

3 Channels | E70.D3S

Piezo Controller



Characteristics >>

- 3 channels output
- Analog and digital control
- Small size, high output power
- High bandwidth
- Low ripple, servo control

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

Introduction

This controller is a 3-channel piezoelectric controller with small size, high power, low power consumption, high bandwidth, and low ripple noise. The controller adopts a dedicated operational amplifier circuit to ensure the output capability of high voltage and high current.



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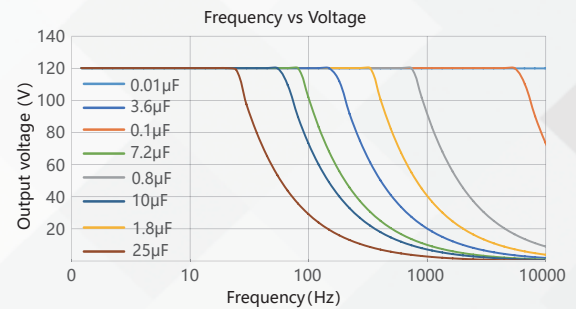
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Technical Data >>

Type	E70.D3S
Functions	Digital and analog piezo controller
Channels	3
Nominal analog input(V)	-1.67~10
Nominal output voltage(V)	-20~120V(Optional -20~100/150V or constant)
Input power(W)	56
Peak current(A)	1.1/channel
Ave. current(mA)	70/channel
Bandwidth(Hz)	10k/channel
Bandwidth, 1/10(Hz)	10k
Bandwidth(-3DB)(Hz)	37k
Bandwidth, 1/10(-3DB)(Hz)	54k
Ripple(mV)	5/channel (2.2μF)
PZT connector	ECG.2B.312.CLV
Control input connector	SMB
Sensor type	SGS
Servo	PI+Low pass+Notch filter
Sensor output connector	EPG.0B.304.HLN
Sensor output ripple(mV)	10
Communication	RS-232/422(D-SUB 9), USB(C-female seat)
Baud rate	9600, 38400, 57600, 115200
Settable baud rate for software secondary development	9600, 19200, 38400, 57600, 76800, 115200, 128000, 230400, 256000
Processor	ARM 32 bit
D/A converter	16 位 ±10V
A/D converter	16 位 ±10V
PC software control function	Output voltage & displacement, waveform control, setting parameters
PC software waveform control	Programmable/standard waveform output
Secondary development	VC++, Matlab, LabView, DLL dynamic link library functions, etc
Operating temperature(° C)	0~50
Over-current protection	Yes
Static power(W)	11
Cooling method	Fan
Size(mm) (L×H×D)	168.5×134×45.5
Mass(kg)	1.2
Power supply	24V DC3A
Power interface	DC-022B (Ø2.5)
Control way	Analog/digital signal

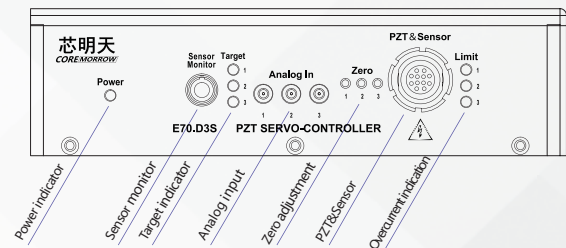
Curves >>



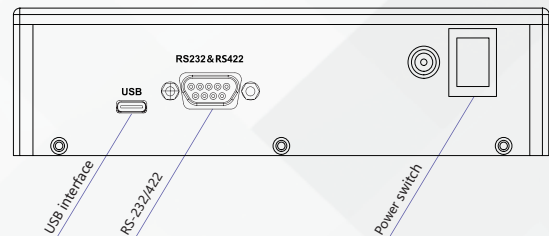
Disclaimer: The data here are typical, only for reference. Some variations will occur for different batch.

Panel Introduction >>

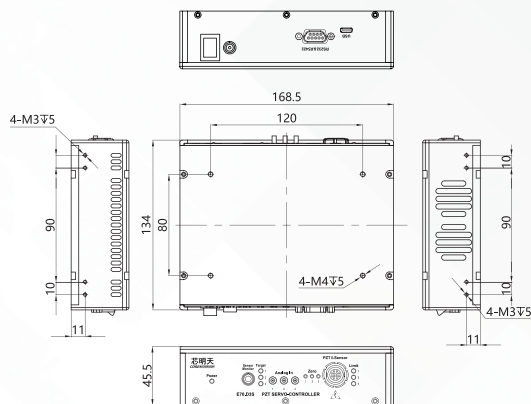
E70.D3S front panel



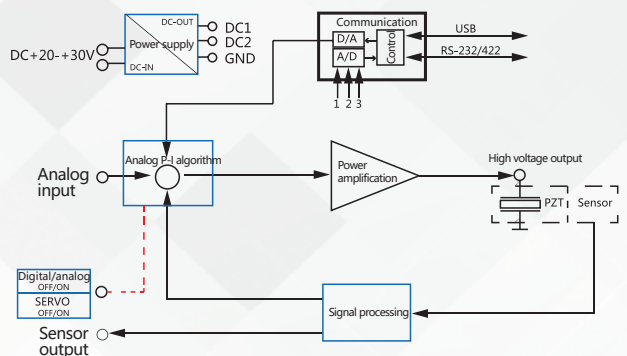
E70.D3S rear panel



Drawing >>



Driving Principle >>



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