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 0.25 kg
- Ball slide
- Low profile, 7 mm height
- Vacuum versions available

TECHNICAL DATA

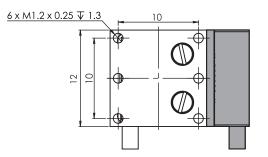
Travel range [mm]	4			
Straightness / Flatness [μm]	± 2			
Pitch [µrad]	± 150			
Yaw [µrad]	± 150			
Weight [g]	13			
Motor option	Piezo Motor			
Speed, max [mm/s]	1 (MMC-100), 3 (MMC-110)			
Encoder option	None (open loop)	Digital (RS-422)		
Resolution, typical [nm]	1	20		
Repeatability, bi-directional [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			

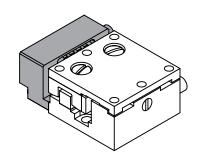
B' M-1 BM 002	
Piezo Motor, PM-002 1	
4 mm 1	
None 0 — 3	
None 0	
Atmospheric	
	None 0 Digital 3 None 0 Atmospheric 0 High Vacuum, 10 ⁻⁶ mbar

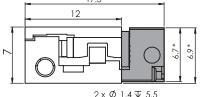
Load, max	F _X [N]	F _y [N]	F _Z [N]	<i>M_X</i> [N·m]	M _y [N·m]	M _Z [N·m]	k _{αχ [µrad/N·m]}	k _{αy} [μrad/N·m]
PM-002	1	1	1.5	0.1	0.1	0.1	-	-

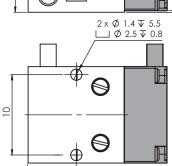












* all dimensions are in millimeters * grey parts for closed loop version only

Specifications are subject to change witho

