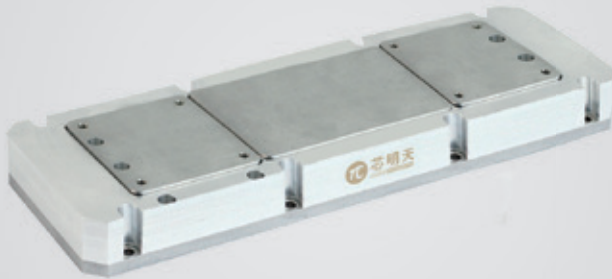


Z axis | P60.Z1000S/K

Piezo Nanopositioning Stages



Introduction

P60.Z1000 piezoelectric scanning stage is a Z axis translation scanning platform. Its range is up to 1000 μ m, load capacity up to 1.5kg, Optional closed-loop sensor for higher positioning accuracy.

Characteristics >>

- Motion in Z
- Travel to 1000 μ m
- Load capacity up to 1.5kg
- Optional vacuum version

Applications >>

- Metering
- Nanopositioning
- Semiconductor technology
- Micromachining/precision control
- Interference/scanning
- Disc drive testing
- Quality assurance testing



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Technical Data >>

Type	S-Closed loop K-Open loop	P60.Z1000S-C1	P60.Z1000K-C1	Units
Active axes		Z	Z	
Travel rang(0~120V)		800	800	μm±10%
Travel rang(0~150V)		1000	1000	μm±10%
Sensor		SGS	-	
Resolution		35	10	nm
Linearity		0.2	-	%F.S.
Repeatability		0.1	-	%F.S.
Unloaded resonant frequency		80	-	Hz±20%
Load capacity		1.5	1.5	kg
El. capacitance		72	72	μF±20%
Operating temperature ^[1]		-20~80	-20~80	°C
Material		Ti, Al	Ti, Al	
Mass (with no cable)		<1.3	<1.3	kg±20%
Vacuum		-	-	mbar
Size(L×W×H)		245×85×36	245×85×36	mm
Cable length ^[2]		1.5	1.5	m±10mm
Connector ^[2]		-	-	

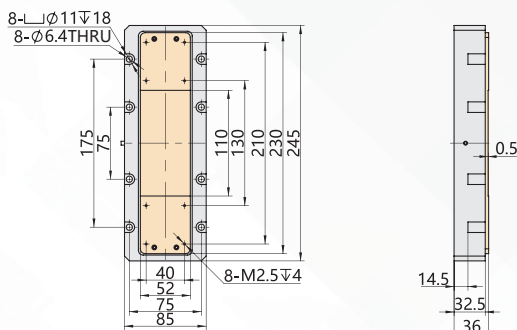
Note: Max driving voltage could be -20V~150V, 0~120V is recommended for long-term and high-reliable operation. Unless otherwise specified, the above parameters are measured at room temperature about 25° C.

[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 >>



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



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