

## mirror tilting system

# **PKS 1**

- compact
- orthogonal tilting axes
- high resonant frequency due to high stiffness
- applicable to vacuum conditions
- piezo driven fine adjusting range of 1 mrad
- large manual setting angle of ±2°

#### applications:

- laser technology
- beam alignment
- scanning systems
- · fine adjustment of optical mirrors



#### concept

#### specials

The piezo tilting mirror PKS 1 has been developed for fast and fine mirror can be offset in a range of adjustment. It is applicable to vacuum conditions. The compact design and the high stiffness are a perfect backround for dynamic application.

The piezo driven range of fine adjustment of 1mrad ±2° by using the fine-thread thumb screws.

### mounting instructions

A mirror (Ø12,7x6,35mm) can be mounted easily by using the set screw or can be directly glued.





#### technical data:

		unit	PKS 1
part no.		-	K-700-00
axes		-	х, у
tilting angle, piezo-drive, open loop	х, у	mrad	1
tilting angle, manual	х, у	0	±2
capacitance (±20%) *	х, у	μF	0,8
resolution ** open loop	х, у	µrad	0,002
resonant frequency	х, у	Hz	450/450
stiffness		N/µm	25
dimensions (I x w x h)		mm	48 x 28 x approx. 36
mirror size ***		mm	Ø12,7x6,35
voltage range		V	-20 +130
connector		-	open wire
cable length		m	0,1
min. bend radius of cable		mm	>5
material		-	stainless steel
weight		g	84; without mirror

\*

typical small signal behavior resolution of the system only limited by noise of the system not included \*\*

\*\*\*

#### recommended configurations:

actuator	piezo tilting mirror	K-700-00
amplifier system	NV 40/3	E-101-20
actuator	piezo tilting mirror	K-700-00
amplifier/controller	2x EVD 50	E-720-100
amplifier system	casing for d-Drive	E-751-000

