

Make Your Motion and Control More Accurate!

Zaxis | P76.Z80S/K Piezo Objective Scanner



Introduction

P76.Z80 piezoelectric objective scanner features a large load capacity up to 0.9kg, Z-axis linear motion range up to 80µm, adopting flexible hinge mechanism, no friction, good linearity, high closed-loop positioning accuracy.

Characteristics >>

- Active axes Z
- Travel to 80µm
- Load capacity to 0.9kg
- Millisecond response time
- Closed loop for high repeatability

Applications >>

- 3D imaging
- Surface structure analysis
- Biotechnology
- Interference/metering
- Confocal microscope
- Semiconductor test



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Technical Data >>

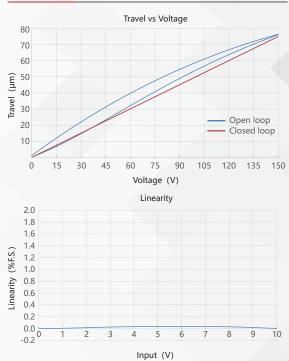
Type S-Closed loop K-Open loop	P76.Z80S	P76.Z80K	Units
Active axis	Z	Z	
Travel range(0~120V)	64	64	µm±10%
Travel range(0~150V)	80	80	µm±10%
Integrated sensor	SGS	-	
Resolution	3	1	nm
Linearity	0.03	-	%F.S.
Repeatability	0.02	-	%F.S.
Unloaded resonant frequency	1700	1700	Hz±20%
Closed-loop operating frequency (-3dB)	-	-	Hz±20%
Unloaded step time	15@24µm, 900g	-	ms±20%
Load capacity	0.9	0.9	kg
El. capacitance	14.4	14.4	μF±20%
Operating temperature ^[1]	-20~80	-20~80	°C
Material	Steel, Al	Steel, Al	
Mass	765	765	g±5%
Cable length ^[2]	1.5	1.5	m±10mm

Note: Technical data are measured by CoreMorrow E00/E01 series piezo controller. 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.

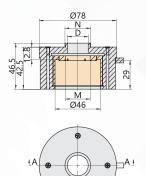
Note: The parallelism of the moving platform is about 20μ m, and the roughness is about 1.6 to 3.2. Please contact the sales engineer for confirmation before purchase.





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

Drawing >>



M(Model)	N(Model)	D
M38×0.75	M38×0.75	Φ27
M32×0.75	M32×0.75	Φ27
M27×0.75	M27×0.75	Φ22
M26×0.75	M26×0.75	Φ21
M26×1/36"	M26×1/36"	Φ21
M25×0.75	M25×0.75	Ф20
W0.8×1/36"	W0.8×1/36"	Φ15

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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