



## Data Sheet: SSS-88

### Solid State Loadswitch:

#### **Description:**

The PDC SSS-88 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.

Each switch will turn its 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)

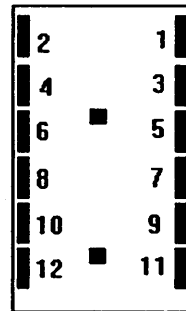


FIG 1.

#### **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.....	±10 Degrees of line voltage at the zero signal is applied. crossover point.
	Succeeding alterations.....	±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

**Adjustments:** The switchpac has no adjustments

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