

Piezo Motor Servo Controller



Features

- Multi-channel servo control for PMNL piezo motor
- Modular design, flexible options of drive channels
- Support incremental/absolute linear scale
- Digital communication control

Description

Digital multi-channel piezo motor servo controller

Channels from 2 to 4 are available as request, supporting high-performance closed-loop servo control for PMNL series piezo motors of YINGUAN Company, and provide multiple motor control modes, including full-step mode, analog drive mode, closed-loop control mode.

High precise sensor interface

The controller provides high precise linear scale signal input interface, supports incremental ABZ type and absolute Biss-C type.

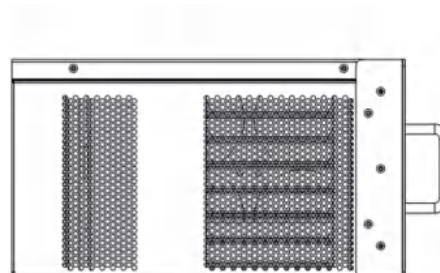
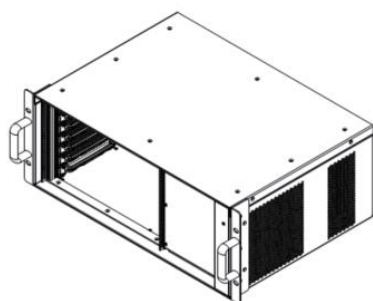
Digital communication control

The controller provides RS-485 communication interface, supports Modbus RTU protocol, and the efficient and multi-function command set can meet the high-performance motion control of piezo motors and real-time monitoring of the driver status.

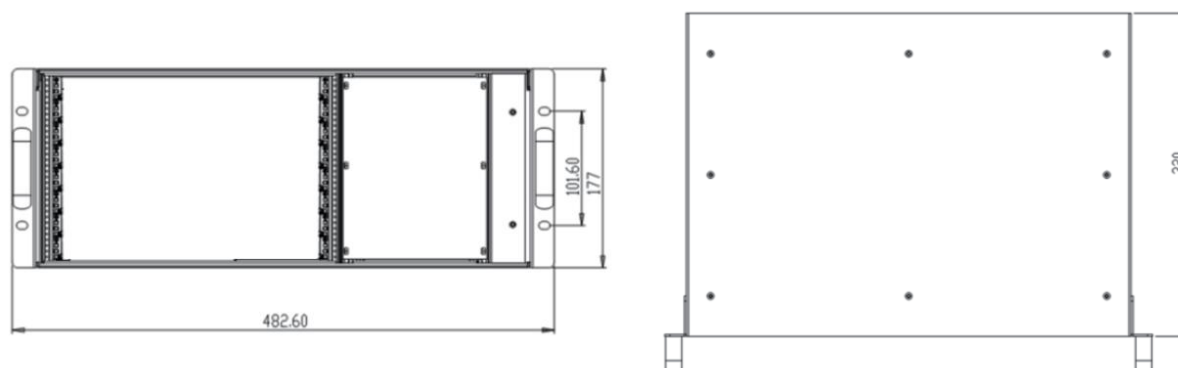
Applications

- Lens precision adjustment
- Precision electron microscope adjustment
- Precision semiconductor equipment
- Precision medical testing equipment

Interface Definition



Interface Definition(Continued from previous page)



Applicable model: B-542.3B, B-542.3C, B-543.3B, B-543.3C, B-544.3B, B-544.3C Unit: mm

Technical Specifications

Basics	B-54x.3B	B-54x.3C	Unit
Function	multi-channel piezo motor servo controller, linear scale closed loop		
Motor channels	2~4		
Output voltage	-250~ +250		V
Peak power / channel	45		W
Average output power / channel	15		W
Peak current / channel	180		mA
Average output current / channel	60		mA
Interfaces and operations			
Communication interface	RS-485 / Modbus RTU		
Motor interface	HD-15 (Female)		
Sensor interface	DB-15 (Female)		
Sensor type	Incremental (ABZ)	Absolute (BiSS C)	
Command set	Modbus command set		
Support function	point-to-point motion		
Miscellaneous			
Operating voltage	AC 220		V
Maximum power consumption	280		W
Operating temperature range	5~50		°C
Dimensions	482.6 × 88.1 × 295.5		mm×mm×mm
Net weight	12		Kg

Customization Information

B-54x series piezo motor servo controller

Type	Feature
B-542.3B	2-channel PMNL piezo motor servo controller, 4U chassis, incremental linear scale closed loop, RS-485
B-542.3C	2-channel PMNL piezo motor servo controller, 4U chassis, absolute linear scale closed loop, RS-485
B-543.3B	3-channel PMNL piezo motor servo controller, 4U chassis, incremental linear scale closed loop, RS-485
B-543.3C	3-channel PMNL piezo motor servo controller, 4U chassis, absolute linear scale closed loop, RS-485
B-544.3B	4-channel PMNL piezo motor servo controller, 4U chassis, incremental linear scale closed loop, RS-485
B-544.3C	4-channel PMNL piezo motor servo controller, 4U chassis, absolute linear scale closed loop, RS-485