

The Ocean Controls Relay Cards are designed to allow easy integration of relays to existing hardware. The cards let you switch high voltage or high current loads from LabJack modules, PLCs, microcontrollers and logic circuitry.

The relays mounted on the board have the following specifications:

Rated Load	10A/250VAC, 10A/24VDC
Contact Resistance	50 mΩ
Dielectric Strength Between Contacts and Coil	≥5000 VAC / 1 minute
Operation Time	≤10 ms
Reset Time	≤ 5 ms

1.5 mm wide isolation slots and a large, 14 mm creepage distance between the coil and contact side provide high levels of isolation and protection and allow low voltage circuitry to switch AC power safely.

The driver circuitry has high and low inputs for interfacing to a wide range of equipment.

Dry contact (buttons, switches, other relays), NPN-type outputs, push-pull type outputs and active-low signals connect to the relay card's Low inputs.

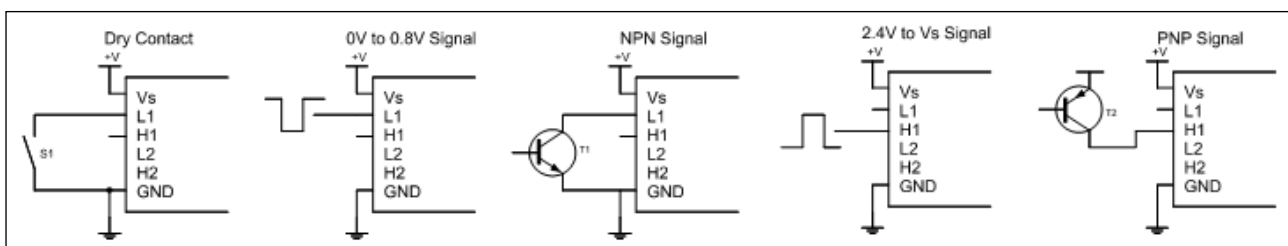
PNP-type outputs, push-pull type outputs and active-high signals connect to the relay card's High inputs.

A relay is triggered if the Low input is pulled below approximately 0.8 V, or if the High input is pulled above approximately 2.4 V.

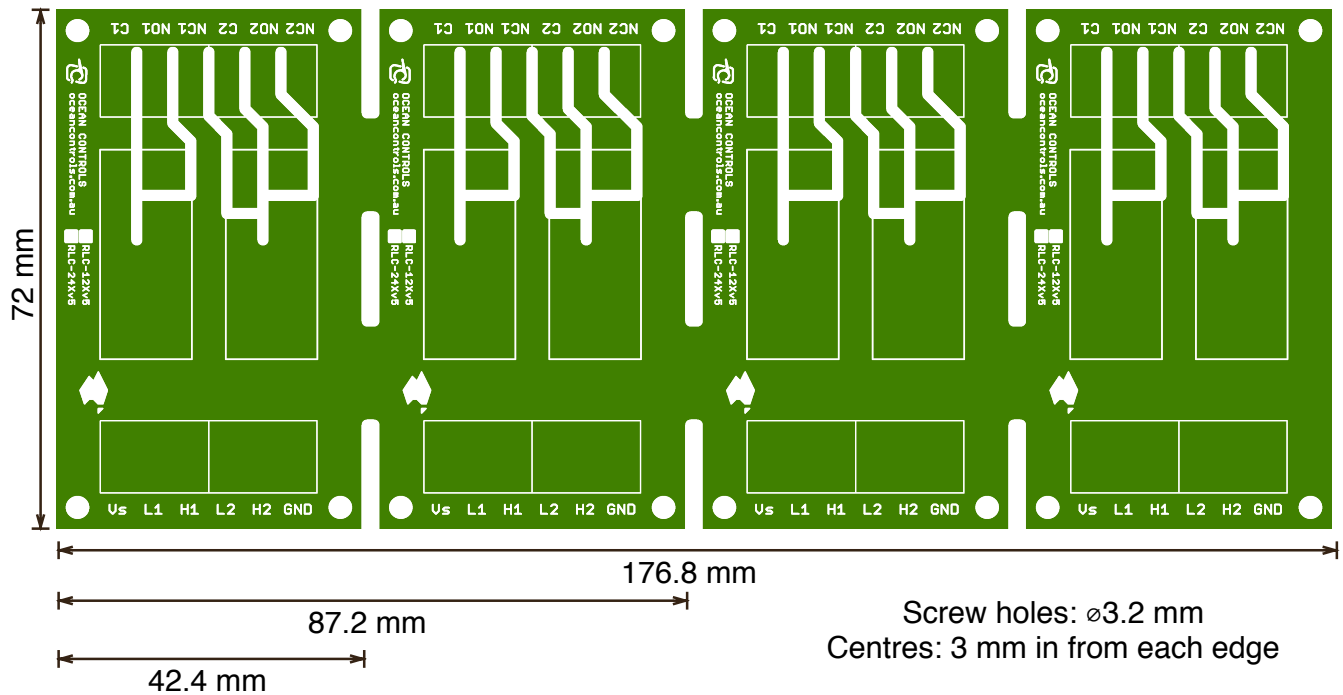
Voltage at either input should not be driven below 0 V or above the supply voltage (12 or 24 V).

The circuitry for relay draws approximately 2 mA while deactivated and approximately 32 mA when the relay is active. An 8 relay card will draw between 16 mA (all relays off) and 250 mA (all relays on).

Wiring:



Dimensions:



Part Number:

- RLC-122: 2 × 12 V Relay Card
- RLC-124: 4 × 12 V Relay Card
- RLC-128: 8 × 12 V Relay Card
- RLD-122: 2 × 12 V Relay Card on DIN Rail Mount
- RLD-124: 4 × 12 V Relay Card on DIN Rail Mount
- RLD-128: 8 × 12 V Relay Card on DIN Rail Mount