

## R-J3 CONTROLLER INSTALLATION

Installing the R-J3 A-B RIO Interface on the R-J3 controller involves three major steps:

- 1. Setting the R-J3 A-B RIO Interface DIP switches.

Because you cannot access the DIP switches when the board is installed in the controller, you must set them before you install the board in the controller. You can use system variables to see the DIP switch positions when the board is installed.

- 2. Plugging the R-J3 A-B RIO Interface into the R-J3 controller.
- 3. Wiring the serial communication line to the R-J3 A-B RIO Interface.

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### 2.4.1

#### Setting DIP Switches

Before you plug in the R-J3 A-B RIO Interface, you must set the Dual In-line Package (DIP) switches on the interface board. These switch settings must not be modified while the controller is turned on. The DIP switches are accessible only when the PCB is removed from the controller.

The way you set the DIP switches depends on how you want your system to function. There are two banks of DIP switches: Switch 1 and Switch 0. The switch positions are oriented as shown in [Figure 2-2](#), with Switch 0 to the left of Switch 1 as you look at the PCB with the 6-position terminal block to the left.

As it is difficult to determine the DIP Switch positions when the R-J3 mini-slot PCB is installed, the settings for the switch positions have been stored in two system variables for easy access:

- The DIP switches in SW0 are decimal encoded and stored in the system variable \$AB\_INT\_CFG.\$DIP\_SW\_0.
- The DIP switches in SW1 are decimal encoded and stored in the system variable \$AB\_INT\_CFG.\$DIP\_SW\_1.

Refer to Appendix [C](#) for more detailed information on these system variables.

**Figure 2-2 . DIP Switches**

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**Sebastian Brünink**

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