COREMORROW
Piezo Nano Motion

Make Your Motion and Control More Accurate!

θxθy axes | XD304.T1S/K-B1

Piezo Fast Steering Mirror

Introduction

XD304-B1 Piezo Fast Steering Mirror is specially designed for small size, micro stroke and high frequency applications. It can perform θx θy two-dimensional precision angular deflection motion. It is an ideal compact fast-reflection mirror, which is very suitable for deflection adjustment of small reflective mirrors.

Characteristics »

- θx, θy deflection
- Optional closed loop sensor
- Small size
- High resonant frequency

Applications »

- Laser scanning
- Beam deflection
- Beam stabilization
- Light filter
- Light path adjustment
- Laser communication
- Beam stabilization
- Fast beam scanning

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Technical Data »

Type	S - closed loop K - open loop	XD304.T1S-B1	XD304.T1K-B1	Units
Active axes		θx, θy	θx, θy	
Driving channels		3	3	
Tilt angle（0~100V)		1 or ±0.5(≈ ±103")	1 or ±0.5(≈ ±103")	mrad±10%
Tilt angle（0~120V)		1.2 or ±0.6(≈ ±123")	1.2 or ±0.6(≈ ±123")	mrad±10%
Sensor		SGS	-	
Resolution		0.03 （< 0.01")	0.01 （< 0.01")	μrad
Linearity		0.2	-	%F.S.
Repeatability		0.1	-	%F.S.
Size		Φ25×22	Φ25×22	mm
Unloaded resonant frequency		15	15	kHz±20%
Resonant frequency with load		11.6(Φ12.7mm×3mm mirror)	11.6(Φ12.7mm×3mm mirror)	kHz±20%
El. capacitance		0.8/axis	0.8/axis	μF/±20%
Operating temperature[1]		-20~80	-20~80	℃
Material		Titanium, steel	Titanium, steel	
Mass (not include cable)		<60	<60	g±5%
Line position		Side	Side	
Cable length[2]		1.5	1.5	m±10mm

Note: Technical data are measured by CoreMorrow E00/E01 series piezo controller. Max driving voltage could be -20V~150V, 0~120V is recommended for long-term and high-reliable operation.Unless otherwise specified, the above parameters are measured at room temperature about 25° C.

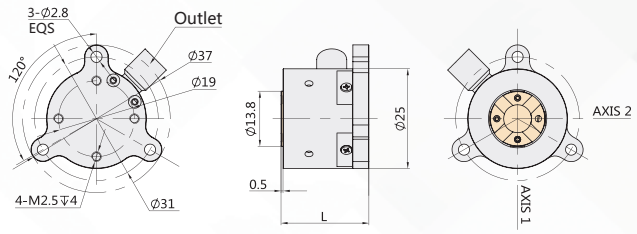
[1] Custom ultralow temperature and ultrahigh vacuum versions are available.

[2] Custom cable length and connector is available.

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

Drawing »

Type	L[mm]
XD304.T1-B1	22
XD304.T2-B1	31



Recommended Controllers »

E01.D3
LCD, membrane button, up to 625mA
RS-232/RS-422/USB interface
Software secondary development

E70
Small size, ave current 70mA/channel
RS-232/RS-422/USB interface
Software secondary development

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