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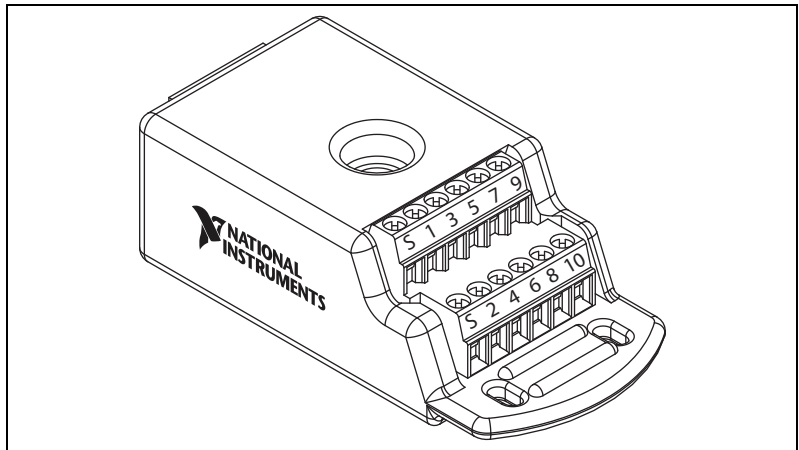
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**SCXI-1314**

## USER GUIDE

# NI 9949 RJ-50 to Screw-Terminal Accessory

This user guide describes the features of the National Instruments 9949 RJ-50 to Screw-Terminal Accessory. You can use the NI 9949 to provide screw-terminal access to devices that use RJ-50 cables, such as the NI 9237 with RJ-50 and the SCXI-1314T.



**Figure 1.** NI 9949 RJ-50 to Screw-Terminal Accessory

## What You Need to Get Started

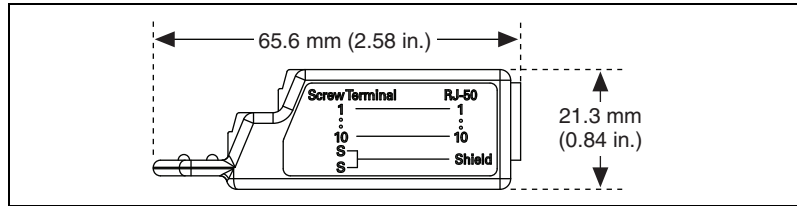
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To use the NI 9949, you need the following:

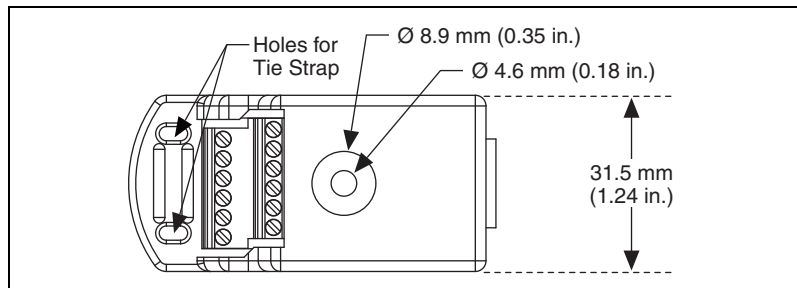
- ☐ Plastic tie strap for strain relief wrapped around the two front holes, as shown in Figure 3.
- ☐ M4x20 screw, or other hardware that fits in the 8.9 mm (0.35 in.) outer clearance hole and 4.6 mm (0.18 in.) inner clearance hole, as shown in Figure 3.

# NI 9949 Dimensions

The NI 9949 has outer dimensions of 65.6 × 21.3 × 31.5 mm (2.58 × 0.84 × 1.24 in.), as shown in Figures 2 and 3.



**Figure 2.** NI 9949 Dimensions



**Figure 3.** NI 9949 Dimensions and Hole Clearance

## Connecting the NI 9949

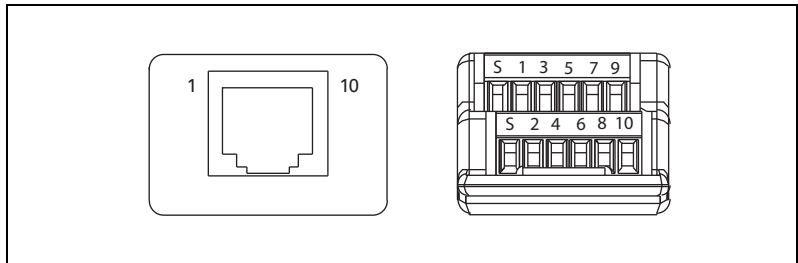
Use an RJ-50 cable to connect the NI 9949 to devices with RJ-50 receptacles, such as the NI 9237 with RJ-50 and the SCXI-1314T. The NI 9949 routes each pin of the RJ-50 receptacle to the corresponding screw terminal, where 1–10 represent the pin and terminal numbers and S represents the shield of the RJ-50 connector. For example, if you connect the NI 9949 to the NI 9237, pin 1 of the NI 9237 RJ-50 receptacle connects to terminal 1 of the NI 9949 screw-terminal connector. Refer to Figure 4 for a diagram of the RJ-50 and screw-terminal connectors on the NI 9949. Refer to the device manual for information about device pin assignments.



**Note** National Instruments does not recommend using an RJ-45 cable with the NI 9949 because it can physically damage pins 1 and 10 on the device, and thus permanently disable shunt calibration no matter what connector you use.



**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 9949.



**Figure 4.** RJ-50 and Screw-Terminal Connectors on the NI 9949

## Specifications

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Weight..... 43 g (1.5 oz)

Operating temperature..... –40 to 70 °C

# Where to Go for Support

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The National Instruments Web site is your complete resource for technical support. At [ni.com/support](http://ni.com/support) you have access to everything from troubleshooting and application development self-help resources to email and phone assistance from NI Application Engineers.

National Instruments corporate headquarters is located at 11500 North Mopac Expressway, Austin, Texas, 78759-3504. National Instruments also has offices located around the world to help address your support needs. For telephone support in the United States, create your service request at [ni.com/support](http://ni.com/support) and follow the calling instructions or dial 512 795 8248. For telephone support outside the United States, contact your local branch office:

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