

$\theta_x \theta_y$ axes | S34.T4S/KY Piezo Tip/Tilt Platform



Characteristics >>

- θ_x , θ_y tilt
- Load capacity to 1000g
- High resonant frequency
- Fast response

Applications >>

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

Introduction

S34.T4S/KY piezo tip/tilt platform are specially designed for high-load, high-dynamic two-dimensional deflection applications. The load capacity can reach 1000g, and the unload resonant frequency can reach 2350Hz. Its deflection angle can reach 1mrad/axis, open and closed loop versions are available.



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Technical Data >>

Type	S34.T4SY	S34.T4KY	Units
Active axes	θ_x, θ_y	θ_x, θ_y	
Tilt angle(0~150V)	± 1.1	± 1.1	mrad $\pm 20\%$
Integrated sensor	SGS	-	
Resolution	0.06($\approx 0.01''$)	0.02($< 0.01''$)	μrad
Unloaded resonant frequency	2350	2350	Hz $\pm 20\%$
Resonant frequency@800g	600	600	Hz $\pm 20\%$
El. capacitance	52.8/axis	52.8/axis	$\mu\text{F}\pm 10\%$
Operating temperature ^[1]	-20~80	-20~80	$^{\circ}\text{C}$
Material	Steel, Aluminum		
Load capacity	1	1	kg
Cable length ^[2]	1.5	1.5	m $\pm 10\text{mm}$
Mass	1360	1360	g $\pm 5\%$

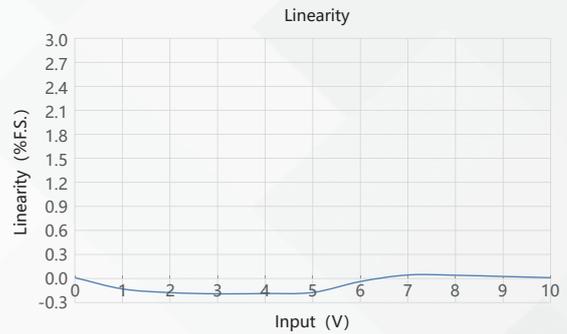
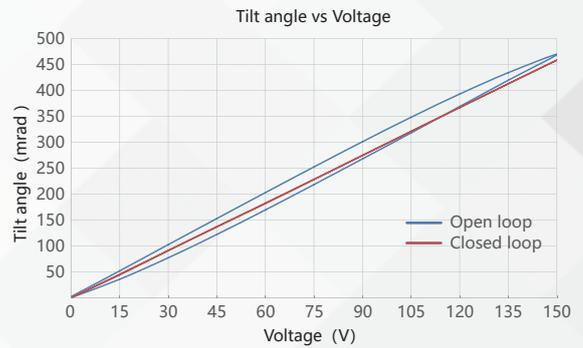
Note: Technical data are measured by CoreMorrow E00/E01 series piezo controller. Max driving voltage could be -20V~150V, 0~120V is recommended for long-term and high-reliable operation. Unless otherwise specified, the above parameters are measured at room temperature about 25 $^{\circ}\text{C}$.

[1] Custom ultralow temperature and ultrahigh vacuum versions are available.

[2] Custom cable length and connector is available.

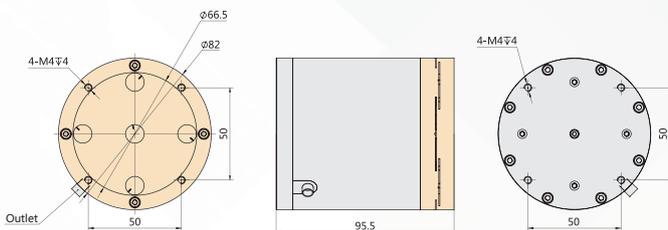
Note: The parallelism of the moving platform is about 20 μm , and the roughness is about 1.6 to 3.2. Please contact the sales engineer for confirmation before purchase.

Curves >>



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

Drawing >>



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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