



**tilting systems
series PSH 35**

150 V

- 35 mrad (2°) tilting angle
- high dynamics due to high resonant frequency
- compact size
- easy to control



The PSH 35 tilting system was developed for the dynamic motion of small mirrors. A new construction principle makes it possible to reach a tilting angle of 35 mrad. The element is operated by a maximum voltage of +150 V. It can be easily integrated into more complex stages because of its compact size. The PSH 35 tilting element can be driven by any of the power supplies from **piezosystem jena**.

applications:

- scanners
- laser alignment
- beam deflection
- handling systems

Please note: Piezoelements can require some current for charging and discharging processes during dynamic motions. The element is normally delivered without a mirror. A mirror can be attached by gluing. We recommend an operating voltage not higher than 100 V for permanent work under OEM conditions.

series PSH		unit	PSH 35	PSH 35 SG
part no.			K-232-00	K-232-01
tilting angle** (± 10%)	open loop	mrad	35 (2°)	35 (2°)
	closed loop	mrad	-	25
integrated measurement system		-	-	strain gauge
operating voltage		V	-20 to +130	-20 to +130
capacitance (± 20%)***		µF	3.8	3.8
weight		g	50	65
resonant frequency		kHz	1.2	1.2
resolution*	open loop	µrad	0.04	0.04
	closed loop	µrad	-	0.4
temperature range		°C	-20 to 80	-20 to 80
dimensions	length L	mm	60	60
	width B	mm	14	20
	height H	mm	27	27
connector	voltage	-	LEMO 0S.302	LEMO 0S.302
	sensor	-	-	LEMO 0S.304
cable length		m	1	1

* measured with E-240-100 amplifier
 ** typical value measured with -20V to 130V
 *** typical value for small electrical field strength

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