

Make Your Motion and Control More Accurate!

Zaxis P70.Z8S/K Piezo Nanopositioning Stages

Introduction P70 piezo nanopositioning scanner has two versions, XY-motion and Z-motion version. Both versions have four through holes at the four corners, and the hole center distance is 30mm, which is very suitable for the

installation of cage structures.



- Motion in Z
- Travel to 8µm
- Load capacity up to 200g
- Suitable for XY scanning objective lens
- Flexure hinge construction

Applications >>

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

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Technical Data >>

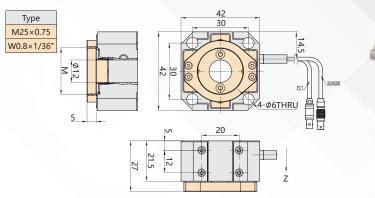
Type S-Closed loc K-Open loo	· P/0/85	P70.Z8K	Units
Active axes	Z	Z	
Driving channels	1	1	
Travel rang	6.4(@120V)	6.4(@120V)	µm±10%
Travel rang	8(@150V)	8(@150V)	µm±10%
Sensor	SGS	-	
Resolution	0.3	0.1	nm
Linearity	0.25	-	%F.S.
Repeatability	0.16	-	%F.S.
Pitch/yaw/roll	<10	<10	µrad
Load capacity	200	200	g
Closed-loop unloaded response	20	20	ms±20%
Unloaded resonant frequency	3.6	3.6	kHz±20%
Loaded resonance	1.5 (200g)	1.5 (200g)	kHz±20%
El. capacitance	1.6	1.6	μF±20%
Operating temperature ^[1]	-20~80	-20~80	°C
Material	Steel, Al	Steel, Al	ms±20%
Size(L×W×H)	42×42×27	42×42×27	mm
Mass	128.5	128.5	g±5%
Cable length ^[2]	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.

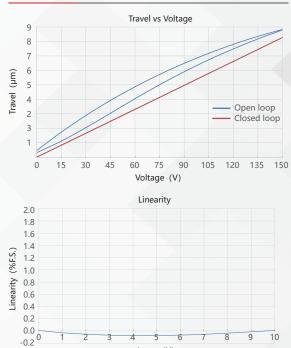
[1] Custom ultralow temperature and ultrahigh vacuum versions are available. [2] Custom cable length and connector is available.

Note: The parallelism of the moving platform is about $20\mu m$, 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.

Input (V)

9 10

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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