

WHELEN[®]

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Installation and Operation Guide *Solar Sentry*

Safety First

This document provides all the necessary information to allow your Whelen product to be properly and safely installed. Before beginning the installation and/or operation of your new product, the installation technician and operator must read this manual completely. Important information is contained herein that could prevent serious injury or damage.

- **Proper installation of this product requires the installer to have a good understanding of automotive electronics, systems and procedures.**
- **If mounting this product requires drilling holes, the installer MUST be sure that no vehicle components or other vital parts could be damaged by the drilling process. Check both sides of the mounting surface before drilling begins. Also de-burr the holes and remove any metal shards or remnants. Install grommets into all wire passage holes.**
- **If this product is mounted with tape or Velcro™, clean the mounting surface with a 50/50 mix of isopropyl alcohol and water and dry thoroughly.**
- **Do not install this product or route any wires in the deployment area of your air bag. Equipment mounted or located in the air bag deployment area will damage or reduce the effectiveness of the air bag, or become a projectile that could cause serious personal injury or death. Refer to your vehicle owners manual for the air bag deployment area. The User/Installer assumes full responsibility to determine proper mounting location, based on providing ultimate safety to all passengers inside the vehicle.**
- **For this product to operate at optimum efficiency, a good electrical connection to chassis ground must be made. The recommended procedure requires the product ground wire to be connected directly to the NEGATIVE (-) battery post.**
- **If this product uses a remote device to activate or control this product, make sure that this control is located in an area that allows both the vehicle and the control to be operated safely in any driving condition.**
- **Do not attempt to activate or control this device in a hazardous driving situation.**
- **If this product contains strobe light(s), halogen light(s) or high-intensity LEDs, do not stare directly into these lights at a close distance. Momentary blindness and/or eye damage could result.**
- **If this product contains strobe light(s), halogen light(s) or high-intensity LEDs, use only soap and water to clean the lamp lens. Use of other chemicals could result in premature lens cracking (crazing) and discoloration. Lenses in this condition have significantly reduced effectiveness and should be replaced immediately. Inspect and operate this product regularly to confirm its proper operation and mounting condition. Do not use a pressure washer to clean this product.**
- **It is recommended that these instructions be stored in a safe place and referred to when performing maintenance and/or reinstallation of this product.**
- **FAILURE TO FOLLOW THESE SAFETY PRECAUTIONS AND INSTRUCTIONS COULD RESULT IN DAMAGE TO THE PRODUCT OR VEHICLE AND/OR SERIOUS INJURY TO YOU AND YOUR PASSENGERS!**

READ BEFORE INSTALLING!!!

Do not install this product or route any wires in the deployment area of your airbag. Equipment mounted or located in the airbag deployment area will damage or reduce the effectiveness of the airbag and may become a projectile that could cause serious personal injury or death. Refer to your vehicle owners manual for the aurbag deployment area.

The User/Installer assumes full responsibility for determining the proper mounting location, based on providing ultimate safety to all passengers inside the vehicle. Whelen Engineering Company assumes no liability or responsibility for determining individual applications or exact installation location criteria.

IMPORTANT NOTICE! The Solar Sentry is NOT intended for use with power supplies using a specific, “latch-type” design for changing High power operation to Low power operation. With that type of design, the power supply must be turned off and then on to restore High power operation.

Mounting The Solar Sentry . . .

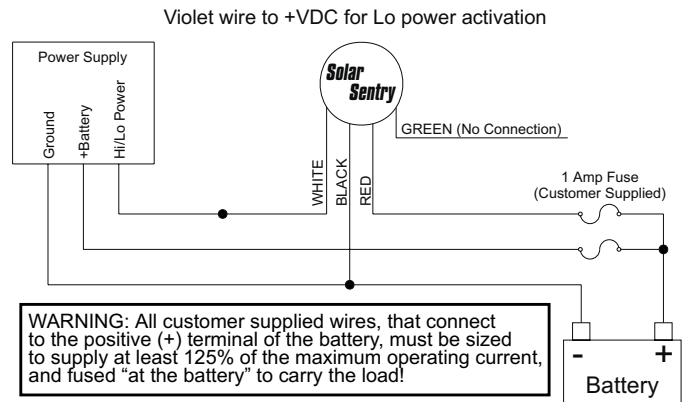
1. Locate an area in the vehicle that is exposed to ambient light within the vehicle. Please note that it is not necessary for the Solar Sentry to be in direct light for it to function properly. The Solar Sentry should not be mounted near an artificial light source (i.e.;the vehicle’s interior light).

CAUTION: If the Velcro™ mounting strip (included) is not used to mount the Solar Sentry, it will be necessary to drill holes into the mounting surface. The installer MUST be sure that no vehicle components or other vital parts could be damaged by the drilling process. Check both sides of the mounting surface before drilling begins!

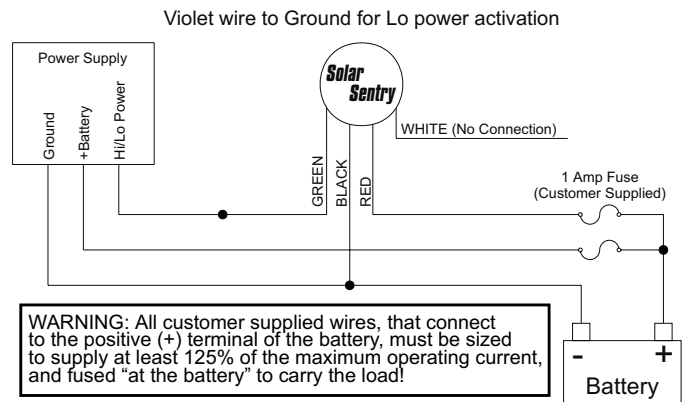
2. Position the Solar Sentry in its proposed mounting location. Using an appropriately sized drill bit, drill two mounting holes to accomodate the two, #6 x ½” Phillips pan head sheet metal screws (included).
3. Secure the Solar Sentry to its mounting surface with these screws.
4. Route the Solar Sentry cable to the desired power supply. The following section will outline the wiring connections for the Solar Sentry.

Wiring The Solar Sentry . . .

The type of power supply the Solar Sentry is being connected to will determine the proper wiring connections. If applying POSITIVE voltage to the Hi/Lo power control wire shifts the power supply into Lo power operation, the following schematic should be used:



If connecting the Hi/Lo power control wire to ground shifts the power supply into Lo power operation, the following schematic must be used:



Dip Switch Functions...

The following table will outline the function of the two dip switches:

Dip Switch	Position	Function
1	OFF (Default)	In this position the power supply is in Hi power operation during daylight hours. At night, Lo power operation is automatically triggered.
1	ON	In this position the power supply is in Lo power operation during daylight hours. At night, Hi power operation is automatically triggered.
2	OFF (Default)	In this position Lo power operation is triggered at a specific ambient light level.
2	ON	In this position Lo power operation is triggered at a lower ambient light level.