

X axis | P87 Amplified Piezo Actuators



Introduction

P87 amplified piezo actuator is specially designed for space-limited applications. It is compact, small size, and equipped with closedloop sensors. It is ideal for high-precision, space-limited applications, such as small-volume fiber end-face detectors.

Characteristics >>

- X Elongation
- Small size
- Closed-loop sensor
- Suitable for fiber end detection
- Suitable for interference phase shifting step adjustment

Applications >>

- Probe scanning
- Fiber stretching
- Micro scanning
- Inkjet technology
- Optical mirrors positioning
- Diamond turning
- Laser cavity tuning
- Flow measurement technology



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Technical Data >>

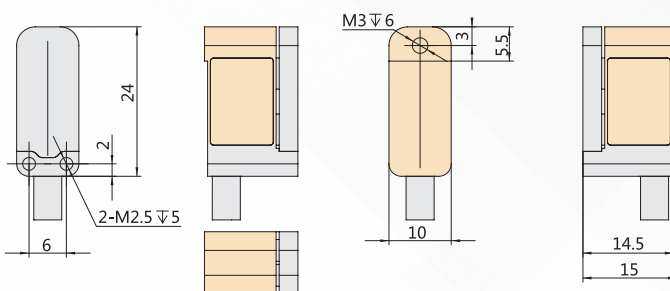
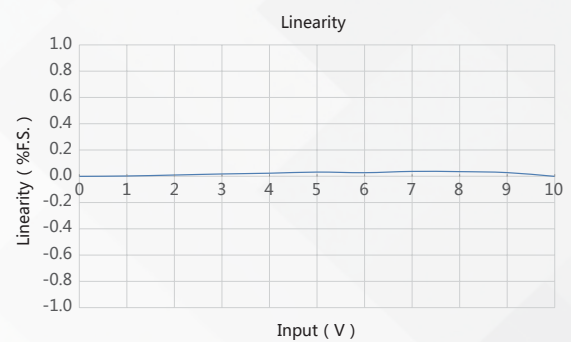
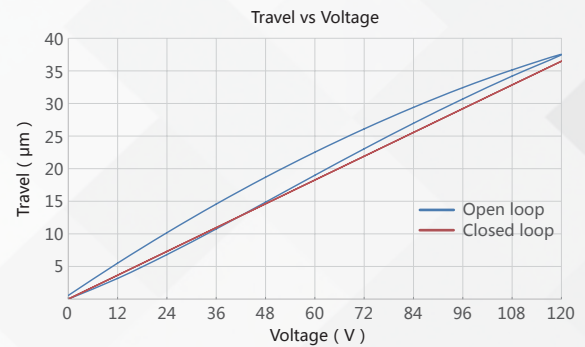
Type	P87.X38S	Units
Active axes	X	
Travel range	38	$\mu\text{m} \pm 20\%$
Closed-loop resolution	1.3	nm(5mV ripple)
Unload resonant frequency	1200	Hz $\pm 20\%$
El. capacitance	0.8	$\mu\text{F} \pm 20\%$
Driving voltage	150	V
Sensor	SGS	
Operating temperature ^[1]	-20~80	$^{\circ}\text{C}$
Cable length ^[2]	0.15	m $\pm 10\text{mm}$
Voltage connector ^[2]	Bare wire	

Note: 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 $^{\circ}\text{C}$.

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

[2] Custom cable length and connector is available.

Note: The parameters mentioned above are related to the test environment and test equipment.

Drawing >>

Curves >>


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

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



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