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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.

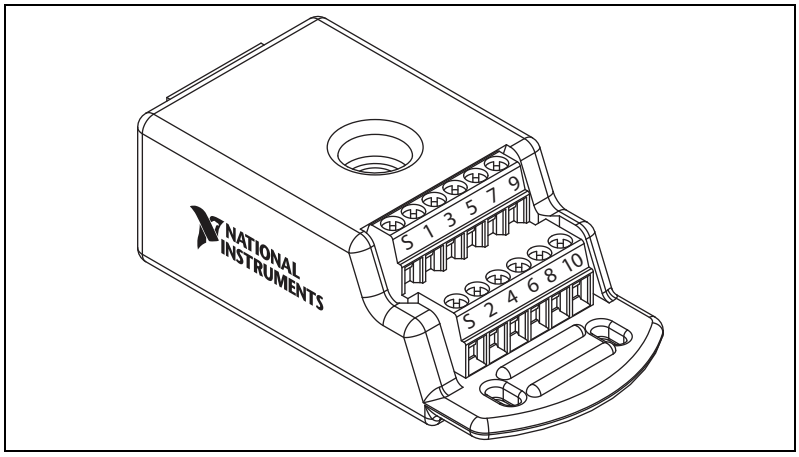


Figure 1. NI 9949 RJ-50 to Screw-Terminal Accessory

What You Need to Get Started

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.

NATIONAL INSTRUMENTS™

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.

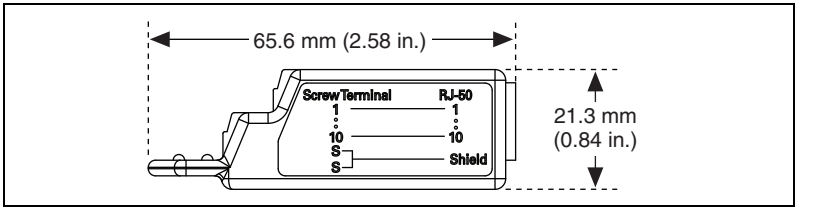


Figure 2. NI 9949 Dimensions

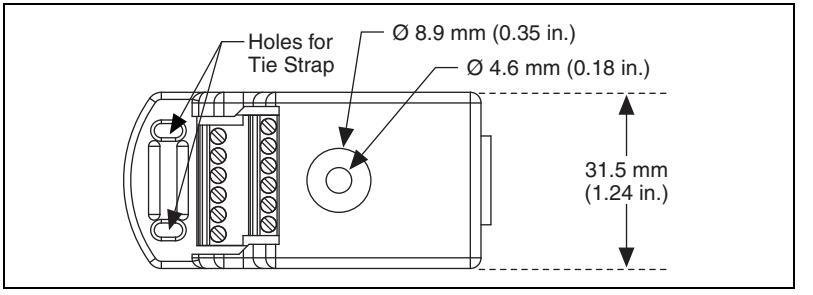


Figure 3. NI 9949 Dimensions and Hole Clearance

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.

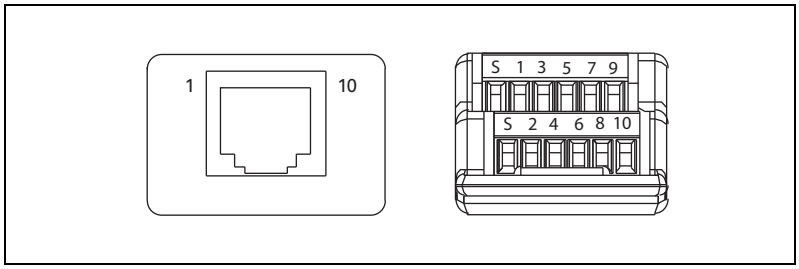


Figure 4. RJ-50 and Screw-Terminal Connectors on the NI 9949

Specifications

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

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

Where to Go for Support

The National Instruments Web site is your complete resource for technical support. At `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.

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