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cRIO-9024

Quick Start Guide

NI 9908 and NI 9909

Mounting Accessories for Stand-Alone cRIO-902x

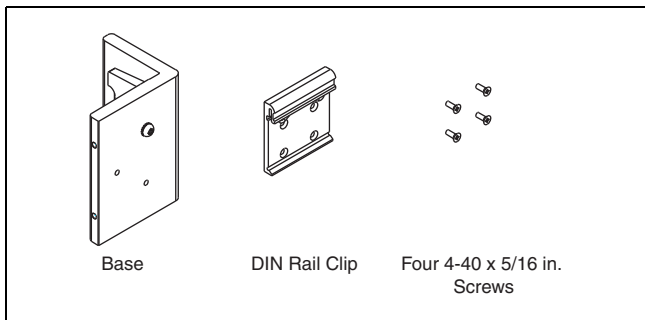
This document describes the installation process for the NI 9908 and NI 9909. The NI 9908 and NI 9909 are accessory kits for mounting a stand-alone cRIO-902x controller on a DIN rail or panel, respectively.

What You Need to Get Started

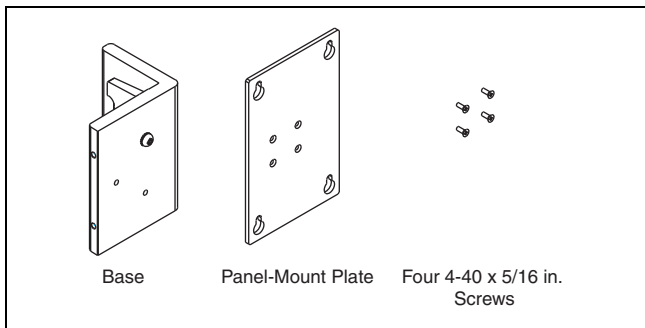
- cRIO-902x controller
- Number 2 Phillips screwdriver
- NI 9908 or NI 9909 mounting accessory kit
- NI 9901 desktop mounting kit (optional)



The following figure shows the hardware contents of the NI 9908 kit:



The following figure shows the hardware contents of the NI 9909 kit:





Caution If you substitute other screws for the screws shipped with the NI 9908 or NI 9909 kit, do not use screws longer than 5/16 in. to fasten the DIN rail clip or panel-mount plate to the base.



Caution Make sure that power is disconnected from the controller before you mount it on the base.



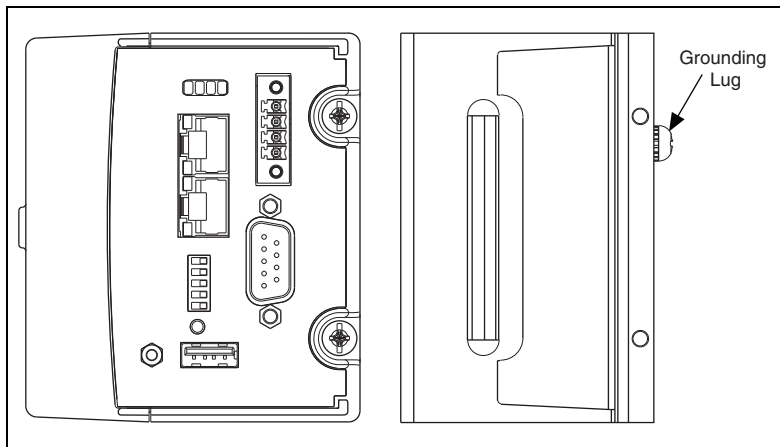
Caution You must connect the grounding lug on the base to safety ground before using the controller.



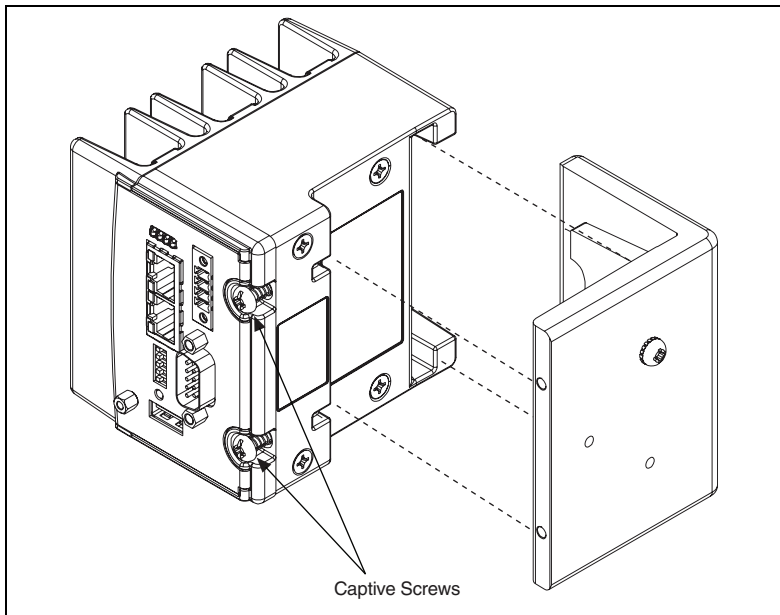
Caution You must allow 25.4 mm (1 in.) of space above and below the controller for air circulation.

Mounting the Controller on the Base

The following figure shows the proper orientation of the stand-alone base in relation to the controller.



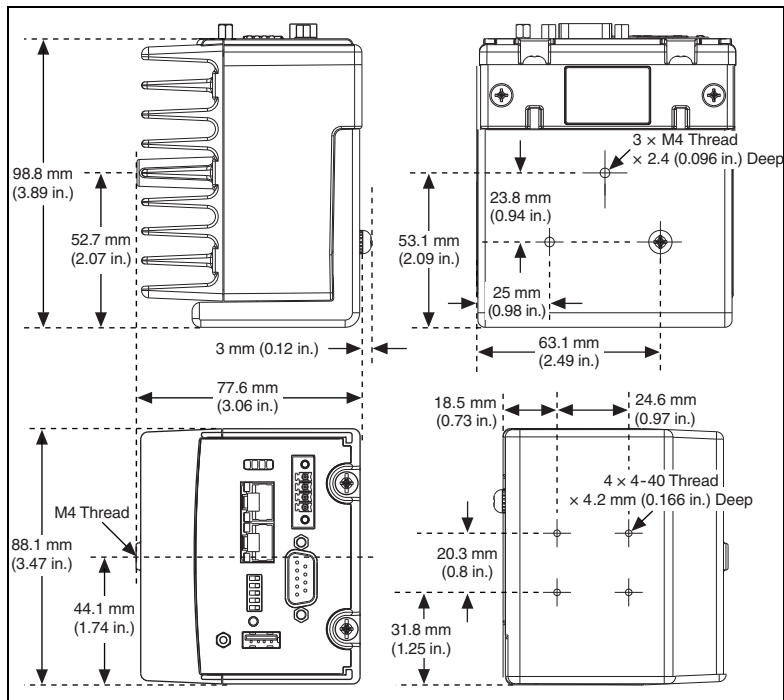
1. Align the tongue on the base with the groove on the bottom of the controller, as shown in the following figure.



2. Slide the base onto the controller.
3. Using a number 2 Phillips screwdriver, tighten the captive screws to $1.3 \text{ N} \cdot \text{m}$ ($11.5 \text{ lb} \cdot \text{in.}$) of torque.

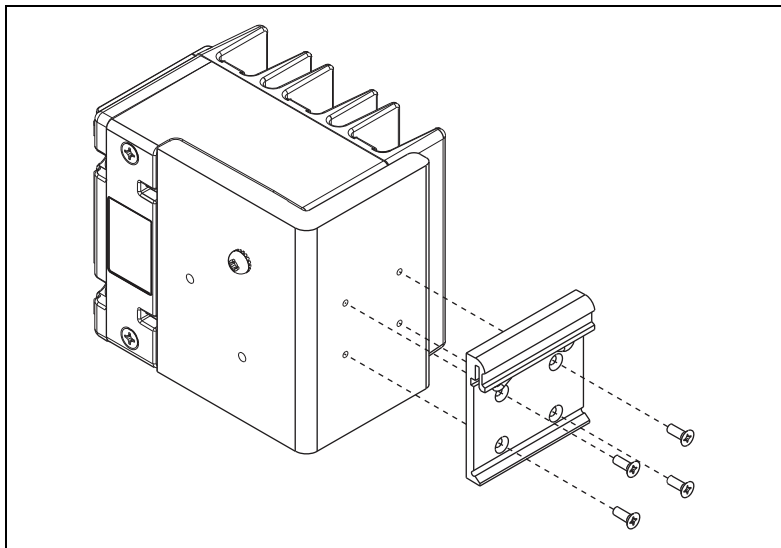


Note The base adds 9.0 mm (0.354 in.) to the depth of the controller.

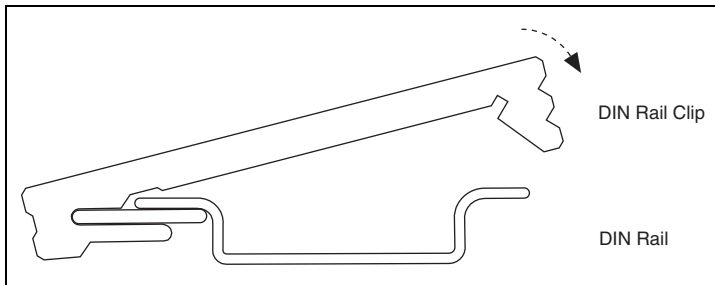


Mounting the Controller on a DIN Rail with the NI 9908

1. Fasten the DIN rail clip to the back of the base using a number 2 Phillips screwdriver and the four 4-40 \times 5/16 in. countersunk screws shipped with the kit. Tighten the screws to 0.4 N \cdot m (3.6 lb \cdot in.) of torque.

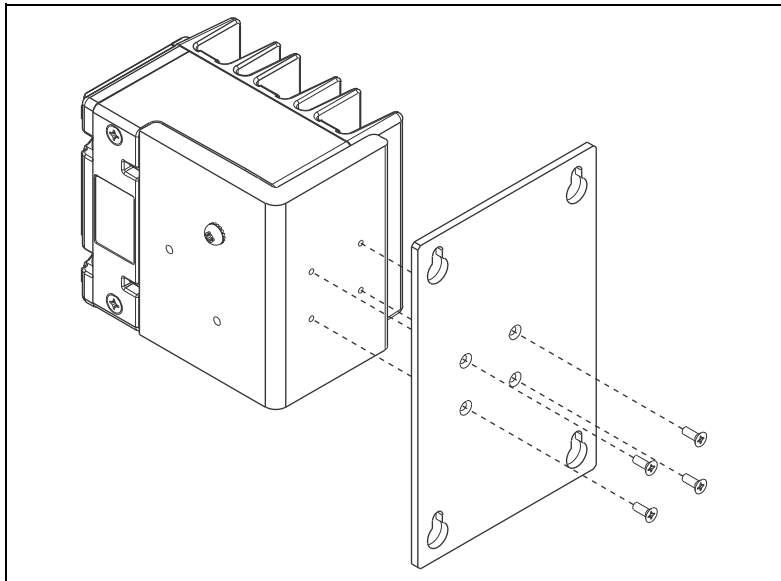


2. Insert one edge of a DIN rail into the deeper opening of the DIN rail clip.
3. Press down firmly on the controller to compress the spring until the clip locks in place on the DIN rail.

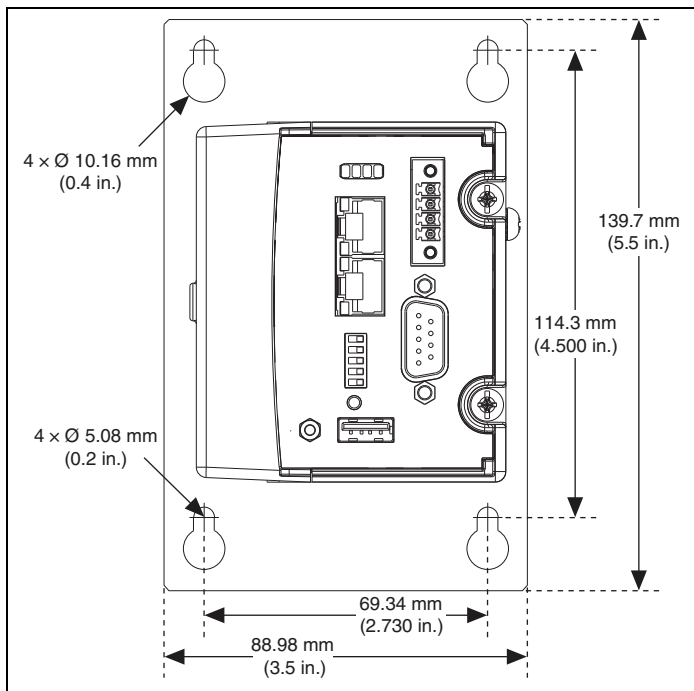


Mounting the Controller on a Panel with the NI 9909

1. Fasten the panel-mount plate to the back of the base using a number 2 Phillips screwdriver and the four $4-40 \times 5/16$ in. countersunk screws shipped with the kit. Tighten the screws to $0.4 \text{ N} \cdot \text{m}$ ($3.6 \text{ lb} \cdot \text{in.}$) of torque. The plate adds 3.18 mm (0.125 in.) to the depth of the controller and base.



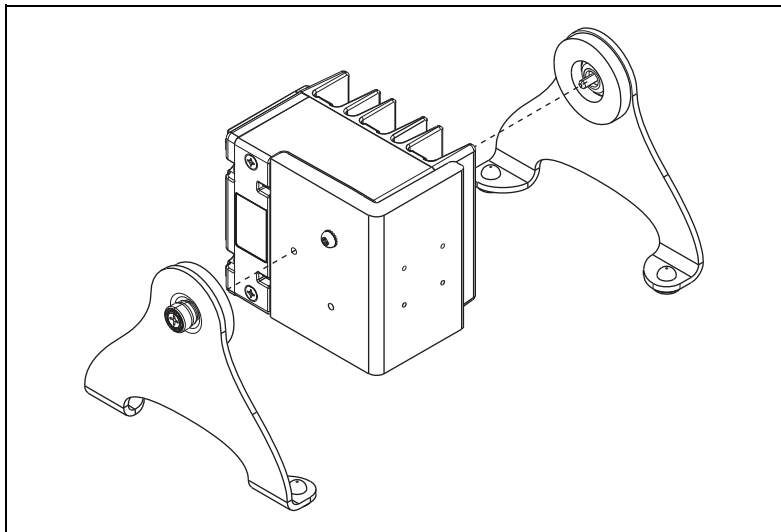
2. Bolt or screw the panel-mount plate to a panel. The following figure shows the dimensions of the controller with the panel-mount plate attached.



Mounting the Controller on a Desk or Table

For desk or table mounting, you need the NI 9901 desktop mounting kit. The NI 9901 includes two legs that attach to the base of the NI 9908 or NI 9909.

Using a number 2 Phillips screwdriver, tighten the captive screws on the two legs into the M4 thread holes in the base. Tighten the captive screws to 1.3 N · m (11.5 lb · in.) of torque.



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