Solar Power LED Hazardous Location Light
C1D2 - Stanchion Mount - 30' SOOW Cord
Instruction Manual

WARNING

TO AVOID THE RISK OF FIRE, EXPLOSION OR ELECTRIC SHOCK, THIS PRODUCT SHOULD BE INSTALLED, INSPECTED AND MAINTAINED BY A QUALIFIED ELECTRICIAN ONLY, IN ACCORDANCE WITH ALL APPLICABLE ELECTRICAL CODES.

TO AVOID ELECTRIC SHOCK:

- BE CERTAIN ELECTRICAL POWER IS OFF BEFORE AND DURING INSTALLATION AND MAINTENANCE.
- PRODUCT MUST BE CONNECTED TO A WIRING SYSTEM WITH AN EQUIPMENT-GROUNDING CONDUCTOR.

TO AVOID EXPLOSION:

- MAKE SURE THE SUPPLY VOLTAGE IS WITHIN THE VOLTAGE RATING.
- ENSURE THE MARKED T RATING IS LESS THAN THE IGNITION TEMPERATURE OF THE HAZARDOUS ATMOSPHERE.
- DO NOT OPERATE IN AMBIENT TEMPERATURES ABOVE THOSE INDICATED ON THE PRODUCT NAMEPLATE.
- DO NOT OPERATE IF THE LENS, CORD, SEALS, HOUSING, RECEPTACLES, ETC. IS CRACKED OR DAMAGED. IF SO, DISCONTINUE USE AND CONTACT MANUFACTURER FOR REPLACEMENT PARTS.
- ALL FASTENERS SHOULD BE PROPERLY SEATED.

The Larson Electronics HAL-LED-SOL12-STCHN.25 Solar Powered Hazardous Location LED Light is an ideal lighting solution for remote areas and standalone applications where connection to external power is either impractical or unavailable. This unit provides 1,050 lumens of output during use, which can illuminate an area approximately 55’ long x 55’ wide.

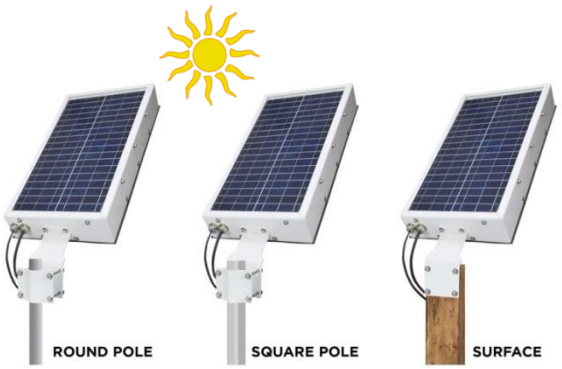
Mounting

Lamp:
The LED lamp features a 25-degree stanchion mount. Pole OD options include: 1", 1.25", 1.5", 2", 2.25", 2.375" or 2.5". The lamp is mounted on a pole by slipping the mount over the top of the pole, and tightening the T handle screw to hold in place. The cord can either be ran through the inside of a hollow pole, or down the side of a solid pole.



If mounting to a solid pole, be sure there is enough space for the cord to not become pinched or damaged, and don't tighten the T handle screw onto the cord. Allow a small space at the top of the pole so that the cord clears and doesn't get pinched between the light and pole.

Panel:
This solar panel includes a permanent mounting system that allows for mounting to square/round poles or flat surfaces such as a wall or post shown in figure 1.



Position the solar panel in a location that receives the maximum amount of sunlight throughout the day. This may need adjusted depending on the season. With pole mounting, loosen the adjustment bolts to fit solar panel onto pole. Once panel is in desired location, tighten bolts snug to secure panel to pole. For surface mounting, remove additional front plate and use the existing mounting holes to mount directly to surface.

Operation

This solar panel can be equipped with either a dusk to dawn day/night sensor, a motion sensor, an on/off switch, or configured to run 24/7. The day/night sensor is programmed to activate the solar panel in the evening and to shut it off during the day. The motion sensor will activate the panel upon detecting motion. The on/off switch will activate and shut off the solar panel according to the operator`s preferences. After the batteries have been fully charged, the beacon will illuminate with configured panel operation listed. The solar panel surface must be kept clean to collect sunlight effectively.

The light runs for 12 hours when the battery is fully charged. Charging time for the sealed lead acid batteries is 5 hours when exposed to direct sunlight. Indirect sunlight will extend the charge time. As with all solar powered equipment, charging time is affected by the amount of available ambient light. When ambient light levels drop below a certain level, such as on cloudy days, the unit will not recharge as quickly. The battery pack is contained within the solar panel, not the light.

On/Off Switch

The on/off switch powers the beacon on or off with the flip of a switch. The power switch is located on the solar panel for operating the beacon at a moment's notice.

Day/Night Sensor

The dusk to dawn photocell activates the light at night and turns it off at dawn. For operating the unit full time, slide the cover over the photocell sensor to disable it. This can be repositioned by loosening the set screw on the side and tightening once desired angle is achieved. The selected location should not be near night time light sources such as porch lights or street lights as they may cause the beacon to turn off at night.

Motion Sensor

When the motion sensor detects movement, the light is turned on. Once the motion has stopped, the light will shut off. **Sensitivity**, **Time Delay** and **Lux** can be adjusted with their respective control dials on the base of the motion sensor.

1. The **SENSITIVITY** setting controls the distance in which the motion sensor will work. The lowest setting will trigger the motion sensor when motion is close. The highest setting will trigger the motion sensor when motion is far.
2. The **TIME** setting controls how long the unit remains illuminated following activation & after all motion ceases. The minimum time (fully anti-clockwise) is approximately 5 seconds and the maximum time (fully clockwise) is approximately 5 minutes. Set the control to the desired setting between these limits.
3. The **LUX** setting determines the level of darkness required for the unit to start operating. The setting is best achieved by the procedure below:



Set the **LUX** control knob fully anti-clockwise. The unit will now start operating at dusk. If you require the light to activate earlier, wait until the ambient light level reaches the level of darkness at which you wish the lamp to become operative, slowly rotate the control in a clockwise direction until a point is reached where the lamp illuminates. Leave the control set at this point. At this position, the unit should become operative at approximately the same level of darkness each evening. Observe the operation of the unit. If the unit is starting to operate too early (e.g. when it is quite light), adjust the control slightly anti-clockwise. If the unit starts to operate too late (e.g. dusk), adjust the control slightly clockwise. Continue to adjust until the unit operates as desired.

SOLAR PANEL MAINTENANCE

If the lens or solar panel becomes dirty, wipe down with a mild soap and water solution. Keep snow and debris clear of the solar panel so the batteries can charge. If the panels are covered by snow or debris for an extended period of time, allow the battery to charge in full direct sunlight for at least 5 hours for the battery to reach its full capacity. It is recommended to occasionally inspect the unit for any defects.

Solar Panel Troubleshooting

If for any reason the LED beacon does not power on:

- ➔ **Batteries not fully charged:** Make sure the fixture is placed in an area where the solar panel gets the maximum amount of full, direct sunlight every day. If the solar panel does not receive enough sunlight during the day (e.g. due to cloudy or overcast weather conditions), it will be recharged on the next sunny day and resume operation.
- ➔ **Other light sources:** (For units equipped with a day/night sensor.) If your solar light is located too close to street lights, porch lights or other lights, the solar panel may turn off the fixture. Relocate the solar panel or eliminate those other light sources.
- ➔ **Not enough direct sunlight:** Ensure that the fixtures are not installed in a shady area, for example, in the shadow of a tree or a house. If necessary, move the fixtures to an area that gets full direct sunlight.
- ➔ **Switch is in the OFF position:** (For units equipped with a power switch.) Cycle power button in a dark room. The light(s) should come on when the switch is in the on position if the unit is fully charged.

LAMP INSTALLATION

Warning: Be sure power is off and lamp has cooled before beginning any maintenance!

1. Remove guard and globe from light fixture.
2. Unscrew light bulb.
3. Replace with equivalent lamp not exceeding rated wattage.

USE AND CARE

Unauthorized modification may impair the function and/or safety of this device and could affect the life of the equipment. Always check for damaged or worn out parts before using the device. Store it in a secure place out of the reach of children when not in use. Inspect for good working condition prior to storage and before re-use.

REPLACEMENT PARTS

The HAL-LED-SOL12-STCHN.25 is designed to provide years of reliable performance. Should the need for replacement parts arise, please contact Larson Electronics.

THESE INSTRUCTIONS MAY NOT COVER ALL DETAILS OR VARIATIONS OF THIS PRODUCT FOR YOUR EQUIPMENT OR INSTALLATION REQUIREMENTS. SHOULD FURTHER INFORMATION NOT COVERED BY THESE INSTRUCTIONS BE REQUIRED, PLEASE CONTACT LARSON ELECTRONICS BY EMAIL AT SALES@LARSONELECTRONICS.COM OR BY PHONE AT 1-877-348-9680 FOR FURTHER ASSISTANCE.

PLEASE VISIT LARSONELECTRONICS.COM FOR **WARRANTY** AND **RETURN** INFORMATION.