

MSC/MSP Family

Model SPS-4W POWER SUPPLY

INPUT: 85 - 250Vac, 50/60Hz
OUTPUT: 24Vdc@170mA Max., 4Watts

SensorPulse model SPS-4W power supply is a general purpose DIN rail mounted DC power supply for any application requiring up to 170mA, 24Vdc unregulated power. It is an ideal source to provide loop power for two-wire transmitters, as well as alarms and indicators.

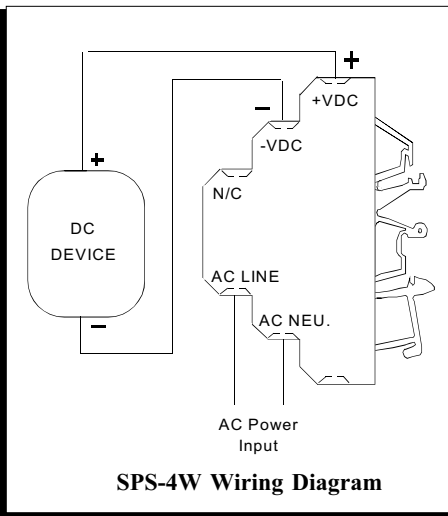
The SPS-4W's 12mm wide DIN rail terminal block package size matches that of SensorPulse Corp.'s MSC and MSP family of DIN rail mountable single channel signal conditioners and PLC analog I/O modules. Its small size and powerful output will meet the power requirements of a host of discreet devices.

REQUIREMENTS

Supply Voltage: 85Vac to 250Vac 50/60Hz

INSTALLATION

1. Mount the SPS-4W unit on standard TS32 or TS35 DIN-rail.
2. Connect 85 to 250VAC power source to SPS-4W unit: (See wiring diagram)
 AC source to terminals labeled
 AC LINE and AC NEU
3. Connect external loop or device to SPS-4W unit: (See wiring diagram)
 Positive Output Voltage available at
 terminal labeled +VDC
 Negative Output Voltage available at
 terminal labeled -VDC



SPECIFICATIONS

Input Power: 85Vac to 250Vac, 50/60Hz
 Output Voltage/Current Rating: 24Vdc/170mA
 Output Power: 4W
 Over Voltage Protection: Auto Reset
 Over Current Protection: Auto Reset
 Rise Time: 300 ms max
 Input Fluctuation: 1.0% max
 Load Fluctuation: 5% max
 Ripple Voltage: 6% p.p. max
 Operating Temp.: -20 to +75°C
 Storage Temp.: -30 to +85°C
 Operating Humidity: 20 to 90% RH
 LEDs: Active indicator
 Mounting: 32 and 35mm DIN Rail & G Rail
 Dimensions: 75mm H X 12.2mm W X 60 mm D
 (2.95" X 0.485" X 2.5"), 24 modules can be installed
 per linear foot of DIN Rail
 Maximum Wire Size: 14 AWG
 Weight: 1.6 oz



INSTALLATION AND SAFETY GUIDANCE NOTES

Warning: This unit is protected against abnormally high and low voltages. Marginally low voltages, marginally high voltages and power fluctuations for extended periods of time can cause permanent damage.

Caution: When installing the unit's wiring do not over-tighten the wiring terminal set screws. Turn set screw until wire's resistance is encountered and wire is securely captured. Over tightening will cause damage to the unit.

Environment - SensorPulse Corp. products are designed to operate reliably and safely in their specified environment. However the following guidelines must be followed to ensure Safety, Electromagnetic Compatibility and Performance.

- Products have been tested for the Industrial Environment (BS EN 50081-2 and 50082-2) unless otherwise stated. Operation in any other environment is not guaranteed and at the risk of the User.
- The User is required to suppress high energy transients, such as those caused by lightning strikes, unless the product is specified for such purposes. Non-resistive loads and contact arcing must be suppressed at source.
- Products are intended for installation inside an equipment cabinet or suitable enclosure unless otherwise specified. This should be accessible only to qualified personnel during commissioning and maintenance. Open chassis products for use above 50V should only be accessible by the removal of a cover using a key or tool.
- Anti-static precautions and conventional Instrumentation best practice must always be observed. Each active module should be protected by a suitably rated fuse or equivalent protection device.

Product EMC Performance - The performance of SensorPulse Corp. products that fall within the scope of the EMC directive will meet the requirements of the relevant performance criteria as determined by the particular tests listed in the EMC standards. Products may temporarily be affected by the application of some electromagnetic disturbances but will return to published specification thereafter. Individual product details on request.

Directives - SensorPulse Corp. products are intended for installation by qualified personnel into a larger piece of equipment or system and are not accessible by the operator or that equipment or system under normal use. They do not contain any moving parts as defined by the Machinery Directive and do not fall within the scope of either the Machinery Directive or the Low Voltage Directive unless other stated. The responsibility for the final equipment or system lies with the builder of that equipment or system. It is the duty of the system designer or installation engineer to ensure that our products are used in accordance with our instructions and that current safety, wiring and other relevant regulations are followed.

WARRANTY -- Manufacturer (SensorPulse Corp.) warrants that its product, under normal use and specified use, is free from defects and poor workmanship for a period of twelve (12) months from the date of shipment from the SensorPulse factory. SensorPulse makes no other warranties or representations express or implied, whether of merchantability, suitability or fitness for a particular purpose or otherwise

SensorPulse quality products were designed, and are manufactured with tight tolerance specifications. Any attempt to repair or otherwise modify SensorPulse products will result in the termination of all warranty benefits. Although SensorPulse may choose to repair a product returned under warranty, it will not attempt to repair products that are beyond the warranty period. Evaluation and repair costs of product beyond the warranty period would likely exceed replacement costs. As such, SensorPulse supports the policy of "repair by replacement".



RETURNING MATERIAL TO THE MANUFACTURER -- Should it become necessary to return any material to the manufacturer (SensorPulse Corp.), a Return Authorization (RA) number must first be obtained. Telephone SensorPulse at 800-447-5900 or 508-230-9000 or Fax 508-230-9090 to request an RA#. Be prepared to: (1) Identify the material to be returned (model, SN, sales order#); (2) Detail the reason for the return; (3) Describe the "next step" expectations from SensorPulse; (4) Provide a Purchase Order, if a replacement is requested prior to the receipt of the return -- even if it is believed that the return is covered under warranty.

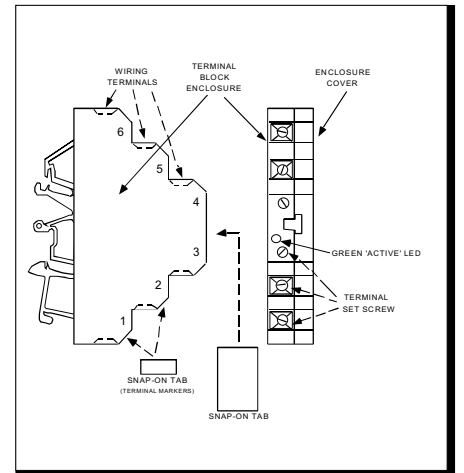
When returning material to SensorPulse, the RA# must be included on all shipping documents and prominently displayed on the outside of the shipping container -- this will reduce your turn around time.

LIMITATION OF LIABILITY -- Buyer and/or end users sole remedy shall be the repair or replacement of the defective product with any damages limited to the purchase price of the product. In no event shall manufacturer have any liability for the direct, indirect, special, consequential or incidental damages, including but not limited to loss of profits, use or production, or for another claim for damages whether based or claimed in contract, warranty, negligence, strict liability, indemnification or otherwise.

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F.C.C. STATEMENT -- This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if into installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to correct the interference by one or more of the following measures: (1) Reorient or relocate the receiving antenna; (2) Increase the separation between the equipment and receiver; (3) Connect the equipment into an outlet on a circuit different from that to which the receiver is connected; (4) Consult the dealer or an experienced radio/TV technician for help.



For order entry, application, or customer service assistance, call toll-free 800-447-5900

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