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› Lanlily 2198-H025-ERS2 5500 20 Amp Servo Drive Instruction Manual

## Lanlily 2198-H025-ERS2

# Instruction Manual

## 2198-H025-ERS2 5500 20 AMP SERVO DRIVE

Brand: Lanlily

### 1. INTRODUCTION

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This manual provides essential information for the safe and efficient installation, operation, and maintenance of the Lanlily 2198-H025-ERS2 5500 20 Amp Servo Drive. Please read this manual thoroughly before attempting to install or operate the device. Retain this manual for future reference.

### 2. SAFETY INFORMATION

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**WARNING:** Electrical shock hazard. This device operates with high voltages and currents. Improper installation or operation can result in serious injury or death. Only qualified personnel should perform installation, wiring, and maintenance procedures.

- Always disconnect all power sources before working on the servo drive or connected equipment.
- Ensure proper grounding of the device and associated components.
- Adhere to all local and national electrical codes and safety regulations.
- Do not operate the device with damaged wiring or components.
- Protect the device from moisture, dust, and extreme temperatures.

### 3. PRODUCT OVERVIEW

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The Lanlily 2198-H025-ERS2 is a 5500 series 20 Amp Servo Drive designed for precise motion control applications in industrial automation. It provides robust performance and reliable operation for various servo motor systems.

#### 3.1. What's in the Box

- 1 x Lanlily 2198-H025-ERS2 Servo Drive

The servo drive is typically shipped in a protective cardboard box.



Figure 3.1: Typical packaging for the Lanlily 2198-H025-ERS2 Servo Drive. The drive is securely packed within this box for transport.

### 3.2. Drive Components

The 2198-H025-ERS2 Servo Drive features various ports and indicators for power, motor connection, feedback, and communication. Familiarize yourself with the layout before installation.



Figure 3.2: Front view of the Lanlily 2198-H025-ERS2 Servo Drive, showing the display, control buttons, and various connection ports.

## 4. SETUP

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### 4.1. Pre-Installation Checks

- Verify that the servo drive model matches the system requirements.
- Ensure the installation environment is clean, dry, and within specified temperature and humidity ranges.
- Confirm that all necessary tools and wiring materials are available.

### 4.2. Mounting

Mount the servo drive vertically on a suitable panel or enclosure, ensuring adequate clearance for ventilation and

cable routing. Use appropriate mounting hardware to secure the drive firmly.

### 4.3. Wiring Connections

Connect the servo drive according to the system's electrical schematics. Key connections include:

- **Power Input:** Connect the main power supply to the designated terminals. Ensure correct voltage and phase.
- **Motor Output:** Connect the servo motor power cables to the motor output terminals.
- **Feedback:** Connect the motor's feedback device (e.g., encoder) to the feedback input port.
- **Control I/O:** Connect control signals (e.g., enable, fault, command signals) to the appropriate input/output terminals.
- **Grounding:** Ensure all grounding connections are properly made to prevent electrical noise and ensure safety.

## 5. OPERATING

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### 5.1. Powering On

After all connections are verified, apply power to the servo drive. Observe the status indicators for normal operation. Refer to the drive's specific programming manual for initial configuration and parameter settings.

### 5.2. Basic Operation

The servo drive controls the motor based on commands received from a host controller (e.g., PLC, motion controller). Ensure the controller is properly configured to send appropriate motion profiles and commands to the drive.

## 6. MAINTENANCE

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### 6.1. Routine Inspection

Periodically inspect the servo drive and its connections for:

- Loose wiring or connections.
- Accumulation of dust or debris.
- Signs of overheating or discoloration.
- Damage to the enclosure or components.

### 6.2. Cleaning

If necessary, clean the exterior of the drive with a soft, dry cloth. Do not use liquid cleaners or solvents. Ensure ventilation openings are clear of obstructions.

## 7. TROUBLESHOOTING

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If the servo drive is not functioning as expected, consider the following basic troubleshooting steps:

- **No Power:** Check the main power supply, circuit breakers, and all power connections.
- **Motor Not Responding:** Verify motor wiring, feedback connections, and control signals from the host controller. Check for any fault codes displayed on the drive.
- **Fault Indication:** Refer to the drive's specific programming manual for a list of fault codes and their corresponding remedies.

If issues persist after basic troubleshooting, contact technical support.

## 8. SPECIFICATIONS

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Attribute	Value
Model Number	2198-H025-ERS2
Type	5500 20 Amp Servo Drive
Manufacturer	Lanlily

## 9. WARRANTY AND SUPPORT

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### 9.1. Warranty

The Lanlily 2198-H025-ERS2 Servo Drive comes with a **one-year warranty** from the date of purchase, covering defects in materials and workmanship under normal use. This warranty does not cover damage caused by improper installation, misuse, unauthorized modification, or external factors.

### 9.2. Technical Support

For technical assistance, troubleshooting guidance beyond this manual, or warranty claims, please contact Lanlily customer support through their official channels. Provide your product model number and a detailed description of the issue when seeking support.