PXI-2799 Features

2025-03-20

Contents

PXI-2799 Overview

PXI-2799 Pinout

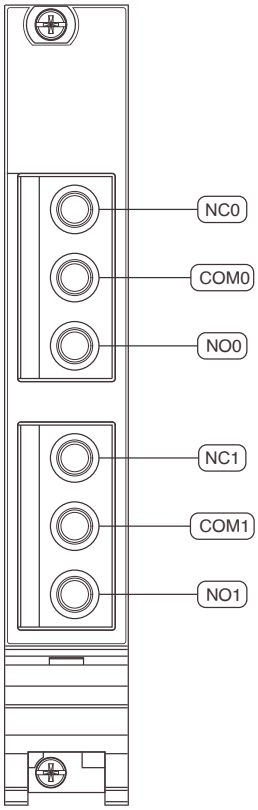
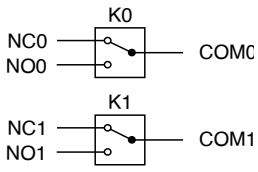


Table 1. Signal Descriptions

Signal	Description
COM***x***	Routing destination for corresponding signal connections
NC***x***	Normally closed signal connection
NO***x***	Normally open signal connection

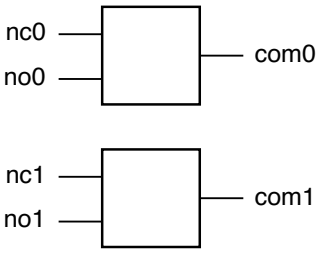
PXI-2799 Hardware Diagram



PXI-2799 Topology

Module software name: 2799/2-SPDT (NISWITCH_TOPOLOGY_2799_2_SPDT)

Dual SPDT Multiplexer



Making a Connection

You can control the channels using the niSwitch Connect Channels VI or the `niSwitch_Connect` function.

For example, to connect the NO terminal of channel 1 to the COM terminal of channel 1, call `niSwitch_Connect (vi, "no1", "com1")`. If you now want to connect NC1 to COM1, first disconnect the existing connection. The sequence of calls for this task is as follows:

```
niSwitch_Disconnect(vi, "no1", "com1")
```

```
niSwitch_Connect(vi, "nc1", "com1")
```

Note `niSwitch_Disconnect(vi, "no1", "com1")` does not operate the relay until the `niSwitch_Connect(vi, "nc1", "com1")` is executed.

Note For an initial connection, you do not need to disconnect the default channel (nc***x***) from COM after the module has been reset or a call to the niSwitch Disconnect All Channels VI or the `niSwitch_DisconnectAll` function has been made.

When scanning the module, a typical scan list entry could be `nc1->com1;`. This entry routes the signal connected to NC1 to COM1.