Introduction

The XD700 series piezo actuators are piezoelectric actuators with a mechanically packaged shell and an aircooled heat dissipation interface. It is easy to install and fix with the external mechanical structure, and is suitable

for dynamic application scenarios.



Z axis | XD700.100S/K-B **Piezo Actuators**

Characteristics >>

- Z-direction motion
- High precision of closed loop positioning
- Fast response
- Custom cooling
- Customizable

Applications >>

- 3D imaging
- Interference/metering
- Surface structure analysis
- Confocal microscopy Biological technology
- Semiconductor test



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Make Your Motion and Control More Accurate!

Technical Data >>

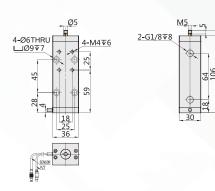
Туре	S-Closed loop K-Open loop	XD700.100S-B	XD700.100K-B	Units
Active axes		Z	Z	
Travel range(0~120V)		68	68	µm±10%
Travel range(0~150V)		85	85	µm±10%
Integrated sensor		SGS	-	
Resolution		2.5	1	nm
Closed-loop linearity		0.3	-	%F.S.
Repeatability		0.2	-	%F.S.
Push/pull force capacity		1200/200	1200/200	Ν
Stiffness		10	10	N/µm±20%
Unloaded resonant frequency		5000	5000	Hz±20%
El. capacitance		9	9	μF±10%
Operating temperature ^[1]		-20~80	-20~80	°C
Material		Steel	Steel	
Cable length ^[2]		1.5	1.5	m±10mm
Connector ^[2]		-	-	

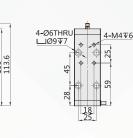
Note: Max driving voltage could be $-20V \sim 150V$, $0 \sim 120V$ is recommended for long-term and high-reliable operation.Unless otherwise specified, the above parameters are measured at room temperature about 25° C.

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

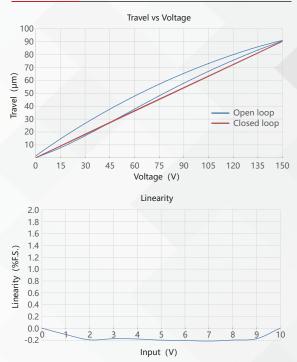
Note: The parallelism of the moving platform is about 20μ m, and the roughness is about 1.6 to 3.2. Please contact the sales engineer for confirmation before purchase.

Drawing >>





Curves >>



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



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