

1 Channel | E53.B1S-K

Piezo Controller



Characteristics >>

- 1 channel
- OEM
- Custom industrial interface
- Servo control
- Suitable for driving capacitive parts, like PZT

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 designed for industrial applications and can be used to drive capacitive loads such as piezo ceramic actuators. The customized interface is more suitable for industrial applications.



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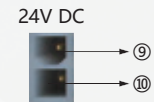
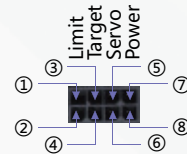
Technical Data >>

Type	E53.B1S-K
Channels	1
Nominal analog input(V)	-1.67~10
Nominal output voltage(V)	-20~120 (optional -20~150)
Peak current(A)	1
Ave. current(mA)	60
Bandwidth(kHz)	10
Ripple(mVpp)	10(@2.2μF)
PZT connector	EPG.0B.306.HLN
Control input connector	SMB
Sensor type	SGS
Servo	Analog P-I + band stop + low pass
Sensor connector	EPL.0S.304.HLN
Sensor output connector	SMA
Operating temperature(° C)	0~50
Output short-circuited current (mA)	60
Overcurrent indication	Lights, when ave.current>60mA
Static power(W)	< 4
Dimensions(mm) (L×H×D)	105×27.5×81.5
Mass(kg)	0.28
Power supply	24V(20~30V)DC1.5A(36W)
Power interface	Molex4.2_1x2
Target indicator	Molex3.0_4x2

Panel Introduction >>



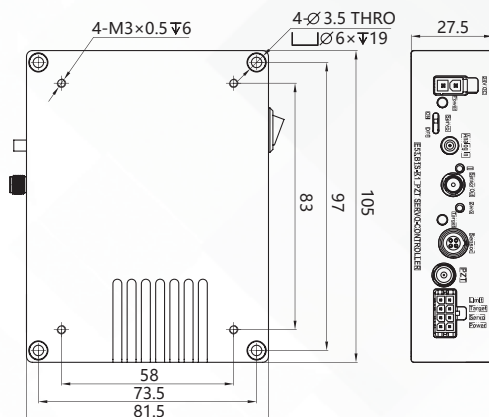
No.	Function	Description
①	Power supply	24V DC
②	Power light	Always on after power on
③	Servo	Servo switch
④	Analog input	Analog voltage input
⑤	Integral	Servo deviation integral adjustment
⑥	Sensor monitor	Monitor output signal returned by sensor
⑦	Zero adjustment	Adjust the zero point of the sensor
⑧	Target indication	Lights when the displacement deviates
⑨	Sensor connector	Sensor signal input
⑩	Drive connection	Voltage output interface
⑪	Status indicator interface	Over-current, target, servo-control, power



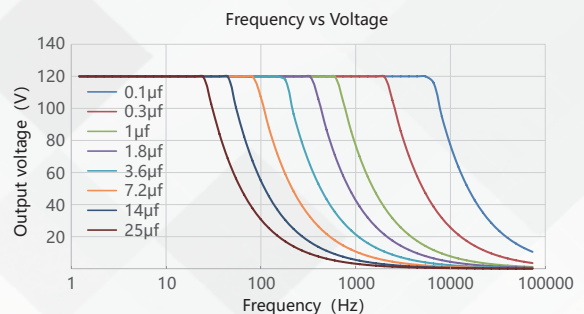
Symbol	Function	No.	Description
Limit	Overcurrent indicator	①	output+
	ON: 5V/OFF: 0V	②	output-
Target	Target indicator	③	output+
	ON: 5V/OFF: 0V	④	output-
Servo	Non-servo/servo indicator	⑤	output+
	ON: 5V/OFF: 0V	⑥	output-
Power	Power indicator	⑦	output+
	ON: 24V/OFF: 0V	⑧	output-

No.	Function	Description
⑨	Power supply -	24V DC, -
⑩	Power supply +	24V DC, +

Drawing >>



Curves >>



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



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