# **Flashers and Tower Lighting Controls**

Tower and Obstruction Lighting Controls



# SCR490D

### **Obstruction Lamp Alarm Relay**

# C€®



## Wiring Diagram



V = Voltage OL = Obstruction Lamps T = Toroid SS = Selector Switch AXL = Auxiliary Load/Alarm

Relay contacts are isolated.

#### Description

The SCR490D 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.

#### 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 & Benefits

FEATURES	BENEFITS
Toroidal current sensing	Reliable low cost monitoring of incandescent marker and obstruction lighting through built-in CT which also provides isolation from the lighting circuit
Monitors 2 - 9 lamps	Senses failed obstruction lamps on a single AC circuit
Isolated, 10A, SPDT alarm output plus one 1A, solid-state line voltage alarm output	Provide alarm indication and can also be used for remote monitoring of the lighting system
Fixed trip delay (6s)	Prevents nuisance alarms

# **Specifications**

Operation Number of Lamps Lamp Wattage Rated Lamp Voltage Monitored Voltage Trip Delay Voltage AC Line Frequency Tolerance 120VAC Line Voltage Output (Solid State Rated) Isolated Alarm Output

Mounting Dimensions

#### Termination

Circuitry Operating/Storage Temperature Humidity Weight 2 - 9 (selectable) 116W, incandescent lamps 120 or 130VAC (selectable) 120VAC ±3% ≅ 6s fixed 120VAC 50/60Hz

- 20% - 10%

 $\leq 125 W to operate a spare lamp or alarm$ 10A @ 120VAC or 30VDC resistive;1/4 hp @ 125VAC; 1/2 hp @ 250VACSurface mount with two #6 (M3.5 x 0.6) screwsH 88.9 mm (3.5"); W 63.5 mm (2.5");D 44.5 mm (1.75")Screws with captive clamps for up to 14 AWG(2.45 mm<sup>2</sup>) wireEncapsulated

-55° to 65°C / -55° to 85°C 95% relative, non-condensing  $\approx 6.8$  oz (193 g)