

**NEPEAN**  
Power

# HLO- Holistic Earth Fault Lockout

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NEPEAN ELECTRONICS



NEPEAN Power is a proven leader in the supply and manufacture of quality engineered solutions, products and technologies. Established in 1994, through the commitment of our dedicated team we have become a supplier of choice.

The Nepean HLO Holistic Earth Fault Lock out relay has been designed to detect Earth Faults on conductors in an outgoing circuit of an electrical system and to prevent the closure of the electrical supply to the de-energised circuit

## Operational

When incoming mains power is switched onto the system the HLO scans the outgoing cable and will lockout if an earth fault is present of 1M ohms or less. Detection of a fault will prevent the circuit switching device from being closed. The unit is failsafe in operation and will drop out on detection of a fault and remain open until the fault is cleared. The power supply to this unit is designed to maintain the function in its healthy mode for 2 seconds under no volt conditions thus preventing premature drop out under system fault conditions.

## Features

- Fail safe operation of aux relay contacts
- Relay scans the outgoing cable and will lockout if an earth fault is present
- Outgoing circuit is monitored until the contactor or circuit switching device is closed
- Drop out on fault detection. Remaining open until fault is cleared
- LED indication of power on
- LED indication of system healthy status
- Usage in conjunction with an 1100V intrinsically safe barrier HSB to isolate high voltage from the detector circuit

## Specifications

|                       |   |
|-----------------------|---|
| Supply                | 24-48V AC/DC 50/60Hz 5VA                    |
| Material              | High impact polycarbonate housing           |
| Voltage Tolerances    | -30% ~ 20%<br>-100% for 2+ seconds          |
| Selectable Trip Range | 1M to 1.9M Ohms                             |
| Relay Contacts        | 2 pole changeover 5A-250V<br>Failsafe Relay |
| Base Mounting         | DIN rail                                    |

## Ordering Information

| Part Number | Description          |
|-------------|----------------------|
| X0510       | HLO Lock Out Relay   |
| X0512       | 1000V Safety Barrier |

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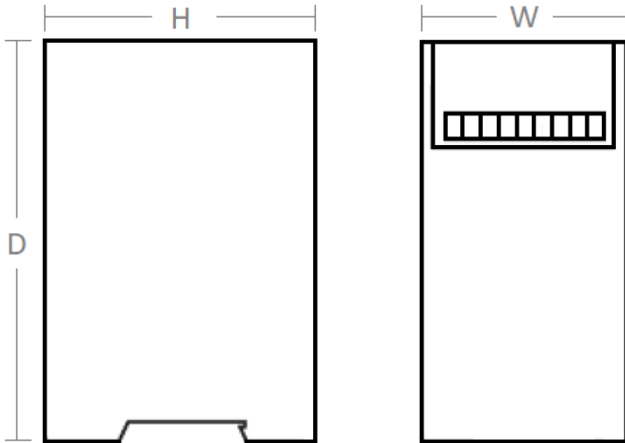
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# Holistic Earth Fault Lockout Relay

## Dimensions

Relay: D = 110 H = 95 W = 55  
 Barrier: D = 110 H = 95 W = 35



Unit is DIN Rail Mounted

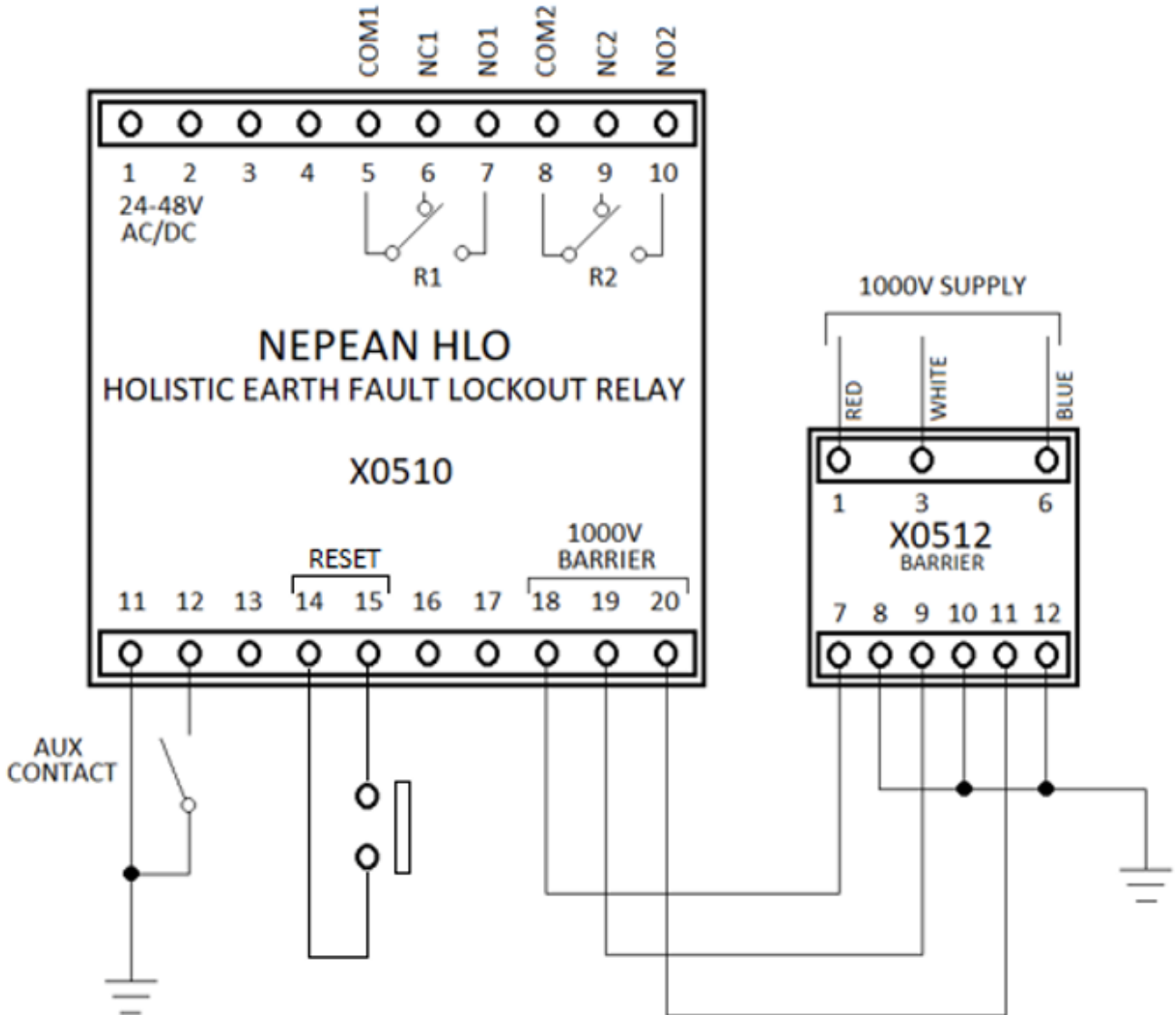
## Performance

X0510 - HLO Holistic Earth Fault Lockout Relay

Aux Supply Voltage: 28 - 48V AC/DC  
 Compliant to: AS/NZS 2081:2011  
 Aux Relay Contacts: 250VAC 5A

X0512: 1100V Safety Barrier

## Connection Diagram



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