



## PX 1500

- compact elements for large motions
- motion up to 1500 µm
- high resonant frequency
- integrated pre-load
- motion without any mechanical play



Due to the development of new lever transmission principles the element PX 1500 is able to produce a maximum displacement of 1.5 mm. Because of its compact dimensions, the PX 1500 is very suitable for OEM applications. The lever transmission principle is based on solid state hinges with integrated pre-load. Therefore, a high dynamic movement without mechanical play is possible.

### options:

- vacuum option

other modifications available on request

### specifications:

operating voltage: -20 to +130 V  
 temperature range: -20 to 80 °C  
 housing:  
     functional parts from stainless steel  
     top and bottom plate aluminum anodized  
 connector: LEMO  
 cable length: 1 m

series PX		unit	PX 500	PX 1500
part no.			S-605-85	S-622-00
motion (±10%)**	x-direction	µm	590	1500
max. load		N	1.5	0.5
max. voltage		V	150	150
capacitance each direction***		NF	3600	7200
resolution**		nm	0.93	2.80
resonant frequency		Hz		
	without additional mass	-	416	180
	with additional mass	m=12g	180	150
stiffness		N/µm	0.06	0.04
dimensions	length L	mm	48	84
	width B	mm	20	38
	height H	mm	8	13
holes for precision pins N		mm	-	Ø2G7
	K	mm	-	12
	J	mm	-	8
holepattern spacing C		mm	-	-
	thread M	mm	-	M2 x 4
weight		g	14	98
connector	voltage	-	LEMO	LEMO

\* measured with E-103-18 amplifier

\*\* typical value measured with -20V to 130V

\*\*\* typical value for small electrical field strength

