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

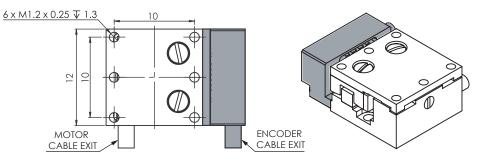
Travel range [mm]	4				
Straightness / Flatness [µm]	±2				
Pitch [µrad]	± 150				
Yaw [µrad]	± 150				
Weight [g], Open Loop	4				
Weight [g], Closed Loop	5				
Motor option	Piezo Motor				
Speed, max [mm/s]	1 (MMC-100), 3 (MMC-110)				
Encoder option	None (open loop)	Digital (RS-422)			
Resolution, 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				

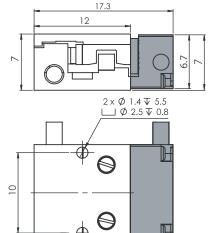
ORDERING INFORMA	TION PP-12-	1	1	0	
DRIVE	Piezo Motor, PM-002	1 -			
TRAVEL	4 mm	1 —			
ENCODER	None Digital (RS-422)	-			
LIMIT SWITCH	None	0 —			
ENVIRONMENT	Atmospheric 10.6 mbar				

Load, max	F _X [N]	F _y [N]	F _Z [N]	M _X [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	0.1	0.1	0.1	-	-









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

