SoundOff Signal

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BUS LIGHT MONITOR
(ECVBSLM01)

BEFORE ATTEMPTING INSTALLATION, BE SURE YOU FULLY READ AND UNDERSTAND ALL INSTRUCTIONS.

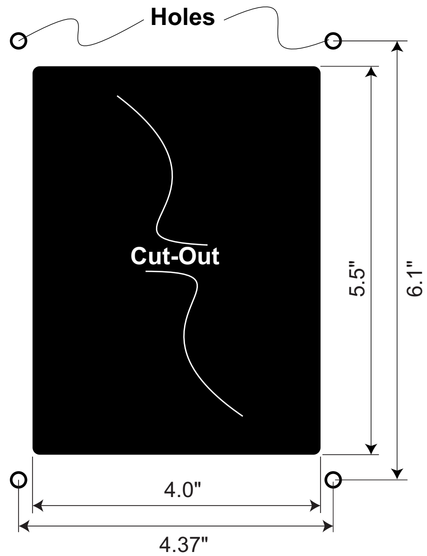
Specifications:

Operating Voltage:	8-16Vdc
Current Consumption (max):	500mA
Current Consumption (standby):	20mA

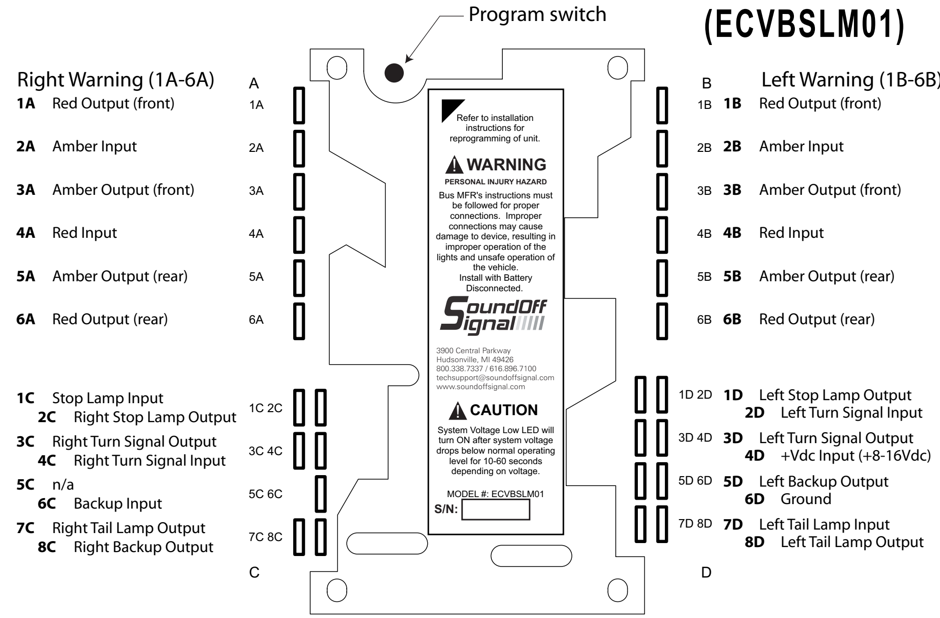
Warning Lamp Detection Specification:
Detection Current: 250mA-10 Amps

Stop/Turn/Reverse Lamp Detection Specifications:
Detection Current: 50mA-7.5 Amps

Tail Lamp Detection Specifications:
Detection Current: 7.5mA-3 Amps

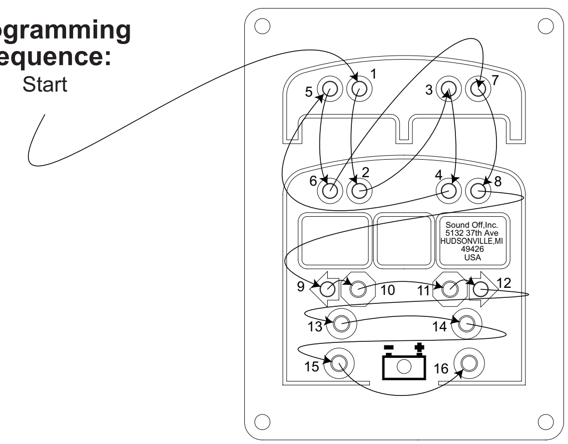


Cut-Out Dimensions:
The Bus Light Monitor installs in the area shown above.



Installation Instructions:
1) Following Diagram above, connect wires to required terminals. IMPORTANT: Ensure no power is supplied to Bus Light Monitor while making connections.

Programming Sequence:



Programming Instructions:

The Sound Off Bus Light Monitor is designed to work with both filament and the newer solid state technologies because it "learns" what lights are installed on the vehicle. The learning process occurs when the Bus Light Monitor is first programmed and should not require reprogramming unless lamps of different manufacturer and/or model number are replaced on the bus.

1) With all connectors attached but prior to securing the Bus Lamp Monitor in place, start engine and operate all lights for 2-3 minutes to allow system voltage and lamp temperature to stabilize. Ensure circuit board and terminals are protected from short to chassis during all steps of the installation.

2) Turn Tail Lamps ON.

3) Momentarily press the PROGRAM SWITCH located on the back of the Bus Light Monitor. All 16 lamps will turn ON to show the monitor is in programming mode. IMPORTANT: To ensure proper programming, Brake Pedal MUST NOT be depressed while PROGRAM SWITCH is activated.

4) Turn on the Warning Lamp Flasher (Yellow mode), making sure all 4 of the Yellow lights on the bus are flashing. Keep the Flasher operating until all 4 Yellow warning lamp indicators on the monitor are OFF.

5) Turn on the Warning Lamp Flasher (Red mode), making sure all 4 of the Red lights on the bus are flashing. Keep the Flasher operating until all 4 Red warning lamp indicators on the monitor are OFF.

6) Turn on the Left Turn Signal, making sure the Rear Left Turn Lamp on the bus is flashing. Keep the Left Turn Signal ON until the Left Turn Lamp indicator on the monitor turns OFF.

7) Depress the Brake pedal, making sure the Upper Brake lamps on the bus are ON. Keep the Brake Pedal depressed until the Left Upper Brake and Right Upper Brake Lamp indicators on the monitor turn OFF.

8) Turn on the Right Turn Signal, making sure the Rear Right Turn Lamp on the bus is flashing. Keep the Right Turn Signal ON until the Right Turn Lamp indicator on the monitor turns OFF.

9) Depending on whether the lower Red monitor lamps are connected to the brake lights or the tail lights:
Brake Lights: Depress the Brake pedal, making sure the Lower Brake lamps on the bus are ON. Keep the Brake Pedal depressed until the Lower Left and Right Brake Lamp indicators on the monitor turn OFF.
Tail Lights: Turn on the Tail lamp switch, making sure the Tail lamps on the bus are functioning properly. Keep the tail-lamp switch ON until the Lower Left and Right Brake Lamp indicators on the monitor turn OFF.

10) Apply the Parking Brake after making sure they are in proper working order. Place the Bus Shift Lever into Reverse and verify the reverse lamps on the bus are functioning properly. Keep the bus in reverse until the Left and Right reverse lamp indicators on the monitor turn OFF.

11) Repeat Steps 3-9 but this time ensure that the indicator lights on the monitor turn ON when the corresponding lamp is ON and the indicator light is OFF when the corresponding lamp is OFF.

The Bus Light Monitor programming is now complete and can be secured to the School Bus.

The enclosed school bus light monitor has been designed to be compatible with many different lighting configurations. SoundOff Signal has taken the best effort to anticipate usage of the school bus light monitor, however the actual configuration may differ from what has been anticipated, and therefore functional testing of the light monitor is required after installation to verify intended operation. **Installer to verify installation by sequentially disabling / removing all monitored lamps from the system and ensuring that the monitor properly indicates a lamp failure in each instance.**

Important: Installation Instruction are to remain in the vehicle for end customer use.