



## Section 10 Tower & Obstruction Lighting

### Tower & Obstruction Lighting

|                       |      |
|-----------------------|------|
| Selection Guide ..... | 10.2 |
|-----------------------|------|

#### Beacon Flasher



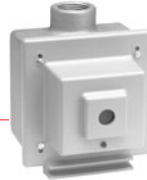
|                |      |
|----------------|------|
| ■ FA .....     | 10.4 |
| ■ FS155- ..... | 10.4 |
| ■ FS165- ..... | 10.4 |

#### Lamp Monitors



|                 |      |
|-----------------|------|
| ■ FB .....      | 10.6 |
| ■ SCR490D ..... | 10.7 |
| ■ SCR430T ..... | 10.8 |
| ■ SCR630T ..... | 10.8 |

#### Photo Controls

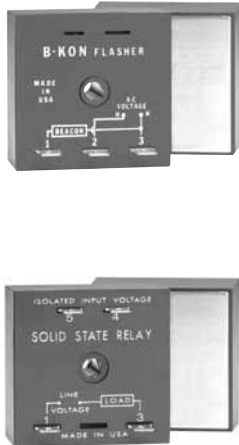


|             |       |
|-------------|-------|
| ■ PCR ..... | 10.10 |
|-------------|-------|


## Selection Guide

### Tower and Obstruction Lighting Controls

#### Flasher · Solid State Beacon Flasher

|   | P/N        | Voltage  | Description   | Page |
|---|------------|----------|---|------|
|  | FS155-30RF | 120 V AC | Beacon Flasher for High RF Installations, 2500 W (200 A Inrush Maximum)<br>Meets FAA-AC NO: 150/5345-43E  | 10.4 |
|   | FS165-30RF | 230 V AC |   |      |
|   | FS155-30T  | 120 V AC | Beacon Flasher for FM, TV, Chimneys, Bridges, Smoke Stacks, and Low RF Applications, 2500 W (200 A Inrush Maximum)<br>Meets FAA-AC NO: 150/5345-43E | 10.4 |
|   | FS165-30T  | 230 V AC |   |      |
|   | FA155-2    | 120 V AC | Auxiliary Unit for Synchronous Flashing of Additional Beacons, 2500 W (200 A Inrush Maximum)  | 10.4 |
|   | FA165-2    | 230 V AC |   |      |
|   | FA155      | 120 V AC | Auxiliary Unit Provides Alternate Operation for Constant Line Loading, 2500 W (200 A Inrush Maximum) (not shown)                                    | 10.4 |
|   | FA165      | 230 V AC |   |      |


#### Photo Control · Accurate Dusk to Dawn Control

|   |       |          |  |       |
|---|-------|----------|--|-------|
|  | PCR10 | 120 V AC | Precision Photo Control Calibrated to FAA and FCC Specifications for Tower and Obstruction Lighting. Two SPST N.O. 20 A Contacts. Without Cast Aluminum Housing. Meets FAA-AC NO: 150/5345-43E | 10.10 |
|   | PCR12 | 230 V AC |  |       |
|   | PCR11 | 120 V AC | As Above With Cast Aluminum Housing (as shown)   | 10.10 |
|   | PCR13 | 230 V AC |  |       |

#### Lamp Alarm Relays · Senses Lamp Failure

|   |         |          |   |      |
|---|---------|----------|---|------|
|  | SCR430T | 120 V AC | Universal Light Alarm Relay. Senses the Failure of One Lamp Out of 1, 2, 3, or 4 Lamps; 116 or 620 W, 120 V AC Lamps<br>SPDT - 10 A Isolated Alarm Contacts.<br>Meets FAA-AC NO: 150/5345-43E | 10.8 |
|   | SCR630T | 230 V AC |   |      |
|   | SCR490D | 120 V AC | Side Light Alarm Relay. Senses the Failure of One Lamp Out of 2, 3, 4, 5, 6, 7, 8, or 9; Steadily Burning 116 W, 120 V AC Lamps<br>SPDT - 10 A Isolated Alarm Contacts (not shown)            | 10.7 |

#### Beacon Alarm Relay · Senses Lamp Failure and Flasher Failure

|   |        |          |   |      |
|---|--------|----------|---|------|
|  | FB120A | 120 V AC | Flasher and Beacon Lamp Alarm Relay<br>Senses Failure of Beacon Lamps<br>Senses Failure of Beacon Flasher<br>Two Line Voltage Alarm Outputs<br>SPDT - 10 A Isolated Alarm Contacts<br>Meets FAA-AC No: 150/5345-43E | 10.6 |
|   | FB230A | 230 V AC |   |      |

TWER1B02 10.11.04

## SOLID STATE TOWER CONTROLS

- Beacon Flashers
- Beacon & Obstruction Lamp Alarm Relays
- Photoelectric Controls
- Auxiliary Modules



**In Stock Available For  
Immediate Shipment**

The US Federal Aviation Administration (FAA) requires that any tall building, antenna tower, smokestack, grain elevator, bridge, or other structure, which presents a hazard to air navigation, be suitably marked and lighted to warn pilots of its presence. The marking and lighting of antenna towers is also covered by US Federal Communication Commission (FCC) rules and regulations which are identical to the FAA standards.

FAA/FCC standards for lighting hazards to air navigation, require the use of red marker or white marker lights at specified locations on the obstruction. For antenna towers and similar skeletal structures, the lighting system consists of flashing red beacons and steady-burning red obstruction lights at alternate levels on the tower.

The flashers and alarm modules in this catalog meet FAA/FCC specifications for obstruction lighting equipment. They are designed to be used with the red incandescent lighting systems. These flashers, lamp outage alarm modules, and photoelectric controls provide the complete solution to your obstruction lighting control requirements.

Our solid state flashers include zero voltage switching circuitry that can extend the lamp life up to 10 times longer than that of mechanical flashers. Some are CSA Certified and CE Marked.

**ISO 9001**

**10**

TWR01B01 08.16.04

# Beacon Tower Flasher

## FS & FA Series

### Solid State Flasher



10 YEAR WARRANTY

- Zero Voltage Switching - Up to 10 Times Longer Lamp Life
- No RFI Caused by Contacts Closing
- High Inrush Capability - Up to 200 A
- RF Model for AM Hot Towers & Other High RF Installations
- Auxiliary Units for Synchronous Flashing or Constant Line Loading

Approvals: (FS155 & FA155 Models Only)

### Description

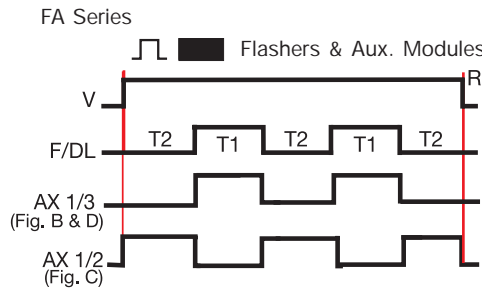
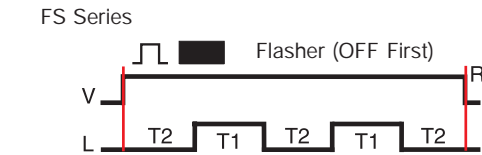
B-KON Flashers have proven their reliability through years of use on Communication Towers, Smoke Stacks, Cooling Towers, Tall Buildings, Bridges and Utility Towers. The highest quality components are encapsulated in a rugged plastic housing with a molded-in heat transfer plate. The flash rate, ratio, and fail-safe design meet FAA regulations. Zero voltage switching can increase lamp life up to ten times. The FS155-30RF & FS165-30RF include superior RF Filtering Circuitry for use in high RF installations; including AM Hot Towers.

### Operation

Upon application of input voltage, the T2 OFF time begins. At the end of the OFF time, the T1 ON time begins and the load energizes. At the end of T1, T2 begins and the load de-energizes. This cycle repeats until voltage is removed.

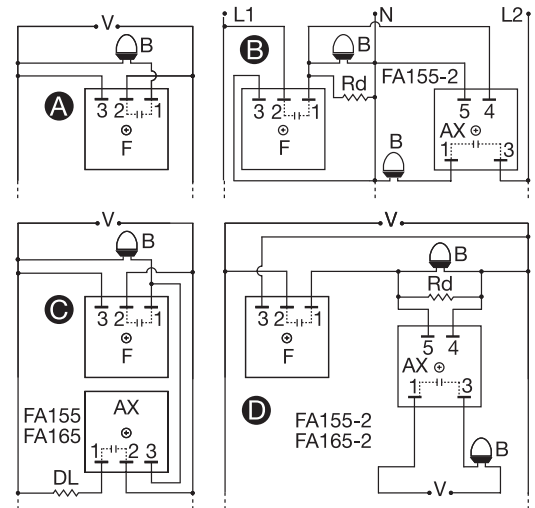
**Reset:** Removing input voltage resets the output and the sequence to T2.

### Function



V = Voltage L = Load T1 = ON Time  
T2 = OFF Time R = Reset  
T1 ≅ T2

### Connection

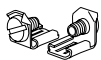


- F = Flasher (FS155-30T, FS155-30RF, FS165-30T, FS165-30RF)
- AX = Auxiliary Unit
- B = Beacon
- DL = Dummy Load for Constant Line Loading
- Rd = 3.3 KΩ @ 5 W for 120 V AC  
8.5 KΩ @ 5 W for 230 V AC
- Dashed lines are internal connections.

### Accessories



Female quick connect  
P/N's:  
**P1015-13** (AWG 10/12)  
**P1015-64** (AWG 14/16)  
**P1015-14** (AWG 18/22)



Quick connect to  
screw adaptor  
P/N: **P1015-18**

See accessory pages for specifications.

### Ordering Table

| Input    | Wattage | Inrush | Description  | Part Number |
|----------|---------|--------|--|-------------|
| 120 V AC | 2500 W  | 200 A  | For High RF Radiation locations including AM Hot Towers        | FS155-30RF  |
| 120 V AC | 2500 W  | 200 A  | Standard Flasher   | FS155-30T   |
| 230 V AC | 5000 W  | 200 A  | For High RF Radiation locations including AM Hot Towers        | FS165-30RF  |
| 230 V AC | 5000 W  | 200 A  | Standard Flasher   | FS165-30T   |
| 120 V AC | 2500 W  | 200 A  | Auxiliary unit for synchronous operating of additional beacons | FA155-2     |
| 230 V AC | 5000 W  | 200 A  | Auxiliary unit for synchronous operating of additional beacons | FA165-2     |
| 120 V AC | 2500 W  | 200 A  | Auxiliary unit to provide constant line loading                | FA155       |
| 230 V AC | 5000 W  | 200 A  | Auxiliary unit to provide constant line loading                | FA165       |

# Beacon Tower Flasher

## FS & FA Series

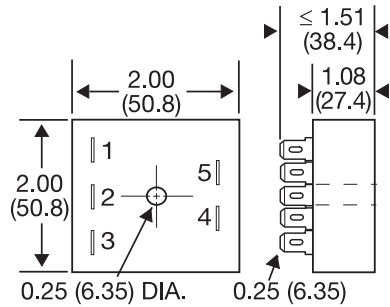
### Solid State Flasher

#### Technical Data

|  |  |
|--|--|
| <b>Specifications</b>                  |  |
| Operation                              | Single & multiple beacon flashing with auxiliary modules |
| Flash Rate (FS Series Only)            | 30 +/-10 flashes per minute                              |
| ON/OFF Ratio (FS Series Only)          | 50% ... 67% ON time; 33% ... 50% OFF time                |
| <b>Input</b>                           |  |
| Voltage                                | 120 or 230 V AC +/-20%                                   |
| Frequency                              | 50 ... 60 Hz   |
| <b>Output</b>                          |  |
| Output Rating (Zero Voltage Switching) | 2500 W at 120 V AC; 5000 W at 230 V AC                   |
| Inrush Current                         | 200 A peak for 1 cycle of AC line                        |
| <b>Mechanical</b>                      |  |
| Mounting*                              | Surface mount with one #10 (M5 x 0.8) screw              |
| Termination                            | 0.25 in. (6.35 mm) male quick connect terminals          |
| <b>Protection</b>                      |  |
| Circuitry                              | Encapsulated   |
| <b>Environmental</b>                   |  |
| Operating Temperature                  | -40°C ... +65°C  |
| Storage Temperature                    | -40°C ... +85°C  |
| Humidity                               | 95% relative, non-condensing                             |
| Weight                                 | ≅ 3.9 oz (111 g)   |

\* **Note:** Must be mounted to metal surface using the included heat sink compound. The maximum mounting surface temperature is 90° C.

#### Mechanical View



Inches (Millimeters)

Note:

Terminal # 2 is not included on FA155-2, FA165-2.  
Terminal # 4 & # 5 are not included on all others.

# Flasher & Beacon Alarm Relay

## FB120A/FB120AL/FB230A

### Tower Lighting Control



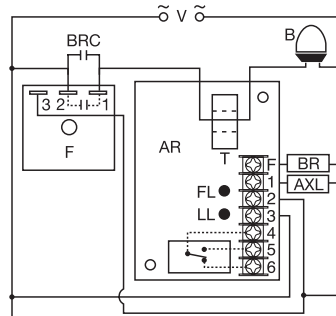
10 YEAR WARRANTY

- Senses Failed Flashing Beacon Lamps (FB120A/FB230A)
- Senses Failed Flashing LED Beacon Lamp (FB120AL)
- Senses Failed Beacon Flasher
- Toroidal Current Sensing
- One 5 A SPDT Isolated Alarm Output
- Two 1 A Solid State Line Voltage Alarm Outputs
- Trip Delays Prevent Nuisance Alarms

#### Description

The FB120A and FB230A are used to monitor the operation of one two-lamp incandescent beacon and one beacon flasher (or auxiliary module). The FB120AL is used to monitor one Dialight D864 Series LED based flashing red beacon (auxiliary modules cannot be used with the FB120AL). The flasher and lamps are monitored by sensing the flow of current in the circuit. If the lamp(s) or the flasher fail to operate properly, a solid state output and an isolated SPDT relay energize. When connected to a site monitoring system, this unit provides the remote beacon monitoring protection required by the FAA/FCC. On a multiple beacon structure, one unit is required for each two-lamp incandescent beacon (one unit per beacon for LED beacons).

#### Connection



Note: Flasher module may be located on either the line or load side of the toroidal sensor. Auxiliary module cannot be used with FB120AL.

V = Voltage B = Beacon/LED Lamps F = Flasher  
 BRC = Flasher Bypass Relay Contacts T = Toroid  
 AR = FB Alarm Relay BR = Bypass Relay Coil  
 FL = Flasher Failure LED LL = Lamp Failure LED  
 AXL = Lamp Alarm Relay Coil

#### Operation

##### FB120A and FB230A

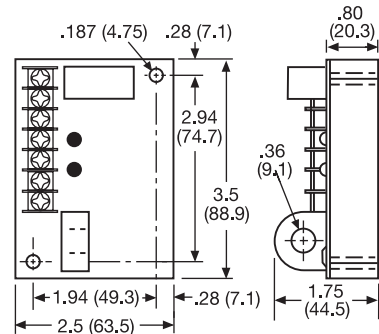
If one lamp in an incandescent beacon fails, the relay and solid state lamp failure outputs energize after 10 s. If the flasher fails in the ON or OFF condition, the relay and the solid state flasher failure output energizes after 6 s. If both failures occur, all three outputs energize after their trip delays.

##### FB120AL

If the LED beacon fails or the flasher fails in the OFF condition, the relay and the solid state flasher failure output energizes after 6 s; the solid state lamp failure energizes after 10 s. If the flasher fails in the ON condition, the relay and the solid state flasher failure output energizes after 6 s.

Note: If both incandescent lamps fail or if the beacon is an LED beacon, all three outputs will energize. The relay and solid state flasher failure output after 6 s, and the solid state lamp failure output after 10 s.

#### Mechanical View



Inches (Millimeters)

#### Ordering Table

| Input    | Lamp Type           | Part Number |
|----------|---------------------|-------------|
| 120 V AC | Incandescent Beacon | FB120A      |
| 120 V AC | LED Beacon          | FB120AL     |
| 230 V AC | Incandescent Beacon | FB230A      |

#### Technical Data

##### Input Voltage

FB120A, FB120AL 120 V AC +/-15%; 50 ... 60 Hz  
 FB230A 230 V AC +/-15%; 50 ... 60 Hz  
 Lamp Socket Voltage +/-10%; 50 ... 60 Hz

##### Alarm Outputs

Type

3 Total -- 1 relay, 2 solid state  
 One isolated SPDT relay rated 5 A resistive  
 Two solid state line voltage outputs rated 0.5 A steady, 5 A inrush

##### Lamp Failure Detection

FB120A For two 620 W or 700 W lamps  
 FB120AL For 1 Dialight D864-A11-001 LED Beacon  
 FB230A For two 500 W or 700 W lamps

##### Trip Delays

Flasher Failure Fixed at 6 s; -0/+40%  
 Lamp Failure Fixed at 10 s; -0/+40%

##### LEDs

Lamp Failure (Red) Glows when one or both lamps fail  
 Flasher Failure (Red) Glows when the flasher fails

##### Protection

Circuitry Encapsulated  
 Mounting Surface mount with two #6 (M3.5 x 0.6) screws  
 Package 3.5 x 2.5 x 1.75 in. (88.9 x 63.5 x 44.5 mm)  
 Termination 7 position barrier block for 20 AWG (0.5 mm<sup>2</sup>) to 14 AWG (2.5 mm<sup>2</sup>) wire

##### Environmental

Operating / Storage Temperature -40°C ... +60°C / -40°C ... +85°C  
 Weight ≅ 7 oz (198 g)

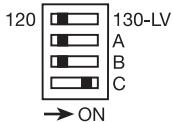
# Obstruction Lamp Alarm Relay SCR490D Beacon & Obstruction



- Senses Failed Obstruction Lamps
- 2 ... 9 Steadily Burning Lamps can be Monitored
- Toroidal Current Sensing
- 10 A Isolated SPDT Alarm Output Contacts
- 1 A Solid State Line Voltage Alarm Output
- Six Second Trip Delay Prevents Nuisance Alarms

Approvals:

### Switch Setting:

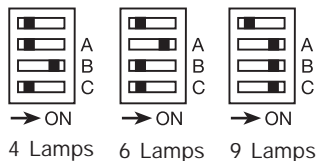


LV = Lamp Voltage

Example shown above is:  
3 Lamps are Monitored  
120 V AC rated lamps

| Total Number of Lamps | Switches On |
|-----------------------|-------------|
| 2                     | No Switches |
| 3                     | C           |
| 4                     | B           |
| 5                     | B + C       |
| 6                     | A           |
| 7                     | A + C       |
| 8                     | A + B       |
| 9                     | A + B + C   |

Other Examples:  
All 120 V AC rated lamps



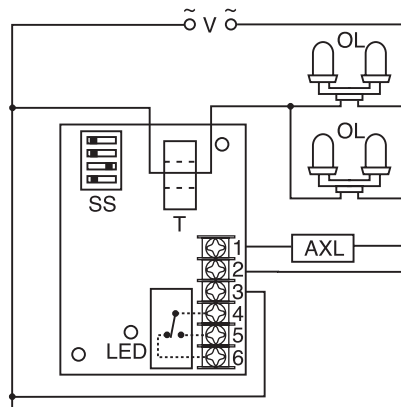
### Description

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.

### 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.

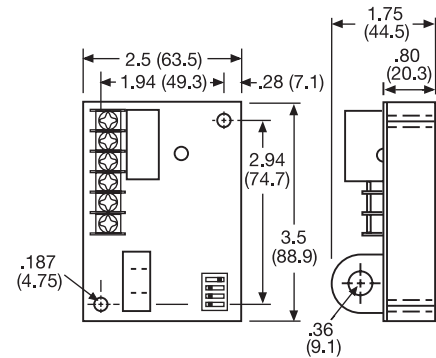
### Connection



Relay contacts are isolated. Dashed lines are internal connections.

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

### Mechanical View



Inches (Millimeters)

| Input    | Part Number |
|----------|-------------|
| 120 V AC | SCR490D     |

### Technical Data

#### Operation

Number of Lamps: 2 ... 9 (Selectable)  
Lamp Wattage: 116 W, incandescent lamps  
Rated Lamp Voltage: 120 or 130 V AC (Selectable)  
Monitored Voltage: 120 V AC +/-3%  
Trip Delay:  $\approx 6$  s Fixed

#### Input

Voltage/Frequency: 120 V AC / 50 ... 60 Hz  
Tolerance: 120 V AC - 20% ... +10%

#### Output

Line Voltage Output (Solid State Rated):  $\leq 125$  W to operate a spare lamp or alarm  
Isolated Alarm Output: 10 A at 120 V AC or 30 V DC resistive  
1/4 hp at 125 V AC; 1/2 hp at 250 V AC

#### Mechanical

Mounting: Surface mount w/ two #6 (M3.5 x 0.6) screws  
Termination: Screws with captive clamps for up to 14 AWG (2.45 mm<sup>2</sup>) wire

#### Protection

Circuitry: Encapsulated

#### Environmental

Operating/Storage Temperature: -40°C ... +65°C / -40°C ... +85°C  
Package: 3.5 x 2.5 x 1.75 in. (88.9 x 63.5 x 44.5 mm)  
Humidity: 95% relative, non-condensing  
Weight:  $\approx 6.8$  oz (193 g)

# Universal Lamp Alarm Relay

## SCR430T & SCR630T

### Beacon & Obstruction



- Monitors Incandescent Lamps for Failure
- Senses Failed Flashing Beacon or Obstruction Lamps
- Switch Selectable Number, Voltage, & Wattage of Lamps
- 10 A Isolated SPDT Alarm Output Contacts
- 1 A Solid State Line Voltage Alarm Output
- Toroidal Current Sensing

Approvals:  (SCR430T only)

#### Description

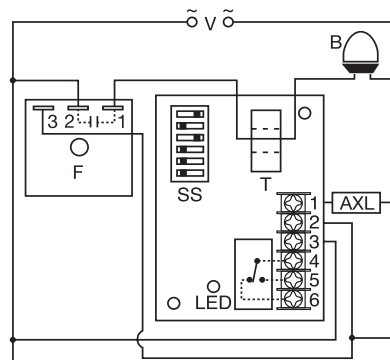
The SCR series is a Universal Lamp Alarm Relay designed to sense the failure of flashing or steady incandescent beacon lamps or steady side lights. The toroidal current sensor provides isolation and allows monitoring of more than one line at a time. The SCR Series energizes when one or more lamps fail. It will monitor the operation of one to four side lights and up to four beacon lamps.

#### Operation

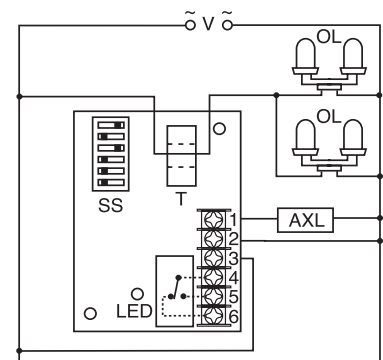
When a lamp fails, the SCR Series senses a decrease in current flow. After a fixed time delay, the LED glows and the two alarm outputs energize. The outputs and the LED are reset when the failed lamps are replaced and the current returns to the nominal setting, or when the input voltage is removed. The SCR will sense an open flasher, it will not sense a continuously on flasher (see FB Series).

#### Connection

Beacon Connection Diagram



Obstruction Lamp Connection Diagram



Relay contacts are isolated. Dashed lines are internal connections.

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

#### Ordering Table

| Input    | Part Number | Lamp Types   |
|----------|-------------|--------------|
| 120 V AC | SCR430T     | Incandescent |
| 230 V AC | SCR630T     | Incandescent |

# Universal Lamp Alarm Relay

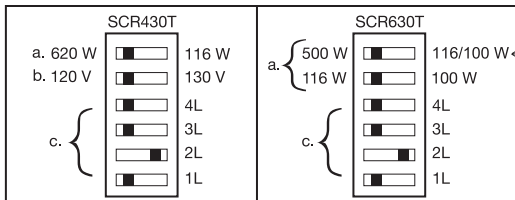
## SCR430T & SCR630T

### Beacon & Obstruction

#### Technical Data

|   |         |   |              |              |              |              |             |  |
|---|---------|---|--------------|--------------|--------------|--------------|-------------|--|
| <b>Lamp Monitoring</b>                  |         |   |              |              |              |              |             | This chart is based on typical current draw of lamps at the rated voltage and the units trip point over the voltage tolerance. |
| Capacity (in lamps)                     |         | <b>48 W</b>   | <b>100 W</b> | <b>116 W</b> | <b>500 W</b> | <b>620 W</b> | <b>700W</b> |  |
|   | SCR430T | 120VAC Lamps  | 0            | 4            | 4            | 2            | 4           | 2  |
|   | SCR630T | 230VAC Lamps  | 0            | 4            | 4            | 4            | 2           | 2  |
| <b>Time Delay</b>                       |         | Factory fixed $\cong$ 6 s   |              |              |              |              |             |  |
| <b>Input</b>                            |         | SCR430T -- 120 V AC +/-10% 50 ... 60 Hz                                       |              |              |              |              |             |  |
| Input Voltage/Tolerance/Frequency       |         | SCR630T -- 230 V AC +/-10% 50 ... 60 Hz                                       |              |              |              |              |             |  |
| <b>Output</b>                           |         | To operate a spare lamp or alarm  |              |              |              |              |             |  |
| Line Voltage Output (Solid State Rated) |         | $\leq$ 125 W at 120 V AC  |              |              |              |              |             |  |
|   |         | $\leq$ 250 W at 240 V AC  |              |              |              |              |             |  |
| Isolated Alarm Output (SPDT)            |         | 10 A at 240 V AC or 30 V DC resistive; 1/4 hp at 125 V AC; 1/2 hp at 250 V AC |              |              |              |              |             |  |
| <b>Mechanical</b>                       |         | Two #6 (M3.5 x 0.6) screws  |              |              |              |              |             |  |
| Mounting                                |         | Screws with captive clamps for up to 14 AWG (2.45 mm <sup>2</sup> ) wire      |              |              |              |              |             |  |
| Termination                             |         | 3.5 x 2.5 x 1.75 in. (88.9 x 63.5 x 44.5 mm)                                  |              |              |              |              |             |  |
| Package                                 |         |   |              |              |              |              |             |  |
| <b>Protection</b>                       |         | Encapsulated  |              |              |              |              |             |  |
| <b>Environmental</b>                    |         | -40°C ... +65°C   |              |              |              |              |             |  |
| Operating Temperature                   |         | $\cong$ 6.8 oz (193 g)  |              |              |              |              |             |  |
| Weight                                  |         |   |              |              |              |              |             |  |

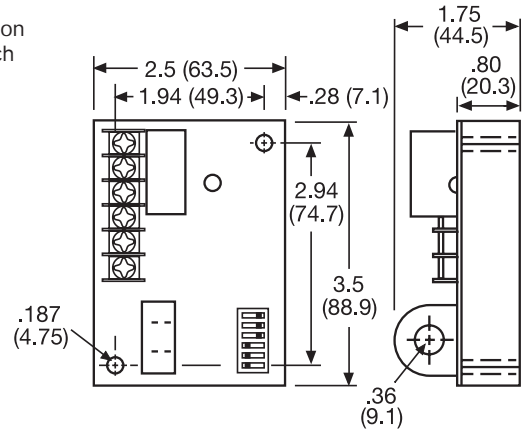
#### Selection Range:



Note: This switch position allows selection at switch below.

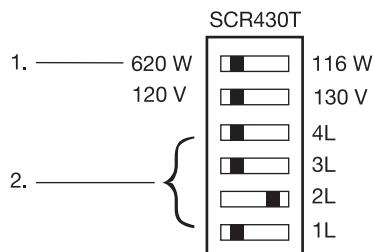
- Lamp Wattage - Select the lamp wattage of the lamps in use.
- Lamp Voltage - Select the lamp voltage shown on the lamp. (SCR430T)
- Lamps ON - Select the number of lamps on during normal operation. Only one lamp switch, at a time, may be transferred to the right.

#### Mechanical View



Inches (Millimeters)

#### Programming Example:



Example Shown: SCR430T-620 watts at 120 V AC lamps, two lamps are ON during normal operation.

#### STEP

- Select lamp wattage: 116 or 620 watts
- Select the number of lamps ON (1 thru 4) during normal operation. Only one lamp switch may be ON (RIGHT) at any time.

# Photo Control PCR Series Tower & Obstruction Lighting



- Automatic Lighting Circuit Operation: Dusk to Dawn
- Meets FAA/FCC Requirements for Obstruction Lighting
- Two 20 A Load Contacts
- Direct Replacement of Popular Photo Controls
- Time Delay Eliminates Contact Chatter

## Description

The PCR Series of Photo Control is a combination of precision electronic circuitry, electromechanical output, and unique molded plastic housing. Designed and built to meet the demands of the most rigorous requirement of tower and obstruction lighting control. Each unit is factory calibrated to meet FAA and FCC specifications. Electronic circuit, output contactor, and terminal block are all contained within front plastic housing. Edge support molded into the bottom edge of housing allows easy wiring of new and existing installations. Available with or without cast aluminum junction box.

## Operation

When the amount of light sensed falls below the actuation level for energization, the output relay energizes. Conversely, when the amount rises above the actuation level for de-energization, the output relay de-energizes.

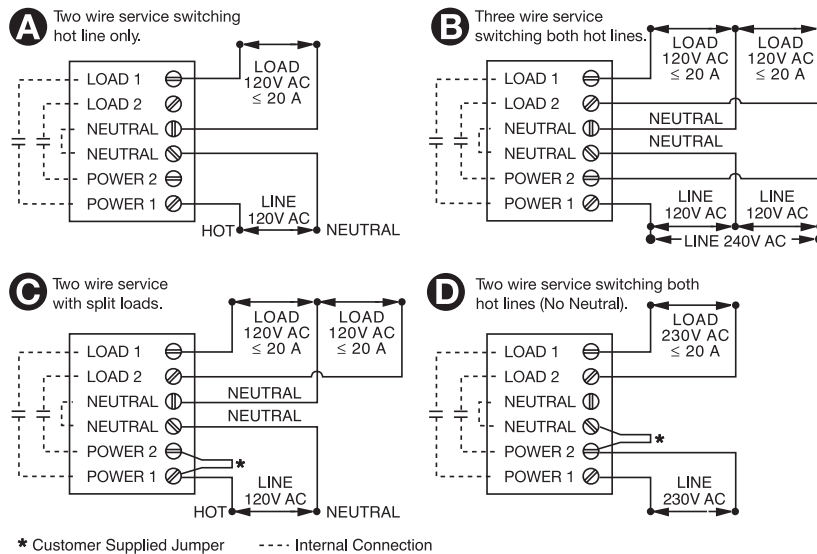
## CONVERSION CHART

| Part Number | Replaces          |              |
|-------------|-------------------|--------------|
|             | Hughey & Phillips | Crouse Hinds |
| PCR11       | PC800 120 V       | PEC52010     |
| PCR13       | PC800 240 V       | PEC52010-1   |

## Applications & Connections

The PCR Series Photo Control has a unique feature that allows the installer to have both hands free while wiring. The plastic front housing of the PCR has a slot at its bottom that slips over the edge of the cast aluminum box. When wiring is complete, simply lift up, insert into the box, and secure with four screws.

## Connection



## Ordering Table

| Input    | Description                        | Diagram   | Part Number |
|----------|------------------------------------|-----------|-------------|
| 120 V AC | Photo Control without aluminum box | A & B & C | PCR10       |
| 230 V AC | Photo Control without aluminum box | D         | PCR12       |
| 120 V AC | Photo Control with aluminum box    | A & B & C | PCR11       |
| 230 V AC | Photo Control with aluminum box    | D         | PCR13       |

# Photo Control

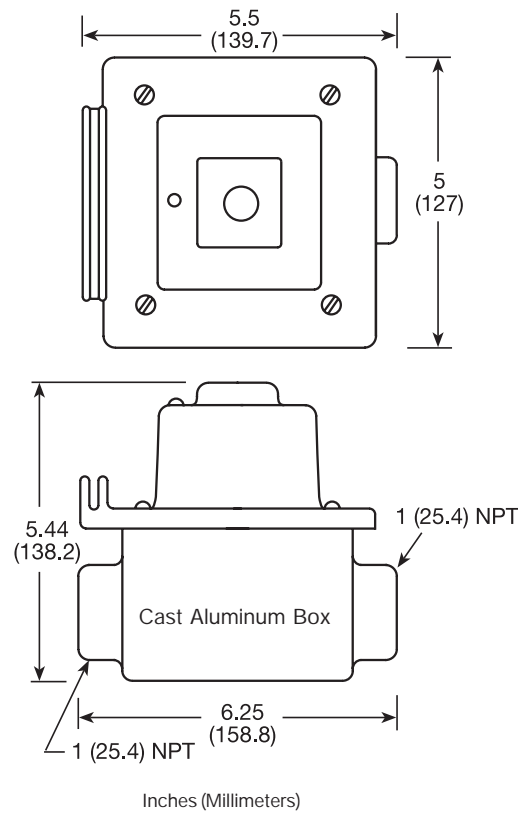
## PCR Series

### Tower & Obstruction Lighting

#### Technical Data

|  |  |
|--|--|
| <b>Operation</b><br>Indication                                   | LED indicates power is applied   |
| <b>Set Points</b><br>Light Actuation Levels (Factory Calibrated) | Energized: $\leq 35$ fc<br>De-energized: $\geq 60$ fc  |
| <b>Input</b><br>Voltage/Frequency                                | 120 V AC / 50 ... 60 Hz<br>230 V AC / 50 ... 60 Hz   |
| Tolerance  | 120 & 230 V AC<br>-20% ... +10%  |
| <b>Output</b><br>Output Rating                                   | Two SPST N.O. 20 A contacts<br>1 hp @ 120 V AC<br>2.5 hp @ 240 V AC  |
| <b>Mechanical</b><br>Termination<br>Package                      | Screw terminals for up to #8 (M4 x 0.7) AWG wire<br>ABS plastic housing with gasket seal. Multiple knockout holes for optional mounting to Crouse Hinds or Hughey & Phillips cast aluminum electrical boxes. |

#### Mechanical View





Low Voltage Products & Systems

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