

Solar Powered Explosion Proof LED Lighting w/ Motion Sensor - 2 Foot, 2 Lamp Fixture - Class 1, Div. 1 - 60' Cord

Made in USA

an Explosion Proof Solar Power LED Light Fixture with Motion Sensor that is the ideal lighting solution for remote areas and standalone applications where connection to external power is either impractical or unavailable. This powerful yet compact hazardous location light delivers crisp, clean light while reducing operating costs. Charged by the 30 watt solar panel, two 12V AC 8aH sealed lead acid batteries provide constant, reliable power to the 2 tube, 28 watt fixture. This light fixture is motion activated and is equipped with a C1D1 remote mountable motion sensor on a 10` cord. ships with a convenient 60` of 12/2 SOOW cord connecting the solar panel to the light fixture which allows operators to position the panel where the most ambient light is available.

We have eliminated the ballast box normally associated with fluorescent fixtures which reduces overall weight, creates a slimmer unit profile, and helps this LED fixture maintain a T-6 temperature rating. The solid state design of the LED lamps gives this fixture superior resistance to damage from vibrations and extremes in temperature as well as a lamp service life over twice that of standard T8 bulbs.



LED Benefits: Unlike gas burning and arc type lamps that have glass bulbs, LEDs have no filaments or fragile housings to break during operation and/or transportation. Instead of heating a small filament or using a combination of gases to produce light, light emitting diodes (LEDs) use semi-conductive materials that illuminate when electric current is applied, providing instant illumination with no warm up or cool down time before re-striking. Because there is no warm up period, this light can be cycled on and off with no reduction in lamp life.

LED lights run at significantly cooler temperatures than traditional metal halide and high pressure sodium lights and contain no harmful gases, vapors, or mercury, making them both safer and more energy efficient. No extra energy is wasted in cooling enclosed work areas due to external heat emissions from bulb type lights, and the operator risks associated with traditional lighting methods, such as accidental burns and exposure to hazardous substances contained in the glass bulbs, are eliminated. Solid state LED lighting is also safer for the environment as LEDs are 100% recyclable. And recycling simultaneously reduces operating costs by eliminating the need for the expensive special disposal services required with traditional gas burning and arc type lamps.

Motion Sensor: The motion activated light fixture. The light powers on when motion is detected. The included motion sensor is C1D1 rated and features adjustable sensitivity and time delay after motion. It provides up to 15` by 15` coverage when mounted at 20`-25`. The motion sensor is connected to the fixture via a 10` cord and can be mounted up to 10 feet away from the light fixture itself via an adjustable swivel trunnion bracket.

This unit leverages cutting-edge microwave sensors to detect motion. When in use, the device sends out discreet waves that are reflected back from nearby walls and objects (not heat or light). Microwave sensors are not affected by line of sight, resulting in wider and more accurate coverage of the target area. By comparison, traditional infrared sensors can only detect heat and light (factors used to identify movement) within the unit's field of view. Microwave sensors also provide stable performance in unpredictable climates and can penetrate glass, plastic and other non-metallic objects.

NOTE: We expect the light to be mounted separately from the panel. This means the solar panel can be mounted in direct sunlight (not in the hazardous area) while the light is mounted in a hazardous area workspace. Standard installation for explosion proof lighting, including threaded rigid pipe to the LED light fixture and appropriate seal-offs, etc. are required.

Additional Mounting Options: Unless otherwise specified, our standard, most popular configuration is the bracket end mounting shown above. We also offer a pendant mount for those needing to suspend the fixture away from the ceiling surface (i.e. suspend from pipe or conduit).

Standard Bracket Mounts: Each bracket is cinched to the bracket mounting peg on each side of the light. The angle of the bracket is set by tightening two cap screws on either side of the bracket. The cap screws act as a set screw. The bracket itself is

mounted via a single bolt hole at the top of the bracket. There are two brackets, one on each end of the light. Once the brackets are mounted to a surface (ceiling, floor or wall), the light fixture can be removed from the brackets by loosening the cap screws that hold the bracket to the mounting peg. The pictures shown above illustrate the side brackets. The third picture enlarged below also shows the brackets at the both ends of the light.

Power/Wiring: Powered by two 12V AC 8aH sealed lead acid batteries that are recharged by a 30 watt solar panel. These rechargeable batteries provide a continuous supply of steady, reliable power. The lead acid battery pack is contained within the solar panel, not the light. This fixture ships with 60 feet of 12/2 SOOW cord that connects the light fixture to the solar panel. Custom lengths are available upon request. Please contact us for special requirements.

Suggested Applications: Paint spray booths, Aircraft maintenance, Oil drilling rigs, Refineries, Solvent and cleaning areas, Gas processing plants, Chemical manufacturing, Waste treatment plants, Gas processing plants.