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PML-90LED-SW

90 Watt LED Permanent Mount Light - Swivels and Pivots - On/Off Switch - 9-50V DC

Product ID: 69873

Please see last page for supporting documentation for this product(certificates, CAD files & drawings, IES files, wiring diagrams, etc).



Larson Electronics LLC manufactures a wide variety of products, including custom built to spec designs. The pictures displayed for this unit are a general representation of form factor for the product line and may not accurately represent this exact configuration in every detail due to custom builds and changes between similar products in our standard catalog. The specifics for this configuration are listed in the specification table and supporting documentation (CAD files, Dimensional Drawing, Name Plate Diagram, Wiring Diagram, etc.). This means that specific details (receptacles, plugs, wires, connections, mounting brackets, external finishes, etc.) may not be accurately represented in images vs specifications. Please review specifications and do not order based solely on images.

PML-90LED-SW LED Spotlight

Lamp Type: Seoul Z-Power LED
Watts: 90 Watts
Voltage: 9-50V DC
Lighting Configuration: Spot or Flood
Mounting: Flat Surface - Adjustable Tensioners
Wiring: Deutsch Connector on Light, Choice of Cigarette Plug
Wiring Options: 16` Cigarette Coil, 16` Cigarette, 21` Ring Terminals, 16` Battery Clamps or 16` Flying Leads
Amps: 7.5 Amps @ 12VDC
Light Color: 6000K

Lumens: 8100 +/- 400 lumens

Vibration Tolerance: 8G RMS
LED Life Expectancy: 50,000 Hours
Optics Efficiency: 90%

Materials: Aluminum Housing, Polycarbonate Lens

Dimensions, Lamp Only: 5.5"W x 5.5"H x 4.5"D

Approvals/Ratings

IP68 Water & Dust Proof
8G RMS Vibration Tolerance
2100` - 6000K Light Beam
DC Power Options
Ambient Op Temp -45°C to 85°C
50,000 Hour Service Life

Powder Coat Aluminum Body

Special Orders - Special Requirements

Contact us for special requirements

Toll Free: 1-800-369-6671

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Buy American Compliant

The PML-90LED-SW from Larson Electronics is a 90 Watt LED Spotlight that produces 8,100 lumens of intense bright light and offers the versatility of 9-50V DC operation from a compact spotlight profile. This permanent mount LED

spotlight is equipped with a rugged polycarbonate control handle and tension hinges that allow the unit to be easily adjusted and set into position and produces a powerful light beam reaching over 2100 feet in length.
This 90 watt LED spotlight contains 9, 10-Watt LEDs producing 8,100 lumens of bright white light while drawing only 7.5 Amps on 12 Volts. The light beam from this unit in spot configuration is approximately 2100` long by 140` in width while an optional flood configuration covers an area approximately 1,200 feet long by 450 feet wide. This unit is IP68 rate waterproof to 3 meters, sealed against ingress of dust and dirt and ideal for use in industrial, commercial and private applications.
The 4 inch square mounting base has 4 corner bolt holes to keep the spotlight secured to the mounting surface under extreme vibration and off-road conditions. Tension hinges incorporated into the mounting assembly allow the light to hold its position once adjusted without the need to set or lock any hardware before releasing the adjusting handle. The operator simply adjusts the unit to the desired position and releases it to set the unit into position. This unit includes a heavy duty switch mounted on the light housing for on/off operations.

This image shows a dark street with no illumination but the distant street lights

Click Photo to Enlarge

This image shows the PML-90LED-SW illuminating the street.

Click Photo to Enlarge

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. In addition, LEDs are also safer for the environment as they are 100% recyclable, which eliminates the need for costly special disposal services required with traditional gas burning and arc type lamps.
Durability: This series of LED light bars from Larson Electronics offers IP68 rated construction that is designed to withstand demanding environmental and operating conditions. These units can withstand frigid temperatures, are waterproof to three meters and resist ingress of dust, dirt and humidity. The housing on this unit is formed from cast aluminum, the control handle is solid polycarbonate and the lens is unbreakable polycarbonate. The Seoul Z-Power LEDs offer excellent resistance to shocks and vibrations and are rated at 70% lumen maintenance after 50,000 hours of use.
Mounting: This light has a 4 inch square steel mounting plate that is secured to the mounting surface via 4 screws. The mounting assembly on this unit allows the unit to be rotated and adjusted vertically. The adjusting hinges on this light are tensioned, allowing the user to simply position the light as desired without any need for locking the unit into place. Once positioned, the light will hold its position until the user again repositions it.

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PML-90LED-SW 35° Flood Beam



PML-90LED-SW 10° Wide Spot Beam



Power: This light can be operated on low voltage 9-50 volt DC current and includes a cigarette plug. The light assembly can be directly to any 9-50V DC power source simply by connecting the unit to the 9-50VDC volt power supply. These units are able to monitor and adjust input current to maintain the correct LED voltage levels regardless of input levels across a specific range and as a result can operate on current ranging from 9 to 50VDC without any modifications necessary.



16ft Coil Cord w/Cigarette Plug
Click Images to Enlarge



21ft Cord with Ring Terminals



16ft Cord w/Battery Clamps



16ft Cord with Cigarette Plug

Wiring: Each light comes with a detachable 16 foot coil cord with cigarette plug. The cord is detached via a weatherproof, 2 pin Deutsch connector which easily and securely attaches and detaches the coil cord from the spotlight. Other cords, including 21 foot cords with ring terminals (C-21RT), 16 foot cord with spring battery clamps (alligator clips) (C-16BC) and a 16 foot straight cord with cigarette plug (C-16CP) are available. This light can be ordered in either 12 volt or 24 volt configuration, allowing it to be used with any vehicle or ATV equipped with a cigarette plug. Choose voltage below when ordering.
At Larson Electronics, we do more than meet your lighting needs. We also provide replacement, retrofit, and upgrade parts as well as industrial grade power accessories. Our craftsmen can custom build any lighting system and/or accessories to fit the unique demands of your operation. A commitment to honesty, quality, and dependability has made Larson Electronics a leader in the lighting and electronics business since 1973. Contact us today at 800-369-6671 or message sales@larsonelectronics.com for more information about our custom options tailored to meet your specific industry needs.

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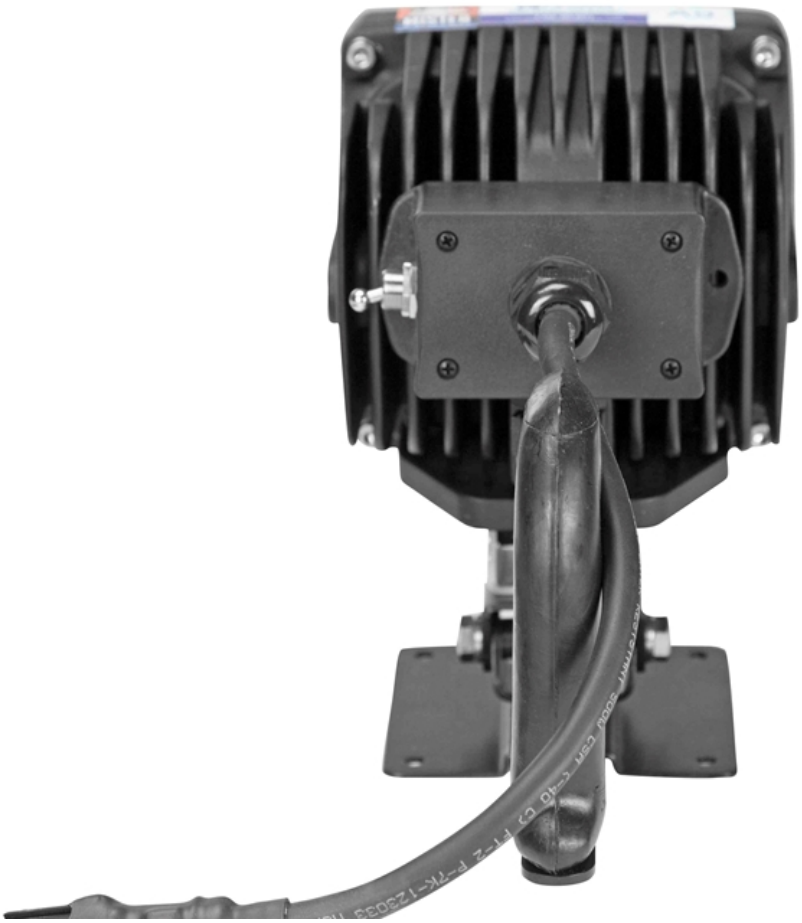
Frequently Asked Questions (FAQ)

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PML-90LED-SW

Product ID: 69873

Harmonized System (HS) Code: 9405.41.84.10

Export Control Classification Number (ECCN): EAR99

Options:

PML-90LED-SW-Beam Config-Cord

Example: PML-90LED-SW-S-16CP.CC

Beam Config	
SPOT	-S
FLOOD	-F

Cord	
16' CIG COIL	-16CP.CC
16' CIG	-16CP
21' RING TERMS	-21RT
16' BATT CLAMPS	-16BC
16' FLYING LEADS	-16.PIGTAIL

Links (Click on the below items to view):

- HigResPic1
- HigResPic2
- HigResPic3
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- HigResPic7
- HigResPic8
- HigResPic9
- HigResPic10
- ISO 9001 Certification
- Business Certificate
- Shipping Time Map