

θx, θy axes | S34.T2S/KF Piezo Tip/Tilt Platform



- θx, θy tilt
- Tilt angle: 2.5mrad
- Closed loop resolution to < 0.07µrad
- Optional closed-loop sensor

Applications >>

- Laser scanning Beam deflection
- Image processing and stabilization
- Error correction for polygonal mirrors
- Beam stabilization
- Light filter
- Optical switch
- Active and adaptive optics



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Introduction S34.T2S/KF features a deflection angle of up to 2.5mrad

and can load Φ 110×10mm len (approx. 245g). The response time to 0.2mrad deflection angle is about 2ms, and the operating frequency at a deflection angle of ±0.1mrad can reach 250Hz.



Technical Data >>

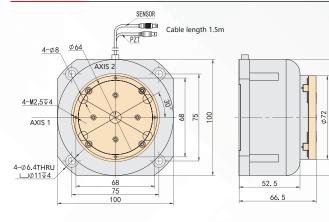
	Туре	S - closed loop K - open loop	S34.T2SF	S34.T2KF	Units
	Active axes		Өх, Өу	Өх, Өу	
	Driving channels		3	3	
	Tilt angle(0~120V)		2	2	mrad±10%,typ.
	Tilt angle(0~150V)		2.5	2.5	mrad±10%,max
	Integrated sensor		SGS	-	
	Resolution		0.07 (≈0.01")	0.02(< 0.01")	µrad
	Closed-loop linearity		0.2	-	%F.S.
	Closed-loop repeatability		0.1	-	%F.S.
	Unloaded resonant frequency		1700	1700	Hz±20%
	Loaded resonant frequency@245g		740	740	Hz±20%
	Close-loop response		2 (0.2mrad anglar travel)		ms±20%
	Operating frequency		250 (±0.1mrad anglar travel)		Hz±20%
	El. capacitance		7.2	7.2	µF/axis±20%
	Closed-loop operating frequency (-3dB)		300 (@245g load)		Hz±20%
	Load Capacity		245 (Φ110×10mm lens)		
	Operating temperature ^[1]		-20~80	-20~80	°C
	Material		Aluminum	Aluminum	
	Mass		2000	2000	g±5%
	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.

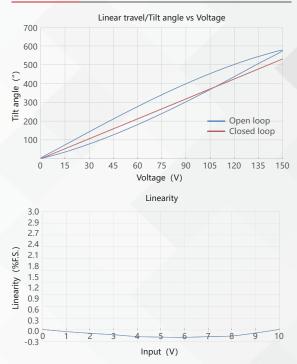
Note: The parallelism of the moving platform is about $20\mu m$, and the roughness is about 1.6 to 3.2. Please contact the sales engineer for confirmation before purchase.

Drawing >>





Curves >>



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

Recommended Controllers >>



Ø100

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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