

PSH 5/2

2-Axis Mirror Tilting Platform



Tilting axes in perpendicular orientation



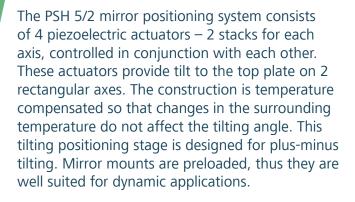
Tilting range ± 2 mrad ± 4 mrad optical



Sub-µrad resolution



3.5 kHz resonant frequency



The high resonant frequency of this mirror positioning system also allows for excellent dynamic operation. An integrated strain gauge measurement system is available for closed-loop applications.



Variants:

- Standard
- With strain gauge (SG)

Recommended Controller:

NV200/D Net

Applications

- Beam steering
- Scanning processes
- Precise adjustment of optical components
- Beam stabilization



PSH 5/2Technical Data

Part # - K-10 Sensor - X	05-00 - Y	K-105-01 strain gauge
	- Y	
Axes - X	Υ	V V
		X Y
Max. tilt per axis in open-loop (±10%) mrad	±2	
Max. tilt per axis in closed- loop (±0.2%)	-	±2
Typ. resolution open-loop* µrad	0.01	
Typ. resolution closed-loop*	-	0.1
Resonant frequency incl. mirror 5g Hz	3600	
Stiffness in z Nm/mrad	0.5	
Capacity per axis (±20%)** μF	1.7	
Voltage V	-20 13	30
Matorial -	ess Steel/ minum	Stainless Steel/ Aluminum
Connector - ODU	J 3pin	LEMO 0S.304
Cable length m	1	1.2
Dimensions (LxWxH) mm 22 x	22 x 29.5	22 x 22 x 35
Mass g	40	85

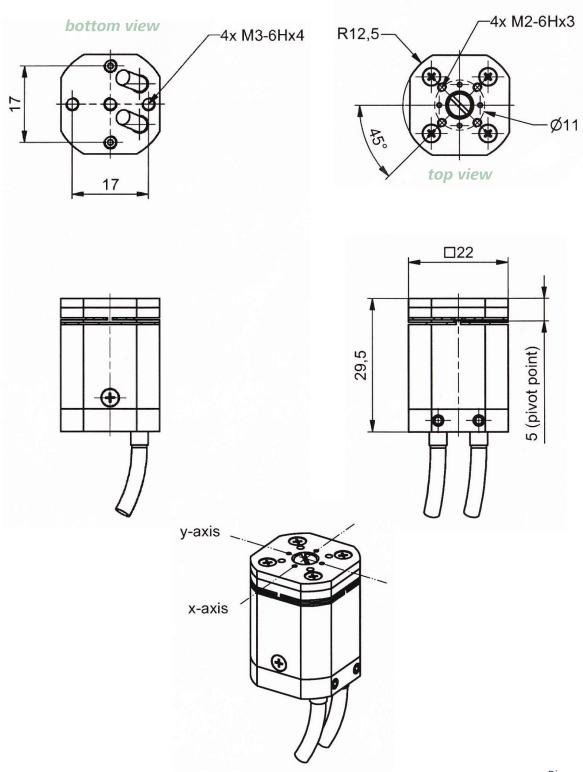
^{*} The resolution is only limited by the noise of the power amplifier and metrology.

^{**} Typical value for small electrical field strength.



PSH 5/2

Part Drawing

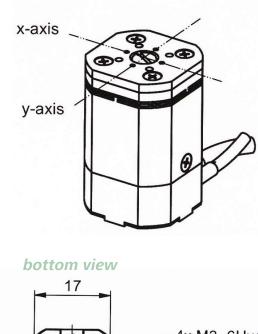


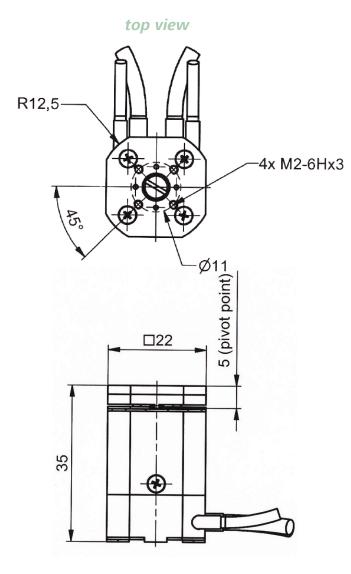
Dimensions given in mm.

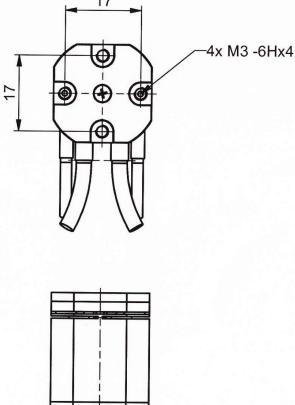


PSH 5/2 SG

Part Drawing







Dimensions given in mm.