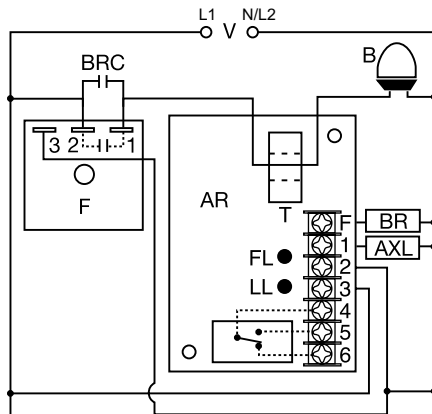


FB SERIES

Flasher & Incandescent Beacon Alarm Relay



Wiring Diagram



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

NOTE: Flasher module may be located on either the line or load side of the toroidal sensor.

Description

The FB Series is used to monitor the operation of one two-lamp incandescent beacon and one beacon flasher (or auxiliary module). 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).

Operation

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

Note: If both incandescent lamps fail, all three outputs will energize. The relay and solid-state flasher failure output energizes after 6s, and the solid-state lamp failure output energizes after 10s.

Features & Benefits

FEATURES	BENEFITS
Toroidal current sensing	Reliable low cost monitoring of the flasher and lamps through built-in CT and provides isolation from the monitored circuit
Failsafe beacon monitoring	Alarm monitors for failed incandescent lamps in addition to flasher function
One isolated, 5A, SPDT alarm output plus two, 1A, solid-state line voltage alarm outputs	When connected to a site monitoring system, it provides the remote beacon monitoring protection required by the FAA / FCC.
Fixed trip delays for flasher (6s) and lamp (10s) failures	Prevents nuisance alarms

Ordering Information

MODEL	LINE VOTAGE	LAMP TYPE
FB120A	120VAC	Incandescent Beacon
FB230A	230VAC	Incandescent Beacon

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FB SERIES

Specifications

Input Voltage

FB120A 120VAC ±15%

FB230A 230VAC ±15%

AC Line Frequency 50/60Hz

Lamp Socket Voltage ±10%; 50/60Hz

Alarm Outputs

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

Lamp Failure Detection

FB120A For two 620W or 700W lamps

FB230A For two 500W or 700W lamps

Trip Delays

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

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

LEDs

Lamp Failure (Red)

Flasher Failure (Red)

Protection

Circuitry

Mounting

Dimensions

Termination

Environmental

Operating/Storage

Temperature

Weight

Glows when one or both lamps fail

Glows when the flasher fails

Encapsulated

Surface mount with two #6 (M3.5 x 0.6) screws

H 88.9 mm (3.5"); **W** 63.5 mm (2.5");

D 44.5 mm (1.75")

7 position barrier block for 20 AWG (0.5 mm²)
to 14 AWG (2.5 mm²) wire

-55° to 60°C / -55° to 85°C

≅ 7 oz (198 g)

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