

Configuration

There are no jumpers or hardware settings on the terminal board.

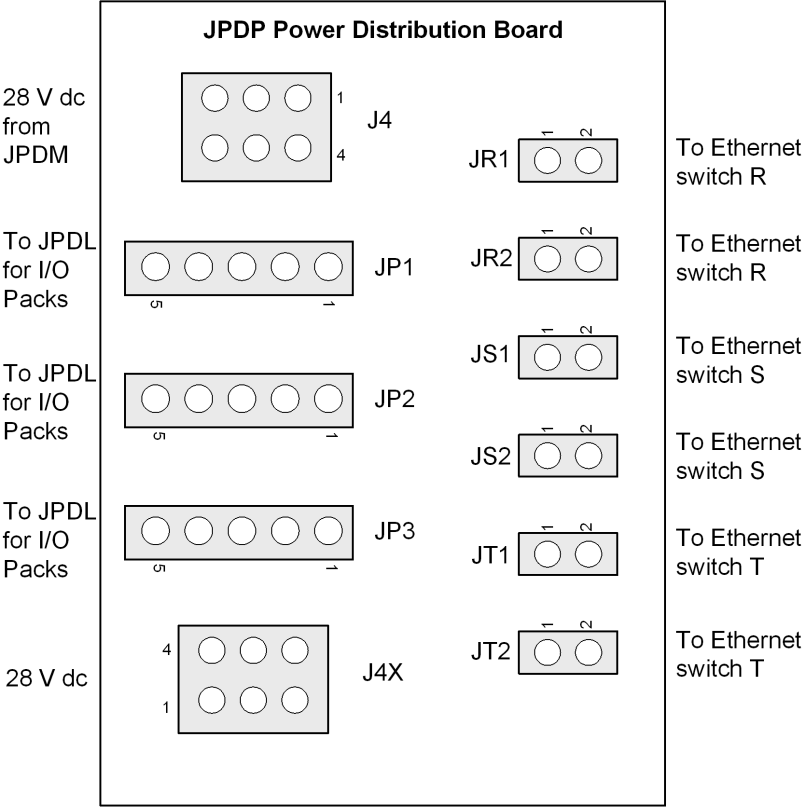
JPDP Local Power Distribution

Functional Description

The Local Power Distribution (JPDP) board provides intermediate 28 V dc power distribution from the JPDM board to multiple JPDL boards for further distribution to the I/O packs. JPDP also optionally provides power to Ethernet switches.

Installation

JPDP mounts in a plastic holder, which fits on a vertical DIN-rail next to other power distribution boards. Power input and output cables have Mate-N-Lok connectors. For cable destinations, refer to the circuit diagram.



Plastic support tray for DIN-rail mounting

JPDP Wiring and Cabling

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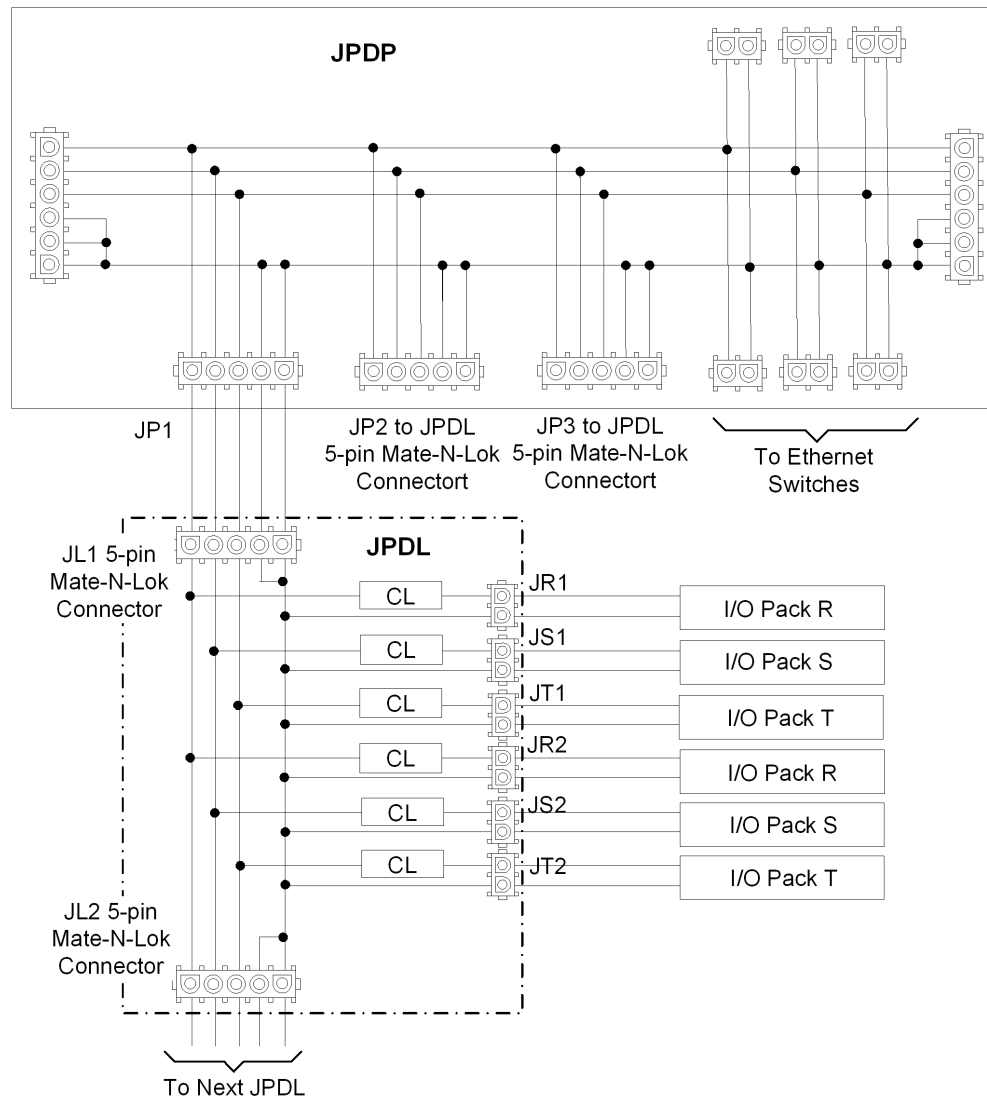
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The following figure explains how the 28 V dc power is distributed in JPDP, and how it reaches the I/O packs and the Ethernet switches.



JPDP Simplified Circuit Diagram with JPDL

Inputs

Input power is typically 28 V dc, received from the JPDM (referred to as Pbus). The 6-pin Mate-N-Lok input connector receives three separate Pbus feeds from JPDS for triple redundancy. The feeds are designated Red, Blue, and Black.

Outputs

Three identical output circuits provide power feeds to JPDL boards. Each JPDL output uses a 5-pin Mate-N-Lok connector. Three of the five pins are for Red, Blue, and Black. The other two pins are for Pbus return.

Six identical outputs are provided for Ethernet switches. Two connectors are dedicated to each of the three feeds (red, blue, and black).

Specifications

Item	Description	
Inputs	One 6-pin connection with three separate 28 V dc Pbus feeds	Red, Blue, Black, and Return
Outputs	Six 2-pin connections for Ethernet Switches Three 5-pin connections for JPDL boards, feeding I/O packs One 6-pin connection with three separate 28 V dc Pbus feeds	2 Red, 2 Blue, 2 Black Each one Red, Blue, Black, and Return Red, Blue, Black, and Return
Temperature	-30 to 65°C (-22 to 149 °F)	
Board Size	15.875 cm high x 10.795 cm wide (6.25 in x 4.25 in)	
Mounting	DIN-rail, card carrier mounting Base mounted steel bracket, 4 holes	

Diagnostics

No diagnostic features are provided on this module.

Configuration

There are no jumpers or hardware settings on the terminal board.

JPDS 28 V Power Distribution

Functional Description

The 28 V Power Distribution (JPDS) board receives 28 V dc input power from external ac/dc or dc/dc converters and distributes power to the control system. JPDS integrates into the PDM system feedback offered through the PPDA I/O pack.

Compatibility

The IS200JPDS board is compatible with the feedback signal P1/P2 connectors on JPDB, JPDE, and JPDE leading to a PPDA I/O pack. The DC-62 connector on JPDS is compatible with the IS220PPDA I/O pack.

Installation

JPDS mounts in a metal holder, which fits on a vertical DIN-rail next to other power distribution boards. Optionally, JPDS is also available with a metal holder designed for direct mounting. Refer to the wiring diagrams for power input and output routing. There is a 50-pin diagnostic connector mounted on the top and bottom of the board.

Grounding

The IS200JPDS board is grounded through the sheet metal bracket to the underlying back base. In most cases, this can be the system FE.