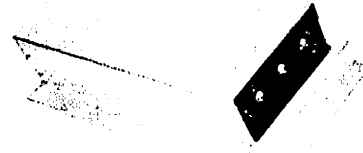


DATA SHEET

SSS-86-3



Solid State Loadswitch:

Description:

The PDC SSS-86 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 and TS2 1998, clause 6.2.

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 J1 pin outs are shown in FIG 1. The connector mates with a PDC BCS-12 or equal.

PIN	FUNCTION	J1
1	+115VAC, 60 Hz	(J1 as viewed from the outside of the product looking directly at the connector)
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	

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

Guarantee: The SSS-86 is fully guaranteed against all failures due to manufacturing defects for two years.

Adjustments: The switchpac has no adjustments