

# 2-10 Mat Junction Box Installation Instructions



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## For use with Larco MAX Series Controllers or other single mat input devices.

Before beginning, be sure to become familiar with the entire application, including all safety mats and controls. Each component of the installation should have its own installation instructions and associated precautions. Read, understand and follow these instructions to assure a successful, safe installation. Contact ATEK for clarification or questions about installation.

### Directions

- 1 Take the entire layout into consideration when choosing a location for the junction box. Consider the length of the wires, the location of the control unit and the safety mats and other factors unique to your application.

Four mounting holes are located in the bottom corners of the box. They are positioned that when the box cover is installed, moisture cannot enter 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.

- 2 The junction box is designed to electrically join 2-10 Larco Safety Mats. A four-wire, 20-foot long (6.1 m) cable has been included for connection to the Larco MAX Controller or other safety rated control device. It is pre-routed through the end of the junction box and wired for a 10-mat installation.

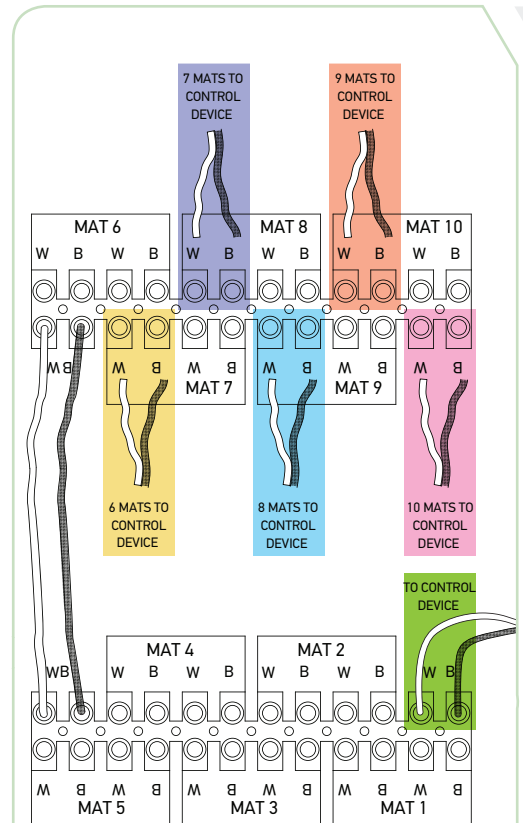
Guide the cable for mat 1 through the moisture tight connector closest to the terminals labeled mat 1. Repeat this step for mat 2 and terminals marked mat 2 and so on until all of the mat cables are routed through the connectors.

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. 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 wiring to the appropriate terminals for the number of mats used, or leave it where it was installed for a 10-mat installation.

- 3 Tighten the cable connectors to create a moisture-tight barrier. Install the seal plugs provided in each unused connector if using less than five mats. Install the box cover with provided screws to complete installation.



#### CONNECT CONTROL WIRES AS SHOWN

6 MATS:		+	
7 MATS:		+	
8 MATS:		+	
9 MATS:		+	
10 MATS:		+	

The black/white wires indicated above are from the supplied 4-conductor cable that runs from the junction box to the MAX Safety Relay or other safety rated control device.

Refer to the **2 - 5 Mat Junction Box Installation Instructions** to connect less than 6 mats. Download at [www.larco.com/support/documents](http://www.larco.com/support/documents)

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