

PSH 25

2-Axis Mirror Tilting Platform



Compact size



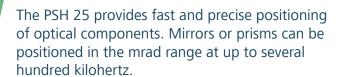
Tilting range ±20 mrad open-loop, ±16 mrad closed-loop



Sub-µrad resolution



Up to 1.4 kHz resonant frequency



This tip-tilt steering mirror platform is characterized by the positioning of optical components in two axes. A tilting range of up to ± 20 mrad (openloop) / ± 16 mrad (closed-loop) is available. Another key feature is the easy exchange of different optical components.

The tilting system PSH 25 can be equipped with an integrated strain gauge positioning sensor. Positions can be controlled very exactly and a previously established tilt range can be set and repeated.

Optics and optical components in various sizes can be mounted on to this tilting system.



Variants:

• With strain gauge (SG)

Recommended Controller:

NV200/D Net

Applications

- Laser scanning
- Optical filters/switches
- Laser beam stabilization Scanning microscopy (SPM)
- Image processing and
- stabilization



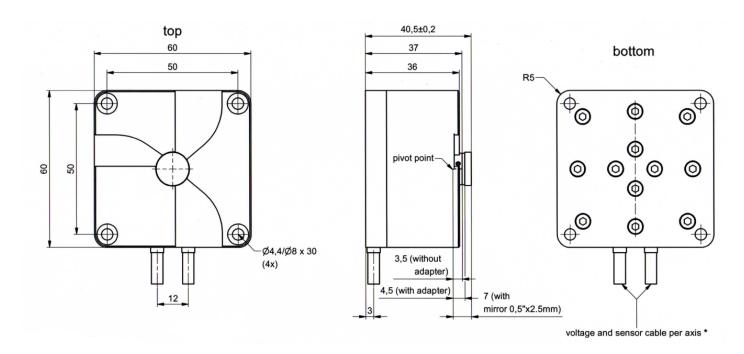
PSH 25Technical Data

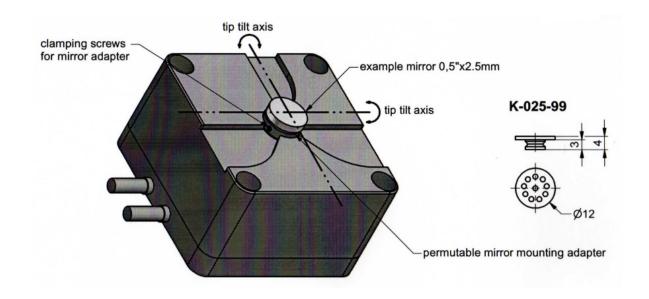
	Unit	PSH25 OEM	PSH25 SG OEM	
Part #	-	K-125-00	K-125-01 (D/E)	
Axes	-	Өх Ө	у Өх Өу	
Tilting range open-loop	mrad	±20	±20	
Tilting range closed-loop	mrad	-	±16	
Resolution open-loop*	μrad		0.2	
Resolution closed-loop*	μrad	-	0.3	
Feedbacksensor	-	-	strain gauge	
Repeatability	µrad/%	-	13/0.05	
Max. non linearity	µrad/%	-	0.4/0.002	
Electrical capacitance	μF		1.64	
Resonant frequency 13 g mm2 (mass moment of inertia, 0.5" mirror)	Hz	1400		
Resonant frequency 80 g mm2 (mass moment of inertia, 1" mirror)	112	500		
Voltage	V	-20 +130		
Temperature range	°C	-20+80	-20+80	
Material	-	aluminum	aluminum	
Dimensions (IxBxH)	mm	60 x 60 x 4	60 x 60 x 40.5 (2.4" x 2.4" x 1.6")	
Mass	g	350 (12.3 oz)		

^{*} Resolution is limited only by the noise of control signal.



PSH 25Part Drawing





Dimensions given in mm.