

θxθy axes | S30.T2S/K

Piezo Tip/Tilt Platform



Introduction

S30.T2 is an open-loop θx , θy piezo tip/tilt platform, which is designed for highly-dynamic applications, with unloaded resonance frequency up to 15kHz.

Characteristics >>

- Small size
- Nanoradian resolution
- Unloaded resonant frequency: 15kHz
- High-dynamic
- Open-loop

Applications >>

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





Technical Data >>

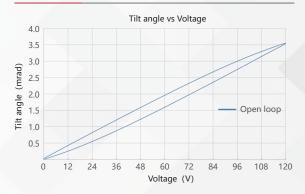
Туре	S30.T2S	S30.T2K	Units
Integrated sensor	SGS	-	
Active axes	Өх, Өу		
Tilt angle(0~120V)	3/±1.5		mrad±10%
Resolution	0.03 (<0.01")	0.03 (<0.01")	μrad
Unloaded resonant frequency	15		kHz±20%
Linearity	0.2/-		%F.S.
Repeatability	0.1/-		%F.S.
Resonant frequency @loading Ø12.5×3mm mirror	10		kHz±20%
Distance from pivot point to platform surface	4.2		mm±0.2mm
El. capacitance	1.6/axis		μF±10%
Operating temperature ^[1]	-20~80		°C
Material	Titanium, steel		
Mass	3	80	g±5%
Driving channels	3, includes one constant voltage output		
Height(L)	30		mm
Cable length ^[2]	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 $20\mu m$, and the roughness is about 1.6 to 3.2. Please contact the sales engineer for confirmation before purchase.

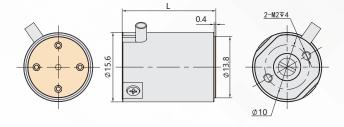
Curves >>



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

Drawing >>

Type	L[mm]	
S30.T2S	30	
S30.T2K	30	



Recommended Controllers >>



E01.C3 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



CoreMorrow Ltd.