

SBF90

Eight-Lamp School Bus Flasher



Key Features

- Industry Standard Functionality - Compatible with existing bus designs.
- Rugged Anodized Aluminum Case with Sealed Electronics.
- Industry Standard Faston Wiring Terminals and Pin Assignments.
- Ultra Compact Size - Occupies less space than conventional flashers.
- Highly Efficient Power Switching Design - Very low heat loss.

Technical Description

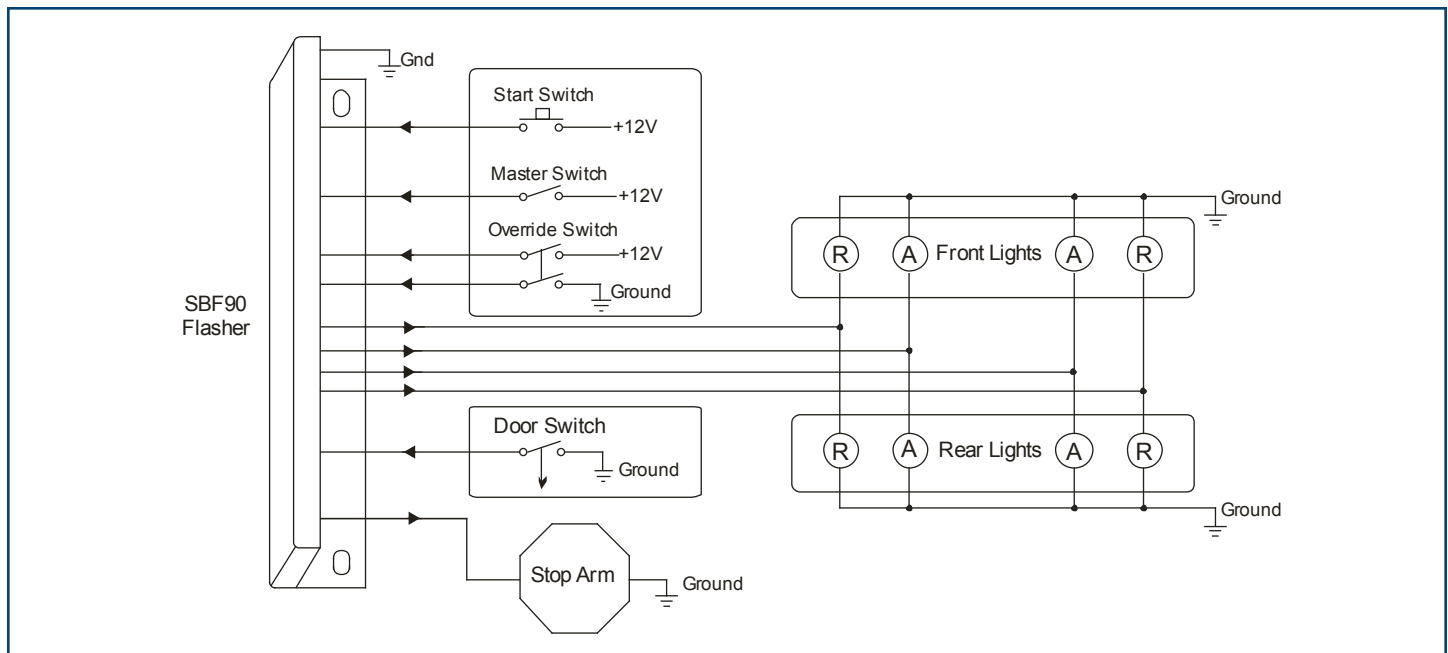
School bus electronic flasher also controls stop-arms and crossing gates

InPower's SBF90 is an advanced electronic warning light flasher designed for the school bus flasher replacement market. Mounting holes, wire terminations and functionality remain identical to the typical electronic flashers used on school buses. Reliable, affordable and compact, the SBF90 is an ideal replacement for older mechanical flashers or for installation in a new bus.

The SBF90 flasher's industry standard functionality allows 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) is rated at 16 amps. The output for the stop arm and crossing gate is rated at 3 amps. Wires are terminated via 0.250 inch Faston blade terminals and are labeled with both terminal numbers and functions.

The design includes safeguards for over current, over temperature, short circuit, and loss of ground. The highly efficient current switching circuit produces very little heat loss. Surface mount technology allows for a compact design, and each board is coated with a silicone coating to protect against dust and moisture. The metal case is made of rugged anodized aluminum.

System Diagram



Specifications

Electrical

Input Voltage:	8 to 16 volts
Output Current (Pins 3, 4, 6 & 7):	16 Amps
Output Current (Pin 5):	3 Amps

Mechanical

Weight:	0.15 lbs
Dimensions:	0.875" W x 1.00" H x 6.50" L
Case Material:	Anodized Aluminum
Operating Temperature:	-40° C to +85° C
Storage temperature:	-50° C to +85° C
Terminals:	0.250 Inch Faston (11 Total)

Wire Terminations



Pin Assignments

1	Override	To Override Switch (+12V)	9	FRAA	(Flash Red After Amber).	To Door Switch for Sequential, or no connection for Non-Sequential operation.
2	Master	To Master Switch (+12V)	10	FR	(Flash Red When Door is Opened)	To Override Switch for Sequential, or to Door Switch for Non-Sequential operation.
3	Right Amber	To Right Amber Lamp	11	Ground	Chassis Ground	To Chassis Ground (Battery Negative).
4	Right Red	To Right Red Lamp				
5	Stop Arm	To Stop Arm Solenoid				
6	Left Red	To Left Red Lamp				
7	Left Amber	To Left Amber Lamp				
8	Start	To Start Switch (+12V)				

Mechanical Drawing

