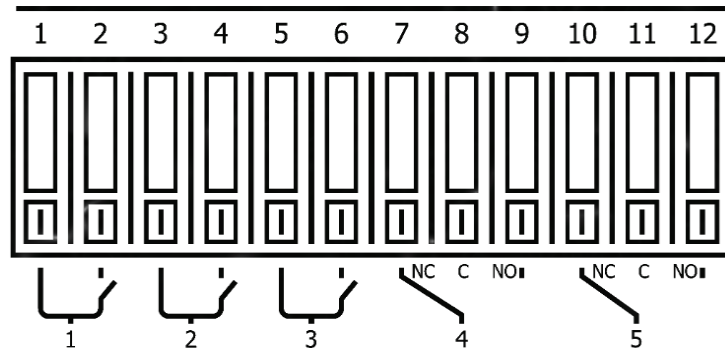


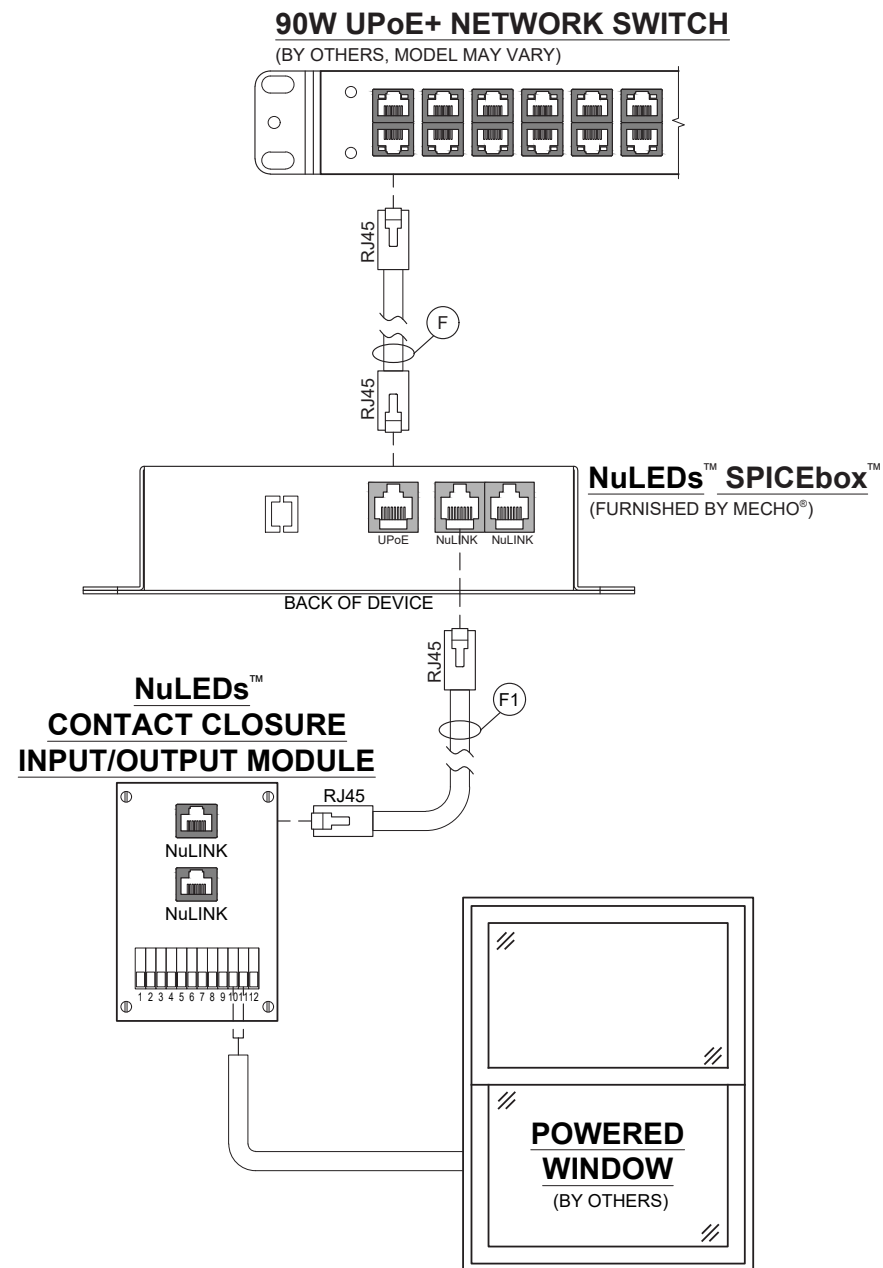
Contact Closure Input Output Module Wiring

This wiring diagram illustrates the contact closure input and output module connections. The module contains two pairs of contact closure inputs and two contact closure output relays. Input connections utilize orange (V+) and blue (V-) wires, while output connections incorporate orange (V+), blue (V-), and white (Common) wires. Terminals 1 through 3 correspond to the input pairs, with terminal 4 designated for the Normally Closed (NC), Common (C), and Normally Open (NO) contacts of the first output relay. Similarly, terminal 5 provides the NC, C, and NO contacts for the second output relay.



Contact Closure Input Output Module on UPoE & NuLink™ Network

NOTE: Only one Contact Closure Input Output Module can be connected per SPICEbox™.



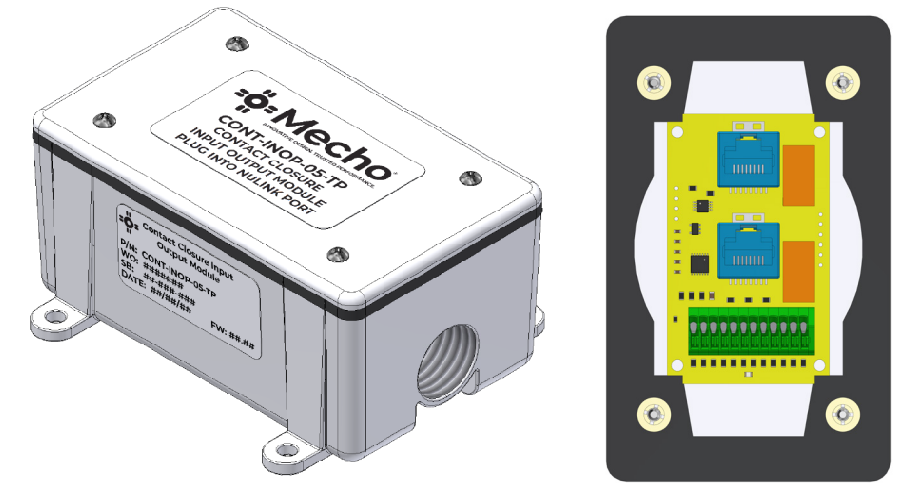
Troubleshooting

Problem	Possible Cause	Correction
Input or output not functioning.	• No power supply to inputs or outputs.	• Verify the power source is active and delivering correct voltage.
	• Loose or incorrect closure connections.	• Recheck and secure all closure connections.
No NuLINK connection.	• RJ45 cable is disconnected or damaged	• Verify and reseal the RJ45 cable connection.
	• NuLINK device is not operational.	• Test the NuLINK device for proper functionality.

Contact Closure Input Output Module Installation Guide

IMPORTANT DOCUMENT—DO NOT DISCARD

Stock#	Description
CONT-INOP-05-TP	Contact Closure Input Output Module



Features

- Dual Functionality**
 - Combines input and output capabilities for streamlined system integration.
 - Receives input signals via 3 dry contact closures and controls external devices through 2 output relays.
- Input Signal Processing**
 - Accepts signals from sensors, switches, and external devices.
 - Inputs can trigger specific actions within the NuLEDs PoE lighting system or other integrated systems.
- Output Relay Flexibility**
 - Includes 2 relays configurable as Normally Open (NO) or Normally Closed (NC).
 - Supports diverse equipment control by activating or deactivating connected devices.
- Seamless Integration**
 - Automates responses based on external triggers, such as occupancy sensors or manual switches.
 - Enables automatic lighting adjustments and custom scene activations.
- Automation and Centralized Control**
 - Enables automatic responses based on input signals, such as occupancy detection or manual switches.
 - Centralizes management for enhanced system coordination.
- Customization and Configuration**
 - Configurable inputs and outputs allow for tailored system responses.
 - Adapts to unique requirements for specific scenarios and environments.
- Scalability and Adaptability**
 - Modular design supports expansion and integration of additional devices as needed.
 - Ensures compatibility with evolving technologies and system upgrades.
- Plug-and-Play Installation**
 - Uses CAT cables for quick and easy setup
 - Designed for fast integration into NuLEDs PoE systems for efficient operation.

Warranty

Mecho's warranty ensures its products against defects in materials and workmanship for up to 25 years. The warranty timeline shall vary for different products. For complete warranty information, please visit <https://www.mechoshade.com/warranty> or contact your Mecho® Representative.

Technical Support

T: +1 (800) 327-9798 (Follow prompts for Mecho and Tech Support)
W: www.mechoshade.com **E:** techsupport@mechoshade.com
 Mecho® reserves the right to make improvements or changes in its products without prior notice. However, every attempt is made to ensure the information herein is accurate and up to date. Verify with MechoShade to confirm the product availability, latest specifications, and suitability for your application.



(800) 327-9798
mechoshade.com

Specifications

Equipment Kit	
Contact Closure Input Output Module	
Hardware	
Standby Power	<1 Watt
Power Supply	SPICEbox™ NuLINK™ Bus
RJ45 Ports	2 Ports
Protocols	NuSPICE™
Wiring	Category 5e/6 Ethernet cable to EIP SPICEBox
Maximum Wiring Length	50 ft. from SPICEbox™
Mechanical	
Dimensions (L X W X H)	6.4 in. x 5.08 in. x 1.48 in. (162.56 mm x 129.03 mm x 37.59 mm)
Weight	0.49 lbs. (0.22 kg)
Mounting	Wall mount with screws and wall anchors or industry standard low voltage ring or mud ring.
Dimming	Programmable with NuSPICE™
Environmental	
Operating Temperature	32° to 104°F (0° to 40°C) ambient
Humidity	10-80% Non-Condensing
Agency Listings and Compliance	
FCC Class A Compliant, CE Compliant, RoHS	



Warning

- **Caution** - Observe precautions for handling electrostatic sensitive devices.
- Do not use outdoors.
- **Warning** - Risk of Electric Shock. Do not handle energized module with wet hands or when standing on wet or damp surfaces.
- Conforms to CE, FCC standards
- **Warranty** - Voided if device has been modified from its original configuration.

Electrical Notes

- Refer to the Technology plans for PoE cabling, raceway, rack, and equipment locations. Also, refer to the Technology Elevation drawings for the UPoE switch, Power Panel, and rack requirements.
- Coordinate the device mounting locations with Mecho® Project Management. Devices that are shown above hard ceilings should be shown in an adjacent and accessible location. Devices can be group-mounted where applicable.
- Provide a pullbox or mount the devices above the ceiling bracket. Refer to the details for additional mounting information.
- Ensure that all the required terminations and cabling are provided by the contractor to allow for a complete system. The contractor should verify all the wiring lengths before installation and label all the required cabling according to Mecho® requirements.
- PoE ports for shading should be grouped together on dedicated gateways. If this is not possible, Mecho® should be notified, and mutually agreeable arrangements should be made to minimize support concerns.
- The number of luminaries connected to the SPICEbox™ depends on the wattage of the network switch.
- Do not daisy chain PIR sensors to PIR sensors, ALS sensors to ALS sensors, or Wall Controllers to Wall Controllers.
- The input wattage determines the maximum light load watts that can be connected to any given SPICEbox™.
- Locate the SPICEbox™ in an accessible location, closest to the luminaire, and make the connection. Coordinate the exact locations with the architect before installation.
- Each channel has an independent current setting. Fixtures with different current values can be connected separately on the same SPICEbox™.

Installation

1. Plug into NuLINK port.
2. The board has three contact closure inputs and two relay outputs, which can be configured as normally open or normally closed.
3. Verify the power capacity for each connection.
4. Use a screwdriver and pliers to open the box knockouts for wiring through inputs and outputs.
5. Remove the lid.
6. Connect the wires to the contact closures securely.
7. Replace and tighten the lid.
8. Plug the RJ45 cable into NuLINK port.
9. Secure the cable near J-Box in a strain release function.

Dimensions

