



θx, θy axes | S34.T2S/KY Piezo Tip/Tilt Platform



Introduction

S34.T2S/KY piezo tip/tilt platform are specially designed for high-load, high-dynamic two-dimensional deflection applications. The load capacity can reach 500g, and the unload resonant frequency can reach 2800Hz. Its deflection angle can reach 1mrad/axis, open and closed loop versions are available.

Characteristics >>

- θx, θy tilt
- Load capaciy to 500g
- High resonant frequency
- Fast response

Applications >>

- Laser scanning Beam deflection
- Image processing and stabilization
- Error correction for polygonal mirrors
- Beam stabilization
- Light filter
- Optical switch
- Active and adaptive optics



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Technical Data >>

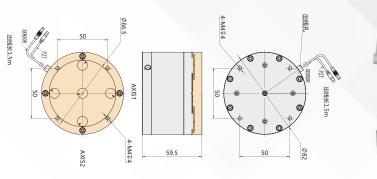
Туре	S - closed loop K - open loop	S34.T2SY	S34.T2KY	Units
Active axes		Өх, Өу	Өх, Өу	
Driving channels		3	3	
Tilt angle(0~120V)		0.8(≈ 165")	0.8(≈ 165")	mrad/axis±10%
Tilt angle(0~150V)		1(≈ 2006")	1(≈ 200")	mrad/axis±10%
Integrated sensor		SGS	-	
Resolution		0.05 (≈ 0.01")	0.02 (< 0.01")	µrad
Closed-loop linearity		0.5	-	%F.S.
Closed-loop repeatability		0.2	-	%F.S.
Unloaded resonant frequency		2800	2800	Hz±20%
Loaded resonant frequency@500g		600	600	Hz±20%
Step Time		5	3	ms±20%
El. capacitance		14.5		µF/axis±20%
Operating temperature ^[1]		-20~80		°C
Material		Steel, Aluminum		
Mass		2000		g±5%
Cable length ^[2]		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.

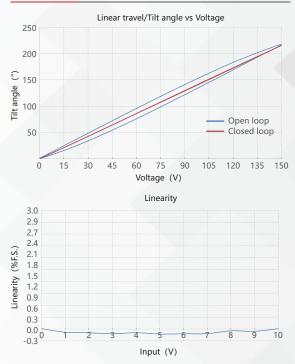
Note: The parallelism of the moving platform is about $20\mu m$, and the roughness is about 1.6 to 3.2. Please contact the sales engineer for confirmation before purchase.

Drawing >>



Make Your Motion and Control More Accurate!

Curves >>



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

Recommended Controllers >>



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



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



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