

1 Channel | E52.B1S-I

Piezo Servo Controller



Introduction

E52 piezo controller is compact, and its control mode is analog control, and easy to operate.

E52 piezo controller has one channel, and outputs -20~120V voltage.

Characteristics >

- 1 channel output
- Analog control
- Output -20~120V or 150V
- High cost-effective

Applications >>

- Driving piezo actuator
- Driving piezo nanopositioning stage
- Driving piezo objective scanner
- Driving piezo shifter
- Driving FTS fast tool positioner
- Driving piezo scanning platform
- Driving capacitive load



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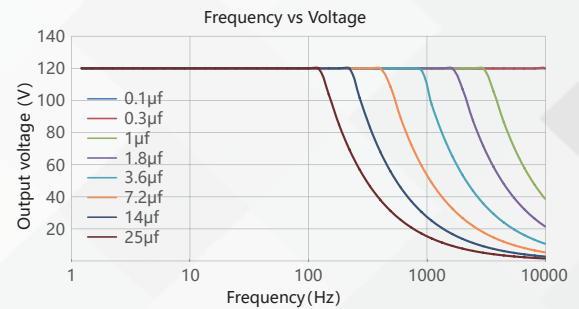
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Technical Data >>

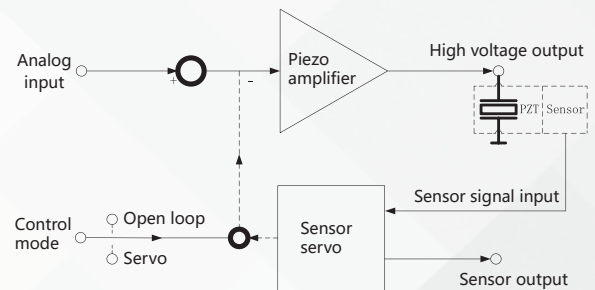
Type	E52.B1S-I
Function	Servo piezo controller
Channels	1
Analog input(V)	-1.67~10
Output voltage(V)	-20~120 (optional -20~150)
Peak current(A)	0.35
Ave. current(A)	0.06
Bandwidth(kHz)	10
Output voltage ripple(mVpp)	5 (@2.2μF)
PZT connector	EPL.00S.250.HLN
Control input connector	SMB
Sensor type	SGS
Servo	Analog P-I+notch filter
Sensor connector	EPL.0S.304.HLN
Sensor Output connector	SMA
Operating temperature(° C)	0~50
Fan on temperature(° C)	40±5
Overtemperature protection(° C)	75±5 (Power supply is cut off)
Overtemperature protection recovery(° C)	60±5
Overcurrent protection	When output ave. current > 0.06A
Static power(W)	4.2
Dimensions(mm)	L193× H60× D137.5
Mass(g)	1420
Power supply	220V AC(198~242)

Curves >>

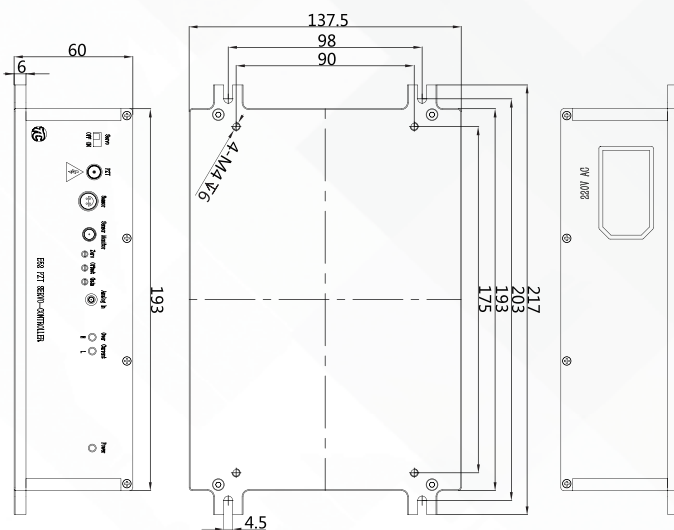


Disclaimer: The data here are typical, only for reference. Some variations will occur for different batch.

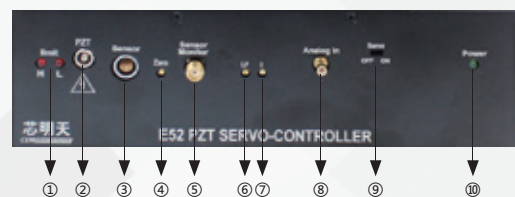
Driving Principle >>



Drawing >>



Appearance and Function >>



No.	Function
①	Overcurrent indicator, lights when the output current exceeds the rated value
②	PZT, Voltage output interface, connecting with PZT
③	Sensor input
④	Potentiometer, sensing zero
⑤	Sensor output, voltage range 0~10V
⑥	Potentiometer, analog input offset
⑦	Potentiometer, analog input gain
⑧	Analog input
⑨	Open loop/servo switch
⑩	Power indicator Green, lights when power's on



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