COREMORROW
Piezo Nano Motion

Make Your Motion and Control More Accurate!

θx, θy axes | S37.T6S/KF

Piezo Tip/Tilt Platform

Introduction

S37.T6 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 »

- θx, θy 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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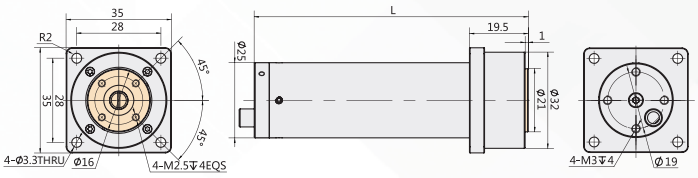
Technical Data »

Type	S - closed loop K - open loop	S37.T6SF	S37.T6KF	Units
Active axes		θx, θy	θx, θy	
Driving channels		3	3	
Tilt angle(0~120V)		7.5/±3.75	7.5/±3.75	mrad±20%
Tilt angle(0~150V)		10/±5	10/±5	mrad±20%
Integrated sensor		SGS	-	
Resolution		0.25（≈ 0.05"）	0.08（≈ 0.02"）	μrad
Closed-loop linearity		0.1	-	%F.S.
Closed-loop repeatability		0.02	-	%F.S.
Unloaded resonant frequency		6.1		kHz±20%
El. capacitance		11		μF±20%
Operating temperature[1]		-20~80		℃
Material		Steel, titanium		
Mass		300		g±5%
Platform Length		73		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 20μm, and the roughness is about 1.6 to 3.2. Please contact the sales engineer for confirmation before purchase.

Drawing »

Type	L[mm]
S37.T6S/KF	73



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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