




## THE SCR WATCHDOG



---


### DOUBLE PROTECTION

Much faster than a fuse, The SCR Watchdog  continuously monitors each SCR in your rectifier. In the event that an SCR fails, the remaining SCR's are shut down and AC power is cut off. This double protection method guards against multiple or cascade failures (domino effect) in your other SCR's.


### FEATURES

- Limits multiple failures and cuts repair costs
- Pinpoints location of failure, reducing costly downtime
- Lowers chance of work spoilage

### RELIABILITY

- Shuts system down if wiring to Watchdog is broken
- Shuts system down if on-board power supply fails
- Built-in timer monitors critical components on The SCR Watchdog 
- The Watchdog, on some products, may be used in place of fuses

### FUNCTIONAL DESCRIPTION

- The SCR Watchdog  produces a 7.5 volt gate inhibit signal in response to an SCR fault, to provide immediate shut down of the remaining SCR's
- Within 23 ms of failure, the holding current through the interlock relay coil on the Watchdog will be interrupted, breaking the holding current to the main contactor.
- An LED on the Watchdog that remains lit after rectifier shutdown pinpoints location of the failure



## THE SCR WATCHDOG



### SPECIFICATIONS

**Capacity:** Can handle up to six SCR's per board\*

#### Reverse Blocking Voltage

##### Detection Threshold:

DC Bus connected to Terminal 1: 15 volts

DC Bus connected to Terminal 2: 10 volts

DC Bus connected to Terminal 3: 5 volts

#### Max DC Bus Voltage:

Terminal 1: 30 volts

Terminal 2: 28 volts

Terminal 3: 25 volts

#### Gate Inhibit Output:

7.25 volts minimum, 1000 ohm load

#### Power Required:

102 to 132 VAC, 50/60 Hz, 4VA

**Board Size:** 4.20" x 10.50" x 1.80" High

\* For rectifiers operated in parallel, consult factory