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SCR9L

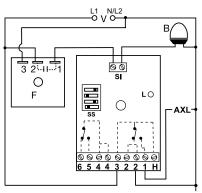
Universal Lamp Alarm Relay



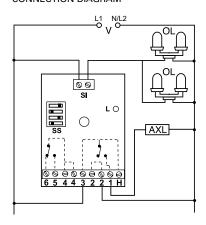


Wiring Diagram

BEACON LAMP CONNECTION DIAGRAM



OBSTRUCTION LAMP



V = Voltage
B = Beacon Lamps
SS = Selector Switch
L = LED Indicator
F = Flasher
AXL = Auxiliary
Load/Alarm
OL = Obstruction Lamps
SI = Sensor Input
H = "3" Spare AC Hot

Connection (2A max.)

Description

The SCR9L is a universal lamp alarm relay designed to sense the failure of flashing or steady LED beacon lamps or obstruction lamps. The SCR9L energizes when one or more lamps fail. It will monitor the operation of one to eight beacon or obstruction lamps. All monitored lamps must be the same wattage and voltage. When connected to a site monitoring system, it provides the remote lamp monitoring protection required by the FAA-AC No: 150/5345-43E.

Operation

When a lamp fails, the SCR9L senses a decrease in current flow. After a 10s trip delay, the onboard LED glows and the two alarm outputs energize. The outputs and the LED are reset when the failed lamps are replaced and the unit is recalibrated. The SCR9L will sense an open flasher, it will not sense a continuously ON flasher (see FB Series). Removing input voltage de-energizes the output and the LED's. It does not change the calibration.

Features & Benefits

FEATURES	BENEFITS	
Self calibrating	Designed for use with all types of LED beacon and obstruction lamps	
Failsafe beacon monitoring	Relay will also provide an alarm signal on a failed flasher (open)	
Number of lamps monitored is switch selectable up to 8	User selection allows quick set up and easy adaption to multiple applications	
Universal voltage 120 to 230VAC	Designed for use in most applications	
Isolated, 10A, SPDT alarm output contacts	Provides remote beacon monitoring when connected to a site monitoring system, as is required by the FAA	
LED indication	Provides visual relay status of operation, alarm, trip delay, and calibration	
Fully encapsulated	Protects against shock, vibration, and humidity	

Accessories



C103PM (AL) DIN Rail

35 mm aluminum DIN rail available in a 36 in. (91.4 cm) length.



P1023-20 DIN Rail Adapter

Allows module to be mounted on a 35 mm DIN type rail with two #10 screws.

SCR9L

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Calibration

Alarm relays must be calibrated at initial installation and when LED lamps are replaced. Due to LED lamp aging, recalibration is recommended every 12 months.

- 1. Remove input voltage
- 2. Move calibration switch to off position
- 3. Re-apply input voltage
- 4. LED will flash red to indicate the unit is ready for calibration
- 5. Visually inspect structure's lighting to make sure all lamps and flashers (if used) are operating properly
- 6. Remove input voltage
- 7. Adjust lamp selector switches for the correct number of lamps to be monitored (see adjustment diagram below)
- Re-apply input voltage
- 9. LED should flash red
- 10. Move calibrate switch to ON position
- 11. The LED will alternate flashing red and green
- 12. LED will glow steady green within 30 secs. Calibration is complete

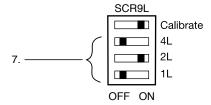
Calibration Failed

If the LED double blinks red, calibration failed. Remove input voltage and repeat steps 6-8.

Notes:

- Monitoring a mixture of LED beacons and LED obstruction lamps is not possible with the SCR9L.
- This alarm relay is not designed to monitor incandescent lamps.
- c. Applying input voltage when the calibrate switch is in the OFF position, erases the previous calibration settings. The LED will flash Red. The output relays are OFF and the unit will not sense lamp failures.
- d. Only one temperature compensated LED beacon can be monitored with this product. A combination of temperature compensated and standard LED beacons cannot be monitored.

Adjustment Example



Example Shown: SCR9L two lamps are ON during normal operation.

Indicator Table

L	Green	Input ON & Calibrated
L	Green Flashing	Trip Delay
L	Red	Lamp Failure
L	Red/Green Flashing	Calibrating
L	Red Flashing	Not Calibrated

Specifications

Sensors

Calibration Range (total all Lamps) 150mA - 8.0A **Absolute Max Current** (total all Lamps)

Single Lamp Current **Time Delay**

Trip Delay Input

Input Voltage/Tolerance **AC Line Frequency** Output

Line Voltage Output (SPNO)

Isolated Alarm Output (SPDT)

Auxilliary Input Voltage (H) Mechanical

Mounting **Dimensions**

Protection

Circuitry

Termination

Environmental

Operating / Storage **Temperature** Weight

15A max. (may not calibrate above 8A) 150mA - 8.0A (total all lamps < 8.0A)

Factory fixed ≅10s

120 to 230VAC ±15%

50/60Hz

To operate a spare lamp or alarm 5A @ 240VAC or 30VDC resistive; 1/4 hp @ 125VAC; 1/2 hp @ 250VAC 10A @ 240VAC or 30VDC resistive; 1/4 hp @ 125VAC; 1/2 hp @ 250VAC

≤ 2A @ 230VAC

One #10 (M5 x 0.8) screw

H 76.7 mm (3"); **W** 51.3 mm (2.02"); **D** 41.7 mm (1.64")

IP20 screw terminals for up to 14 AWG (2.45 mm²) wire or two 16 AWG (1.3 mm²) wires

Encapsulated

-40° to 60°C / - 40° to 85°C $\approx 3.9 \text{ oz } (111 \text{ g})$

单击下面可查看定价,库存,交付和生命周期等信息

>>Littelfuse(美国力特)