

XZ axes | P18.XZ200S/K Piezo Nanopositioning Stage



Introduction

P18.XZ200 is XZ axes motion piezo linear scanner, it adopts amplified mechanism and built-in highreliability piezo actuators, which could realize highspeed scanning up to 200µm. The aperture is Ø35mm, and various displacements and specifications are available for selection. It is suitable for long-travel multi-dimensional scanning applications.

Characteristics >>

- Active axes XZ
- Stroke to 200µm/axis
- Load to 1kg
- 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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Technical Data >>

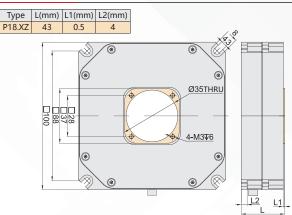
Type S-Closed loop K-Open loop	P18.XZ200S	P18.XZ200K	Units
Active axis	XZ	XZ	
Driving channels	2	2	
Travel range(0~120V)	160/axis	160/axis	µm±10%
Travel range(0~150V)	200/axis	200/axis	µm±10%
Sensor	SGS	-	
Aperture	Ø35	Ø35	mm
Resolution	7	2	nm
Closed-loop linearity	0.2	-	%F.S.
Repeatability	0.15	-	%F.S.
Pitch/yaw/roll	<20	<20	µrad
Push/pull force capacity	30/10	30/10	Ν
Stiffness	0.3	0.3	N/µm±20%
Unloaded resonant frequency	X200/Z300	X200/Z300	Hz±20%
Unloaded Step time	50	5	ms±20%
Load capacity	1	1	kg
El. capacitance	11/axis	11/axis	μF±20%
Operating temperature ^[1]	-20~80	-20~80	°C
Material	Aluminum	Aluminum	
Size(L×W×H)	100×100×43	100×100×43	mm
Mass	550	550	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.

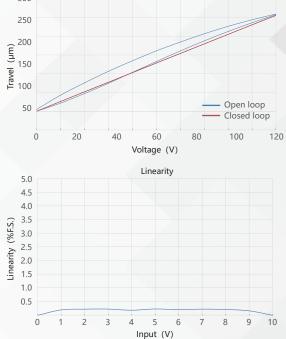
[1] Custom ultralow temperature and ultrahigh vacuum versions are available.[2] Custom cable length and connector is available.

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.D3 LCD, membrane button, up to 625mA RS-232/RS-422/USB interface Software secondary development



E70 Small size, ave current 70mA/channel RS-232/RS-422/USB interface Software secondary development



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Make Your Motion and Control More Accurate!