

Make Your Motion and Control More Accurate!

Zaxis | P77.S/K160 Piezo Phase Shifter

Characteristics >>

- Active axes Z
- Stroke to 17.5µm
- Max load to 10kg
- Aperture size: Φ160mm
- Custom versions are available

Applications >>

- Optical trapping
- Surface inspection
- Precision positioning
- Microscopic imaging
- Phase shifter
- Phase shifting/interference/metering



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Introduction

P77.S/K160 piezo phase shifter is specially designed for optical detection and phase shifting applications, with travel range of up to 17.5µm and load capacity is upright 10kg, lateral 5kg, inverted 5kg, which is very suitable for large-aperture optical inspection equipment, like laser interferometer, for various lenses. Custom versions are available.

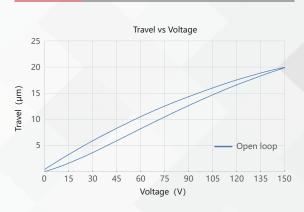


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Technical Data >>

Туре	S-Closed loop K-Open loop	P77.S160	P77.K160	Units
Active axis		Z	Z	
Travel range(0~120V)		14	14	µm±10%
Travel range(0~150V)		17.5	17.5	µm±10%
Sensor		SGS	-	
Aperture		Ф160	Ф160	mm
Resolution		0.5	0.2	nm
Pitch/yaw/roll		<10		µrad
Push/pull force capacity		100/20		Ν
Unloaded resonant frequency		140		Hz±20%
Unloaded Step time		2.5	2.5	ms±20%
Load capacity		upright 10, lateral 5, inverted 5		kg
El. capacitance		5.4		μF±20%
Operating temperature ^[1]		-20~80		°C
Material		Aluminum, steel		
Size(L×W×H)		200×200×37		mm
Mass		2400		g±5%
Cable length ^[2]		1.5		m±10mm
Sensor/voltage connector ^[2]		LEMO		

Curves >>



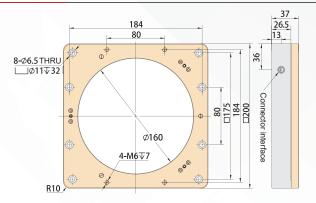
Disclaimer: The data here are typical, only for reference. Some variations will occur for different batch.

Note: 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.

Custom ultralow temperature and ultrahigh vacuum versions are available.
 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.

Drawing >>



Recommended Controllers >>



E53 Small size, 60mA 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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