

XY axes | P13A.XY180K

Piezo Nanopositioning Stages



Characteristics

- Active axes X, Y
- Low temperature 4K
- Displacement up to 80 μ m@150V at 4K
- Resolution to 1nm
- Open-loop drive, quick response

Applications >>

- Microscopic imaging
- Surface detection
- Precision positioning
- Interference/metrology
- Micromanipulation
- Optics

Introduction

P13A piezo stage is specially designed for extremely low temperature and strong magnetic field. It adopts low-temperature piezo drive with light shell and is in XY scanning motion. All components adopt low temperature and strong magnetic compatible version to ensure its performance under low temperature and strong magnetic environment.



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Technical Data >>

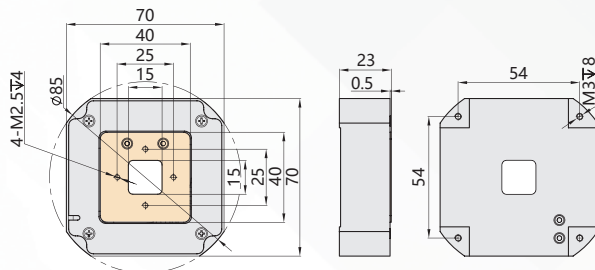
Type	P13A.XY180K		Units
Operating temperature	Room	4K	
Active axes	X Y	X Y	
Travel range	180(0~60V)	80(0~150V)	$\mu\text{m}\pm 20\%$
Open-loop resolution	2	1	nm
Load capacity	200	200	g
El. capacitance	12.1/ axis	1.65/ axis	$\mu\text{F}\pm 20\%$
Mainbody	Stainless steel	Ti	
Wires	Standard wire	Phosphor Bronze Twisted Paired Wire	
Operating environment	-20~80	Temperature to 4K, Max.magnetic field to 30T, Vacuum degree to 2E-11mbar	
Size(L×W×H)	70×70×23	70×70×23	mm
Cable length ^[1]	1.5	1.5	m±10mm
Voltage connector ^[1]	Bare wire	Bare wire	

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 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 >>



E01.D3
LCD, membrane button, up to 625mA
RS-232/RS-422/USB interface
Software secondary development



E70
Small size, 70mA/channel
RS-232/RS-422/USB interface
Software secondary development



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