

# 1 Channel | E53.B1S-M

## Piezo Controller



### Characteristics >>

- Custom industrial interface
- Servo control
- Analog input, 1 channel output
- 24VDC/1A power supply
- Suitable for driving capacitive loads, 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. It uses a customdesigned industrial interface and is suitable for driving various capacitive loads, such as PZT piezoelectric actuator. It can be used in various industrial applications, such as optical detection and interference shifting.



**Harbin Core Tomorrow Science & Technology Co., Ltd.**

Tel: +86-451-86268790

Email: [info@coremorrow.com](mailto:info@coremorrow.com)

Headquarters: Building I2, No.191 Xuefu Road, Nangang District, Harbin

Fax: +86-451-86267847

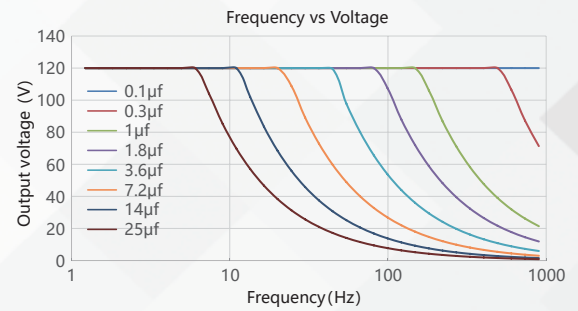
Web: [www.coremorrow.com](http://www.coremorrow.com)

Shanghai Office: Building 2, No.608 Shengxia Road, Pudong District, Shanghai

## Technical Data >>

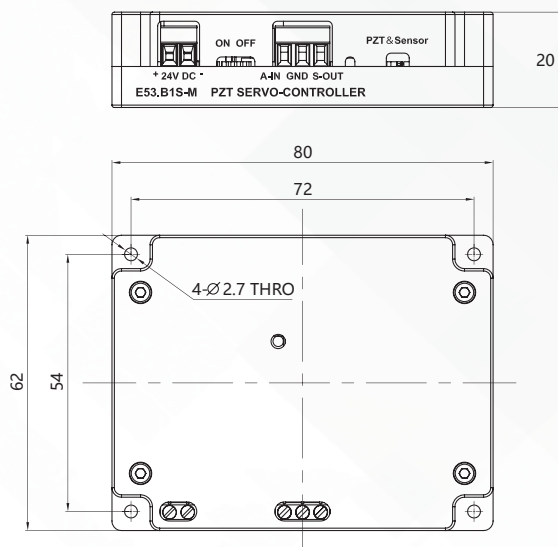
| Type                                | E53.B1S-M   |
|-------------------------------------|-------------|
| Power supply(V)                     | 24VDC/1A    |
| Static power(W)                     | <4          |
| Sensor type                         | SGS         |
| Servo                               | Analog P-I  |
| Nominal analog input(V)             | -1.67~10    |
| Output voltage(V)                   | -20~120     |
| Peak current(mA)                    | 125         |
| Ave. current(mA)                    | 21          |
| Bandwidth(kHz)                      | 1           |
| Ripple(mVpp)                        | 10 (@2.2μF) |
| Rated output power(W)               | 2.5         |
| Operating temperature(° C)          | 0~50        |
| Output short-circuited current (mA) | 21          |
| Overcurrent indication              | No          |
| Control input connector             | Bare wire   |
| Sensor output connector             | KF128-3P    |
| PZT connector                       | Bare wire   |
| Sensor connector                    | Bare wire   |
| Power connector                     | KF128-2P    |
| Size(mm <sup>3</sup> ) (L×H×D)      | 80×62×20    |
| Mass(g)                             | 105         |

## Curves >>

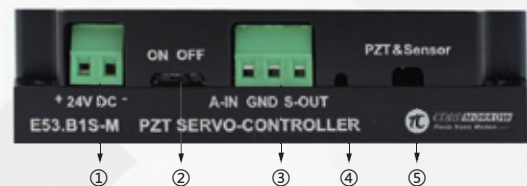


Disclaimer: The data here are typical, only for reference. Some variations will occur for different batch.

## Drawing >>



## Panel Introduction >>



| No. | Functions           | Description                                                                |
|-----|---------------------|----------------------------------------------------------------------------|
| ①   | Power supply        | 24V power supply interface.                                                |
| ②   | Servo               | Servo Switch.<br>ON: servo; OFF: non-servo                                 |
| ③   | Signal monitor port | A-IN: analog input signal;<br>GND: ground;<br>S-OUT: sensor monitor signal |
| ④   | Analog input        | Analog control signal input port                                           |
| ⑤   | PZT&Sensor          | Voltage output port and sensor signal input port                           |



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