

COREMORROW E53.D1E-J/E53.C1K-J Piezo Motor Controller **User Manual**

Home » COREMORROW » COREMORROW E53.D1E-J/E53.C1K-J Piezo Motor Controller User Manual

Contents

- 1 COREMORROW E53.D1E-J/E53.C1K-J Piezo Motor
- Controller
- 2 Introduction
- 3 Applicaitons
- **4 Driving Principle**
- **5 Interface**
- 6 Documents / Resources
 - **6.1 References**
- 7 Related Posts



COREMORROW E53.D1E-J/E53.C1K-J Piezo Motor Controller





This document describes the following products:

- E53.D1E-J Servo control
- E53.C1K-J Open loop

DECLARATION

This user manual is an integrated user manual of the E53.C4K series piezo motor controller. Please read this user manual carefully before using this controller. Follow the instructions in the manual during use. If there is any problem, please contact us for technical support. If you do not follow this manual or disassemble and modify the product yourself, the company will not be liable for any consequences arising therefrom. Please read the following to avoid personal injury and to prevent damage to this product or any other product connected to it. In order to avoid possible hazards, this product can only be used within the specified range.

Notice!

- Do not touch any exposed ends of the product and its accessories.
- There is high voltage inside. Do not open the case without permission.
- Do not connect or disconnect input, output, or sensor cables with power on.
- Please keep the surface clean and dry, and don't operate in a humid or static environment.
- After use, the output voltage should be cleared to zero before turning off the controller switch, such as switching the servo state to the open-loop state.

Danger!

- The piezo motor controller described in this manual is a high-voltage device capable of outputting high currents, which can cause serious or even fatal damage if not used properly.
- It is strongly recommended that you do not touch any parts that connect to the high voltage output. Special Note: If you connect it with other products in addition to our company, please follow the general accident prevention procedures.
- Operating the high-voltage amplification requires training professional operators.

Warning!

If the voltage exceeds the PZT's tolerable range, it will cause permanent damage to the PZT. Before adding voltage to the PZT poles, it must be ensured that the positive and negative poles of the PZT are connected correctly and the operating voltage is within the allowable range of this PZT.

Cautious!

E53 housing should be installed on a horizontal surface in an area with a 3CM air flow area to prevent internal convection in the vertical direction.

Insufficient airflow can cause equipment to overheat or premature instrument damage.

Introduction

Features

- 1 channel small size
- 24V 20~30V power supply
- Peak current 1A
- Ave current 60mA
- Unload bandwidth 10KHz
- · Output short circuit protection

Applicaitons

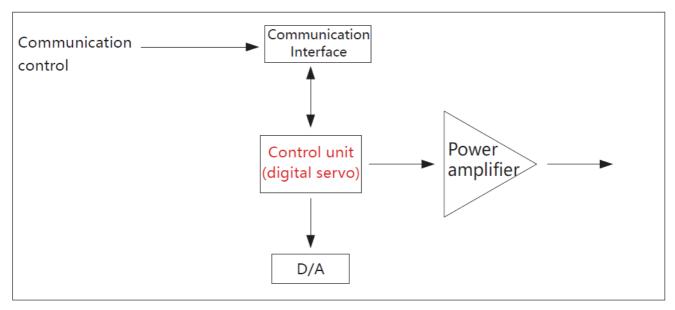
· Driving piezo motor

Order information

- E53.D1E-J1 Servo, Software control
- E53.C1K-J1--- Open loop, software control

Accept customized according to requirements

Driving Principle



Interface

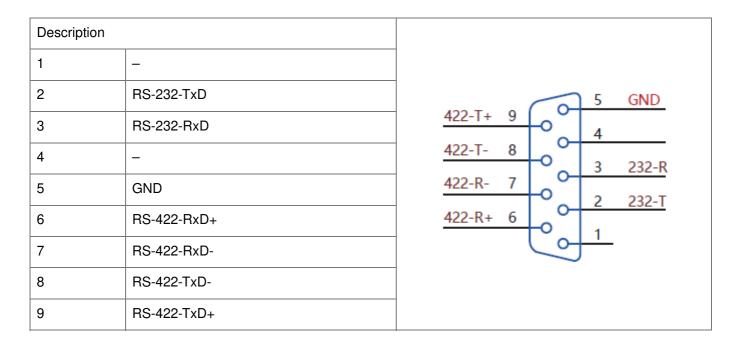
E53.D1E-J&E53.C1K-J



NO	Function	Description
1	Power indicator	Green, lights when power's on
2	USB port	MicroUSB port
3	RS23/422	Connect the computer with controller to contrl by software
4	Connector	Piezo motor connector
5	Power switch	Control the power on and off
6	24VDC	Power supply

Interface definition

RS232/422



Piezo motor interface definition

NO		Description			
	8	Differential input signal A-		$\overline{}$	8 A-
15		Differential input signal A+		$\left(\begin{array}{c} \circ \\ \circ \end{array} \right)$	15 A+
	7	Differential input signal B+		0	7 B+
14		Differential input signal B-		0	14 B-
	6	Differential input signal E-(LVDS)		0	6 E-(LVDS) 13 CAL
13		CAL signal			5 Z+
	5	Differential input signal Z+	-	0	12 B-
12		Differential input signal Z-		0	4 5V 11 GND
	4	5V	16	0	3
11		5V_GND	17	0	10 GND 2
10		GND	.,		9
	1	DriveOut		J5	1 DriveOut

Notes and suggestions

- E53 cannot be used to drive inductive loads. If the inductive loads are driven, the product may be damaged.
- If there is no need, please do not twist the potentiometer easily.

Contact us

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WeChat are below:





Documents / Resources



COREMORROW E53.D1E-J/E53.C1K-J Piezo Motor Controller [pdf] User Manual E53.D1E-J E53.C1K-J Piezo Motor Controller, E53.D1E-J, E53.C1K-J, E53.D1E-J Piezo Motor Controller, E53.C1K-J Piezo Motor Controller, Piezo Motor Controller, Piezo Controller, Motor Controller, Controller, E53.D1E-J Controller, E53.C1K-J Controller

References

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