

Key Features

- Ultra Compact Size Occupies less space than conventional flashers.
- Connector Based Wiring Terminations Saves manufacturing time and reduces errors.
- Industry Standard Functions Compatible with existing bus designs.
- Highly Efficient Power Switching Design Very low heat loss.
- · Rugged Anodized Aluminum Case.

School bus electronic eight-lamp flasher also controls stop-arms and crossing gates.

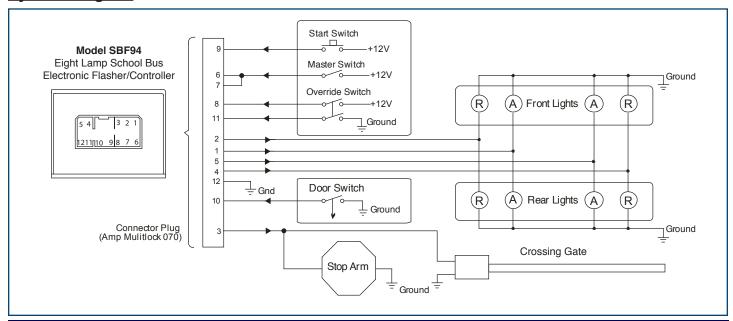
Technical Description

The Model SBF94 is an advanced connector based warning light flasher in a very small package. Its 2.30 inch x 1.25 inch footprint and Amp Multilock connector makes it ideal for OEM applications, as well as a replacement for Amp Multilock based flashers currently on the market. The SBF94 flasher's industry standard functionality provides sequential and non-sequential operation, and will accommodate both 4-lamp and 8-lamp warning light configurations. Each of the lamp outputs (two red and two amber) are rated at 16 amps. The output for the stop arm is rated at 3 amps.

The design includes safeguards for over current, over temperature, short circuit, and loss of ground. A highly efficient current switching circuit is employed that produces very little heat loss. The circuits are made in-house on our very own SMT line. Its metal case is made of rugged anodized aluminum.

The SBF94 utilizes the Tyco/Amp Multilock Series 070 connector system. The 12-pin header (containing male pins) is integral to the flasher case. The 12-pin connector plug (not supplied with the flasher) uses female pins.

System Diagram





Specifications

Electrical

Input Voltage: 8 to 16 volts
Output Current (Pins 7, 9, 10 & 12): 16 Amps
Output Current (Pin 4): 3 Amps

Mechanical

Weight: 0.15 lbs

Case Material:

Operating Temperature:

Anodized Aluminum

-40° C to +85° C

Storage temperature:

-50° C to +85° C

Connector System: Tyco/Amp Multilock Series 070 Cap (On Flasher): 12-pin (Amp p/n 174957)

Plug Housing: 12-pin (Amp p/n 173851 or 176116)
Cap Contacts: Male Pins (supplied with flasher)

Plug Housing Contacts: Female Socket (Amp p/n 173631-1 or 175027-

Reference: Tyco/Amp Catalog 65839

Pin Assignments

1	Left Amber	To Left Amber Lamp
2	Left Red	To Left Red Lamp
3	Stop Arm	To Stop Arm Solenoid
4	Right Red	To Right Red Lamp
5	Right Amber	To Right Amber Lamp
6, 7	Master	To Master Switch (+12V)
8	Override	To Override Switch (+12V)
9	Start	To Start Switch (+12V)

10 FRAA (Flash Red After Amber). To Door Sw. for Sequential, or no

connection for Non-Sequential.

11 FR (Flash Red When Door is Opened). To Override Sw. for

Sequential, or Door Sw. (Gnd) for Non-Sequential.

12 Ground To Ground Chassis Ground (Batery Negative).

Mechanical Drawing

