	
Size(L×W×H)		40×40×22	40×40×22	mm
Cable length <sup>[2]</sup>		1.5	1.5	m±10mm

Note: Max driving voltage could be -20V~150V, 0~120V is recommended for long-term and high-reliable operation. 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 parallelism of the moving platform is about 20µm, and the roughness is about 1.6 to 3.2. Please contact the sales engineer for confirmation before purchase.

## Drawing >>



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Recommended Controllers >>