

# SURE-LITES

## Installation Instructions for AC Only Fire Alarm Flasher Interface-LED Exit

### IMPORTANT SAFEGUARDS

**WHEN USING ELECTRICAL EQUIPMENT, BASIC SAFETY PRECAUTIONS SHOULD ALWAYS BE OBSERVED INCLUDING THE FOLLOWING:**

1. **READ AND FOLLOW ALL SAFETY INSTRUCTIONS**
2. Do not use outdoors.
3. Do not mount near gas or electric heaters.
4. Equipment should be mounted in locations and at heights where it will not readily be subjected to tampering by unauthorized personnel.
5. The use of accessory equipment not recommended by Sure-Lites may cause an unsafe condition.
6. Do not use this equipment for other than its intended purpose.
7. **SAVE THESE INSTRUCTIONS**

### INSTALLATION

**Caution:** To avoid possible electrical shock, be sure that power supply is turned off before installing or servicing this unit.

**Step 1.** The AC only Fire Alarm Interface has two modes of operation, they are as follows:

- a) The lamps flash at a rate that is dependent on the fire alarm signal, i.e. (the flashing follows the fire alarm signal). For instance, when the fire alarm signal is present, the fire alarm signal itself will turn on and off at a particular rate determined by the fire alarm system. To enable this mode, S1 must be set to position 2, AC power must be off when setting the switch.
- b) The lamps flash at a rate (1.0 HZ) that is generated internally by the fire alarm interface module. This flash rate is not adjustable. To enable this mode S1 must be set to position 1, AC power must be off when setting the switch.

For mode (a) the fire alarm signal must be more than 10V and less than 40V, 120HZ maximum. For mode (b) the fire alarm signal must be more than 10V and less than 40V. It can be DC, or .5 HZ to 120HZ. The module will be shipped connected to flash at the internally generated rate.

**Step 2.** Connect the BROWN lead from the *Sure-Lites* equipment to the fire alarm (+ or hot) signal lead.

**Step 3.** Connect the BLUE lead from the *Sure-Lites* equipment to the fire alarm common lead.

**Step 4.** Without a fire alarm signal (input held low) the *Sure-Lites* emergency light fixture should operate normally.

**Note:** If the exit is connected to the normal AC supply prior to the connection for the fire alarm interface board, the brown and blue leads to the fire alarm interface input should be shorted together to prevent the exit from operating in the flashing mode.

### CONNECTIONS AND TESTING OPERATION

The fire alarm interface may be connected to the fire alarm panel or leads from a supervised audio/visual alarm circuit. For normal (non-flashing) operation, the BROWN input lead to the fire alarm interface must be held low relative to the BLUE common input lead. Figure 1 indicates the recommended wiring when connected directly to the fire alarm panel. When connecting fire alarm interface directly to a supervised audio/visual alarm conduit, the BROWN lead should be held at a minus potential (-40V max. relative to the BLUE lead) for normal non-flashing operation. A positive potential applied to the brown lead (indicating the activation of the alarm system) will cause the exit to operate in the flashing mode.

