

X axis | XP-631.XS/K

Piezo Nanopositioning Stage



Introduction

XP-631.X piezo nanopositioning stage adopts frictionless flexible hinge guiding mechanism and has the characteristics of high rigidity, high resolution and fast response time. XY, XYZ versions could be available through adapter.

Characteristics >>

- Active axes X
- Max stroke to 30µm
- · Load to 5kg
- Fast response time
- Repeatability 0.05%F.S.

Applications >>

- Biotechnology
- · Precision positioning
- Nanometer positioning
- Fiber optic positioning/optical scanning
- Microimaging
- · Micro machining/precision control
- Semiconductor technology
- Interferometry/scanning microscopy





Technical Data >>

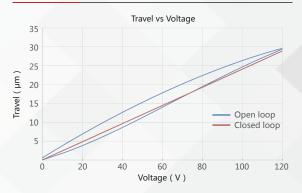
XP-631.XS	XP-631.XK	Units
Χ	Χ	
24	24	μm±10%
30	30	μm±10%
SGS	-	
1	0.2	nm
0.15	-	%F.S.
0.05	-	%F.S.
<25	<25	μrad
480/80	480/80	N
20	20	N/µm±20%
2.4	2.4	kHz±20%
3	1.6	ms±20%
5	5	kg
3.6	3.6	μF±20%
-20~80	-20~80	°C
Aluminum	Aluminum	
78×45×18	78×45×18	mm
250	250	g±5%
1.5	1.5	m±10mm
LEMO	LEMO	
	X 24 30 SGS 1 0.15 0.05 <25 480/80 20 2.4 3 5 3.6 -20~80 Aluminum 78×45×18 250 1.5	X X 24 24 30 30 SGS - 1 0.2 0.15 - 0.05 - <25 <25 480/80 480/80 20 20 2.4 2.4 3 1.6 5 5 3.6 3.6 -20~80 -20~80 Aluminum Aluminum 78×45×18 78×45×18 250 250 1.5 1.5

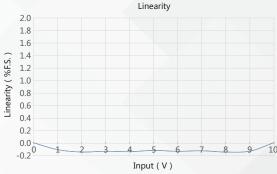
Note: Max driving voltage could be $-20V\sim150V$, $0\sim120V$ is recommended for long-term and high-reliable operation.Unless otherwise specified, the above parameters are measured at room temperature about 25° C.

- [1] Custom ultralow temperature and ultrahigh vacuum versions are available.
- [2] Custom cable length and connector is available.

Note: The parallelism of the moving platform is about $20\mu m$, and the roughness is about 1.6 to 3.2. Please contact the sales engineer for confirmation before purchase.

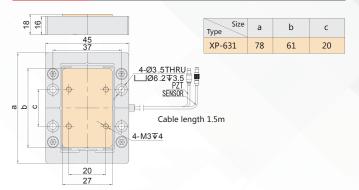
Curves >>





Disclaimer: The data here are typical, only for reference. Some variations will occur for different batch.

Drawing >>



Note: XP-63X.XY/XP-63X.XYZ, drawings, please refer to CoreMorrow website or consult sales engineer.

Recommended Controllers >>



E01.D1 LCD, membrane button, up to 625mA RS-232/RS-422/USB interface Software secondary development



E53 Small size, 60mA RS-232/RS-422/USB interface Software secondary development



Harbin Core Tomorrow Science & Technology Co., Ltd.