

Power Supply Booster Carrier

October 2008

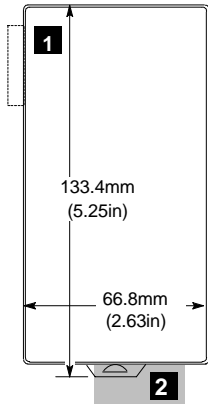
GFK-1518A

Preinstallation Check

Carefully inspect all shipping containers for damage. If any equipment is damaged, notify the delivery service immediately. Save the damaged shipping container for inspection by the delivery service. After unpacking the equipment, record all serial numbers. Save the shipping containers and packing material in case it is necessary to transport or ship any part of the system.

Installation

The Power Supply Booster Carrier IC200PWB001 / BXIOCPS100 can be used to mount an additional power supply in sequence with other module carriers. A power supply mounted on a booster carrier provides power to all I/O modules to its right, or until the next booster power supply. The AC or DC Power Supply on the CPU or NIU and the Power Supply that resides on the Booster Carrier must share the same external power source.



Modules must be mounted on a horizontal DIN rail.

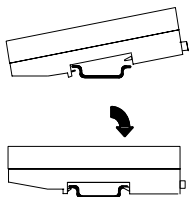
- 1 Mating base connector
- 2 Allow adequate space for power wiring.

The Power Supply Booster Carrier with power supply attached fits into a 70mm deep enclosure.

Installation in Hazardous Locations

- EQUIPMENT LABELED WITH REFERENCE TO CLASS I, GROUPS A, B, C & D, DIV. 2 HAZARDOUS LOCATIONS IS SUITABLE FOR USE IN CLASS I, DIVISION 2, GROUPS A, B, C, D OR NON-HAZARDOUS LOCATIONS ONLY
- WARNING - EXPLOSION HAZARD - SUBSTITUTION OF COMPONENTS MAY IMPAIR SUITABILITY FOR CLASS I, DIVISION 2;
- WARNING - EXPLOSION HAZARD - WHEN IN HAZARDOUS LOCATIONS, TURN OFF POWER BEFORE REPLACING OR WIRING MODULES; AND
- WARNING - EXPLOSION HAZARD - DO NOT DISCONNECT EQUIPMENT UNLESS POWER HAS BEEN SWITCHED OFF OR THE AREA IS KNOWN TO BE NONHAZARDOUS.

Installing the CPU on a DIN Rail



Connecting carriers must be installed on the same section of 35mm x 7.5mm DIN rail. The rail must have a conductive (unpainted) finish for proper grounding. For best resistance to vibration, the DIN rail should be installed on a panel using screws spaced approximately 6 inches (5.24cm) apart.

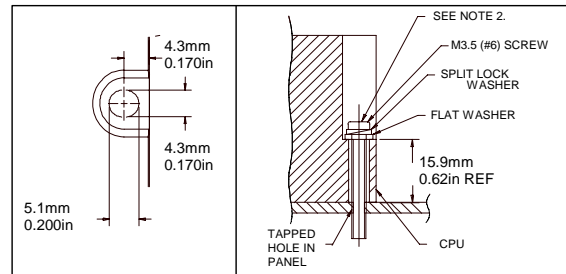
The carrier snaps easily onto the DIN rail. No tools are required for mounting or grounding to the rail.

Panel-Mounting

For applications requiring maximum resistance to mechanical vibration and shock, the carrier must also be panel-mounted.

Note 1. Tolerances on all dimensions are +/- 0.13mm (0.005in) non-cumulative.

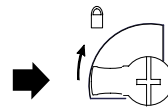
Note 2. 1.1-1.4Nm (10-12 in/lbs) of torque should be applied to M3.5 (#6-32) steel screw threaded into material containing internal threads and having a minimum thickness of 2.4mm (.093in).



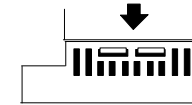
Removing the Carrier from the DIN Rail

1. If the carrier is attached to the panel with a screw remove the screw.
2. If the carrier is installed between other carriers, it will be necessary to move the other carriers along the DIN rail to disengage the mating connectors on both sides of the carrier being removed.
3. Slide the carrier along the DIN rail away from the other modules until the connector disengages.
4. With a small flathead screwdriver, pull the DIN rail latch tab outward while tilting the other end of the module down to disengage it from the DIN rail.

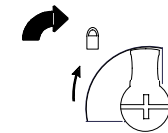
Installing the Power Supply



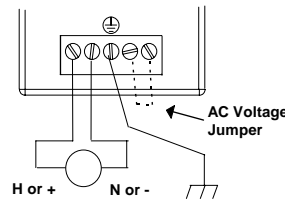
The latch on the power supply must be in the unlocked position, as illustrated.



Align the connectors and the latch post and press the power supply module down firmly, until the two tabs on the bottom of the power supply click into place. Be sure the tabs are fully inserted in the slots.



Turn the latch to the locked position to secure the power supply.



Connect power wiring as marked on the power supply. For an AC power supply, be sure to follow the instructions for installing a voltage-selection jumper in the power supply documentation. The power supply documentation also provides information about installing suppression.

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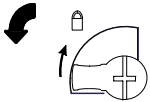
LEDs

During operation, the two LEDs on the Power Supply Booster Carrier indicate its status.

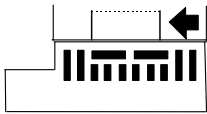
- PWR** Indicates that the attached booster power supply is functioning properly.
- OK** Indicates that the CPU or NIU and attached booster power supply are functioning properly.

Removing the Power Supply

Exercise care when working around operating equipment. Devices may become very hot and could cause injury.



1. Remove power.
2. Turn the latch to the unlocked position as illustrated.



3. Press the flexible panel on the lower edge of the power supply to disengage the tabs on the power supply from the holes in the carrier.
4. Pull the power supply straight off.

Product Revision Information

Rev	Date	Description
IC200PWB001-E BXIOCPS100-E	October 2008	Updated Power Supply OK signal circuitry.