# **NI PXI-2565 Specifications**

### 16-SPST Power Relay Module

This document lists specifications for the NI PXI-2565 power relay module. All specifications are subject to change without notice. Visit ni.com/manuals for the most current specifications.

### **Input Characteristics**

All input characteristics are DC, AC<sub>rms</sub>, or a combination unless otherwise specified.

Maximum switching voltage



**Caution** This module is rated for Measurement Category II and intended to carry signal voltages no greater than 250 VAC/125 VDC. This module Features 1400  $V_{rms}$  isolation between input signals and the backplane as verified by a dielectric withstand test, 1 minute maximum. Do *not* use this module for connection to signals or for measurements within Categories III or IV. Do *not* connect to MAINs supply circuits (for example, wall outlets) greater than 150 VDC; do *not* connect to MAINs circuits of 208 VAC (US) or 230 VAC (Europe). Refer to the *Read Me First: Safety and Radio-Frequency Interference* document for more information on measurement categories.

When hazardous voltages (>42.4  $V_{pk}/60$  VDC) are present on any relay terminal, safety low-voltage (<42.4  $V_{pk}/60$  VDC) cannot be connected to any other relay terminal.



**Caution** The switching power is limited by the maximum switching current, the maximum voltage, and must not exceed 150 W, 1750 VA.

Maximum switching power ...... 150 W, 1750 VA (per channel)



DC path resistance typically remains low for the life of the relay. At the end of relay life, the path resistance rises rapidly above 1  $\Omega$ . Load ratings apply to relays used within the specification before the end of relay life.

Power dissipation

All relays open......1.75 W

All relays closed, 0 A per channel...7 W

All relays closed, 5 A per channel...21.5 W

All relays closed, 7 A per channel...35.0 W

# **Dynamic Characteristics**

Relay operate time (at 20 °C)......5 ms typical, 10 ms maximum

Release time (at 20 °C)......4 ms typical, 5 ms maximum



**Note** Certain applications may require additional time for proper settling. For information about including additional settling time, refer to the *NI Switches Help*.

Expected relay life

# **Trigger Characteristics**

# **Physical Characteristics**

#### **Environment**

### **Accessories**

Visit ni.com for more information about the following accessory.

Table 1. NI Accessory for the NI PXI-2565

Accessory	Part Number
16-pin screw terminal plug kit terminal block	761289-16

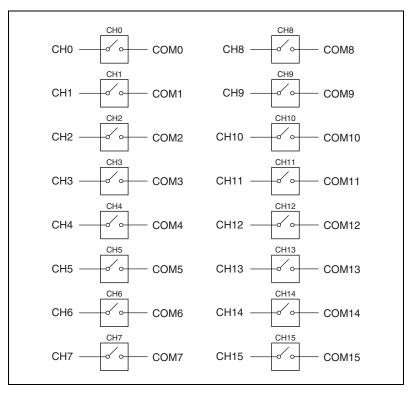


Figure 1. NI PXI-2565 Configuration (Relay Shown in Power-On State)

### **Compliance and Certifications**

#### Safety

This product is designed to meet the requirements of the following standards of safety for electrical equipment for measurement, control and laboratory use:

- IEC 61010-1, EN 61010-1
- UL 61010-1
- CAN/CSA C22.2 No. 61010-1



**Note** For UL and other safety certifications, refer to the product label or visit ni.com/certification, search by model number or product line, and click the appropriate link in the Certification column.

#### **Electromagnetic Compatibility**

Emissions	. EN 55011 Class A at 10 m
	FCC Part 15A above 1 GHz
Immunity	. EN 61326:1997 + A2:2001, Table 1
	Table 1

CE, C-Tick and FCC Part 15 (Class A) Compliant



**Note** For EMC compliance, you *must* operate this device with shielded cabling.

### **CE Compliance**

This product meets the essential requirements of applicable European Directives, as amended for CE marking, as follows:



**Note** Refer to the Declaration of Conformity (DoC) for this product for any additional regulatory compliance information. To obtain the DoC for this product, visit ni.com/certification, search by model number or product line, and click the appropriate link in the Certification column.

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