Piezo Positioner | PP-12

www.micronixusa.com | info@micronixusa.com | phone: +1 (949) 480 0538 | fax: +1 (949) 480 0538

The PP-12 is an ultra-compact linear piezo stage. Low profile and high load capacity are achieved through the use of a multi-phase piezo motor combined with a ball slide, which allows for smooth travel up to 4mm. The PP-12 can be directly X-Y mounted without the use of adapter plates. Vacuum versions are available. The PP-12 is compatible with the MMC-100 and MMC-110 controllers.

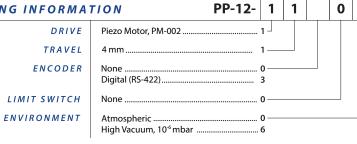
KEY FEATURES

- Travel range of up to 4 mm
- Closed loop encoder resolution of 20 nm
- Load capacity up to 0.1 kg
- Ball slide
- Low profile, 7 mm height
- Vacuum versions available

TECHNICAL DATA

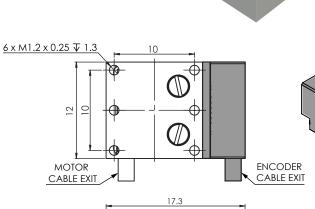
Travel range [mm]	4					
Straightness / Flatness [µm]	±2					
Pitch [µrad]	± 150					
Yaw [µrad]	± 150					
Weight [g], Open Loop	4					
Weight [g], Closed Loop		5				
Motor option	Piezo Motor					
Speed, max [mm/s]	1 (MMC-100), 3 (MMC-110)					
Encoder option	None (open loop)	Digital (RS-422)				
Resolution, typical [nm]	1	20				
Repeatability, bi-directional [nm]	n/a	± 200				
Repeatability, uni-directional [nm]	n/a	200				
Materials	aluminum body, steel bearing (other materials, i.e. stainless steel, titanium, etc. available upon request)					

ORDERING INFORMATION

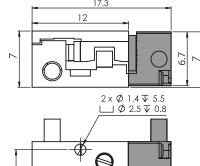


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Load, max	F _X [N]	Fy [N]	F _Z [N]	M _X [N·m]	My[№m]	M _z [N·m]	k _{αx} [µrad/N·m]	k _{αy} [µrad/N·m]
PM-002	1	1	1	0.1	0.1	0.1	-	-



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* all dimensions are in millimeters * grey parts for closed loop version only

