

θx , θy axes | P34.T4S/K-B2

Piezo Tip/Tilt Platform





P34.T4-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.T4-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 5.6mrad/axis
- Sub-ms response time
- · High closed-loop positioning accuracy
- High temperature stability

Applications >>

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



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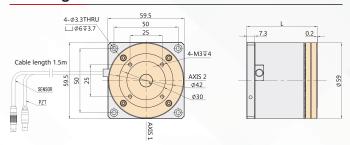
Technical Data >>

Туре	S - closed loop K - open loop	P34.T4S-B2	P34.T4K-B2	Units
Active axes		Өх, Өу	Өх, Өу	
Driving channels		3	3	
Tilt angle (0~120V)		4.5		mrad±20%
Tilt angle (0~150V)		5.6		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		1.6	1.6	kHz±20%
El. capacitance		14.5/axis	14.5/axis	μF±20%
Operating temperature ^[1]		-20~80	-20~80	°C
Material		Aluminum	Aluminum	
Platform Length L		92	92	mm±0.1
Mass		800	800	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.

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.

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



 $[\]label{eq:current} \ensuremath{\text{[1]}}\xspace \ensuremath{\text{Custom}}\xspace \ensuremath{\text{ultrahigh}}\xspace \ensuremath{\text{vacuum}}\xspace \ensuremath{\text{versions}}\xspace \ensuremath{\text{available}}\xspace.$

^[2] Custom cable length and connector is available.