

the systems people

Eight Lamp School Bus Electronic Flasher/Controller



The Model SBF94 is an advanced technology 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 for both sequential and non-sequential operation, and will accommodate 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.

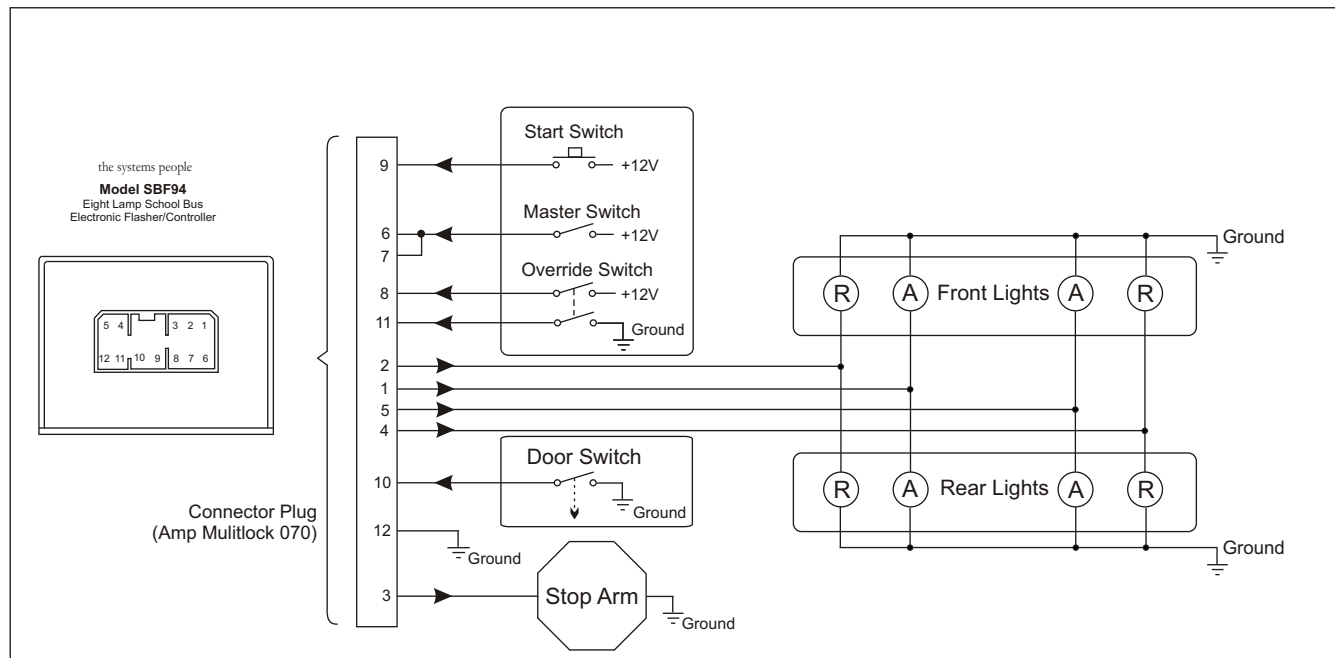
Key Features

- 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.

The design provides 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. Advanced electronic circuitry employs surface mount technology (SMT). 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



SBF94 School Bus Flasher/Controller

Specifications

Electrical

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

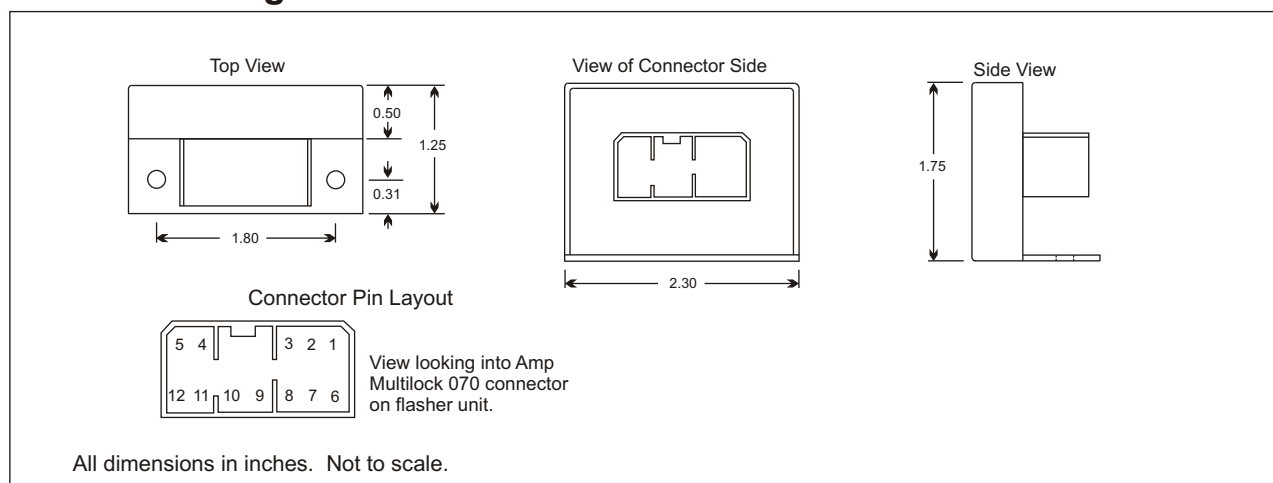
Mechanical

Weight:	0.15 lbs
Case Material:	Anodized Aluminum
Operating Temperature:	-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 175027-1)
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

Mechanical Drawing



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Specifications subject to change without notice.