

Z axis | S23.Z10K

Piezo Z Platform



Introduction

S23.Z10K piezoelectric Z Platform(phase shifter) is a Z-axis linear motion platform, with a center aperture. The product is compact, Z-axis linear motion travel of 10µm. S23 is an open-loop version with high resolution and response speed, it is the first choice for interference scanning phase shift.

Characteristics >>

- Center aperture: Ø10mm
- Z linear motion
- High temperature stability
- Piezo phase shifter

Applications >>

- Image processing and stabilization
- · Laser scanning and beam deflection
- Light filter/optical switch
- Optical capture
- · Laser tuning
- Optics/beam stabilization





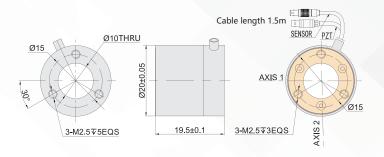
Technical Data >>

Туре	\$23.Z10K	Units
Active axis	Z	
Driving channels	1	
Travel in Z(0~120V)	8	μm±20%
Travel in Z(0~150V)	10	μm±20%
Tilt resolution in θx , θy	-	μrad
Resolution in Z	0.08	nm
Unloaded resonant frequency	7.5	kHz±20%
Unloaded step time	1.5	ms±20%
El. capacitance	0.5	μF±20%
Operating temperature ^[1]	-20~80	°C
Material	Steel	
Mass	50	g±5%
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.

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 >>



E01.D1 LCD, membrane button, up to 625mA RS-232/RS-422/USB interface Software secondary development



E53 Small size, 60mA RS-232/RS-422/USB interface Software secondary development



^[1] Custom ultralow temperature and ultrahigh vacuum versions are available.

^[2] Custom cable length and connector is available.