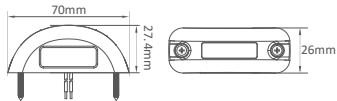


OPERATION INSTRUCTION

LED Licence Plate Lamp

9002

Specifications



- Voltage: Multi-voltage 10 - 30Vdc
- LEDs: 0.2W x 4pcs
- Mounting: Surface mount
- LED Colour: White
- IP Rating: IP67



- Proper installation of this product requires the installer to have a good understanding of automotive electronics, systems and procedures.
- Failure to use specified installation parts or hardware will void the product warranty.
- For this product to operate at optimum efficiency, a good electrical connection to chassis ground must be made.
- It is recommended that these instructions be stored in a safe place and referred to when performing maintenance or reinstallation of this product.
- Do not install and/or operate this safety product unless you have read and understand the safety information contained in this manual.
- It is the responsibility of the vehicle operator to ensure during use that all features of this product work correctly. In use, the vehicle operator should ensure the projection of the warning signal is not blocked by vehicle component, people, vehicles, or other obstructions.

PARTS LIST

QTY.	DESCRIPTION
1	Wire, Red, 22AWG
1	Wire, Black, 22AWG
1	Hardware Bag



1. Carefully read all warnings and instructions completely prior to installation and retain for future reference.
2. Verify all parts have been received in this kit by checking the parts list at the above of this document

Notes Before Installation:

Two lamp modules must be mounted as follows

- Lamp mounting surface must be perpendicular with the licence plate surface.
- Lamps must be mounted at each side of the licence plate, refer to Diagram 1 on following page.

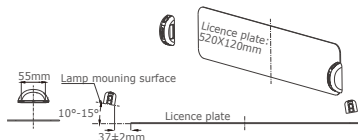
Lens Marking and ECE Reg 4 & ECE Reg 10 Installation Requirements

This LED Licence Plate Lamp was manufactured to comply with ECE Reg 4 for Illumination of Rear Registration Plates:

- Geometric visibility of registration plate:
- Horizontal: From 10°-20° left to 10°-20° to the right

Note: Two lamps are required for ECE Reg 4 compliance when mounted with a maximum licence plate

Diagram 1 - Side Mounting (not to scale)



Wiring Instructions:

Lamp Mounting Instructions

- Lamps should be mounted on a flat surface with no curvature.
- Drill a minimum hole size of $\varnothing 10$ mm through the mounting surface for the centre cable exit. The lamp module can then be used as a template to mark the location of the mounting holes.
- Drill two mounting holes up to $\varnothing 2.5$ mm at 55 mm centres through the mounting surface.
- Fasten the lamp module, to the mounting surface using two $\varnothing 2.9$ mm self-tapping screws.

Wiring Colour Coding

The LED lamp is multi voltage capable for optimum brightness in 12 and 24 Volt systems.

LED modules are polarity conscious. Reverse polarity will not damage this product but will inhibit its function.

Sanmak recommends wire connections be soldered, and heat shrink tubing applied to seal the joint.

Colour	Connect to	Power Consumption
Black	Earth (-)	-
Red	Positive (+)	0.8 W

Note: Lamp must be protected by a fuse rated at 3 amperes maximum.