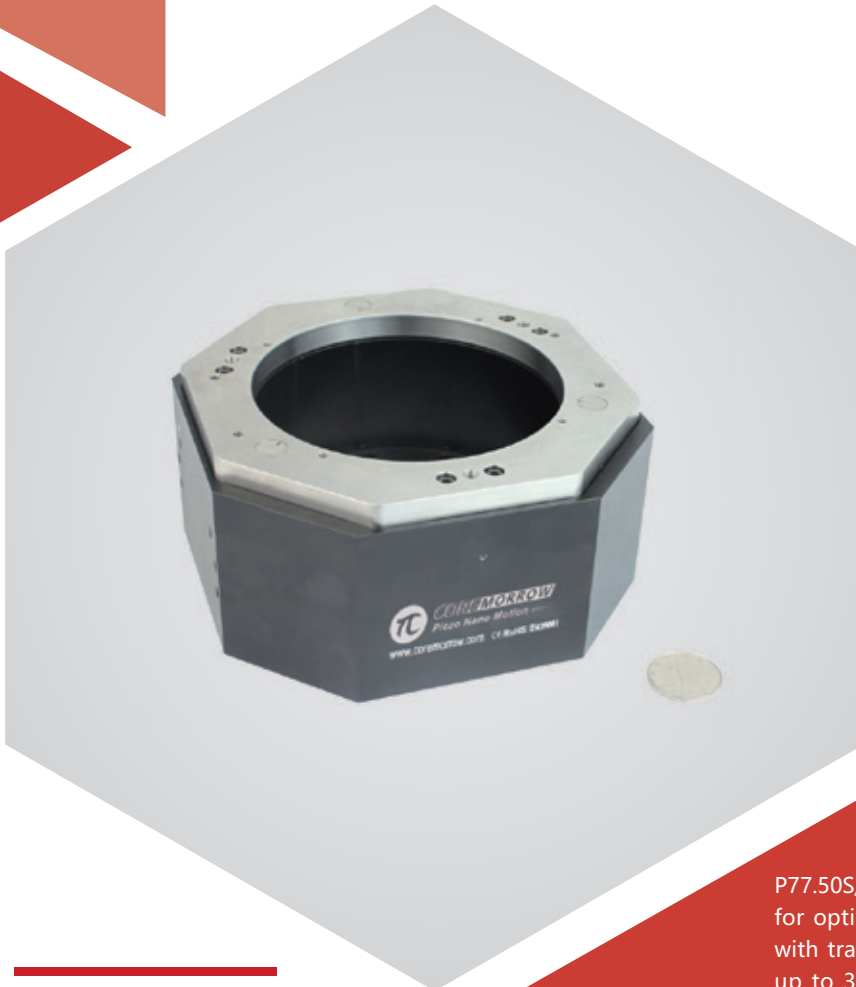


Z axis | P77.50S/K85

Piezo Phase Shifter



Characteristics >>

- Active axes Z
- Stroke to 50μm
- Load to 3kg
- Aperture size: Φ85mm
- 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 50μm 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.



Harbin Core Tomorrow Science & Technology Co., Ltd.

Tel: +86-451-86268790 Email: info@coremorrow.com
Fax: +86-451-86267847 Web: www.coremorrow.com

Headquarters: Building I2, No.191 Xuefu Road, Nangang District, Harbin
Shanghai Office: Building 2, No.608 Shengxia Road, Pudong District, Shanghai

Technical Data >>

Type	P77.50S85	P77.50K85	Units
Active axis	Z	Z	
Travel range(0~120V)	40	40	μm±10%
Travel range(0~150V)	50	50	μm±10%
Sensor	SGS	-	
Aperture	Φ85	Φ85	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@10μm	15@10μm	ms±20%
Load capacity	Upright 3	Upright 3	kg
El. capacitance	7.2	7.2	μF±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	

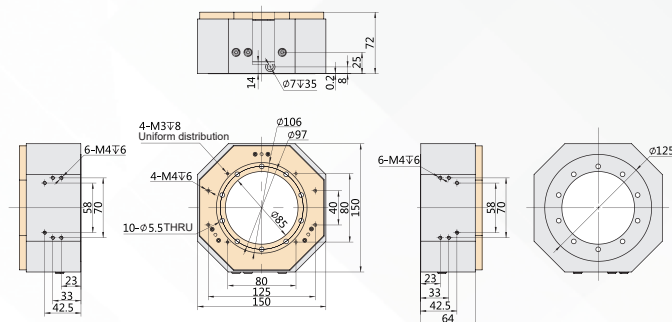
Note: Max driving voltage could be -20V~150V, 0~120V is recommended for long-term and high-reliable operation. Unless otherwise specified, the above parameters are measured at room temperature about 25° C.

[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 20μm, 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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