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SCXI-1160

NI SCXI™ -1160 Specifications

16-SPDT Relay Module

このドキュメントには、日本語ページも含まれています。

This document lists specifications for the NI SCXI-1160 general-purpose relay module. All specifications are subject to change without notice. Visit ni.com/manuals for the most current specifications.

Topology 16-channel SPDT

Refer to the *NI Switches Help* for detailed topology and pinout information.

Input Characteristics

All input characteristics are DC, AC_{rms} , or a combination unless otherwise specified.

Maximum switching voltage 250 V, CAT II (channel-to-ground)



Note Refer to the *Read Me First: Safety and Electromagnetic Compatibility* document for more information on measurement categories.

Maximum switching current 2 A (per channel)

Maximum carry current 2 A (per channel)

Maximum switching power 500 VA (per channel)
60 W (V = 30 VDC)
30 W (V > 30 VDC)

Minimum switching capacity 10 mA at 100 mVDC



Note Switching inductive loads (for example, motors and solenoids) can produce high voltage transients in excess of the module's rated voltage. Without additional protection, these transients can interfere with module operation and impact relay life. For more information about transient suppression, visit ni.com/info and enter the Info Code `induct`.

DC path resistance

Initial <75 m Ω

End-of-life >1 Ω

Path resistance is a combination of relay contact resistance and trace resistance. Contact resistance typically remains low for the life of a relay. At the end of relay life, the contact resistance rises rapidly above 1.0 Ω .

Thermal EMF (typical) <3 μ V

Dynamic Characteristics

Relay operate time 14 ms



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

Mechanical 5×10^7 cycles

Electrical

30 VDC, 2 A 2×10^5 cycles

250 VAC, 2 A 1×10^5 cycles

Physical Characteristics

Relay type Electromechanical, latching

I/O connector 48-pin DIN C male

Contact material Gold-clad silver alloy

Dimensions (L \times H \times W) 19.8 cm \times 3 cm \times 17.3 cm (7.8 in. \times 1.2 in. \times 6.7 in.)

Weight 675 g (1 lb 8 oz)

Environment

Operating temperature.....0 °C to 50 °C

Storage temperature.....-20 °C to 70 °C

Relative humidity5% to 85%
noncondensing

Pollution Degree.....2

Maximum altitude2,000 m

Indoor use only.

Accessories

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

Table 1. NI Accessory for the NI SCXI-1160

Accessory	Part Number
NI SCXI-1324 terminal block	777687-24

Figure 1 represents the NI SCXI-1160 power-on state.

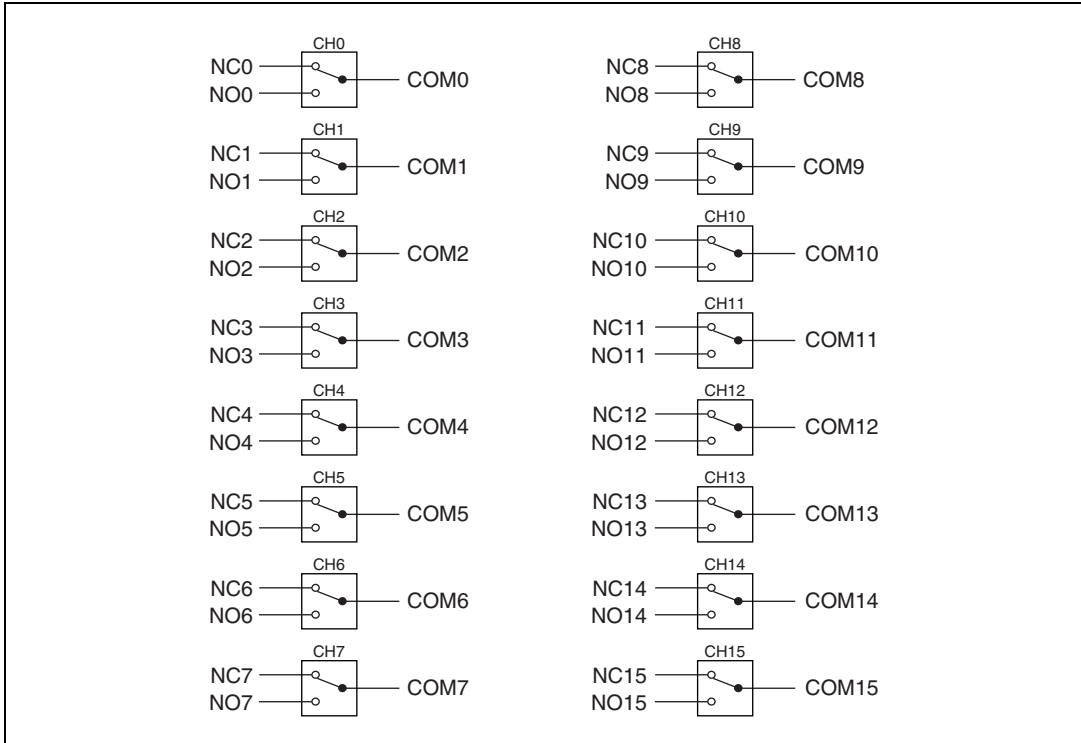


Figure 1. NI SCXI-1160 Power-On State

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, CSA 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

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

- EN 61326 EMC requirements; Minimum Immunity
- EN 55011 Emissions; Group 1, Class A
- CE, C-Tick, ICES, and FCC Part 15 Emissions; Class A



Note For EMC compliance, operate this device with shielded cables.

CE Compliance

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

- 2006/95/EC; Low-Voltage Directive (safety)
- 2004/108/EC; Electromagnetic Compatibility Directive (EMC)



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.

Environmental Management

National Instruments is committed to designing and manufacturing products in an environmentally responsible manner. NI recognizes that eliminating certain hazardous substances from our products is beneficial not only to the environment but also to NI customers.

For additional environmental information, refer to the *NI and the Environment* Web page at ni.com/environment. This page contains the environmental regulations and directives with which NI complies, as well as other environmental information not included in this document.

Waste Electrical and Electronic Equipment (WEEE)



EU Customers At the end of their life cycle, all products *must* be sent to a WEEE recycling center. For more information about WEEE recycling centers and National Instruments WEEE initiatives, visit ni.com/environment/weee.htm.

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