APPLICATION
EV Series explosionproof strobe lights are designed to provide an eye-catching powerful strobe light in industrial environments and other areas where audible signals cannot be heard.
EV Series strobe lights are supplied with 12 Vdc, 24 Vdc and 120 Vac or 240 Vac, 50/60 Hz voltage ratings with clear, amber, blue, green and red fresnel Lexan® lenses are available.
EV Series strobe lights are suitable for use in Class I, Division 1, Groups C, D; Class I, Division 2, Groups A, B, C, D and Class II, Groups E, F, G hazardous (classified) atmospheres as defined by the National Electrical Code®.

INSTALLATION

WARNING
All power must be turned OFF before and during installation and maintenance.

1. Install fixture — pendant, ceiling, wall bracket or bulkhead in its support position and attach to conduit system. Secure with setscrews.

WARNING
• Do not disassemble fixture.
• Make all connections in splice box only.
• Fixture must be installed with lamp base up. For mounting other than base up, consult factory.
• Do not install where the marked operating temperatures exceed ignition temperatures of hazardous atmospheres.

2. Pull field wiring into splice box and make all electrical connections following approved methods.
• Fixture must be installed on grounded conduit system.
• For 12/24 Vdc Models: Polarity must be observed. Incorrect polarity or exceeding the voltage rating of your particular model may cause fixture damage. Connect the red wire (+) to the positive line voltage and the black wire (-) to the negative or ground line.
• For 120/240 Vac Models: Polarity need not be observed. The 120/240 Vac models operate on both 50/60 Hz.

3. Replace splice box cover.

PERIODIC MAINTENANCE
All electrical equipment that is used in an industrial or heavy usage environment must be inspected regularly and repaired if necessary to insure its proper operation and safety for continued use.
Frequent inspection should be made. A regularly maintained schedule should be determined by the frequency of use and the environment. Inspections must be conducted at least once a year but more frequently if conditions warrant.

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SAVE THESE INSTRUCTIONS FOR FUTURE USE

IF985

Installation And Maintenance Information

TROUBLESHOOTING
WARNING
Before performing any maintenance or troubleshooting be certain that power is turned OFF. High voltages are present inside light assembly. WAIT AT LEAST 5 MINUTES AFTER SHUTTING OFF POWER BEFORE ATTEMPTING TO SERVICE THE UNIT. Troubleshooting and component replacement must only be done by qualified and competent personnel familiar with standard safety procedures and practices.

Flash Tube — 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. Also, as the flash tubes age, they may have a tendency to misfire (not fire periodically). Should the flash tube misfire, have a noticeable decrease in light output, glow continuously or darken to a point beyond that shown in Figure 1 below, it should be replaced.

USED FLASH TUBE TENDS TO DISCOLOR IN AREAS SHOWN AND SHOULD BE REPLACED.

NEW FLASH TUBE

Figure 1
Flash Tube
1. To replace the flash tube, loosen the thumbscrew located on the main casting just above the globe-and-holder assembly, then unscrew assembly about 10 turns counter-clockwise to remove.

NOTE: A thin blade screwdriver can be inserted in the jacking slots of the main casing to pry loose (or tighten) the globe and guard assembly where necessary. Caution should be exercised so as not to damage threads.

2. Loosen the three self captive screws on the lens support ring which secures the fresnel lens to the strobe mounting ring. When loosening the screws, grasp the support ring and fresnel lens with the other hand.

3. With the fresnel lens removed, carefully set aside support ring, and Fresnel lens lens for reassembly later. To remove flash tube from its socket, depress clip on side of flash tube and gently pull straight out removing flash tube. Install replacement flash tube by sliding end of flash tube into socket until clip snaps into place. (Be careful not to touch flash tube glass when replacing.)

4. Reassemble unit by replacing Fresnel lens and support ring securing them with three self captive screws previously loosened. Retreat globe and holder assembly onto main casting until seated against main casting flange. Retighten thumbscrew to complete assembly.

**CAUTION**

Use only replacement strobe subassemblies rated at the same voltage as specified on fixture nameplate.

4. Reattach the three #8 flat head screws by retreading screws through the mounting ring and into the support pillars.

5. Reattach the Fresnel lens by positioning lens support ring so that screw holes line up with electronic sub-assembly mounting ring. Retread the three screws through the strobe mounting ring.

6. Retread globe and guard assembly onto main casting until seated firmly against main casting flange. Retighten thumbscrew to complete reassembly.

**Replacement Lens**

1. To replace the lens, loosen the thumbscrew located on the main casting just above the globe-and-holder assembly, then unscrew assembly about 10 turns counter-clockwise to remove.

2. Loosen the three self captive screws holding the support ring for the fresnel lens. When loosening the screws, grasp the support ring and fresnel lens with the other hand.

3. Reassemble by installing replacement Fresnel lens and support ring, and securing them with three self captive screws previously loosened. Retread globe-and-holder assembly onto main casting until seated against main casting flange. Retighten thumbscrew to complete reassembly.

**REPLACEMENT PARTS**

Replacement parts are available from your authorized Crouse-Hinds representative, electrical distributor, or directly from the Crouse-Hinds Sales/Service Department, Syracuse, N.Y.

**Flash Tube**

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
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<tbody>
<tr>
<td>EVSR0304941-1</td>
<td>12Vdc</td>
</tr>
<tr>
<td>EVSR0304941-2</td>
<td>24Vdc</td>
</tr>
<tr>
<td>EVSR0304941-3</td>
<td>120Vac</td>
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<tr>
<td>EVSR0304941-4</td>
<td>240Vac</td>
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**Fresnel Lens:**

<table>
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<th>Code</th>
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<tr>
<td>EVSL0304926/C</td>
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<tr>
<td>EVSL0304926/R</td>
<td>Red</td>
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<tr>
<td>EVSL0304926/G</td>
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<td>Amber</td>
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<tr>
<td>EVSL0304926/B</td>
<td>Blue</td>
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</table>

*Specify color of lens. E.g.: a 12Vdc replacement unit with a red lens would be designated EVSR0304941-1/R.

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All statements, technical information and recommendations contained herein are based on information and tests we believe to be reliable. The accuracy or completeness thereof are not guaranteed. In accordance with Crouse-Hinds' "Terms and Conditions of Sale", and since conditions of use are outside our control, the purchaser should determine the suitability of the product for his intended use and assumes all risk and liability whatsoever in connection therewith.

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**COOPER Crouse-Hinds**

Quality from Cooper Industries

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