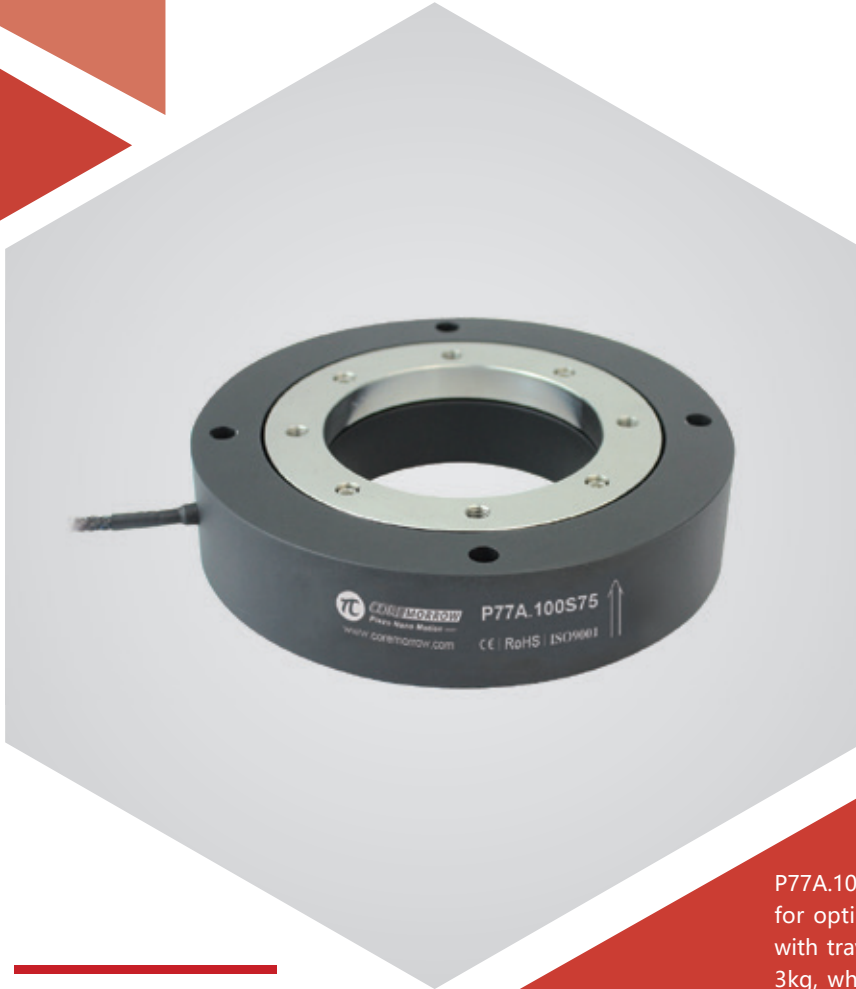


Z axis | P77A.100S/K75

Piezo Phase Shifter



Characteristics >>

- Active axes Z
- Stroke to 100 μ m
- Max load to 3kg
- Aperture size: Φ 75mm
- Custom versions are available

Applications >>

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

Introduction

P77A.100S/K75 piezo phase shifter is specially designed for optical detection and phase shifting applications, with travel range of up to 100 μ m and load capacity is 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 >>

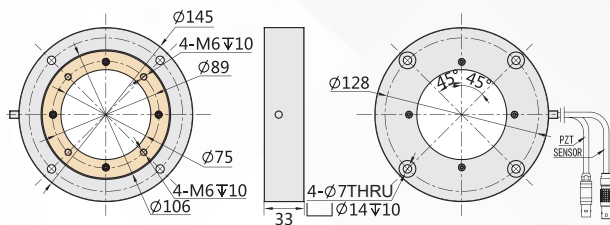
Type	S-Closed loop K-Open loop	P77A.100S75	P77A.100K75	Units
Active axis		Z	Z	
Sensor		SGS	-	
Travel range(0~120V)		80	80	$\mu\text{m}\pm 10\%$
Travel range(0~150V)		100	100	$\mu\text{m}\pm 10\%$
Aperture		$\Phi 75$	$\Phi 75$	mm
Outer diameter		$\Phi 145$	$\Phi 145$	mm
Height		33	33	mm
Resolution		3	1	nm
Pitch/yaw/roll		-	-	μrad
Push/pull force capacity		-	-	N
Unloaded resonant frequency		350	350	Hz $\pm 20\%$
Unloaded Step time		-	-	ms $\pm 20\%$
Load capacity		inverted 3	inverted 3	kg
El. capacitance		21.6	21.6	$\mu\text{F}\pm 20\%$
Operating temperature ^[1]		-20~80	-20~80	$^{\circ}\text{C}$
Material		Aluminum, steel	Aluminum, steel	
Mass		1260	1260	g $\pm 5\%$
Cable length ^[2]		1.5	1.5	m $\pm 10\text{mm}$
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 $^{\circ}\text{C}$.

[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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