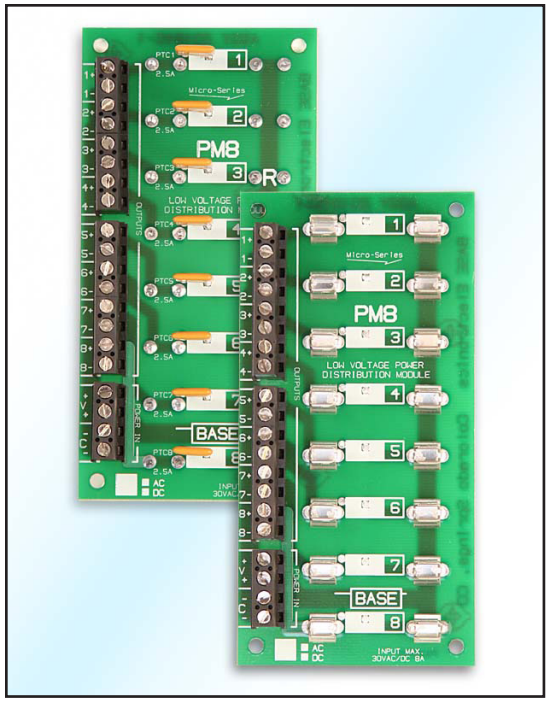
PM8 / PM8R Low Voltage Power Distribution Module

Installation and Operations Manual

Micro-Series



Features

- *Distributes Low Voltage Power through 8 Fused Outputs*
- *For operation to 30V AC/DC, 8 Amps*
- *Small Footprint PCB - 2.5"w x 5.0"h*
- *Includes Mounting Hardware*

PM8	Includes (8) 2.0 A replaceable fuses, standard 3AG (¼" x 1 ¼")
PM8R	Includes (8) 2.5 A PTC auto-resettable fuses

WARNING Turn off all power feeding the module terminals before servicing or changing input/output wiring, removing or replacing fuses, etc. Failure to observe this warning may cause electrical shock hazard or may damage internal or external circuit components.

Install in accordance with all applicable sections of the National Electrical Code and other State or Local Regulations.

INSTALLATION

Locate the unit inside an enclosure close to the source power supply. Drill or punch (4) 0.187" diameter holes (3/16) to match the (4) corner holes in the printed circuit board. Push the nylon standoffs supplied into each hole and snap the module into place.

POWER SUPPLY WIRING

Connect the low voltage power supply input leads to the power input terminals at the lower left side of the module. Use a minimum of 18AWG conductors for this wiring and keep the length to the power supply as short as possible. Two terminals for each power input conductor are provided to enable the power to be daisy-chained on to the next module if needed.

'V+' = DC+ or one side of low voltage AC.
'C-' = DC Common or the other side of low voltage AC

OUTPUT WIRING

The maximum recommended operating current at any single PM8 output should not exceed 2.5 Amps. The maximum recommended total operating current (all outputs added) should not exceed 8 Amps.

'1+' = the fused output terminal (+ when using a DC voltage)
'1-' = DC Common or the other side of low voltage AC

VOLTAGE LABELING

For future reference the input source voltage used can be written on the PM8 with a fine point marker in the Voltage ID Area - the small white square provided below the power input terminals - then put a dot in the AC or DC box.

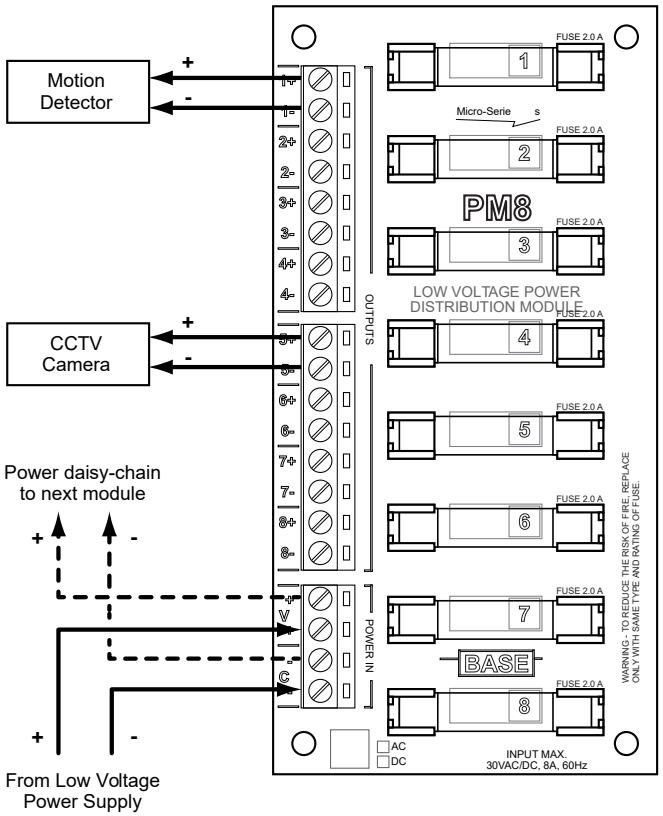


Figure 1.0 - PM8 / PM8R Wiring Diagram
(PM8 shown - same for PM8R)

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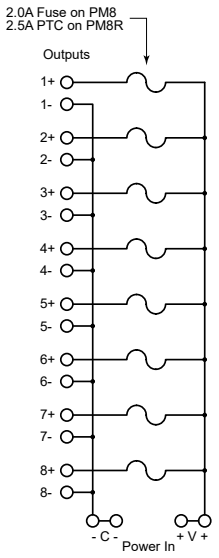
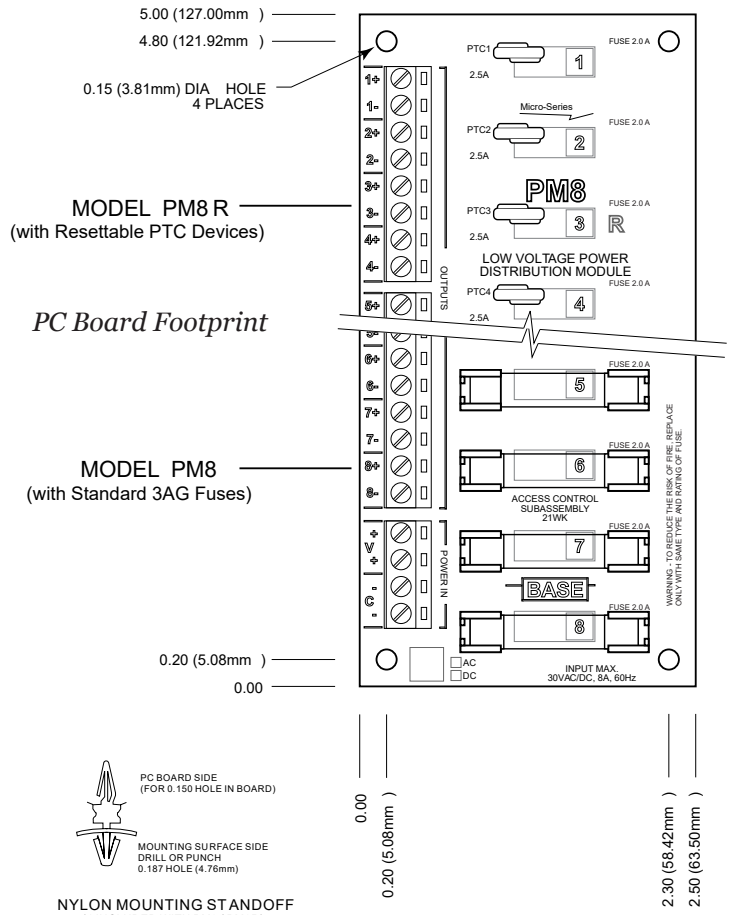


Figure 2.0 - PM8 / PM8R Schematic Diagram



PM8 / PM8R Specifications

- Indoor Temperature Range: 0° C. to +49°C.
- Electrical
  - Maximum Voltage AC/DC: 30V
  - Maximum Total Current: 8A
  - Maximum Recommended Current per Output: 2.5A
  - Connections: Captive Captive Screw Terminals for #14 to #22AWG Wire
- Size: 2.50 (63.50) wide by 5.00 (127.00) [inches (mm)]
- Mounting: (4) 1/4 inch high nylon standoffs included
- Models
  - PM8 Includes 8 replaceable 2.0A fuses.
  - PM8R Includes 8 PTC resettable 2.5A fuses.
- Other related BASE products
  - MAC8 Multi Access Controller
  - LV Series Power Distribution Modules
  - Custom Prewired Power Cabinet Assemblies

FUSE REPLACEMENT

Replace fuses on the PM8 only with similar 3AG-type fuses, slow or fast blow, with a current trip rating of 2.0 Amps or less if desired.

Understanding PTC Resettable Fuses

When an overcurrent condition occurs on a PTC protected output, the PTC device will heat and its resistance will increase, thus limiting current flow. When tripped, though current will be reduced, the circuit is not open (like it is with a blown fuse), and a digital meter on the output will likely and normally indicate some voltage and current flow, which is necessary to maintain the tripped condition of the PTC. Trip time may vary from miliseconds to even minutes depending on the nature of the overcurrent condition.

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Limited Warranty

The PM8 / PM8R is warranted by BASE Electronics against manufacturing defects in materials and workmanship for a period of 2 years from date of purchase. During this period, any warranty repair required will be made at no charge for parts or labor. This warranty does not apply to any work or materials provided by any outside persons or technicians involved in the installation, unauthorized repair, connection, or testing of this product. This warranty does not cover any damage or failure caused by or attributable to Acts of God, abuse, misuse, improper or abnormal usage, faulty or improper installation or maintenance, neglect or accident. BASE Electronics is not responsible or liable for any special, consequential or indirect damages resulting from or in connection with the use or performance of this product as pertaining to economic loss, property loss, costs for removal or installation, or loss of revenues or profit. Except as provided herein, BASE Electronics makes no expressed or implied warranties. The duration of product performance for its intended purpose is limited to the duration set forth herein.

For Warranty or other repair, send the product postage prepaid to BASE Electronics and include Sender's name, company, address, phone and brief problem description. BASE Electronics will notify sender of any required repair costs not covered under this warranty prior to making such repairs.

This Warranty gives you specific legal rights. You may have other rights that vary from state to state.