

X axis | P18.X200S/K Piezo Nanopositioning Stage



- Active axes X
- Stroke to 250µm
- · Load to 2kg
- Aperture: Ø35mm
- Fast response time

Applications >>

- Scanning microscopy
- Surface inspection
- Optical metrolog
- Quality assurance testing
- Image processing and stabilization
- Interference/metering
- Semiconductor measurement



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Introduction

P18.X200 is X axis motion piezo linear scanner, it adopts amplified mechanism and built-in high-reliability piezo actuators, which could realize high-speed scanning up to 250µm. The aperture is Ø35mm, and various displacements and specifications are available for selection. It is suitable for long-travel multi-dimensional scanning applications.



Make Your Motion and Control More Accurate!

Technical Data >>

Туре	S-Closed loop K-Open loop	P18.X200S	P18.X200K	Units
Active axis		Х	Х	
Driving channels		1	1	
Travel range(0~120V)		200	200	µm±10%
Travel range(0~150V)		250	250	µm±10%
Sensor		SGS	-	
Aperture		Ø35	Ø35	mm
Resolution		7	2	nm
Closed-loop linearity		0.2	-	%F.S.
Repeatability		0.15	-	%F.S.
Pitch/yaw/roll		<10	<10	µrad
Push/pull force capacity		60/20	60/20	Ν
Stiffness		0.3	0.3	N/µm±20%
Unloaded resonant frequency		500	500	Hz±20%
Unloaded Step time		30	5	ms±20%
Load capacity		2	2	kg
El. capacitance		11	11	μF±20%
Operating temperature ^[1]		-20~80	-20~80	°C
Material		Aluminum	Aluminum	
Size(L×W×H)		100×100×15	100×100×15	mm
Mass		200	200	g±5%
Cable length ^[2]		1.5	1.5	m±10mm
Sensor/voltage connector ^[2]		-	-	

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 $20\mu m$, and the roughness is about 1.6 to 3.2. Please contact the sales engineer for confirmation before purchase.

Drawing >>





Disclaimer: The data here are typical, only for reference. Some variations will occur for different batch.

Recommended Controllers >>



E01.D1 LCD, membrane button, up to 625mA RS-232/RS-422/USB interface Software secondary development



E53 Small size, 60mA RS-232/RS-422/USB interface Software secondary development



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