

θx, θy axes | P33.T6S/KF/Y Piezo Tip/Tilt Platform



- θx, θy tilt
- Tilt range to ±3.75mrad/axis
- Sub-ms response time
- High closed-loop positioning accuracy
- High temperature stability

Applications >>

• Laser micromachine

- Laser scanning Beam deflection
- Image processing and stabilization
- Interlacing scanning, dithering
- Interference
- Light filter/optical switch
- Active and adaptive optics



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Introduction

P33.T2 Piezo Tip/Tilt Platform is a deflection platform with fast response and compact size. It provides high-precision angular motion of the top platform. Compared with other actuators, the flexible hingeguided piezoelectric deflection platform provides higher acceleration.



Technical Data >>

Туре	S - closed loop K - open loop	P33.T6SF/Y	Р33.Т6КF/Ү	Units
Active axes		Өх, Өу	Өх, Өу	
Driving channels		3	3	
Tilt angle (0~100V)		6.2/±3.1(≈ ±639")		mrad±10%
Tilt angle (0~120V)		7.5/±3.75(≈ ±773")		mrad±10%
Integrated sensor		SGS	-	
Resolution		0.25(≈ 0.05")	0.1(≈ 0.02")	μrad
Closed-loop linearity		0.25	-	%F.S.
Closed-loop repeatability		0.02	-	%F.S.
Unloaded resonant frequency		3.2	3.2	kHz±20%
Unloaded step time		6	3.5	ms±20%
El. capacitance		11/axis	11/axis	μF±20%
Operating temperature ^[1]		-20~80	-20~80	°C
Material		Steel	Steel	
Platform Length L		73	73	mm
Mass		290	290	g±5%
Cable length ^[2]		1.5	1.5	m±10mm
Sensor/voltage connector ^[2]		-	-	

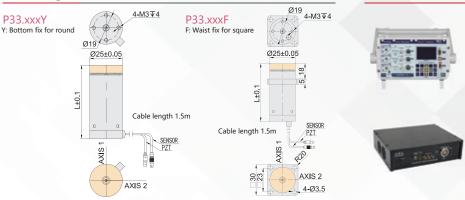
Note: Technical data are measured by CoreMorrow E00/E01 series piezo controller. Max driving voltage could be -20V~150V, 0~120V is recommended for long-term and high-reliable operation. Unless otherwise specified, the above parameters are measured at room temperature about 25° C.

[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 20µm, and the roughness is about 1.6 to 3.2. Please contact the sales engineer for confirmation before purchase.

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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