

Installation Instructions 2-5-Mat Junction Box

For Use with Larco AZR Series Controllers or
other Single Mat Input Devices

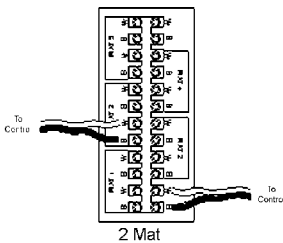
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Step 1. Familiarize Yourself with the Application

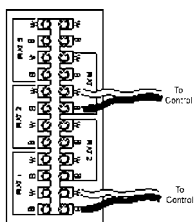
Before beginning, be sure to familiarize yourself with the entire application, including all safety mats and controls. Each component of the installation should have its own installation instructions and associated precautions. You must read, understand and follow these instructions to assure a successful, safe installation. If you are unsure about any aspect of the installation, stop and contact your local supplier or the factory for clarification.

Step 2. Choose Junction Box Location

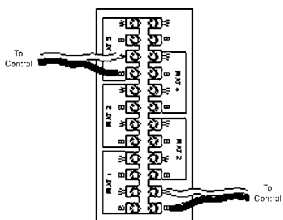
Choose a suitable location for the junction box while taking the entire layout into consideration. The length of wires and the location of the control unit and safety mats along with other factors unique to your application will all contribute to deciding on the best location.



2 Mat



3 Mats



4 Mats

Four mounting holes are located in the bottom corners of the box. They are positioned in such a way that when the box cover is installed, moisture cannot find its way into the interior of the box. If additional holes are drilled through the case to secure the box, they must be sealed to retain moisture resistance.

Step 3. Connect the Wiring

The junction box is designed to electrically join 2-5 Larco safety mats. A four-wire, 20-foot long (6.1 m) cable has been included for connection to the Larco AZR Control or other control device and is already routed through the end of the junction box and wired for a 5-mat installation.

Guide the cable for mat 1 through the moisture tight connector closest to the terminals labeled mat 1. Repeat this step for mat 2 and terminals marked mat 2 and so on until all of the mat cables are routed through the connectors.

Trim the cables to length and remove 1-1/2" (38 mm) of the outer cable jacket to expose the four internal black and white wires. The moisture-tight connectors are designed to seal against the round outer jacket of the four-wire cable. **DO NOT** trim the outer cable jacket back so far that the connector cannot seal the cable. Strip 5/16" (8 mm) from the end of each black and white wire.

Connect the wires as indicated on the terminal strip label, following the black and white designations. Be careful not to insert the wire too far into the terminal strip. This would allow the insulation of the individual wires to prevent a solid electrical connection.

Connect the control cable to the appropriate position for the number of mats used as shown at left, or leave it where it was installed for a 5-mat installation.

Step 4. Seal the Box

Tighten all of the cable connectors to create a moisture-tight barrier. If less than five mats were used, install the seal plugs provided in each unused connector.

Install the box cover with the screws provided to complete the junction box installation.