

SCR GATE DRIVER BOARD - ZERO CROSS FIRED NWZC-SCR



- **Direct SCR Gate driver requires no power supply**
- **Low noise zero cross firing**
- **Suitable for resistive Loads**
- **Interfaces to standard PLCs and temperature controllers**
- **50 or 60Hz operation**
- **Single phase and three phase control**
- **MOV Protection**
- **5V, 24V and 120V inputs**

Product Description

The NWZC-SCR is suitable for driving back to back SCRs in single or polyphase resistive load applications. The NWZC-SCR in combination with back to back SCRs produces an economical high current solid state relay.

Ordering Codes

NWZC-SCR- - -

Zero Cross Firing

SCR Gate Drive

Line Voltage

-120 (150VRMS MOV)

-240 (275VRMS MOV)

-480 (510VRMS MOV)

-24: 24V Input Option

-120: 120V Input option

Input Specifications

Input Trigger Current	10mA for 5V, 24V, or 120VAC inputs
Frequency Range	47-63Hz
Response Time	<1mS for 5V input, 100mS for 24V and 120V inputs

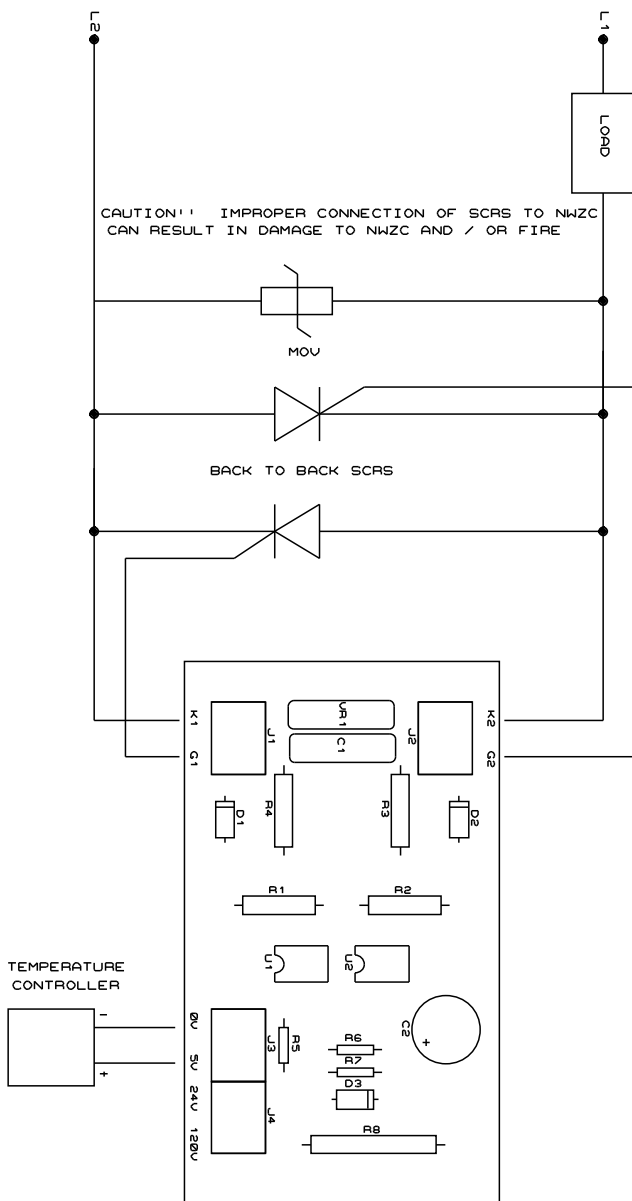
Output Specifications

SCR Gate Drive Current	200mA Max
Critical rate of rise of OFF-state voltage	600V/uS min, 1500V/uS typ.
Max Instantaneous Peak Voltage	1000Vpeak

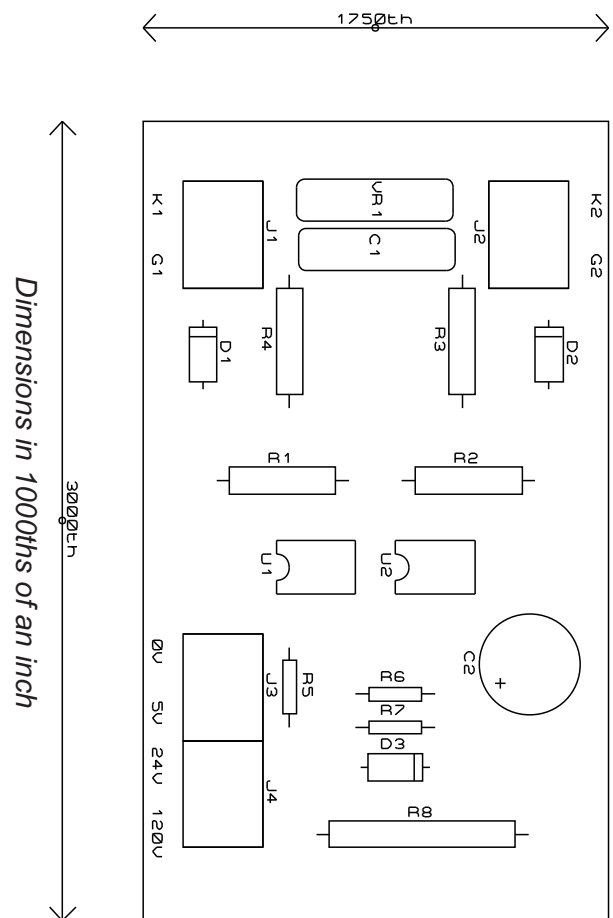
Thermal Specifications

Operating Temperature Range	0 to 50 degC
Storage Temperature Range	-40 to 100 degC

Wiring Diagram



Dimensions



Safety Information

Responsibility for determining suitability for use in any application / equipment lies solely on the purchaser, OEM and end user. Suitability for use in your application is determined by applicable standards such as UL, cUL and CE and the completed system involving this component should be tested to those standards.



WARNING: FIRE HAZARD!! Even quality electronic components CAN FAIL KEEPING FULL POWER ON! Provide a SEPARATE (redundant) OVER TEMPERATURE SHUTDOWN DEVICE to switch the power off if safe temperatures are exceeded.



WARNING: HIGH VOLTAGE!! This control board has high voltage on it that can cause death. This control must be installed in a GROUNDED enclosure by a qualified electrician in accordance with applicable local and national codes including NEC and other applicable codes. Provide a safety interlock on the door to remove power before gaining access to the device.