

C1D1 Solar Powered Explosion Proof LED Strobe Light - 80' Cord - C1D2 Panel

Instruction Manual

Do not attempt operation until you are familiar with all warnings, precautions, and procedures outlined within this instruction sheet. Read carefully before operating. Retain these instructions for future reference.

WARNING:

USER SHOULD BE TRAINED IN THE PROPER USE AND MAINTENANCE OF THIS DEVICE. IF WIRING OR LAMP REPLACEMENT INSTRUCTIONS ARE NOT FOLLOWED EXACTLY, THE HANDLAMP MAY NOT BE SUITABLE FOR THE HAZARDOUS LOCATION INVOLVED. WHEN HANDLAMP IS CONNECTED TO A POWER SOURCE IN HAZARDOUS AREA, JUNCTION BOX, OR PLUG, AND MATCHING RECEPTACLE MUST BE SUITABLE FOR HAZARDOUS LOCATION INVOLVED.

WARNING: To prevent ignition of a hazardous atmosphere, the supply circuit should be disconnected when installing, re-lamping or performing any maintenance on this fixture.

WARNING: When installing this fixture in hazardous locations, check the operating temperature limits prior to installation to be sure it confirms to the environmental temperature restrictions and NEC classifications. Check the fixture's metal nameplate for temperature (T) ratings.

WARNING: The globe is tempered glass. Do not scratch or chip. Turn the power off before starting installation, repair or re-lamping.

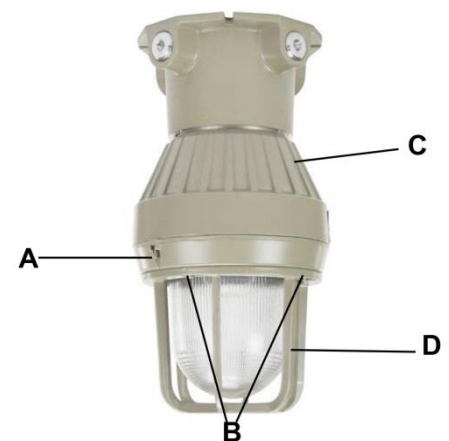
WARNING: Operate this fixture only at the voltage of your specific supply circuit. Failure to do so will result in damage to the fixture.

WARNING: Substitute components may impair explosion proof safety.

THE GLOBE IS MADE OF TEMPERED GLASS. IF THIS GLASS BECOMES SCRATCHED OR CHIPPED IT SHOULD BE REPLACED IMMEDIATELY.

INSTALLATION

1. Install fixture's mounting accessory per instructions supplied with the mount (See Mounting Options). Unscrew and remove the fixture from mount (C).
2. Verify that the supply line voltage and fixture nameplate voltage are compatible.
3. Wire according to wiring instructions in this manual.
4. Make sure the external threads at the top of the fixture tank are free of any dirt, metal chips or other foreign materials. Apply a thin coat of lubricant to the threads.
5. Close off any open NPT ports.
6. Screw fixture into mount and tighten the set screw.
7. Loosen the set screw for the globe assembly to access pattern switch (A).
8. Enable power to the fixture and toggle switch until desired pattern is selected.
9. Make sure the globe support threads are clean. To prevent galling of threads, apply a thin coat of lubricant to the male threads. Thread the globe support assembly back into the fixture tank and turn until there is no gap between the flanges.
10. Tighten the locking screw (A).
11. To install the guard (D) loosen the 4 screws (B), slip the guard over the screws and rotate it to the locked position. Tighten the screws firmly. The globe assembly can be removed with the guard installed.



Join or "lap" marks may form during the pouring of molten glass in the globe manufacturing process. It is not unusual for these marks to become visible. This is a common and normal occurrence for large explosion proof globes and does not affect performance. Take extreme care not to cross-thread the fixture when installing into mounting accessory. Install fixture by threading into the mounting accessory; the electrical contacts will automatically engage. Be sure the fixture is tight. This fixture is factory sealed.

The EPSLED-80-SOL-80C-C1D2-20C comes standard with an inverted pendant mount for compatible surfaces, walls, or ceilings. This mounting configuration ensures maximum visibility of the explosion proof LED strobe fixture. Additional optional mounts are available for other mounting configurations, contact Larson Electronics to order if a different mount is needed.

Pendant Mounting

1. Thread the fixture onto the conduit, sealing around the conduit using approved NEC procedures. Flats are provided at the top of the fixture to tighten with a wrench.
2. After securing to the conduit, tighten the set screw.

Wall Mounting

1. Remove the wiring box from the arm and attach box to the mounting surface.
2. Pull leads to the box and through the arm to the wiring chamber.
3. Attach the arm to the wall box.
4. The mounting screws should be tightened in alternate sequence.

Ceiling Mounting

1. Attach fixture to mounting surface using the two mounting tabs provided.



HOW SOLAR LIGHT WORKS

Solar light must be placed outdoors. The solar panel collects and converts sunlight into DC power while the pre-installed rechargeable batteries store the energy to power the light at night.

Solar light illumination time

It depends on the seasonal sunlight availability in your geographical area under certain weather conditions. Stronger or longer sunlight hours enable batteries to store more energy which provides more lighting hours. On the contrary, weaker or shorter sunlight hours reduce the lighting hours and its brightness as well.

Solar panel mounting locations

Solar panel must be placed outdoor at a location with its solar panel receiving direct sunlight at least five hours each day. Shadowed locations will not allow batteries to be fully charged and will reduce both the brightness of the light and the lighting hours. Precautions (prior to first time use)

1. To maximize battery capacity, the solar panel should be fully charged by direct sunlight for five hours before initial use.
2. Under extremely cold temperatures, the batteries may not charge fully. In such cases, the Solar Lights may not stay illuminated as long.

MOUNTING SOLAR 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 mounted, tighten bolts snug to secure panel to pole. For surface mounting, remove additional plate and use the existing mounting holes to mount directly to surface.

MOUNTING

The light is connected to the panel by cord. Be sure the beacon is connected to the solar panel and that the deutsch connections are tight. Run the cord and mount the beacon nearby.

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.

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.

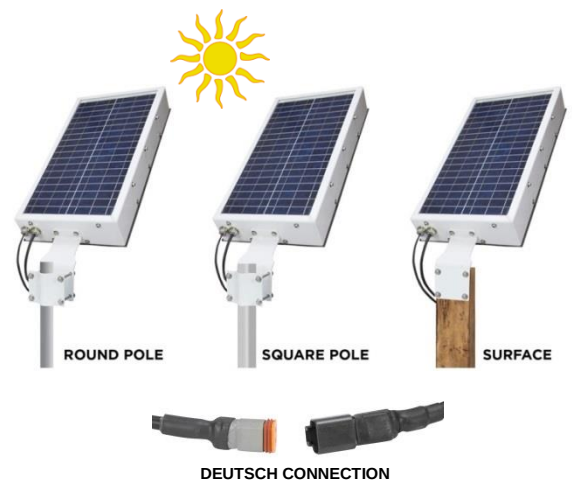
DAY/NIGHT SENSOR (If Equipped)

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 (If Equipped)

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.

MOTION SENSOR POSITION

The motion sensor's position can be adjusted by loosening the hand screw on the side, repositioning, and tightening the hand screw.

CHARGING

With up to 5 hours of daily sunlight, this beacon is designed to function 15 hours. Ensure there are no obstructions that could result in little to no sun reaching the panels.

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 MAINTENANCE

Turn OFF the supplying circuit before opening fixture for re-lamping. To re-lamp loosen the locking screw and remove the globe support assembly.

The globe support assembly disengages after approximately 3 turns. Access to the fixture internal lamp area is only necessary for changing the flash pattern. Clean the threads and apply a thin coating of lubricant before reassembling.

To maintain maximum light output, the fixture should be cleaned periodically. Maintenance procedures sometimes require fixtures to be hosed down for good housekeeping.

The supply circuit must be turned OFF and the fixture globe must be allowed to cool to the ambient room temperature before cleaning. Only mild, non-abrasive cleaning agents should be used. These periodic cleaning procedures are important to prevent the accumulation of dust and dirt which will impair the light output of the fixture. The glass globe should be regularly inspected for scratches and chips and, if damaged, the entire globe support assembly must be replaced.