

# WHELEN<sup>®</sup>

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## Installation Manual: 900 Alpha Lighthouse

### Mounting:

- Using the dimensions from the template, mark off and drill the two 5/16" diameter vent tube holes and the 1" center wire hole into the mounting surface. Make sure lighthouse will not interfere with existing equipment and be aware of any items on the opposite side of the mounting surface.
- Insert the two vent tubes extending from the rear of the lighthouse into their holes making sure that the lighthouse is properly oriented. Using a scribe or similar tool, mark off the 4 mounting holes.
- Using a .250" drill bit drill the four mounting holes and install the 4 supplied grommets. Install a grommet (*customer supplied*) into the 1" wire hole.
- Using appropriately sized cable, extend the lighthouse wires to their connections. Fuse the +12VDC connections at 3 Amps and test the operation of the lighthouse before securing it to the vehicle.
- Position the lighthouse onto the mounting surface and secure the lighthouse to the vehicle using four #8 x 1 1/2" sheet metal screws. Make sure that the lighthouse is properly oriented (with the larger of the three LED groups to the left).

### Wiring:

- Plug the interface cable (provided) into the 900ALPHA lighthouse connector.
- The 9-position "D" connector on the interface cable will be connected to one end of a customer supplied serial cable. The other end of this cable will connect to the PC used to program the lighthouse.
- Using appropriately sized wire, extend the free RED wire to a switched +12VDC power source. Fuse this wire @ 3 amps.

**WARNING! All customer supplied wires that connect to the positive battery terminal, must be sized to supply 125% of the maximum operating current and fused "at the battery" to carry that load.**

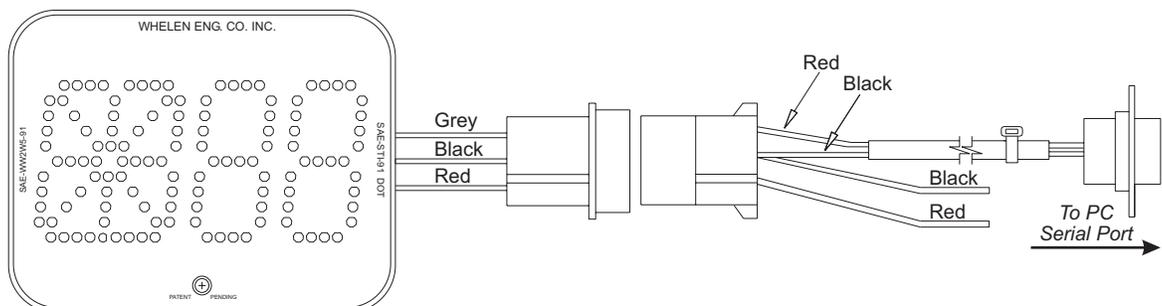
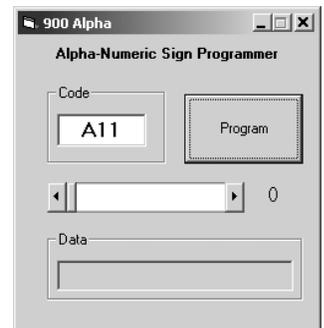
- Using appropriately sized wire, extend the free BLACK wire to chassis ground.

### Software Installation:

- Insert the software disc into the CD-ROM drive on the PC. Locate and run the file named '900ALPHA.exe' on this disc.
- Follow the on-screen instructions to install the configuration software.

### Programming the 900 ALPHA Lighthouse:

- Connect a 9-pin serial cable to the interface cable. Connect the other end of this cable into the serial port on the PC.
- With the lighthouse on, start the configuration software.
- Enter the desired code in the appropriate box. NOTE: The first character MUST be a LETTER; the second and third characters MUST be NUMBERS.
- Adjust the intensity of the display using the slider control. The effective range is from 0 (lowest) to 255 (highest).
- Press the 'Program' button to program the lighthouse.



# 900 SERIES / MOUNTING DIMENSIONS

1"  
Wire Hole

**IMPORTANT:** Templates may not be exactly to scale. Always check all measurements before drilling. Measurements are given in both Decimals and Fractions for convenience. For a more accurate measurement and installation, we recommend you use the Decimals.

