Piezo Motor Servo Controller

Features

- Multi-channel piezo motor servo control
- Modular design, flexible option of different channels
- Support incremental linear scale
- Host digital communication control

Description

Multi-channel inertial motor servo driver

Channels from 1 to 3 are available as request, supporting servo control of YiNGUAN PMIN series piezo stick-slip inertial motors, including open-loop stepping motion mode, open-loop analog drive mode, closed-loop motion mode.

High-precision sensor interface

Providing high-precision linear scale signal interface with incremental ABZ type.

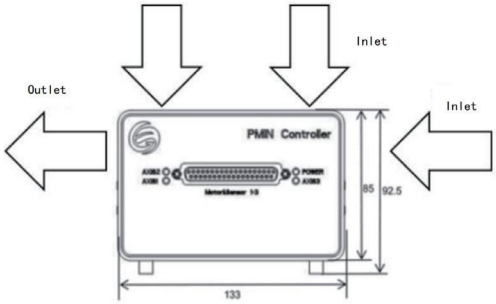
Digital communication control

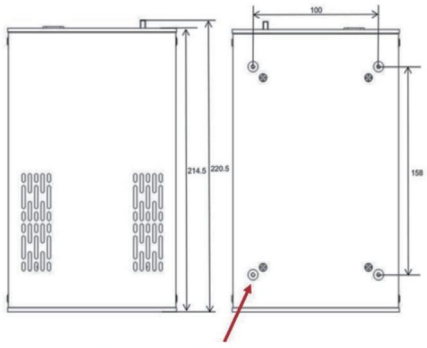
Providing RS-485 communication interface, with Modbus RTU protocol. The efficient and multi-function command set can meet the high-performance motion control of piezo motors and real-time monitoring of the driver status.

Applications

- Semiconductor testing equipment
- Lens precision adjustment
- Electron microscope sample stage adjustment
- Precision medical testing equipment

Interface Definition





Applicable model: C-901.3B, C-902.3B, C-903.3B

Unit: mm

Technical Specifications

Basics	C-90x.3B	Unit
Function	1~3 channel PMIN piezo motor servo controller, incremental linear scale closed loop	
Output voltage	0~70	V
Max. output current	0.5A /channel	
Interfaces and operations		
Communication interface	RS-485	
Motor/Sensor connector	DB37 (Female)	
Sensor type	incremental linear scale, ABZ type(Motor interface RS-422)	
Communication protocol	Modbus RTU	
User software	PMIN Soft Panel	
Support function	point-to-point motion	
Miscellaneous		
Operating voltage	24VDC	
Max.power	50	W
Operating temperature range	5~50	°C
Dimensions	133 × 221 × 85	mm×mm×mm

Customization Information

C-90x series piezo motor servo controller

Type	Feature
C-901.3B	1-channel PMIN piezo motor servo controller, closed loop, RS-485
C-902.3B	2-channel PMIN piezo motor servo controller, closed loop, RS-485
C-903.3B	3-channel PMIN piezo motor servo controller, closed loop, RS-485