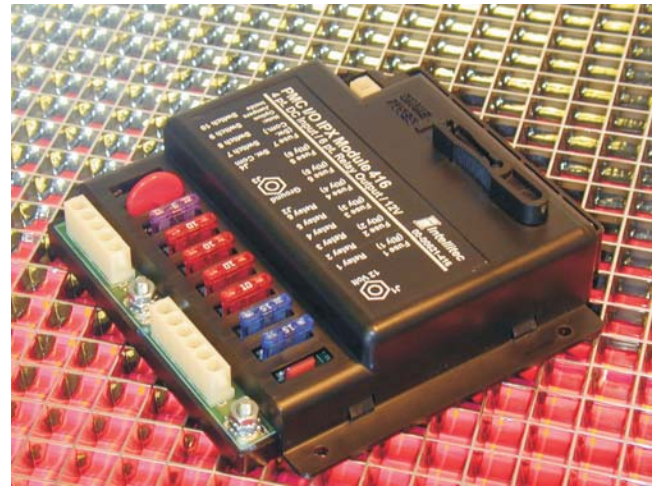


The PMC I/O Module 406/416 is a member of Intellitec's Programmable Multiplex Control family. It works in combination with the PMC CPU and other standard, semi-custom, or custom I/O modules.

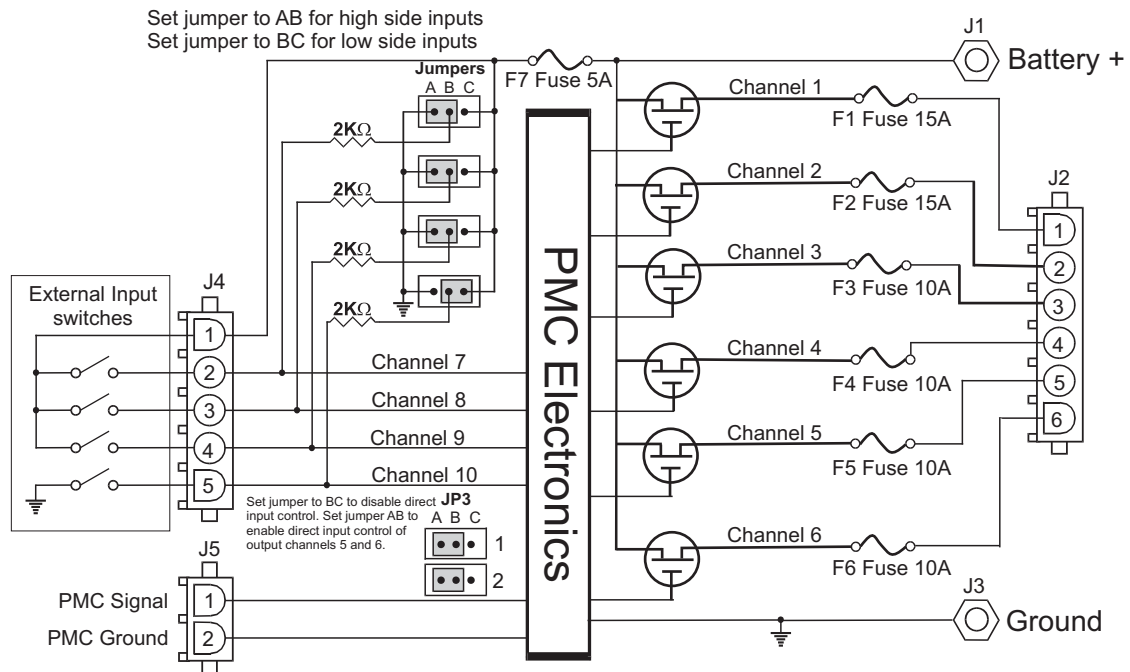
The 406/416 provides power fusing, switching, and distribution in one module. It has two, 15 amp SPST relays and four, 10 Amp SPST relays for switching loads to the battery. Each fuse position can be filled with a fuse, or circuit breaker. The total module current should not exceed 50 Amps.

There are four input connections for rocker, limit, or sensor switches. Each individual input can be configured as either a low side switch to ground, or a high side switch to battery. Input information is directly communicated to the CPU and the relays are controlled by the CPU via the PMC communications link. All of the output harnesses are connected with AMP Mate-N-Lok connectors to reduce installation time and errors.

The approximate module dimensions are 6.375" X 6.250" X 1.875" (16.2mm X 15.9mm X 4.8mm). *It should be installed in a protected environment, inside the vehicle.*



PAT NO. 4,907,222 & 6,011,997



## DIRECT CONTROL

Jumper block JP3 provides for direct input control of output channels 5 and 6, for this module only. If the jumper JP3-1 is moved from the BC position to the AB position, output channel 5 will be controlled directly from input channel 7 on this module. Booleans written for this channel will have no effect. If jumper JP3-2 is moved to the AB position, output channel 6 will be controlled directly from input channel 8 of this module. This function eliminates the CPU's processing time for the channel involved.

## SPECIFICATIONS

### General Connections

|                         |                                            | 00-00621-416               | 00-00621-406 |
|-------------------------|--------------------------------------------|----------------------------|--------------|
| Nominal Vehicle Voltage |                                            | 12V                        | 24V          |
| J1                      | + 12 Volts                                 | Module Current 50 Amps Max | 50 Amps Max  |
| J3                      | Ground                                     |                            |              |
| J4-1                    | Fuse #7 Power for Positive switched inputs | 3 Amps Max                 | 3 Amps Max   |
| J5-1                    | PMC Signal                                 | 18 awg Min                 | 18 awg Min   |
| J5-2                    | PMC Ground                                 | 14 awg Min                 | 14 awg Min   |

## CHANNEL DESIGNATIONS

| Channel | Connection | Type                            | Name           | Rating              |
|---------|------------|---------------------------------|----------------|---------------------|
| 1       | J2-1       | Relay Output, Form A (SPST),(1) | Relay 1 Fuse 1 | 15 Amp Max          |
| 2       | J2-2       | Relay Output, Form A (SPST),(1) | Relay 2 Fuse 2 | 15 Amp Max          |
| 3       | J2-3       | Relay Output, Form A (SPST),(1) | Relay 3 Fuse 3 | 10 Amp Max          |
| 4       | J2-4       | Relay Output, Form A (SPST),(1) | Relay 4 Fuse 4 | 10 Amp Max          |
| 5       | J2-5       | Relay Output, Form A (SPST),(1) | Relay 5 Fuse 5 | 10 Amp Max          |
| 6       | J2-6       | Relay Output, Form A (SPST),(1) | Relay 6 Fuse 6 | 10 Amp Max          |
| 7       | J4-2       | Input, Positive or Negative     | Switch 1       | 2K Input Resistance |
| 8       | J4-3       | Input, Positive or Negative     | Switch 2       | 2K Input Resistance |
| 9       | J4-4       | Input, Positive or Negative     | Switch 3       | 2K Input Resistance |
| 10      | J4-5       | Input, Positive or Negative     | Switch 4       | 2K Input Resistance |

Note 1: Relay provides a fused source of voltage to the Load from the Battery.

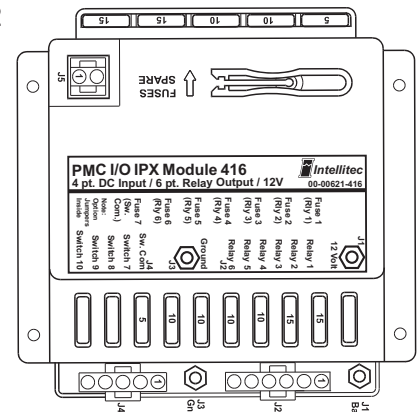
## MATING CONNECTIONS

| Designator | Function | Connector            | Mating Part # | Contact, Typical            |
|------------|----------|----------------------|---------------|-----------------------------|
| J1         | Battery  | #10/32 Ring Term     |               | for 14-18 AWG for 10-12 AWG |
| J2         | Outputs  | 6 Pin Amp Mate-N-Lok | 640585-1      | 350919-3 640310-3           |
| J3         | Ground   | #10/32 Ring Term     |               |                             |
| J4         | Inputs   | 5 Pin Amp Mate-N-Lok | 1-480763-0    | 350919-3 640310-3           |
| J5         | PMC/Com  | 2 Pin Amp Mate-N-Lok | 1-480698-0    | 350919-3 640310-3           |

## MODULE SETTINGS

Module can be set for 1 of 16 address. Set four jumpers on jumper block JP2 per table to the right. X = Jumper is out.

| JUMPERS | MODULE  | JUMPERS | MODULE  |
|---------|---------|---------|---------|
| 4 3 2 1 | Address | 4 3 2 1 | Address |
| 0 0 0 0 | A       | X 0 0 0 | I       |
| 0 0 0 X | B       | X 0 0 X | J       |
| 0 0 X 0 | C       | X 0 X 0 | K       |
| 0 0 X X | D       | X 0 X X | L       |
| 0 X 0 0 | E       | X X 0 0 | M       |
| 0 X 0 X | F       | X X 0 X | N       |
| 0 X X 0 | G       | X X X 0 | O       |
| 0 X X X | H       | X X X X | P       |



Four inputs labeled Switch 1 - 4 can be individually set for either positive (high-side) switched to the battery, or negative (low-side) switched to ground. Setting a jumper to short pins AB selects positive switch. Setting a jumper to short pins BC selects negative switch.

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