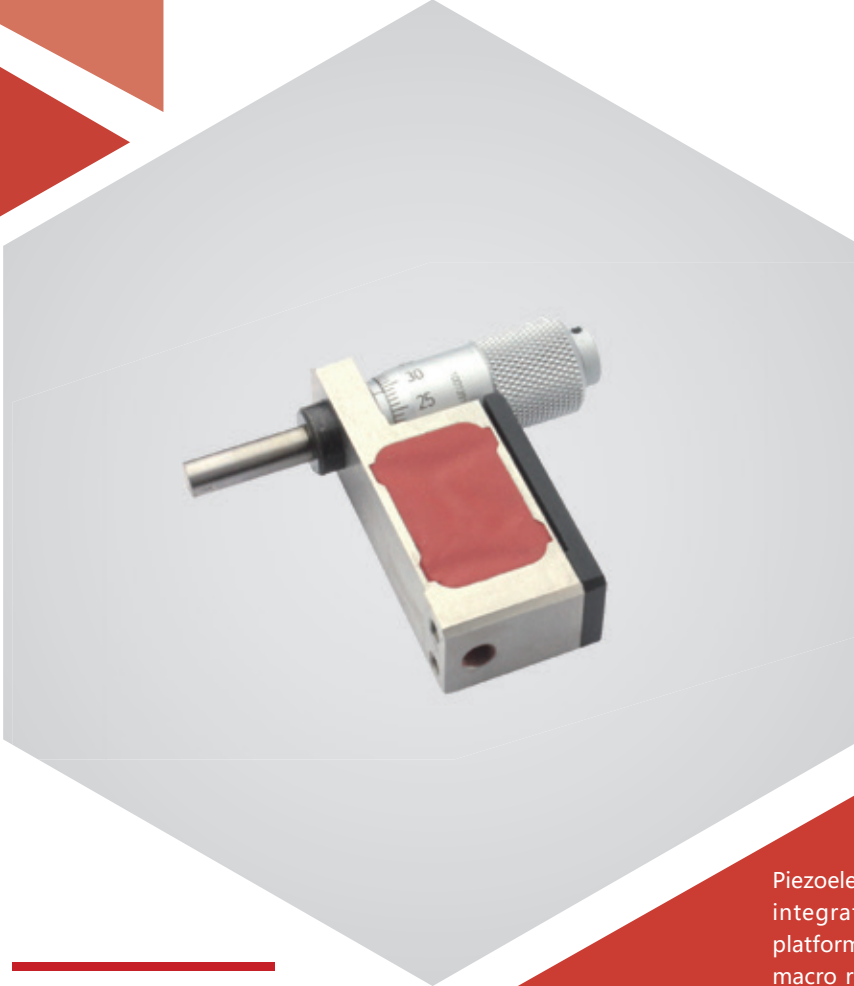


X axis | P84.X250S/K

Piezo Micrometers



Characteristics >>

- Active axes X
- Selectable sensor
- Manual micrometer displacement to 13mm, resolution to 10 μ m
- Piezo displacement up to 25 μ m, 100 μ m or 250 μ m, resolution to 0.5nm

Applications >>

- Optical alignment
- Cell manipulation
- Precision positioning of CCD camera focus lens
- Micromachining/precision control

Introduction

Piezoelectric micrometer is to point to in the micrometer integration on the basis of piezoelectric positioning platform, hand the micrometer can be 13 mm stroke of macro regulation, piezoelectric motion platforms can be carried out 250 microns of nanoscale micro adjustment, and micrometer adjust fine degrees in the piezoelectric adjusting range of motion platforms, so as to ensure the precision of adjustment and convenient.



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Technical Data >>

Type	P84.X250S	P84.X250K	Units	
Active axes	X	X		
Travel range	13+250	13+250	mm+ μ m	
Material	Steel, Aluminum	Steel, Aluminum		
Manual Adjustment - Micrometer				
Travel range	13	13	mm	
Resolution	10	10	μ m	
Driving mode	Screw thread pair			
Sensitivity	<2	<2	μ m	
Least count	10	10	μ m/div	
Screw pitch	0.5	0.5	mm/rev.	
Piezo Adjustment - Piezo				
Travel range	0~120V	200	200	μ m \pm 20%
	0~150V	250		
Sensor	SGS	-		
Resolution	7	2		nm, typ.
Closed-loop linearity	0.1	-		%F.S.
Repeatability	0.05	-		%F.S.
Push force capacity	8	8		N
Stiffness	0.03	0.03		N/ μ m \pm 20%
Unloaded resonant frequency	210	210		Hz \pm 20%
Load (Z axis)	200	200		g
Electrical capacitance	7.2	7.2		μ F \pm 20%
Operating temperature ^[1]	-20~80	-20~80		$^{\circ}$ C
Cable ^[2]	1.5	1.5		m \pm 10mm
Connector ^[2]	LEMO	LEMO		

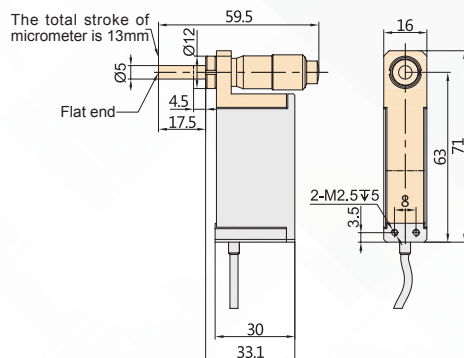
Note: Max driving voltage could be -20V~150V, recommended voltage 0~120V for long-term and high-reliable operation to extend lifetime. Technical data is measured by CoreMorrow E00/E01 series piezo controller.

[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 μ m, and the roughness is about 1.6 to 3.2. Please contact the sales engineer for confirmation before purchase.

Drawing >>



Composition >>

Piezo stage	Micrometer
250 μ m Travel	13mm Travel
	

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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