510 Series

LOAD SWITCH UNIT
FOR NEMA & CALTRANS CABINETS

The commitment to quality and reliability found in EDI Signal Monitors continues with the Model 510 solid state Load Switch.

FEATURES

- Meets NEMA TS1-1994 & NEMA TS2-2003 requirements
- 10 Amp RMS Maximum Load Current over full NEMA temperature range of -34°C to +74°C
- Operating Voltage Range: 60 to 135 VAC (Model 510-225: 120 to 270 VAC)
- Zero crossing: Less than 5 degrees of zero voltage point
- Isolation greater than 2000 volts

HIGHLIGHTS

- Off state leakage less than 10 mA peak
- Maximum input current less than 20 mA
- Peak Inverse Voltage: 600V
- One cycle surge: 250 Amps peak
- Noise rejection is greater than ±300V peak
- 3 electrically independent circuits
- 1-year limited warranty

NEMA CABINET COMPATIBLE   CALTRANS CABINET COMPATIBLE

Overview

The heavy duty extruded aluminum heat sink chassis of the Model 510 / 810 is designed to allow the triac device to operate with the full load current at high temperature (+74oC) without exceeding the manufacturer "Maximum Allowable Case Temperature" triac device specification. This helps ensure long life and reliable operation from the triac device. It can be shown that device reliability is logarithmically related to device operating temperature.

Flasher Pairing

The Model 510 solid state Load Switch operates best with EDI's Model 810 solid state Flasher. The Model 810 Flasher has a 810-225 model option to pair with the Model 510-225 Load Switch.

Dimensions

L = 8.025" x H = 4.170" x W = 1.475"

Model Options

Model	Volts	Hertz
510	110 Volts	60 Hz
510-225	220 Volts	50 Hz