

θx, θy axes | P33.T2S/KF/Y Piezo Tip/Tilt Platform

Characteristics >>

- θx, θy tilt
- Tilt range to ±1.5mrad/axis
- Sub-ms response time
- High closed-loop positioning accuracy
- High temperature stability

Applications >>

- Laser scanning Beam deflection
- Image processing and stabilization
- Interlacing scanning, dithering
- Interference
- Light filter/optical switch
- Laser micromachine
 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.T2SF/Y	P33.T2KF/Y	Units
Active axes		Өх, Өу	Өх, Өу	
Driving channels		3	3	
Tilt angle (0~100V)		2/±1(≈ ±206")		mrad±10%
Tilt angle (0~120V)		2.5/±1.25(≈ ±257")		mrad±10%
Integrated sensor		SGS	-	
Resolution		0.05(≈ 0.01")	0.02(< 0.01")	µrad
Closed-loop linearity		0.1	-	%F.S.
Closed-loop repeatability		0.02	-	%F.S.
Unloaded resonant frequency		3.7	3.7	kHz±20%
Unloaded step time		1.5	1	ms±20%
El. capacitance		3.6/axis	3.6/axis	μF±20%
Operating temperature ^[1]		-20~80	-20~80	°C
Material		Steel	Steel	
Platform Length L		37	37	mm
Mass		190	190	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.

P33.xxxF

F: Waist fix for square

4**-**M3∓4

Cable length 1.5m

SENSOR PZT

Ø19

L±0.1

Ø25±0.05

AXIS .



Ø19 4-M3⊽4

ω

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SENSOR PZT

AXIS 2

_ 4**-**Ø3.5 1

220

SI.

Ø25±0.05

AXIS 1

L±0.1

Cable length 1.5m

33



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



Drawing >>

Y: Bottom fix for round

P33.xxxY

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AXIS 2

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Make Your Motion and Control More Accurate!

Curves >>



Frequency vs Load

