

θ_x, θ_y axes | S37.T3S/KF

Piezo Tip/Tilt Platform



Introduction

S37.T3 piezo tip/tilt platform is specially designed for vibrating environments, with anti-vibration properties, and adopt a fully closed loop method, which can provide higher positioning accuracy.

Characteristics >>

- θ_x, θ_y tilt
- Anti-vibration design
- High reliability
- Optional open/closed loop

Applications >>

- Optical trapping
- Laser tuning
- Beam stability
- Light filter/optical switch
- Image processing and stabilization
- Laser scanning/beam deflection
- Optical



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Technical Data >>

Type	S - closed loop K - open loop	S37.T3SF	S37.T3KF	Units
Active axes		θ_x, θ_y	θ_x, θ_y	
Driving channels		3	3	
Tilt angle(0~120V)		4/±2	4/±2	mrad±20%
Tilt angle(0~150V)		5.5/±2.75	5.5/±2.75	mrad±20%
Integrated sensor		SGS	-	
Resolution		0.15 ($\approx 0.03''$)	0.04 ($< 0.01''$)	μ rad
Closed-loop linearity		0.1	-	%F.S.
Closed-loop repeatability		0.02	-	%F.S.
Unloaded resonant frequency		6.4		kHz±20%
El. capacitance		5.2		μ F±20%
Operating temperature ^[1]		-20~80		°C
Material		Steel, titanium		
Mass		230		g±5%
Platform Length		46		mm±0.1
Cable length ^[2]		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.

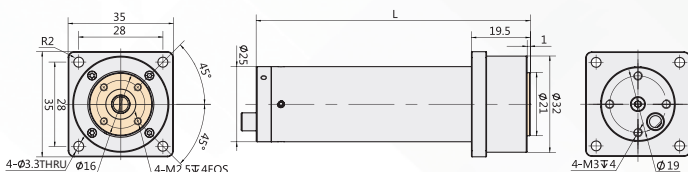
[1] Custom ultralow temperature and ultrahigh vacuum versions are available.

[2] Custom cable length and connector is available.

Note: The parallelism of the moving platform is about 20 μ m, and the roughness is about 1.6 to 3.2. Please contact the sales engineer for confirmation before purchase.

Drawing >>

Type	L[mm]
S37.T3S/KF	46



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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