

XYZ axes | P12B.XYZ100S/K

Piezo Nanopositioning Stages





The P12B.XYZ100 piezo nanopositioning scanner moves in X, Y and Z, its travel is up to $100\mu m/axis$, and it has a aperture with diameter of 10mm, which is very suitable for microscopy.

Characteristics >>

- XYZ motion
- 100µm/axis travel
- · Load capacity to 200g
- Aperture of Ø10mm
- Suitable for vacuum application

Applications >>

- Scanning microscopy
- Confocal microscopy
- Surface measurement
- Semiconductor test
- Image process and stability
- Micromanipulation





Technical Data >>

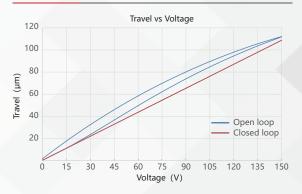
Туре	S-Closed loop K-Open loop	P12B.XYZ100S	P12B.XYZ100K	Units
Active axes		X, Y, Z	X, Y, Z	
Travel range(0~150V)		100/axis	100/axis	μm±20%
Resolution		3	1	nm
Sensor		SGS	-	
Aperture		Ø10	Ø10	mm
Unloaded resonant frequency		0.03	0.03	kHz±20%
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El. capacitance		3.6/axis	3.6/axis	μF±10%
Load capacity		200	200	g
Operating temperature ^[1]		-20~80	-20~80	°C
Material		Steel, Aluminum	Steel, Aluminum	
Cable length ^[2]		1.5	1.5	m±10mm

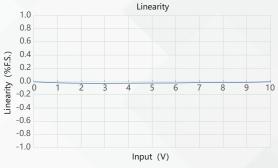
Note: Max driving voltage could be -20V \sim 150V, 0 \sim 120V is recommended for long-term and high-reliable operation.Unless otherwise specified, the above parameters are measured at room temperature about 25° C.

- $\label{eq:custom} \mbox{[1] Custom ultralow temperature and ultrahigh vacuum versions are available.}$
- [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.

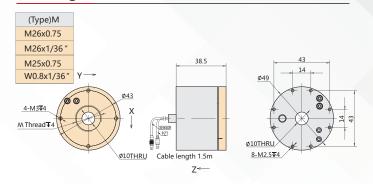
Curves >>





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

Drawing >>



Recommended Controllers >>



E01.D3 LCD, membrane button, up to 625mA RS-232/RS-422/USB interface Software secondary development



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

