



## Data Sheet: SSS-88LA

### Solid State Loadswitch:

#### **Description:**

The PDC SSS-88LA Solid State Loadswitch is a tri-pack solid state relay package designed specifically for the Traffic Control Industry. This unit meets NEMA specification TS1-1983, section 5 as well as the California Department of Transportation "Model 200" specifications Los Angeles County "Model 200" specifications.

Each switch will turn it's rated load ON or OFF within 10 deg. of the first zero cross-over point & within 5 deg. on succeeding alterations randomly timed input command signal.

The electronics are enclosed in a dust resistant, metal enclosure providing mechanical protection and excellent heat sinking for the heat generating components in the circuit. The electronic components are easily accessible by removing the cover with a screwdriver.

#### **Installation:**

The switchpac inter mates with any standard NEMA loadbay or with the model 332 cabinet output file. It is easily installed or removed by grasping the handle. Connector P1 pin outs are shown in FIG 1. The connector mates with a PDC BCS-12 or equal.

| PIN | FUNCTION                   |
|-----|----------------------------|
| 1   | +115VAC, 60 Hz             |
| 2   | Chassis Ground             |
| 3   | A Output (Red, Don't Walk) |
| 4   | Not Assigned               |
| 5   | B Output                   |
| 6   | A Input (Red, Don't Walk)  |
| 7   | C Output (Green, Walk)     |
| 8   | B Input (Yellow)           |
| 9   | +24 VDC                    |
| 10  | C Input (Green, Walk)      |
| 11  | Not Assigned               |
| 12  | Not Assigned               |

P1  
(P1 as viewed from the outside of the product looking directly at the connector)

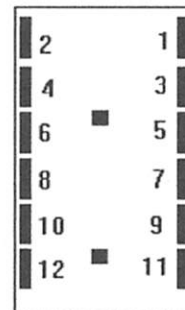


FIG 1.

#### **General Characteristics:**

|                          |                              |  |
|--------------------------|------------------------------|--|
| Load                     | voltage.....                 | 120 VAC  |
|                          | current (max).....           | 15.0 Amps  |
| (Tungsten Filament Load) |                              |  |
| Control Signal           | voltage.....                 | +24VDC   |
|                          | current .....                | 20.0 MA (max)  |
| Switching                | 1st alternation after.....   | $\pm 10$ Degrees of line voltage at the zero signal is applied. crossover point. |
|                          | Succeeding alterations.....  | $\pm 5$ Degrees of line voltage at the zero crossover point.                     |
| Off State                | dv/dt.....                   | 100 V per microsecond  |
|                          | line to load resistance..... | 15 K Ohms Min  |
|                          | leakage current.....         | less than 20 MA  |
| Isolation                | voltage.....                 | 2500 VDC Min   |
|                          | resistance.....              | 10 Meg Ohms Min  |
| Surge Current            | one cycle.....               | 175 Amps RMS Min   |
|                          | one second.....              | 40 Amps RMS Min  |
| Life                     | operations.....              | 30 million Min   |
| Mechanical               | length.....                  | 8.40 inches  |
|                          | width.....                   | 1.74 inches  |
|                          | height.....                  | 4.185 inches   |
|                          | weight.....                  | 1.135 LBS  |

**Guarantee:** The SSS-88 is fully guaranteed against all failures due to manufacturing defects for two years.

**Adjustments:** The switchpac has no adjustments