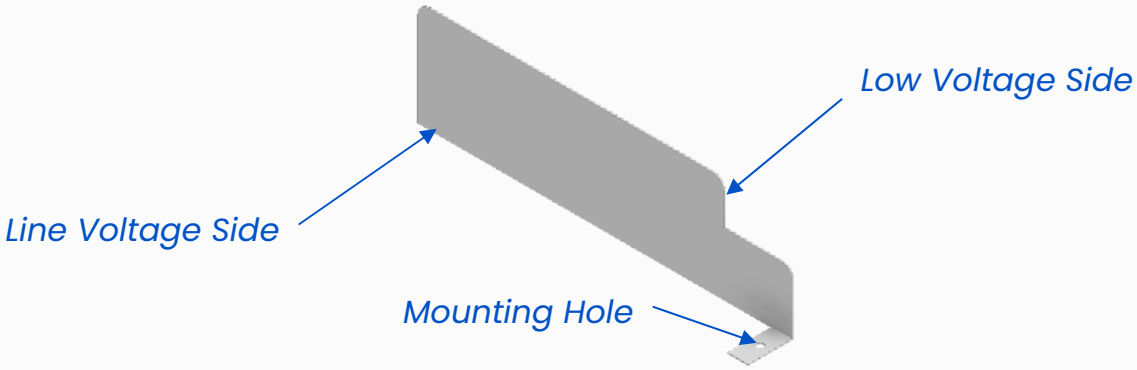
VB-1 Barrier Field Installation Instructions

This guide provides a technical overview for installing the VB-1 Barrier Field in a NexLight Lighting Control Panel (LCP). It assumes a basic understanding of electrical concepts and NexLight components. Please adhere to all safety precautions.



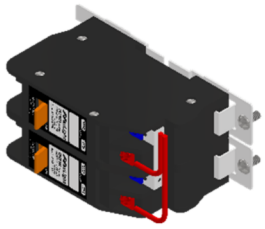
1.0 Preparation and Safety Procedures

Power Isolation: Before starting, disconnect power to the NexLight panel transformer. Use a multimeter to confirm the absence of voltage (less than 0.5VAC). Follow proper Lockout/Tagout (LOTO) procedures.

System Analysis: Review the panel schedule to identify the specific relays or modules requiring isolation. Record operational parameters before installation for comparison afterward.

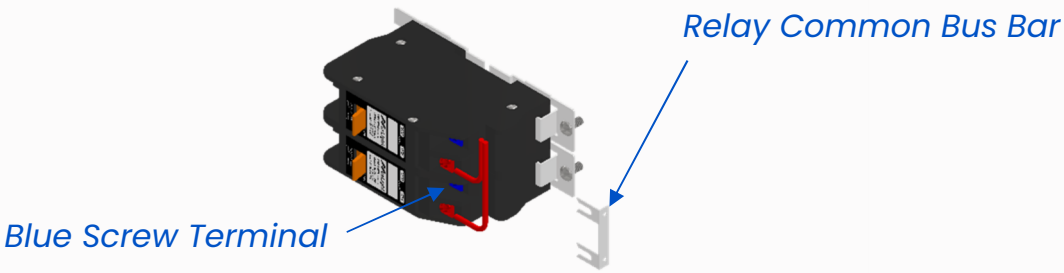
Common Bus Check: Determine if a common bus bar connects the relay terminals. If there's no common bus, skip the steps that mention it.

These instructions outline the steps necessary to install a barrier between two CRC7000 30A HID Relays.



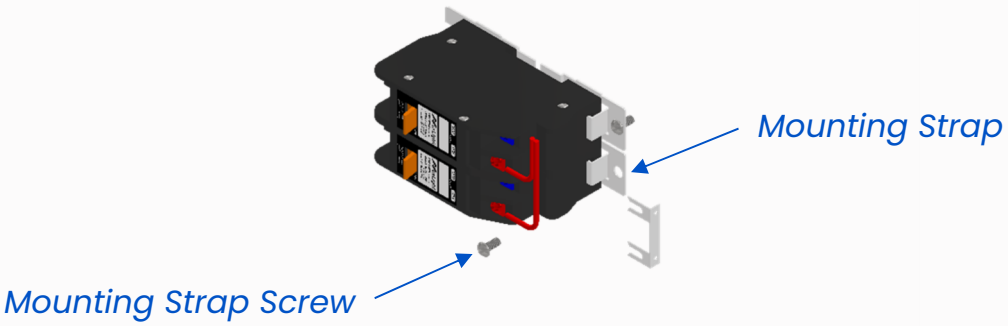
2.0 Common Bus Removal (If Present)

Terminal Loosening: Use a screwdriver to loosen the blue screw terminals holding the common bus to the relay terminals. Avoid overtightening or stripping the screws.
Careful Removal: Gently detach the common bus from the terminals. Avoid excessive force that could damage the relays. Store the bus safely.



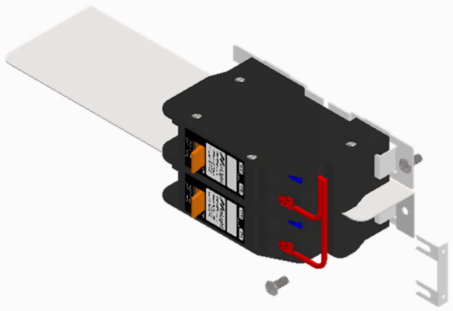
3.0 VB-1 Installation

Mounting Strap Removal: Locate and remove the mounting strap screw. Keep the screw for reinstallation.
VB-1 Orientation: Orient the VB-1 with the mounting screw hole facing the low-voltage (LV) side of the relays.
Barrier Placement: Carefully insert the VB-1 between the designated relays. Make sure it's seated correctly and doesn't interfere with other components.

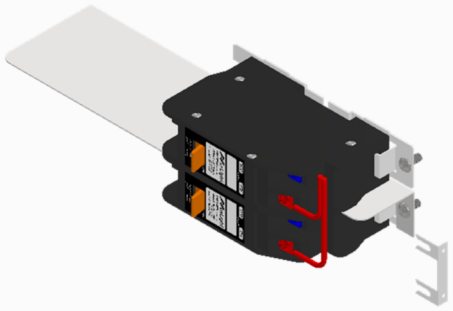


4.0 System Reassembly and Verification

Mounting Strap Reattachment: Align the VB-1's mounting screw hole with the mounting strap hole. Reinstall the screw and tighten securely but avoid overtightening.



Common Bus Reinstallation (If Applicable): Reinstall the common bus, ensuring proper alignment with the relay terminals. Tighten the blue screw terminals.



5.0 Functional Testing

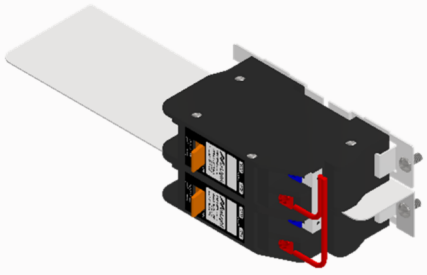
Continuity Testing: Use a multimeter to verify continuity between the specified relay blue screw terminals:

- Relays on One Side: Check continuity between the top and bottom relay blue screw terminals.
- Relays on Both Sides: Check continuity between the bottom left and bottom right relay blue screw terminals.

***Target continuity should be very low (near 0 ohms).

Post-Installation Check: Restore power to the NexLight panel transformer.

- Perform a complete system test in the *CRC1201 Intelligent Programmable Controller (IPC)* to ensure proper operation and that the VB-1 hasn't caused any issues.
- The system test involves logging into the *IPC* using a PC or Mac. Once logged in, you can verify manual control and status details through the Graphic User Interface on the System Control Screen.



Complete Installation

6.0 Troubleshooting

- **System Failure:** Double-check all connections and review the installation steps.
- **Assistance:** If unsure about any step, consult NexLight technical support.
    - **Phone:** (218) 828-3700
    - **Email:** techsupport@nexlight.com