# **Flashers and Tower Lighting Controls**

Tower and Obstruction Lighting Controls



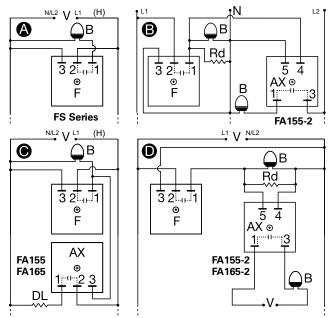
(FS155 & FA155 models only)



FS165-30T

## Wiring Diagram

FA / FS SERIES



V = Voltage N = Neutral B = Beacon DL = Dummy Load for Constant Line Loading Rd =  $3.3 \text{ K}\Omega @ 5W$  for 120VAC;  $8.5 \text{ K}\Omega @ 5W$  for 230VAC F = Flasher (FS155-30T, FS155-30RF, FS165-30T) AX = Auxiliary Unit (FA155, FA155-2, FA165, FA156-2)

#### **Ordering Information**

### Description

The FA/FS Series 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 failsafe design meet FAA regulations. Zero voltage switching can increase lamp life up to ten times. The FS155-30RF includes superior RF filtering circuitry for use in high RF installations, including AM hot towers.

#### Operation

## FS Series - Flasher (OFF First)

FA Series - Auxiliary Modules

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.

#### **Features & Benefits**

FEATURES	BENEFITS
Zero voltage switching	Delivers up to 10 times longer lamp life
Encapsulated	Protects against shock, vibration, and humidity
Metalized mounting surface	Facilitates heat transfer in high current applications
Superior RF filtering circuitry (RF models only)	Ideal for AM hot towers and other high RF installations
High inrush capability up to 200A	Will withstand the repetitive inrush current of incandescent beacons

MODEL	INPUT VOLTAGE	WATTAGE	INRUSH RATING	DESCRIPTION	
FA155	120VAC	2500W	200A	Auxiliary unit to provide constant line loading	
FA155-2	120VAC	2500W	200A	Auxiliary unit for synchronized operating of additional beacons. Synchronized flashing of additional beacons on a 3 wire system	
FA165	230VAC	5000W	200A	Auxiliary unit to provide constant line loading	
FA165-2	230VAC	5000W	200A	Auxiliary unit for synchronized operating of additional beacons. Synchronized flashing of additional beacons on a 2 wire system	
FS155-30RF	120VAC	2500W	200A	For high RF interference locations including AM hot towers	
FS155-30T	120VAC	2500W	200A	Standard beacon flasher	
FS165-30T	230VAC	5000W	200A	Standard beacon flasher	
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If you don't find the part you need, call us for a custom product 800-843-8848

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### Accessories

FA / FS SERIES

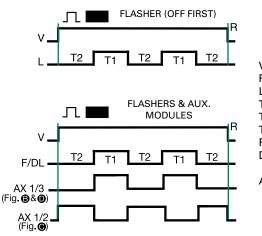


**P1015-13** (AWG 10/12), **P1015-64** (AWG 14/16), **P1015-14** (AWG 18/22) **Female Quick Connect** These 0.25 in. (6.35 mm) female terminals are constructed with an insulator barrel to provide strain relief.



**P1015-18 Quick Connect to Screw Adapter** Screw adapter terminal designed for use with all modules with 0.25 in. (6.35 mm) male quick connect terminals.

## **Flasher Function Diagrams**



V = Voltage R = Reset L = Load T1 = ON Time T2 = OFF Time  $T1 \cong T2$  F = Flasher DL = Dummy Load AX = Auxillary Module

## **Specifications**

Operation

Flash Rate (FS Series Only) ON/OFF Ratio (FS Series Only) Voltage AC Line Frequency Output Rating (Zero Voltage Switching) Inrush Current Mounting\* Dimensions

Termination Circuitry Operating/Storage Temperature Humidity Weight Single & multiple beacon flashing with auxiliary modules 30 ±10 FPM

50 - 67% ON time; 33 - 50% OFF time 120 or 230VAC ±20% 50/60Hz

2500W @ 120VAC; 5000W @ 230VAC 200A peak for 1 cycle of AC line Surface mount with one #10 (M5 x 0.8) screw H 50.8 mm (2"); W 50.8 mm (2"); D 38.4 mm (1.51") 0.25 in. (6.35 mm) male quick connect terminals Encapsulated

 $-55^{\circ}$  to  $65^{\circ}$ C /  $-55^{\circ}$  to  $85^{\circ}$ C 95% relative, non-condensing  $\approx 3.9$  oz (111 g)

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