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Maintenance Bureau Specification 2001-05
for
Class 1 Strobe Beacon (Gaseous Discharge)
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This document describes the features and specifications for a “360-Degree, Class 1, Strobe Beacon”.

1.0 Features:

- 1.01 Unit shall be a 360 degree strobe (gaseous discharge).
- 1.02 Shall produce at a minimum a 70 quad/quint flash pattern per minute(280/350 total flashes).
- 1.03 The flash tube shall not be obstructed in any way; it shall be “Helix” shaped and easily replaceable without using any mechanical hardware, nor require the un-installation/removal of the unit from the vehicle.
- 1.04 Unit shall meet or exceed SAE J845 and J1318 requirements for a Class 1 strobe warning beacon.
- 1.05 Dimensions of light should be between 4” & 8” in height and between 6” & 8” in diameter.
- 1.06 All components shall be fully enclosed and sealed to protect against moisture and vibration, in either a cast aluminum or polycarbonate base.
- 1.07 The base of the unit shall be capable of one of the following mounting options:
 - a. **Permanent Mount:** Have at least 2 mounting holes to enable mounting on a flat surface or shall also be available with a 1” NPT pipe mount.
 - b. **Temporary Mount:** a magnetic mount w/sufficient length cord and cigar plug with on/off switch.
- 1.08 Dome (lens) shall be constructed of a polycarbonate material and amber in color.
- 1.09 A method to prohibit the dispersal of light through the top of the dome shall be provided.
- 1.10 Amp draw shall not exceed 2.5 amps @ 12 VDC.
- 1.11 Unit shall be capable of attaching optional branch guard.
- 1.12 Unit shall have Hi/Lo intensity capability, either manually or automatic.

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- 1.13 Unit shall be capable of operating at either an operating voltage of 12 or 24 VDC.
- 1.14 Unit shall include all mounting hardware for desired installation at the time of order.
- 1.15 Unit shall include one (1) set of installation and operation instructions, in English.

2.0 General:

- 2.01 Upon award of contract ALDOT may require; 1) independent testing at Awardee's expense to verify specifications have been met or 2) having the Awardee provide a sample unit for review/evaluation that may be returned at the Awardee's expense and direction. Failure to comply shall be grounds for sacrifice of award. Sacrifice of award may not be limited to single line, but rather, the entire group if applicable to contract format.
- 2.02 All successful bidders shall be either an authorized distributor for the manufacturer or the manufacturer of the product line with sufficient quantities of new units to remedy warranty and purchase requests and offer accessories and service parts to maintain the needs of the vehicle fleet within seventy-two (72) hours after call.
- 2.03 Model number of item bid shall appear on bid document.
- 2.04 Bid shall also include documentation such as unit specifications, cut-sheets, certifications, etc. that show item meets this specification. Failure to provide documentation with bid shall disqualify the bid without notice.
- 2.05 The unit specified shall be warranted by the manufacturer, from the date of receipt or installation, to be free of defects of material or workmanship for a period of one (1) year and a six (6) month warranty for the flash-tube. Written proof of this warranty shall be provided with bid.