



# INSTALLATION INSTRUCTIONS For Strobe Warning Lights

## IMPORTANT SAFETY INFORMATION

**CAUTION!** The individual user should determine prior to use whether this device is suitable, adequate or safe for the use intended. Since individual applications are subject to great variation, the manufacturer makes no representation or warranty as to fit or suitability of these devices for any specific application.

**WARNING! ALWAYS DISCHARGE THE STORAGE CAPACITOR BEFORE TOUCHING OR REPLACING THE FLASH TUBE!** All strobe circuitry develops high voltage. Only operate when warning light is fully assembled. Always disconnect power before servicing. See instructions for discharging storage capacitor in products' "Note" sections.

## 110 VAC Models

### Permanent Mount Installation

Select suitable installation location. Use supplied ½" EMT fitting. On MS2-110 / ST2-110 models, remove center knockout. On model MS1-110P, the hole for the fitting is open. Use the housing as a drill template for mounting and wire pass-through. Mount using three sheet metal screws and washers. Hardware included.

### Electrical

For use with 120 VAC power sources only. While there is no polarity in product, electrical code specifies black wire for hot and white wire for neutral.

**Note:** To discharge storage capacitor use insulated clip leads to short circuit the two electrodes of the flash tube which come from the molded plastic base and enter the glass envelope.

### Relamping

1. Always discharge the storage capacitor before relamping.
2. Remove dome. On ST110 models, loosen screws and retaining clips to remove dome.
3. Unplug flash tube from circuit board socket. Plug in the new flash tube. Do not force the flash tube into the socket. The pin pattern is not symmetrical so the flash tube can only be installed one way.



## 12 – 48 VDC Models

### Permanent Mount Installation

**MS-11:** Mount using ¼" dia. center bolt or by using the three sheet metal screws through the holes with grommets in the housing; secure using washers. Use the housing as a drill template for the mounting and wire pass-through.

**ST-11:** Mount by drilling using the sheet metal screws through the holes in the housing; secure using washers. Use the housing as a drill template for the mounting and wire pass through.

**MS-21 / ST-21:** Mount by using the three sheet metal screws through the holes in the flange of the light housing. Use the housing as a drill template for mounting and wire pass through.

Screws and washers included with all models.

### Magnetic Mount Installation

Attach to any magnetic metal surface and plug into automobile power adapter.

### Electrical

For use with 12 through 48 VDC power source. Wiring designations are red for positive and black for negative.

**Note:** To discharge storage capacitor, touch the red and black supply wires together.

### Relamping

1. Always discharge the storage capacitor before relamping!
2. Remove dome. On ST-1 models, loosen retaining ring screw and remove retaining ring downward.
3. The flash tube assembly can be pulled from the PCB by firmly grasping and pulling upward. Replace by inserting the flash tube assembly into the socket.



## LIMITED WARRANTY

If it appears within one (1) year from date of delivery to Purchaser that any products or component parts do not conform exactly to the specifications and physical dimensions referred to above, and the Purchaser, at its expense, returns the product or component parts to the Seller together with a report of defects, the Seller shall review the inspection report and inspect the items and shall authorize, at its option, either the repair or replacement of any non-conforming products or component parts, whether on warranty, contract of negligence, shall not in any case exceed the amount to be paid by the Seller in obtaining and repair or replacement of non-conforming products or component parts, and upon expiration of the warranty period, all liability of the Seller shall be terminated.

Seller shall not be liable for any injury, loss or damage, direct or consequential arising out of the use or the ability to use the product. This warranty gives specific legal rights. You may have other rights, which vary from state to state. Some states do not allow the exclusion or limitation of incidental or consequential damages, so that the above limitation of exclusion may not apply to you.



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