



The SCR490D Series is used to provide remote monitoring of steady burning incandescent marker and obstruction lighting. Four onboard switches allow operator programming for lighting systems with two through nine lamps on a single AC circuit. The SCR490D uses a toroidal sensor and electronic circuitry to sense the failure of one or more lamps.

For more information see:  
Appendix B, page 167, Figure 32 for dimensional drawing.  
Appendix C, page 171, Figure 32 for connection diagram.

### Operation

When a lamp fails, the SCR490D senses a decrease in current flow. Then, after a fixed time delay, it transfers to its alarm mode. In alarm mode, the LED indicator, the output relay (SPDT isolated contacts), and a non-isolated solid-state output are energized. Replacement of the failed lamps resets the alarm outputs and the LED indicator. To prevent false alarm signals, power must be applied to the SCR490D at the same time that lamps are energized.

### Features:

- Senses failed obstruction lamps
- 2 - 9 steadily burning lamps can be monitored
- Toroidal current sensing
- Isolated, 10A, SPDT alarm output contacts
- 1A, solid-state line voltage alarm output
- 6 second trip delay prevents nuisance alarms

Approvals:  

### Available Models:

SCR490D

### Order Table:

Input	Part Number
120VAC	SCR490D

### Specifications

Operation		
Number of Lamps	2 - 9 (selectable)	
Lamp Wattage	116W, incandescent lamps	
Rated Lamp Voltage	120 or 130VAC (selectable)	
Monitored Voltage	120VAC ±3%	
Trip Delay	≈ 6s fixed	
Voltage	120VAC	
AC Line Frequency	50/60Hz	
Tolerance	120VAC	- 20% - 10%
Line Voltage Output (Solid State Rated)	≤ 125W to operate a spare lamp or alarm	
Isolated Alarm Output	10A @ 120VAC or 30VDC resistive; 1/4 hp @ 125VAC; 1/2 hp @ 250VAC	
Mounting	Surface mount with two #6 (M3.5 x 0.6) screws	
Dimensions	3.5 x 2.5 x 1.75 in. (88.9 x 63.5 x 44.5 mm)	
Termination	Screws with captive clamps for up to 14 AWG (2.45 mm <sup>2</sup> ) wire	
Circuitry	Encapsulated	
Operating / Storage Temperature	-55° to 65°C / -55° to 85°C	
Humidity	95% relative, non-condensing	
Weight	≈ 6.8 oz (193 g)	