

## OONO F-1022 Series

# OONO DPST 1NO 1NC 8Amp Power Relay Module User Manual

Model: F-1022 Series (AC/DC 5V)

Brand: OONO

## 1. INTRODUCTION

This manual provides detailed instructions for the safe and effective use of the OONO DPST 1NO 1NC 8Amp Power Relay Module, Model F-1022 Series (AC/DC 5V). This module is designed to provide a reliable switching solution for various electrical applications, converting an input control signal into a double-pole, single-throw (DPST) output switch with both Normally Open (NO) and Normally Closed (NC) contacts.

## 2. SAFETY INFORMATION

### **WARNING: Electrical Shock Hazard**

- Always disconnect power before installing, wiring, or performing any maintenance on the relay module.
- Ensure all wiring is performed by a qualified electrician and complies with local and national electrical codes.
- Do not exceed the specified voltage and current ratings of the module.
- Avoid exposing the module to moisture, extreme temperatures, or corrosive environments.
- Verify correct polarity for DC connections.

## 3. PRODUCT OVERVIEW

The OONO F-1022 Series relay module features a compact design with pre-wired connections for ease of installation. It includes an LED indicator for relay status and provides both Normally Open (NO) and Normally Closed (NC) contacts for versatile applications.

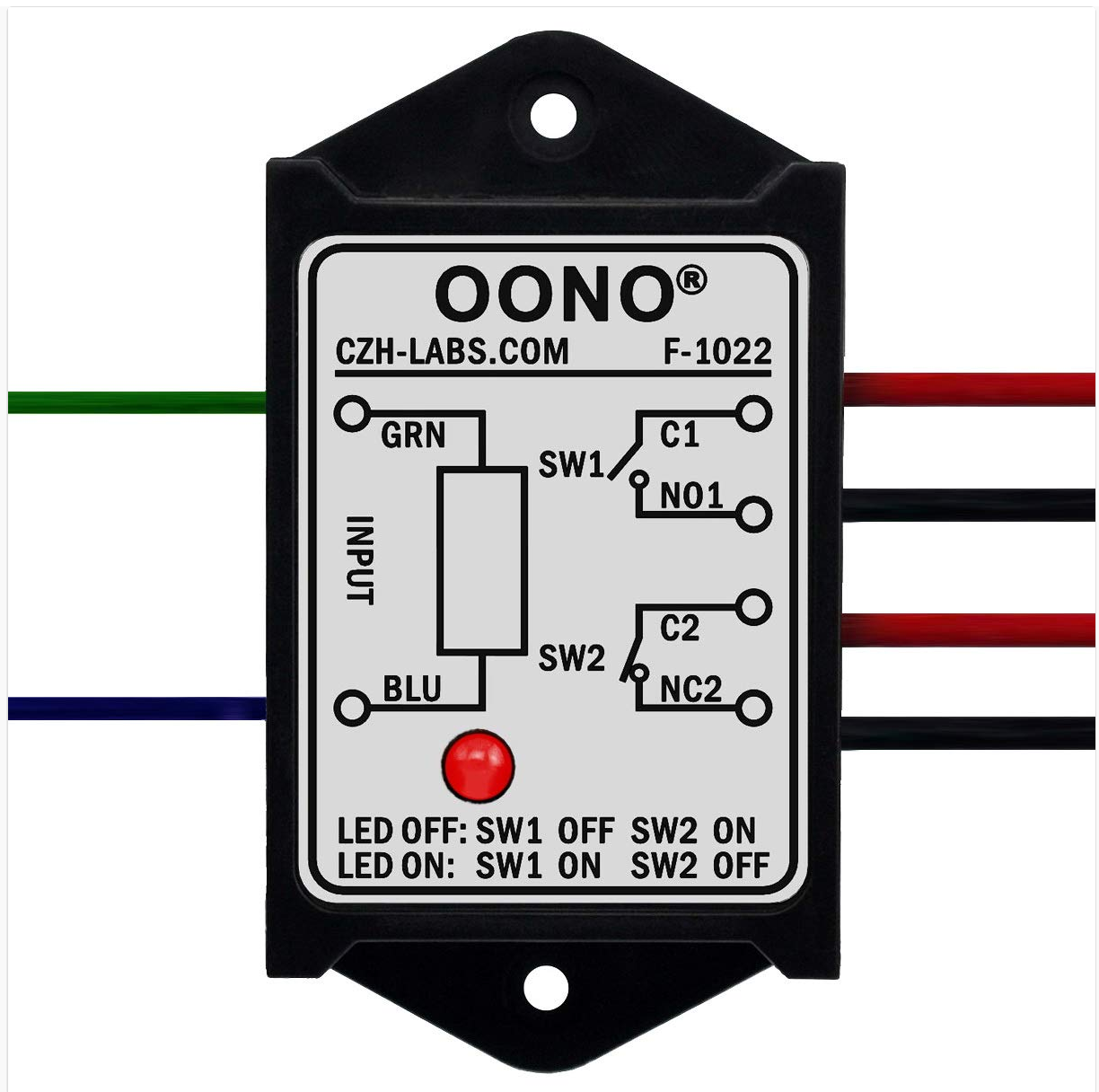


Figure 3.1: Front view of the OONO F-1022 Series relay module, showing the input (GRN, BLU) and output (C1, NO1, C2, NC2) terminals, along with the LED indicator and basic wiring diagram.

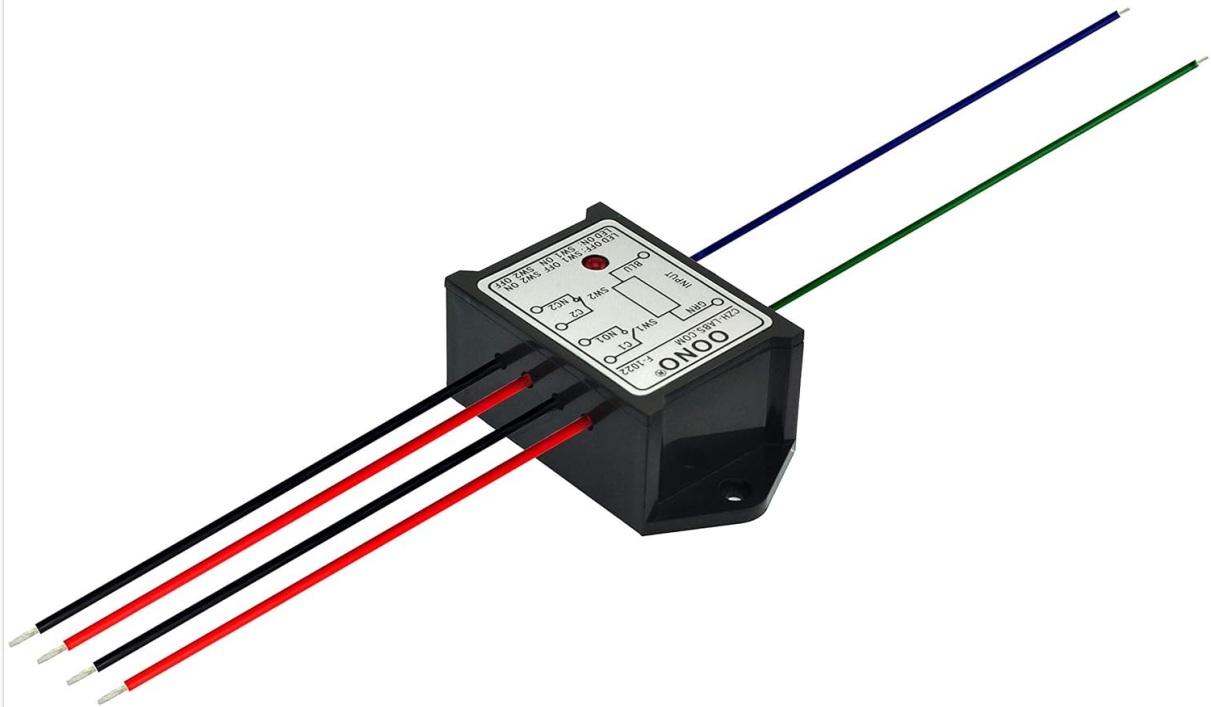


Figure 3.2: Angled perspective of the relay module, highlighting the pre-attached input (green and blue) and output (red and black) wires for direct connection.

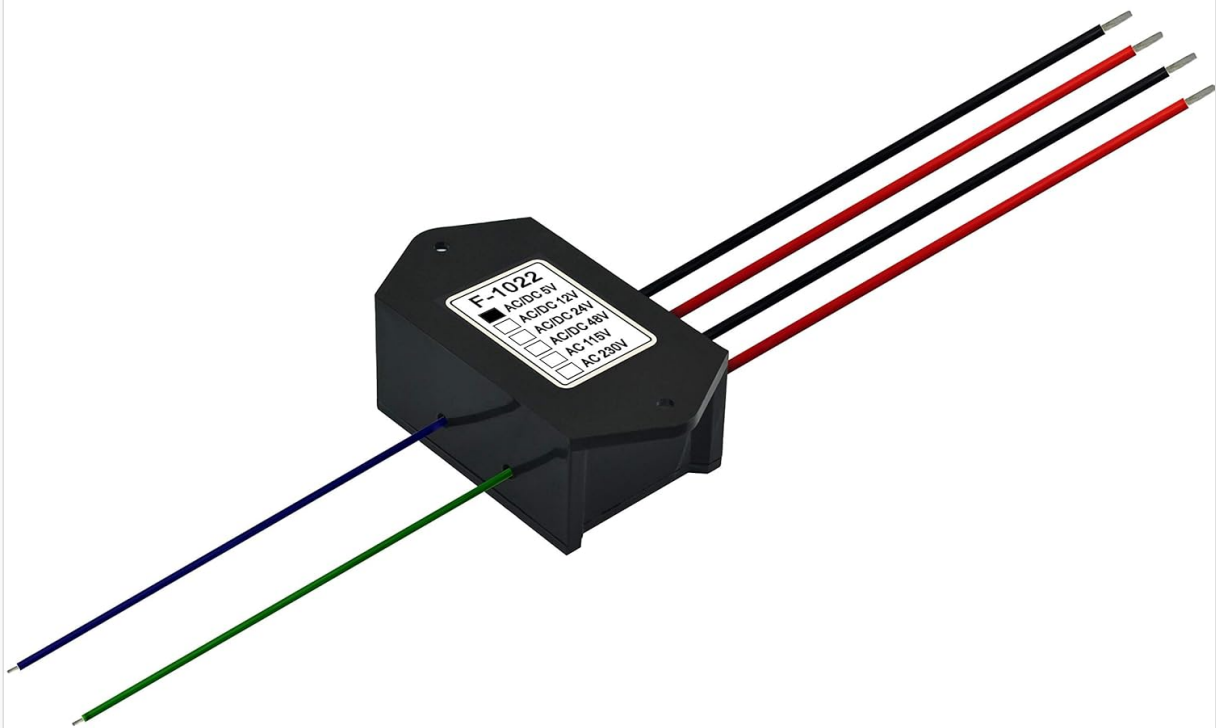


Figure 3.3: Another angled view, displaying the label with various control voltage options for the F-1022 Series, including AC/DC 5V, 12V, 24V, 48V, AC 115V, and AC 230V.

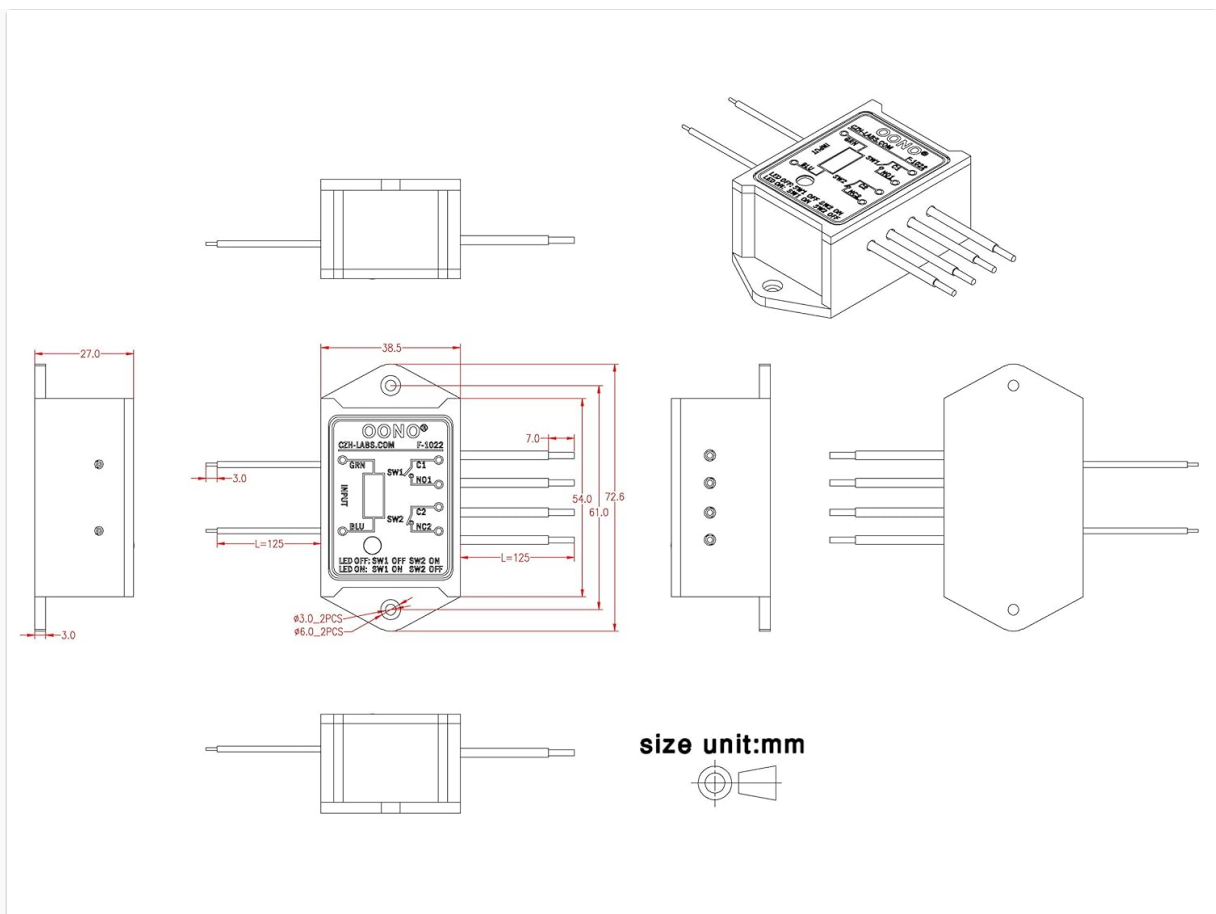


Figure 3.4: Technical drawing providing precise dimensions of the relay module in millimeters, useful for mounting and integration into enclosures.

Video 3.1: An animated demonstration of the OONO DPST 1NO 1NC 8Amp Power Relay Module, showcasing its physical appearance and basic functionality. This video provides a visual overview of the product's design and how its components interact.

## 4. SPECIFICATIONS

Feature	Description
Model Number	F-1022 Series
Input Control Signal	AC/DC 5V (Current: 80mA)
Output Switch Type	DPST 1NO 1NC (Double Pole Single Throw, 1x Normally Open and 1x Normally Closed)
Rated Current (Output)	8A / 250VAC or 8A / 30VDC (per switch)
Contact Material	Silver
Mounting Type	Screw Mount (Two screw mounting holes provided)
Indicator	LED for relay action status
Dimensions	3.7 x 2.2 x 1.3 inches (approx. 94 x 56 x 33 mm)
Weight	3.21 ounces (approx. 91 grams)

## 5. SETUP AND INSTALLATION

Follow these steps for proper installation of the relay module:

1. **Power Disconnection:** Ensure all power sources to the circuit where the relay will be installed are completely disconnected and locked out.
2. **Mounting:** Secure the relay module using the two screw mounting holes provided on the housing. It can be fixed to a wall or wooden board.
3. **Input Wiring:** Connect the control signal wires to the input terminals of the module. For the AC/DC 5V model, connect your 5V AC or DC control signal to the green (GRN) and blue (BLU) input wires. The module requires approximately 80mA for activation.
4. **Output Wiring:** The module provides DPST (Double Pole Single Throw) output contacts. There are two independent switches, SW1 and SW2.
  - **SW1 (Common C1, Normally Open NO1):** When the input signal is applied, the contact between C1 and NO1 closes.
  - **SW2 (Common C2, Normally Closed NC2):** When the input signal is applied, the contact between C2 and NC2 opens.

Connect your load circuit to the appropriate output terminals (C1, NO1, C2, NC2) based on your application's requirements for Normally Open or Normally Closed operation. Each switch is rated for 8A at 250VAC or 30VDC.

5. **Verification:** Double-check all wiring connections for correctness and security before restoring power.

## 6. OPERATING INSTRUCTIONS

The OONO F-1022 Series relay module operates based on the presence or absence of the input control signal.

- **No Input Signal (LED OFF):** In the absence of an input control signal, the relay is de-energized. In this state:
  - Switch 1 (SW1) is OFF (C1 and NO1 are open).
  - Switch 2 (SW2) is ON (C2 and NC2 are closed).
- **Input Signal Applied (LED ON):** When the AC/DC 5V control signal is applied to the input wires, the relay energizes. In this state:
  - Switch 1 (SW1) is ON (C1 and NO1 are closed).
  - Switch 2 (SW2) is OFF (C2 and NC2 are open).
- **LED Indicator:** The red LED on the module illuminates when the input control signal is present and the relay is energized, providing a visual indication of its operational status.

## 7. MAINTENANCE

The OONO F-1022 Series relay module is designed for long-term, reliable operation with minimal maintenance. However, periodic checks are recommended:

- **Visual Inspection:** Periodically inspect the module for any signs of physical damage, discoloration, or loose connections.
- **Cleaning:** If necessary, gently clean the exterior of the module with a dry, soft cloth. Do not use solvents or abrasive cleaners.

- **Connection Integrity:** Ensure all wire connections remain secure and free from corrosion.

## 8. TROUBLESHOOTING

If you encounter issues with your OONO F-1022 Series relay module, consider the following:

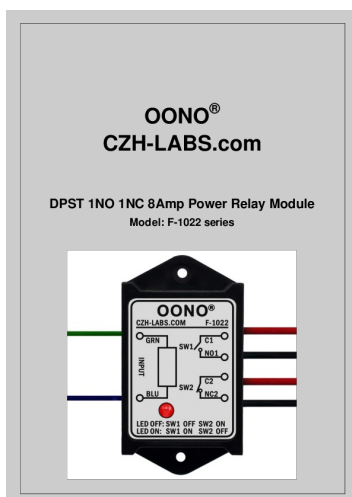
- **Relay Not Activating (LED Off):**
  - Verify that the input control signal (AC/DC 5V) is present and stable.
  - Check the input wiring for correct connections and continuity.
  - Ensure the input current is sufficient (80mA).
- **Load Not Switching:**
  - Confirm the relay LED is illuminating when the input signal is applied. If not, troubleshoot the input signal as above.
  - Check the output wiring for correct connections to C1/NO1 or C2/NC2.
  - Verify the load circuit is functioning correctly and not drawing excessive current beyond the 8A rating.
  - Ensure the load voltage is within the module's rated limits (250VAC or 30VDC).
- **Intermittent Operation:**
  - Check for loose wiring connections at both input and output terminals.
  - Ensure the input control signal is stable and free from voltage fluctuations or noise.
  - Verify the operating environment is within acceptable temperature and humidity ranges.

## 9. WARRANTY AND SUPPORT

For warranty information and technical support, please refer to the product packaging or contact your point of purchase. Specific warranty terms and support channels may vary depending on your region and retailer.

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Documents - OONO – F-1022 Series



[\[pdf\]](#) Specifications

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OONO CZH-LABS.com DPST 1NO 1NC 8Amp Power Relay Module Model: F-1022 series Features: Input control signal version: AC/DC 5V, AC/DC 12V, AC/DC 24V, AC/DC 48V, AC 115V, AC 230V six versions selectable. Output switch DPST 1NO 1NC Double Pole Single Throw, 1x Normally Open and 1x Normally Close , ... lang:en score:14 filesize: 509.73 K page\_count: 4 document date: 2020-05-30

