



DC path resistance  
Initial.....<75 mΩ  
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 μV

## Dynamic Characteristics

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Relay operate time .....10 ms  
Expected relay life  
Mechanical .....50,000,000 cycles  
Electrical  
30 VDC, 2 A.....200,000 cycles  
250 VAC, 2 A.....100,000 cycles

## Physical Characteristics

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Relay type .....Electromechanical, latching  
I/O connector .....48-pin DIN C male  
Contact material.....Gold-clad silver alloy  
Dimensions (W × H × D).....3.0 cm × 17.3 cm × 19.6 cm  
(1.2 in. × 6.7 in. × 7.6 in.)  
Weight .....675 g  
(1 lb 8 oz)

## Environment

Operating temperature .....0 °C to 50 °C  
Storage temperature .....-20 °C to 70 °C  
Relative humidity .....5% to 85% noncondensing  
Pollution Degree .....2  
Approved at altitudes up to 2,000 m

## Accessories

Visit [ni.com](http://ni.com) for more information about the NI SCXI-1324 terminal block for the NI SCXI-1160.

# Compliance and Certifications

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## 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 3111-1, UL 61010B-1
- CAN/CSA C22.2 No. 1010.1



**Note** For UL and other safety certifications refer to the product label or visit [ni.com](http://ni.com).

## Electromagnetic Compatibility

Emissions .....	EN 55011 Class A at 10 m FCC Part 15A above 1 GHz
Immunity .....	EN 61326:1997 + A2:2001, Table 1
EMC/EMI.....	CE, C-Tick and FCC Part 15 (Class A) Compliant



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

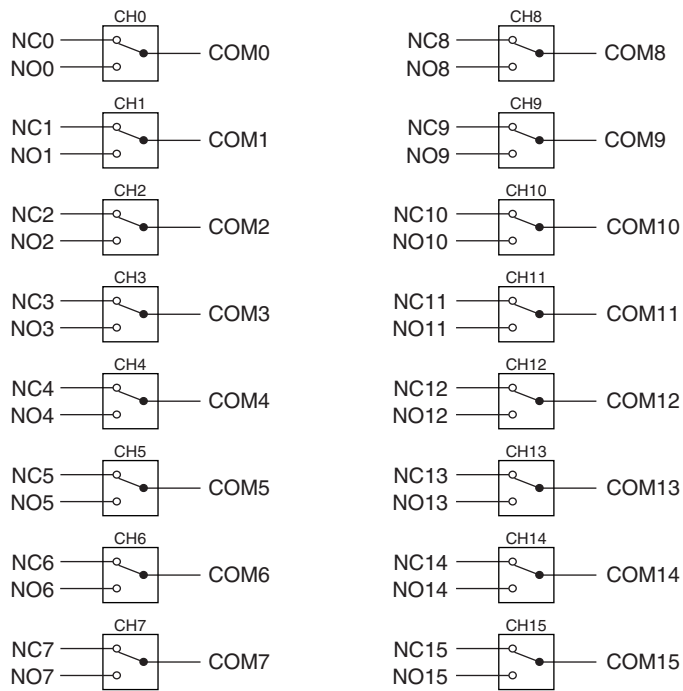
## CE Compliance

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

Low-Voltage Directive (safety) .....	73/23/EEC
Electromagnetic Compatibility Directive (EMC) .....	89/336/EEC



**Note** Refer to the Declaration of Conformity (DoC) for this product for any additional regulatory compliance information. To obtain the DoC for this product, click **Declarations of Conformity Information** at [ni.com/hardref.nsf/](http://ni.com/hardref.nsf/).



**Figure 1.** NI SCXI-1160 16-SPDT

