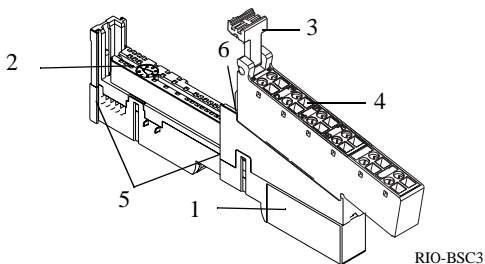


## Installation Instructions

### EH-RIO Wiring Base Assembly (RIO-BSC3 and RIO-BSP3)



|   | Description                |   | Description                     |
|---|----------------------------|---|---------------------------------|
| 1 | Wiring Base                | 4 | Removable Wiring Block (RTB)    |
| 2 | Mechanical Keying (orange) | 5 | Interlocking Side Pieces        |
| 3 | RTB Removal Handle         | 6 | DIN Rail Locking Screw (orange) |

The wiring base consists of a base (1) and a removable terminal block (RTB)(4). The RIO-BSC3 uses screw-clamp termination; RIO-BSP3 uses spring-clamp terminations.

#### Installing the Wiring Base

To install the wiring base on the DIN rail, proceed as follows.

1. Position the wiring base vertically above the installed units (adapter, power supply or existing module).
2. Slide the wiring base down allowing the interlocking side pieces to engage the adjacent module or adapter.
3. Press firmly to seat the wiring base on the DIN rail. The wiring base will snap into place.
4. To remove the wiring base from the DIN rail, remove the module, and use a small bladed screwdriver to rotate the base locking screw to a vertical position. This releases the locking mechanism. Then lift straight up to remove.

#### Installing the Removable Terminal Block

A removable terminal block is supplied with your terminal base. To remove, pull up on the RTB removal handle.



**WARNING: Explosion Hazard** - Do not disconnect or replace component unless power is switched off or area is known to be nonhazardous. Do not pull on the installed wiring to remove a terminal block. A shock hazard exists if power is applied to the terminal block.

This allows the base to be removed and replaced as necessary without removing any of the wiring. To reinsert the removable terminal block, proceed as follows.

1. Insert the end opposite the handle into the base unit. This end has a curved section that engages the wiring base.
2. Rotate the terminal block into the wiring base until it locks itself in place.
3. If an I/O module is installed, snap the RTB handle into place on the module.

### Removing a Wiring Base

In order to remove a wiring base, you must remove any module installed in the base, and any installed module to the right of the base, and remove the removable terminal block (if wired).

1. Squeeze the module locking mechanism and pull up to remove the module(s).
2. Remove the removable terminal block (if wired).
3. Turn the wiring base locking screw to a vertical position to unlock the base from the DIN rail.
4. Slide the wiring base up to release it from its mating units.

Refer to the user manual for keying information, specifications and how to configure your module.

#### Specifications - RIO-BSC3 (screw-clamp) and -BSP3 (spring-clamp)

##### General Specifications

|   |                         |  |
|---|-------------------------|--|
| Field Power Bus<br>Supply Voltage<br>Supply Current |                         | 28.8V dc, 120/240V ac<br>10A maximum   |
| Dimensions  | Inches<br>(Millimeters) | 2.56H x 0.472W x 6.25L<br>(65H x 12W x 160L)   |
| Environmental Conditions                            |                         |  |
| Operational Temperature                             |                         | -20 to 55°C (-4 to 131°F)  |
| Storage Temperature                                 |                         | -40 to 85°C (-40 to 185°F)   |
| Relative Humidity                                   |                         | 5 to 95% noncondensing   |
| Shock   | Operating               | 30g peak acceleration, 11(±1)ms pulse width  |
|   | Non-operating           | 50g peak acceleration, 11(±1)ms pulse width  |
| Vibration   |                         | Tested 5g @ 10-500Hz per IEC 68-2-6  |
| Conductors  | Wire Size               | 14 AWG (2.5mm <sup>2</sup> ) - 22 AWG (0.25mm <sup>2</sup> ) solid or stranded<br>maximum<br>3/64 inch (1.2mm) insulation maximum          |
| Terminal Base Screw Torque                          |                         | 5-7 pound-inches (0.5-0.6Nm)   |
| Mass  |                         | RIO-BSC3 - 3.44 oz/97.5 grams<br>RIO-BSP3 - 3.07 oz/87.0 grams   |
| Agency Certification (when product is marked)       |                         | cUR <sub>US</sub> marked by Underwriters Laboratories<br>CE marked for all applicable directives<br>C-Tick marked for all applicable acts. |

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