

θx, θy axes | P34.T1S/K–B2 Piezo Tip/Tilt Platform



Introduction

P34.T1-B2 piezoelectric deflection platform is designed for lenses large up to 80 mm in diameter. Their differential drive exhibits excellent angular positioning stability over a wide temperature range. P34.T1-B2's structure allows the top platform to perform high dynamic precision deflection motion on two orthogonal axes with common pivot points.

Characteristics >>

- θx, θy tilt
- Tilt range to 1.4mrad/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 switchActive and adaptive optics



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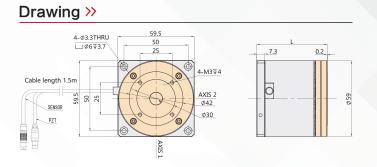
Technical Data >>

S - closed loop K - open loop	P34.T1S-B2	P34.T1K-B2	Units
Active axes	Өх, Өу	θx, θy	
Driving channels	3	3	
Tilt angle (0~120V)	1.1		mrad±20%
Tilt angle (0~150V)	1.4		mrad±20%
Integrated sensor	SGS	-	
Resolution	0.2	0.1	µrad
Closed-loop linearity	0.1	-	%F.S.
Closed-loop repeatability	0.02	-	%F.S.
Unloaded resonant frequency	3.6	3.6	kHz±20%
El. capacitance	3.6/axis	3.6/axis	μF±20%
Operating temperature ^[1]	-20~80	-20~80	°C
Material	Aluminum	Aluminum	
Platform Length L	38	38	mm±0.1
Mass	380	200	g±5%
Cable length ^[2]	1.5	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 20µm, and the roughness is about 1.6 to 3.2. Please contact the sales engineer for confirmation before purchase.



Recommended Controllers >>

E01.D3



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

LCD, membrane button, up to 625mA

RS-232/RS-422/USB interface

Software secondary development



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