FEDERAL SIGNAL
Safety and Security Systems

MODEL SSM

Strobe Synchronization Module

2561992 Rev C0 0324

Limited Warranty: This product's limited warranty can be found at www.fedsig.com/SSG-Warranty

SAFETY MESSAGES TO INSTALLERS AND USERS ⚠
This product should be installed and maintained by a licensed electrician who is thoroughly familiar with the National Electrical Code and will follow NEC guidelines and local codes. Failure to follow all safety instructions may result in property damage, serious injury, or death.

The selection of the mounting location for the device, its controls, and the routing of the wiring is to be accomplished under the direction of the facilities engineer and the safety engineer. Listed below are some other important safety instructions and precautions you should follow:

- Read and understand all instructions before installing or operating this equipment.
- Do not connect this sync module to the system when power is on.
- After installation, test the system to ensure that it is operating properly.
- Any maintenance to the light system must be done with the power turned off.
- To be an effective warning device, this product produces bright light that could be hazardous to your eyesight. Do not stare directly at the light. Rapid flashing could induce photosensitive epilepsy.
- After testing is complete, provide a copy of this instruction sheet to all operating personnel.
- Establish a procedure to routinely check the installation for integrity and proper operation.

OVERVIEW - The Federal Signal strobe synchronization module SSM is designed to sync low inrush current 24 Vdc models. The SSM accepts strobe input from a control panel or power supply and provides sync output to the strobes.

The SSM is UL Listed under Standard 1971 (Visual Appliances for the Hearing Impaired) for indoor use. The 24 Vdc input to the sync module SSM is polarized for compatibility with standard reverse polarity supervision of signaling circuit of control panel. The following strobe models and max. units are available for use with SSM.

Table 1 Voltage limits

24 Vcd Models and Series	Max DC Operating Current	Max Units supported by SSM
224XST-024, Series C	0.75 A	3
225XST-I-024, Series B	0.75 A	3
FB2PSTX-I-024, Series B	0.75 A	3
FB2PST-I-024, Series B	0.75 A	3
FB24ST-024, Series B	0.75 A	3
FB24ST-HI-024, Series C	0.75 A	3
224XST-HI –024, Series B	0.75 A	3
FSEX-HI-024, Series D	1.90 A	2
FSEX-024, Series D	1.90 A	2
27XST-024, Series E	1.90 A	2
24XSTHI	1.02 A	3

Operating DC Voltage Range Limits: 16Vdc to 33Vdc
Maximum Operating DC Current: 0.095A

Unpacking the Device: After unpacking the device, examine it for damage and verify parts. If a part is missing or damaged do not attempt to install and contact Federal Signal Customer Support.

Wiring the Device

⚠ WARNING

When strobes are connected to SSM module, make sure that the total peak operating current and total inrush current required by all the strobes do not exceed the rating of the strobe signal input source (control panel or power supply) connected to the SSM module's 24 Vdc input. Overloading these sources could result in loss of power, loss of synchronization, and failure to alert occupants during an emergency.

This product was tested only to the stated voltage range. It was not tested to 80% and 110% of these limits.

⚠ CAUTION

Do not connect more than maximum number of strobes suggested in the table above to the SSM module.

Connect the SSM module only to the circuits with continuously applied voltage. Do not use SSM in coded, nonregulated, or interrupted supply voltage circuits.

The SSM module has in-out wiring terminals that accept #14 to #18 (AWG) wires at each screw terminal.

1. Strip 3/8-inch wire insulation for connection to the screw terminal.
2. Connect the strobe signal output of the control panel (or power supply) to the terminals marked 24 Vdc in at J1. Connect the Signal Positive (+) to the terminal marked "+" and connect the Signal Negative from control panel to the terminal marked "–" of J1 of the SSM module.
3. Connect the red (+IN) lead of strobes#1 to be synchronized to the "+" and connect second red (+OUT) lead to red (+IN) lead of the strobe #2.
4. Connect the black (-IN) lead of the strobe#1 to the "–" screw terminal of 24 Vdc out at J3, and connect the second black (-OUT) lead to the (-IN) black lead of the strobe #2 as shown in Figures 1 and 2. The polarity shown in the wiring diagram is for the operation of the strobes. Control panel reverses the polarity during supervision.

To ground the unit, mount the SSM module to the grounded electrical back box with provided hardware.

Figure 1 Connecting the wires

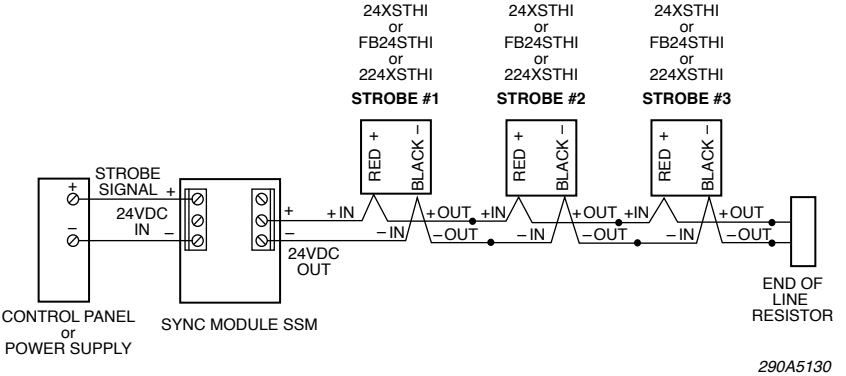

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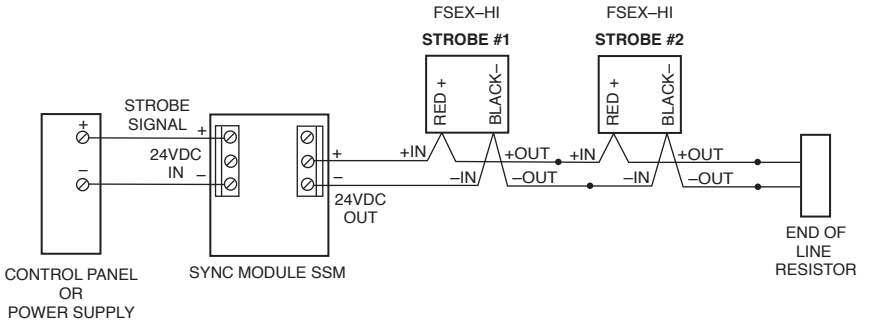
Figure 2 Connecting the wires



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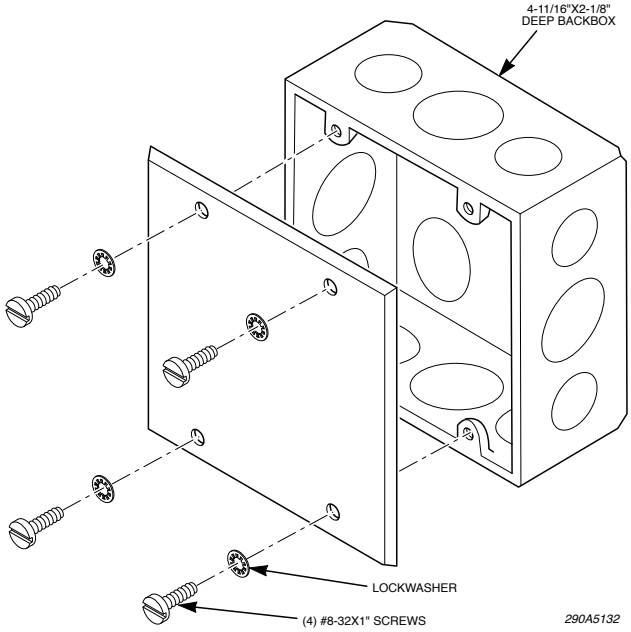
Mounting the unit

1. Mount the sync module SSM to a two gang, 2-inch deep, grounded back box as shown in Figure 3 using the supplied hardware.
2. Select a conduit entrance to the box such that there is sufficient clearance for the wires.

   NOTE: Use adequate lead length; excess lead length could result in insufficient wiring space.

3. Position the wires in the box so that there is minimum stress on the terminals.

Figure 3 Mounting the unit



Maintenance and Service

Technical Assistance: Contact our Technical Support Team at +1 708-587-3587 or signalsupport@fedsig.com.

Repair Service: A return authorization is required. Contact your Authorized Distributor or Federal Signal Customer Support. Defective products under warranty will be repaired or replaced at Federal Signal's discretion.

Product Returns: Returns require authorization from Federal Signal. Contact your Authorized Distributor for more information on our return policy or to request a return.

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