

θz axis | S21.R7S/K Piezo Rotation Stage

Introduction

S21.R7S/K piezoelectric rotation stage is a θ z rotation stage with small size, a rotation angle of 7.5mrad and a load capacity of 0.1kg, which can drive the lens to make

precise rotation motion.

Characteristics >>

- θz rotary moiton
- Rotation angle range to 7.5mrad
- Small size
- Closed loop for high accuracy
- Fast response
- For calibration of angular velocity sensor

Applications >>

- Optical beam scanning
- Light path adjustment
- Graphical stability
- Interference/metering
- Large loading tilt motion
- Space perturbation simulation system
- Calibration of acceleration sensor
- Calibration of angular velocity sensor

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Make Your Motion and Control More Accurate!

Technical Data >>

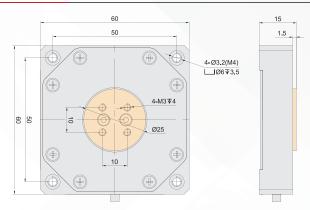
Туре	S-Closed loop K-Open loop	S21.R7S	S21.R7K	Units
Active axis		θz	θz	
Rotation angle(0~120V)		6(≈ 1240")	6(≈ 1240")	mrad±10%
Rotation angle(0~150V)		7.5(≈ 1500")	7.5(≈ 1500")	mrad±10%
Integrated sensor		SGS	-	
Resolution		0.2(≈ 0.04")	0.1(≈ 0.02")	µrad
Closed-loop linearity		0.5	-	%F.S.
Closed-loop repeatability		0.2	-	%F.S.
Push/pull force		10/5	10/5	Ν
Stiffness		1	1	N/µm±20%
Unloaded resonant frequency		1.1	1.1	kHz±20%
Unloaded step time		30	1.5	ms±20%
Load capacity		0.1	0.1	kg
Operating temperature ^[1]		-20~80	-20~80	°C
El. capacitance		1.8	1.8	μF±20%
Material		Aluminum	Aluminum	
Mass		105	105	g±5%
Cable length ^[2]		1.5	1.5	m±10mm
Sensor/voltage connector ^[2]		-	-	

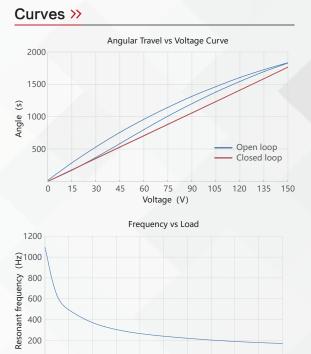
Note: Technical data are measured by CoreMorrow E00/E01 series piezo controller. Max driving voltage could be -20V~150V, 0~120V is recommended for long-term and high-reliable operation.Unless otherwise specified, the above parameters are measured at room temperature about 25° C.

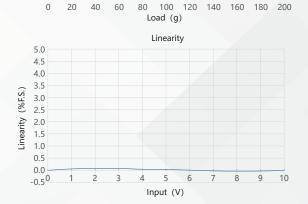
[1] Custom ultralow temperature and ultrahigh vacuum versions are available.[2] Custom cable length and connector is available.

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