

Model 27XST

Explosion-Proof Strobe Light

25500046 Rev A4 0825

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 operating this system.
- After installation, ensure that all set screws and threaded joints are properly tightened.
- 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.
- Never alter the unit in any manner. Safety in hazardous locations may be endangered if additional openings or alternations are made.
- The nameplate, which may contain cautionary or other information of importance to maintenance personnel, should NOT be obscured in any way.
- **WARNING—EXPLOSION HAZARD:** Disconnect the fixture from the supply circuit before opening. Keep tightly closed when in operation. Do not disconnect while the circuit is live. Substitution of components may impair suitability for Class I, Division 2. Do not install in a hazardous location if the operating temperature exceeds the atmosphere's ignition temperature.

OVERVIEW— The Model 27XST strobe light is a visual signaling device for hazardous locations and provides 75 high-intensity flashes per minute. Units are available in 24 Vdc, 120 Vac 50/60 Hz, and 240 Vac 50/60 Hz. The light enclosure is rated Type 4X and IP66.



This equipment is suitable for use in Class I, Div. I, Groups C and D; Class I, Div. 2, Groups A, B, C, and D; Class II, Div. 1, Groups E, F, and G; Class III, or non-hazardous locations. For indoor and outdoor use, also listed as a marine visual signal appliance.

These devices are intended for permanent installation and operation in accordance with Title 46, Code of Federal Regulations, Parts 110-113, or Title 33, Code of Federal Regulations, Part 183, Sub-part I, Section 183.410, and the applicable requirements of the American Boat and Yacht Council, Inc., and/or ANSI/NFPA 302, "Fire Protection Standard for Pleasure and Commercial Motor Craft."

Installation

Unpacking the Device: After unpacking the device, examine for damage and verify parts. The package comes with one 27XST assembled unit without a mount. The mount is sold separately. If a part is missing or damaged, do not attempt to install. Contact Federal Signal Customer Support at +1 708-534-4756 or iordersup@fedsig.com.

WARNING

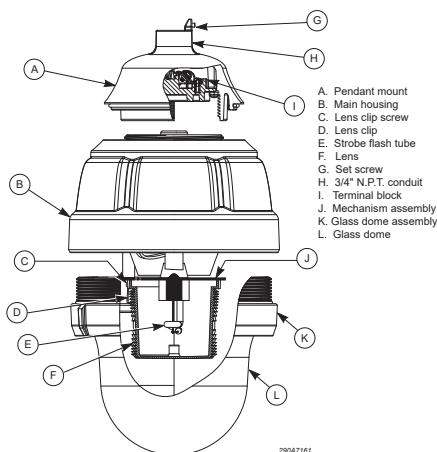
EXPLOSION HAZARD—This light fixture is not backward compatible with older products. Do not use this light fixture with the Series A versions of model CMXC, CMXC-R, PMXC, PMXC-R, WMXC, or WMXC-R mounting accessories. Failure to follow this warning may result in personal injury or death.

Damaged glass domes can lead to explosions that could result in serious injury or death. Replace damaged domes.

The mount for the 27XST is required and sold separately. There are three mounting options available: ceiling (CMXC-SB), pendant (PMXC-SB), and wall (WMXC-SB). Wiring must comply with Article 500 of the National Electrical Code and the local authority having jurisdiction. For marine applications, all wiring (including supply wire) must be stranded wire and meet the USCG (CFR46) Section (110-113).

NOTE: The glass dome is part of the explosion-proof housing. In applications where the dome requires added protection, a separately purchased metal guard (DGXC-SB) can be attached.

Figure 1 Exploded view



See instruction sheet manual 25500050 for mounting (CMXC-SB, PMXC-SB, MMXC-SB), electrical wiring, and installation instructions.

⚠ WARNING

WARNING SHOCK HAZARD— To avoid electrical shock hazards, do not connect wires when power is applied. To reduce shock hazards during maintenance, polarity must be observed when connecting AC units to the power source.

After the mount is installed and wired, the 27XST threads onto the mount making electrical connection. Make sure the o-ring seal is present on the mount and tighten the unit to the mount until the seal is fully compressed. Installation is complete. The unit is activated by applying voltage to the unit.

Maintenance and Service

⚠ WARNING

EXPLOSION HAZARD— Do not disconnect the equipment while the circuit is live or unless the area is known to be free of ignitable concentrations.

To maintain the explosion-proof integrity of the enclosure, **DO NOT** damage the glass dome or threads while disassembling or reassembling the unit. Lubricated joints exposed for long periods of time may attract small particles of dirt or other foreign materials. Body and cover joints should be reassembled as quickly as possible.

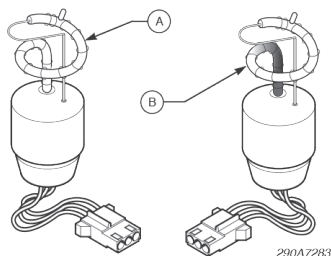
Flash Tube Replacement

As strobe lights are used, the flash tubes begin to darken, causing the light output to decrease. This darkening is characteristic of flash tubes. The darkening will begin near the base of the tube and progress upward. In

addition, as flash tubes age, they may have a tendency to misfire (not fire periodically).

After extended operation, occasionally check for flash tube degradation. Should the flash tube misfire, have a noticeable decrease in light output, glow continuously or darken to a point beyond that shown in Figure 2, it should be replaced.

Figure 2 Normal (A) and darkened (B) strobe tube



⚠ WARNING

SHOCK HAZARD — Strobe and HID light systems generate high voltages. Disconnect power from the strobe system and wait at least 5 minutes before opening the unit. Do not apply power to the unit while the unit is open. Failure to follow this warning could result in serious injury or death.

⚠ WARNING

HANDLE STROBE LAMPS CAREFULLY — Strobe lamps get hot enough to burn you. Always allow these lamps to cool before handling them. Strobe lamps are also pressurized and, if broken, can result in flying glass. Failure to follow this warning may result in personal injury.

⚠ WARNING

DO NOT TOUCH LAMP WITH BARE HANDS — Oil deposits on the glass portion of the strobe lamp can cause the glass to fracture during use. If you are unsure if the glass has been handled without gloves, clean the glass using a soft cloth and isopropyl alcohol before installing the lamp.

To change the flash tube:

1. Disconnect the power.
2. Remove the glass dome assembly from the main casting by rotating the dome assembly counterclockwise.
3. Loosen the lens-clip screw (1–3 turns) and rotate the clip 90°. Remove the lens to expose the flash tube.

- 4. With the lens removed, use a rocking motion and gently remove the tube. Replace the flash tube with the appropriate replacement part.
- 5. Place the lens in position under two hold-down tabs. Rotate the clip into place on the lip of dome.
- 6. Reassemble the unit by threading the glass dome assembly into the main housing until tight.

Cleaning the Enclosure

⚠ WARNING

EXPLOSION HAZARD – Never use an abrasive material or file to remove corrosive products from threaded surfaces. In extremely corrosive locations, equipment should be periodically inspected to guard against unusual deterioration and possible porosity, since this may weaken the enclosure structurally.

Maintenance procedures sometimes require fixtures to be hosed down for good housekeeping. The circuit must be turned OFF and the glass dome MUST be allowed to cool to ambient room temperature before cleaning.

The fixture should be cleaned periodically to maintain maximum light output. Only mild, non-abrasive cleaning agents should be used. The glass dome should be regularly inspected for scratches and chips, and if it is damaged, it MUST be replaced.

Lubrication

The threaded joint on the pendant mount should be kept well lubricated with a corrosion-inhibiting grease such as petrolatum or soap-thickened mineral oil. If corrosive materials have accumulated on the explosion-proof joints and cannot be removed with solvents, the parts should be discarded and replaced.

⚠ WARNING

EXPLOSION HAZARD— Never use an abrasive material or file to remove corrosive materials from threaded surfaces. In extremely corrosive locations, equipment should be periodically inspected to guard against unusual deterioration and possible porosity, since this may weaken the enclosure structurally.

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.

Replacement Parts

Contact the factory for spare parts availability and part numbers. Typical spare parts are listed below. Due to certification, certain component parts are not available for field replacement. Units with this type of damage must be either replaced entirely or returned to Federal Signal for service.

Description	Part Number
Fresnel Lens, Clear	K8550C095A
Fresnel Lens, Blue	K8550C095A-01
Fresnel Lens, Amber	K8550C095A-02
Fresnel Lens, Red	K8550C095A-03
Fresnel Lens, Green	K8550C095A-04
Fresnel Lens, Magenta	K8550C095A-07
Glass Dome Assembly	K8436147A
Flash Tube	K8107159A

Accessories

Description	Part Number
Dome Guard	DGXC-SB
Ceiling Mount	CMXC-SB
Wall Mount	WMXC-SB
Pendant Mount	PMXC-SB



FEDERAL SIGNAL

Safety and Security Systems

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Additional translations available at signaling.fedsig.com

Traducciones adicionales disponibles en signaling.fedsig.com

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