

FIELD INSTALLATION QUICK GUIDE

Installation Instructions

IC694TBB032E

Box Style Screw Terminal Block



PRODUCT	IC694TBB032E
FAMILY	PACSystems RX3i
FUNCTION	Box Style Screw Terminal Block
SOURCE	Emerson GFK-2314V, section 17.1, high-density terminal blocks

01 OFFICIAL MOUNTING AND WIRING

- Use the applicable 36-terminal high-density module and standard-depth cover. Match all field wiring to the module terminal diagram.
- Strip conductors to 7.87 mm and insert them fully so that insulation meets the terminal stop. Tighten the box terminals to 0.79 Nm.
- Press the assembly onto the module and tighten the specified mounting fasteners. Check that the terminal block is fully seated before restoring power.

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17.1.1.2 IC694TBB032 and TBB132 Box-Style Terminal Blocks, 36 Terminals

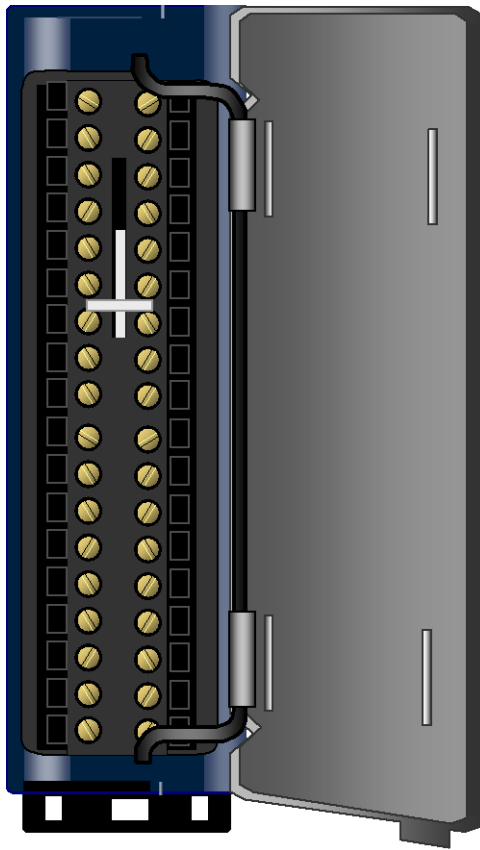


Figure 425: 36-Terminal Box-Style Terminal Block

Box-Style Terminal Blocks, IC694TBB032 and IC694TBB132, are used with high-density PACSystems RX3i modules and equivalent Series 90-30 PLC modules. These terminal blocks provide 36 screw terminals for field wiring to the module.

Terminal Blocks IC694TBB032 and TBB132 are functionally identical. Terminal Block IC694TBB032 comes with a standard-depth outer cover. When installed, it is the same depth as most other PACSystems and Series 90-30 PLC modules.

Extended Terminal Block IC694TBB132 comes with an outer cover that is approximately 13 mm (½ in) deeper than Terminal Block IC694TBB032, to accommodate wires with thicker insulation, such as that typically used with AC I/O modules.

17.1.1.2.1 Specifications: TBB032 and TBB132

Torque	0.79 Nm (7 in-lb)
Wire strip length	7.87 mm (0.310 in)
Wire gauges supported	#14-26 AWG (solid or stranded)

17.1.1.2.2 Connecting Field Wiring to a Box-Style High-Density Terminal Block

The bottom of the terminal block can be used as a gauge for the wire strip length, as displayed in Figure 426. The stripped wire must be fully inserted into the terminal block so that the insulation meets the stop position inside the terminal, and the end of the wire is bent. Tightening the terminal screw raises the wire and clamps it in place.

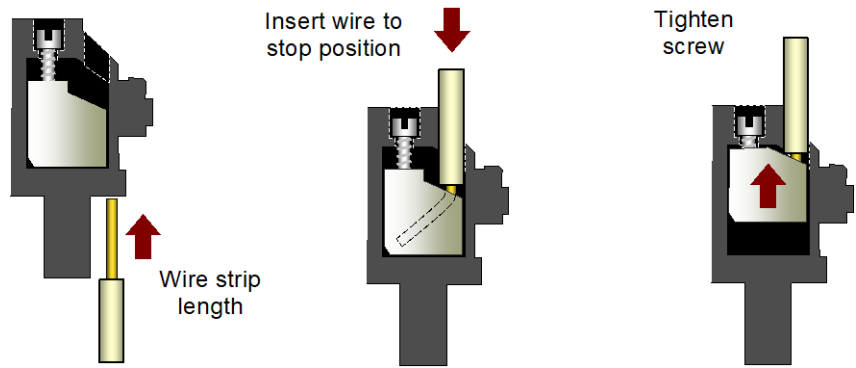


Figure 426: Wire Preparation and Insertion into Box-Style Terminal Block

17.1.1.3 IC694TBS032 and TBS132 Spring-Style Terminal Blocks, 36 Terminals

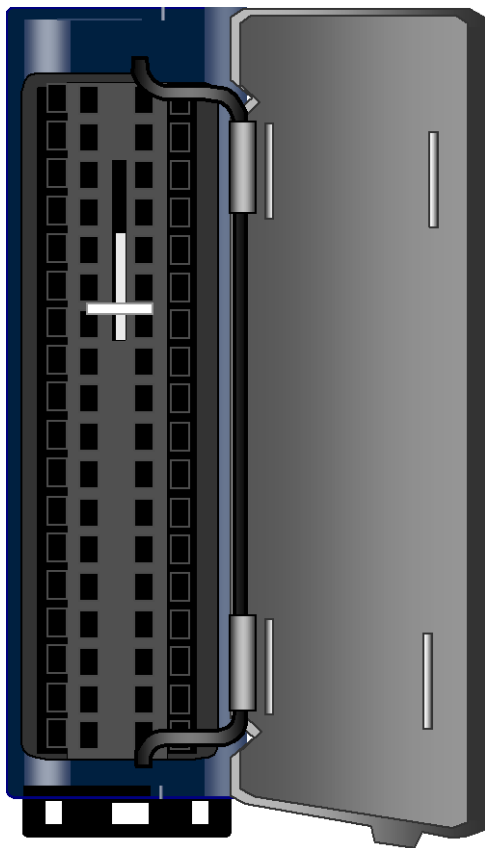


Figure 427: 36-Terminal Spring-Style Terminal Block

Spring-Style Terminal Blocks, IC694TBS032 and IC694TBS132, are used with High-Density PACSystems RX3i modules and equivalent Series 90-30 PLC modules. These terminal blocks provide 36 spring style terminals for field wiring to the module.

Terminal Blocks IC694TBS032 and TBS132 are functionally identical. Terminal Block IC694TBS032 comes with a standard-depth outer cover. When installed, it is the same depth as most other PACSystems and Series 90-30 PLC modules.

Extended Terminal Block IC694TBS132 comes with an outer cover that is approximately ½ inch (13mm) deeper than Terminal Block IC694TBS032, to accommodate wires with thicker insulation, such as that typically used with AC I/O modules.

17.1.1.3.1 Specifications: TBS032 and TBS132

Wire strip length	7.87 mm (0.310 in)
Wire gauges supported	#14-28 AWG (solid or stranded)

17.1.2 Installing and Removing High-Density Terminal Blocks

This section has special installation instructions for High-Density Terminal Blocks. Refer to Chapter 2 for general installation information.

WARNING

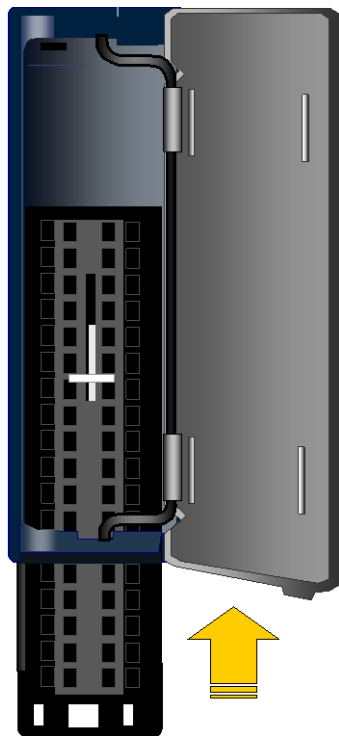
Field power must be turned off when installing or removing a Terminal Block assembly.

17.1.2.1 Installing or Removing the Terminal Block Assembly of a The module

To install or remove the terminal block module assembly

1. Install the small catalog number label (for example: “MDL240”) supplied with the module in the slot on the top of the Terminal Block.
2. Complete the module wiring and secure the wire bundles to the tie downs on the bottom of the Terminal Block.

17.1.2.2 Inserting a Terminal Block in its Cover



- To insert a terminal block in the cover
- 1) Align the top of the Terminal Block with the bottom of the cover, making sure that the notches in the Terminal Block match up with the grooves in the cover.
- 2) Slide the Terminal Block upward until it clicks into place.

Figure 428: Inserting Terminal Block into its Cover

17.1.2.3 Installing a High-Density Terminal Block Assembly

- To install a high-density terminal block assembly
- 1) Press the terminal block assembly straight toward the module until it is partially seated.
- 2) Open the door on the front of the terminal block and push the latch (refer to below) up very firmly until it reaches the top of the slot and clicks into place.
- 3) Check to be sure the terminal block is fully seated.

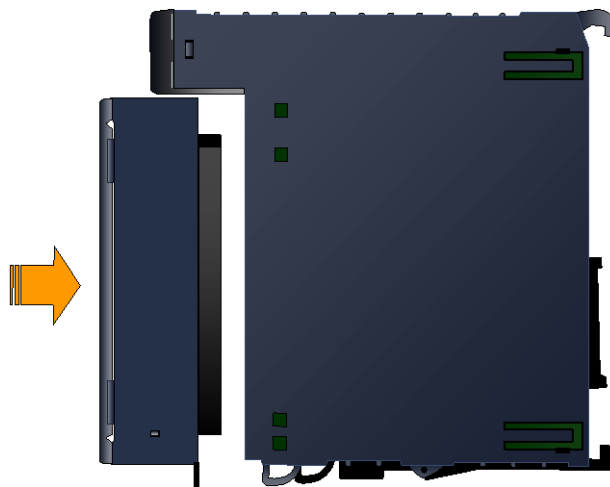


Figure 429: Installing a High-Density Terminal Block