NI-9263 Getting Started

2025-03-13

Contents

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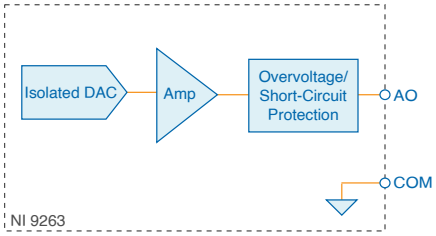
NI-9263 Nomenclature

In this article, the NI-9263 with screw terminal and NI-9263 with spring terminal are referred to inclusively as the NI-9263.

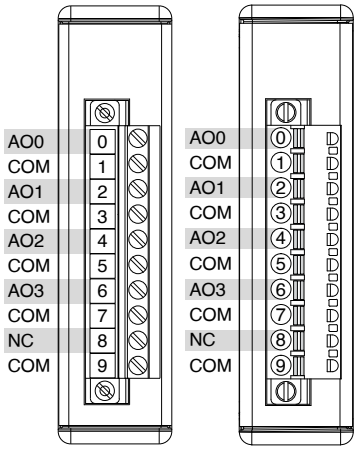
NI-9263 Block Diagram

Each channel has a digital-to-analog converter (DAC) that produces a voltage signal. Each channel also has overvoltage and short-circuit protection.

Figure 1. Block Diagram for One Channel of the NI-9263



NI-9263 Pinout



Note You must use 2-wire ferrules to create a secure connection when connecting more than one wire to a single terminal on the NI-9263.

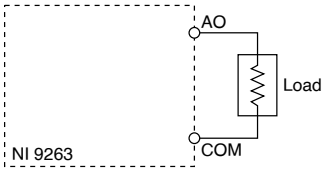
Table 1. Signal Descriptions

Signal	Description
AO	Analog output signal connection
COM	Common reference connection to isolated ground
NC	No connection

Connecting a Load

You can connect a load to each channel of the NI-9263.

Figure 1. Connecting a Load to the NI-9263



When the NI-9263 powers on, the channels output the startup voltage. You can configure the startup voltage in software.

High-Vibration Application Connections

If your application is subject to high vibration, NI recommends that you follow these guidelines to protect connections to the NI-9263:

- Use ferrules to terminate wires to the detachable connector.
- Use the NI-9927 backshell kit with the NI-9263 with screw terminal or the NI-9981 backshell kit with the NI-9263 with spring terminal.

Conformal Coating

The NI-9263 is available with conformal coating for additional protection in corrosive and condensing environments, including environments with molds and dust.

In addition to the environmental specifications listed in the ***NI-9263 Safety, Environmental, and Regulatory Information***, the NI-9263 with conformal

coating meets the following specification for the device temperature range. To meet this specification, you must follow the appropriate setup requirements for condensing environments. Refer to ***Conformal Coating and NI RIO Products*** for more information about conformal coating and the setup requirements for condensing environments.

Operating humidity (IEC 60068-2-30 Test Db)	80 to 100% RH, condensing

Related information:

- Conformal Coating and NI RIO Products