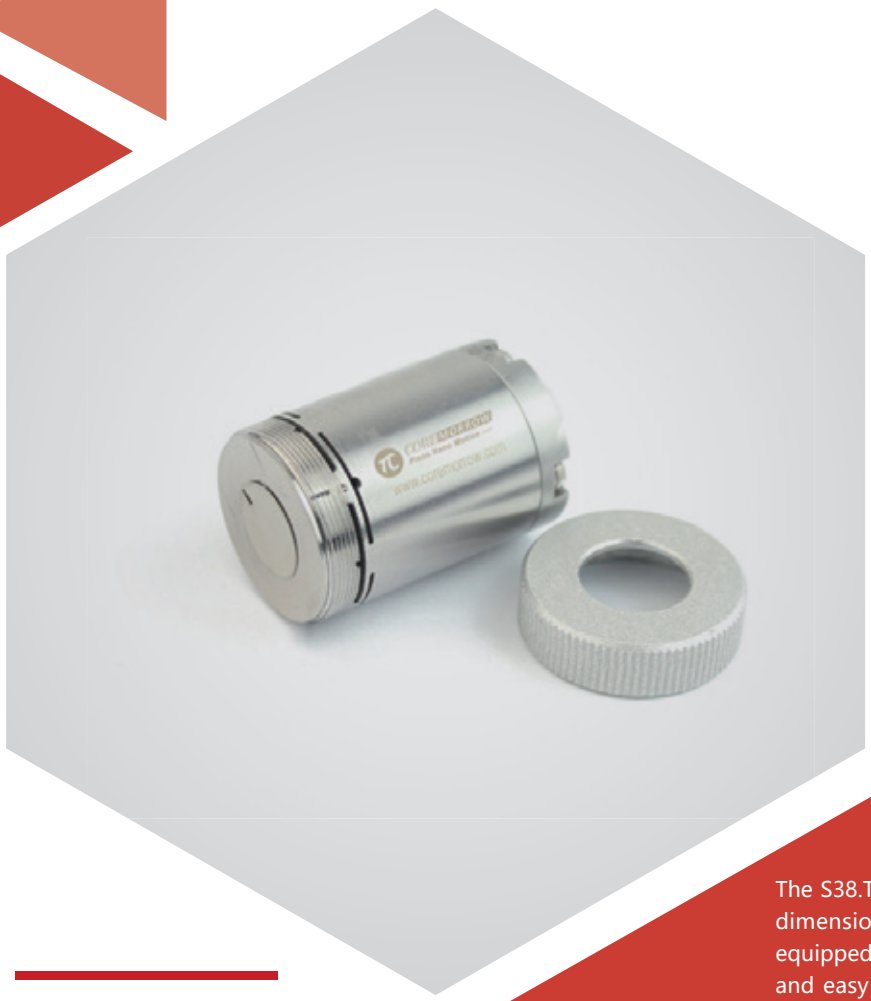
COREMORROW
Piezo Nano Motion

Make Your Motion and Control More Accurate!

θxθy axes | S38.T2S/K-C1

Piezo Tip/Tilt Platform



Introduction

The S38.T2S/K-C1 piezo tip tilt platform is a θx, θy two-dimensional deflection piezo fast steering mirror. It is equipped with a lens mounting cap and is small in size and easy to integrate. It can be integrated into a cage structure with a right-angle adapter.

Characteristics »

- θx, θy tilt
- Tilt angle: 2.4mrad/axis
- Optional closed loop sensor
- Optional right-angle adapter structure

Applications »

- Light path adjustment
- Laser communication
- Light path stabilization
- Laser fast scanning
- Image processing and stabilization
- Error correction for polygonal mirrors
- Optical switch
- Active and adaptive optics

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Technical Data »

Type	S - closed loop K - open loop	S38.T2S-C1	S38.T2K-C1	Units
Active axes		θx, θy	θx, θy	
Driving channels		3	3	
Tilt angle(0~100V)		2 or ±1(≈ ±206")		mrad±10%
Tilt angle(0~120V)		2.4 or ±1.2(≈ ±247")		mrad±10%
Integrated sensor		SGS	-	
Resolution		0.07(≈ 0.01")	0.02(< 0.01")	μrad
Closed-loop linearity		0.4	-	%F.S.
Closed-loop repeatability		0.2	-	%F.S.
Unloaded resonant frequency		2000	2000	Hz±20%
El. capacitance		3.6/axis	3.6/axis	μF±20%
Operating temperature[1]		-20~80	-20~80	℃
Material		Steel, bronze	Steel, bronze	
Platform length L		29	29	mm±0.1
Mass(with no cable)		60	60	g±5%
Cable length[2]		1.5	1.5	m±10mm
Sensor/voltage connector[2]		-	-	

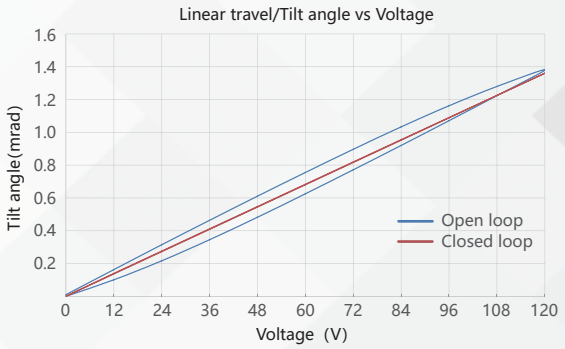
Note: Technical data are measured by CoreMorrow E00/E01 series piezo controller. Max driving voltage could be -20V~150V, 0~120V is recommended for long-term and high-reliable operation.Unless otherwise specified, the above parameters are measured at room temperature about 25° C.

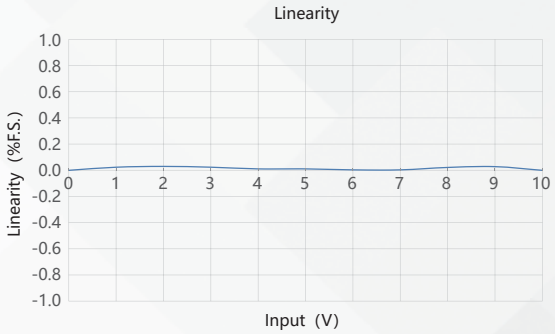
[1] Custom ultralow temperature and ultrahigh vacuum versions are available.

[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.

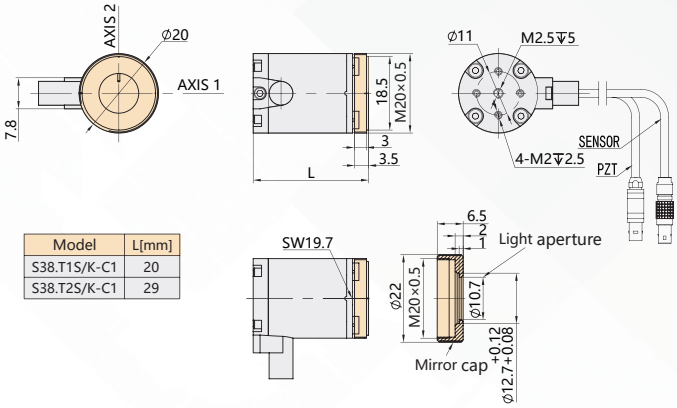
Curves »





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

Drawing »



Model	L[mm]
S38.T1S/K-C1	20
S38.T2S/K-C1	29

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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