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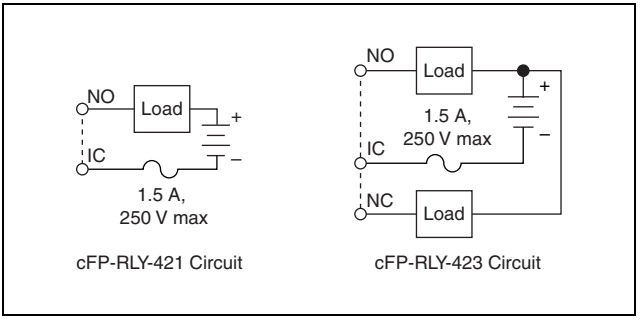
Compact FieldPoint™ Relay Modules

Best Practices for Relay Performance and Reliability

This document contains guidelines for ensuring the best performance and reliability of the NI Compact FieldPoint relay modules, cFP-RLY-421 and cFP-RLY-423.

Add External Fuses

To protect the relay module and the load from damage, add a fast-acting fuse suitable for the load on each relay circuit. Limit the circuit to 1.5 A, 250 V maximum (F1.5A 250V).



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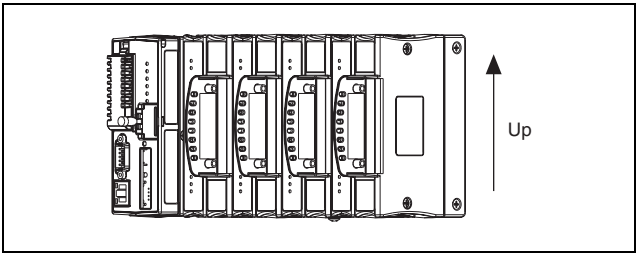
NATIONAL INSTRUMENTS

Minimize Shock and Vibration

Compact FieldPoint is designed for use in applications that are subject to shock and vibration. However, shock and vibration can cause electromechanical relays to make intermittent contact. For best performance, use Compact FieldPoint relay modules in a stable environment. If you cannot isolate the system from shock and vibration, use a Compact FieldPoint digital output module or an external solid-state relay for the application if possible.

Mount the System Upright

To ensure maximum cooling efficiency, mount the Compact FieldPoint system so that the I/O module vents are at the top and bottom as shown below.



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