

12 Channels | E80.D12S

Piezo Controller



Characteristics >>

- 12 channels
- Easy to integration
- Output voltage -20~120V
- 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

The E80.D12S integrated piezo controller is designed for driving piezo deflection mirrors. It can drive 4 piezoelectric deflection mirrors at the same time, with a bandwidth of up to 5kHz. E80.D12S is digitally controlled by the upper computer with servo control function.



Harbin Core Tomorrow Science & Technology Co., Ltd.

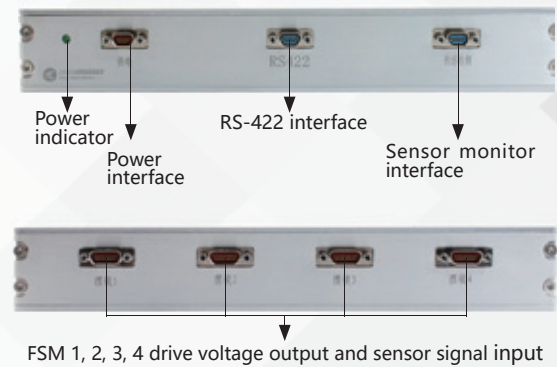
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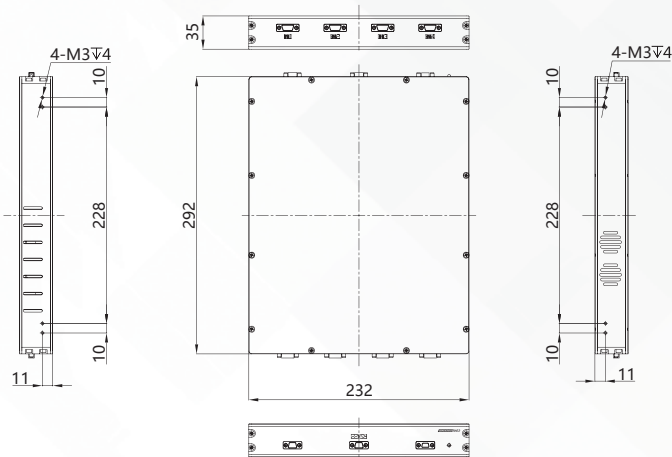
Technical Data >>

Type	E80.D12S
Functions	Digital integrated controller
Channels	12
Nominal output voltage(V)	-20~120(1~4# 3rd channel constant voltage output 120V)
Peak current(mA)	1~3# interface: 85; 4# interface: 1100
Ave.current(mA)	1~3# interface: 7; 4# interface: 74
Static power(W)	12
Bandwidth(Hz)	1~3# interface: 1k/channel; 4# interface: 5k/channel
Ripple(mV)	< 5/ channel (2.2μF)
PZT output & sensor input connector	J30J-15ZKSP
Sensor type	SGS/LVDT
Servo	Analog P-I
Output output connector	J30J-9ZKSP
Ripple(mV)	10
Communication	RS-422 (J30J-9ZKSP)
Processor	ARM 32 bit
D/A converter	16 bit
PC software control function	Output voltage & displacement, waveform control, setting parameters
PC software waveform control	Programmable/standard
Secondary development	VC++ , Matlab, LabView , DLL dynamic link library functions, etc.
Overcurrent protection	Yes
Cooling	Shell(can install a cooling fan inside)
Size(mm) (L×H×D)	292×232×35
Mass(kg)	1.9
Supply voltage	24~30V DC
Power interface	J30J-9ZJSP
Control mode	Digital signal control
Humidity	Max: 80%, 30° C Minimum: 50%, 40° C
Operating temperature(° C)	0~+50
Storage temperature(° C)	-25~+85

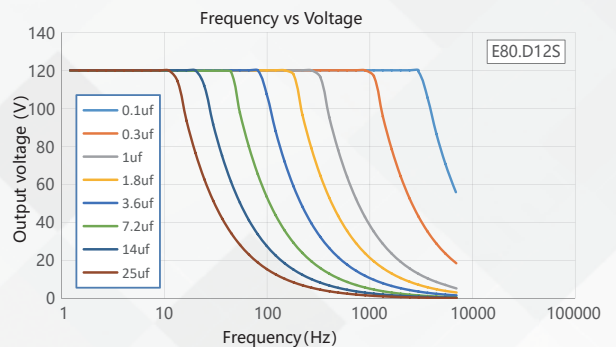
Panel Introduction >>



Drawing >>



Curves >>



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



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