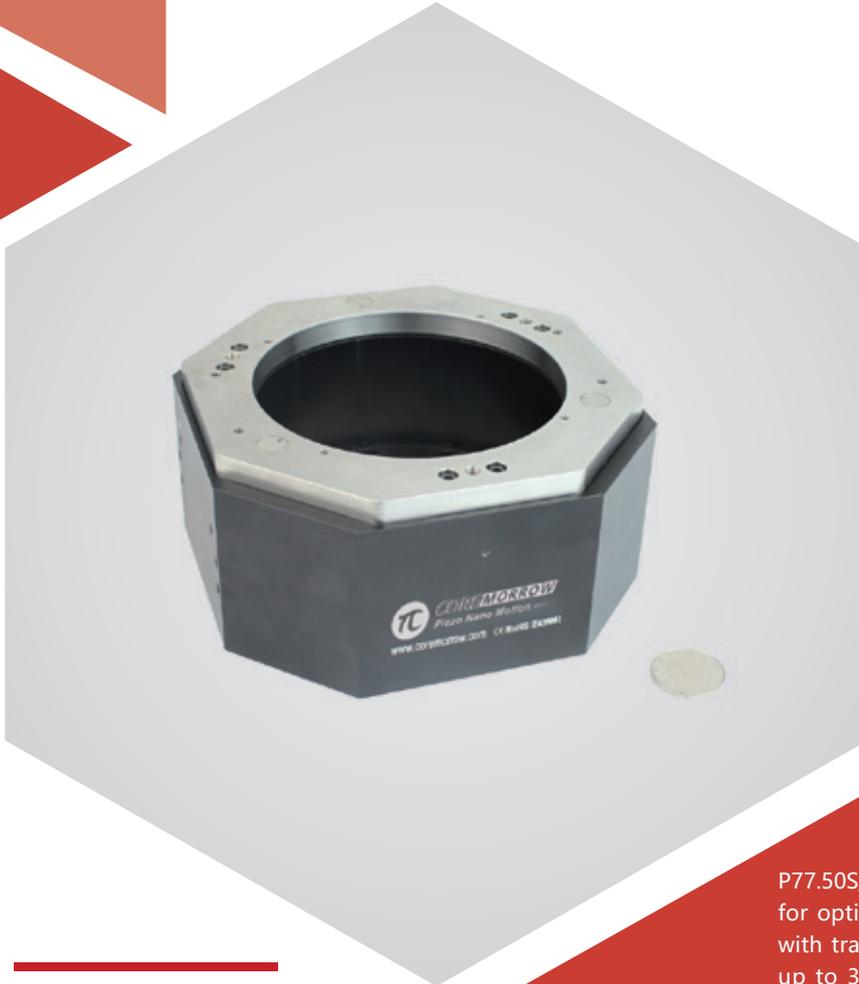


Z axis | P77.50S/K85

Piezo Phase Shifter



Characteristics >>

- Active axes Z
- Stroke to 50 μ m
- Load to 3kg
- Aperture size: Φ 85mm
- Custom versions are available

Applications >>

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

Introduction

P77.50S/K85 piezo phase shifters are specially designed for optical detection and phase shifting applications, with travel range of up to 50 μ m and load capacity of up to 3kg, 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 >>

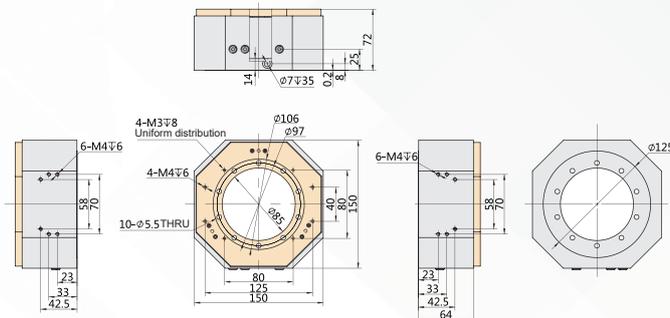
Type	P77.50S85	P77.50K85	Units
Active axis	Z	Z	
Travel range(0~120V)	40	40	$\mu\text{m}\pm 10\%$
Travel range(0~150V)	50	50	$\mu\text{m}\pm 10\%$
Sensor	SGS	-	
Aperture	$\Phi 85$	$\Phi 85$	mm
Size(L×W×H)	150×150×72	150×150×72	mm
Resolution	1.5	0.4	nm
Pitch/yaw/roll	-	-	μrad
Push/pull force	-	-	N
Unloaded resonant frequency	1100	1100	Hz±20%
Unloaded Step time	15@10 μm	15@10 μm	ms±20%
Load capacity	Upright 3	Upright 3	kg
El. capacitance	7.2	7.2	$\mu\text{F}\pm 20\%$
Operating temperature ^[1]	-20~80	-20~80	°C
Material	Aluminum, steel	Aluminum, steel	
Mass	2100	2100	g±5%
Cable length ^[2]	1.5	1.5	m±10mm
Sensor/voltage connector ^[2]	LEMO	LEMO	

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.

[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 μm , 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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