

DATA SHEET

SCENE - LIGHT

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INTRODUCTION

The MEGA-FLASH LED Scene Light is a light source that was designed to replace halogen alternatives.

Using special REDTRONIC Horizontal optics, the GENERATION III LED's create a flood light effect for the outer sides of an emergency vehicle to offer illumination in dark conditions.

Designed to give a long-lasting light source that is capable of permanent operation over a period of time, the MEGA-FLASH LED Scene Light is encapsulated within a painted steel enclosure, polycarbonate lenses with additional heat sinking to reduce direct heat from the LED's.

The design of the MEGA-FLASH LED Scene Light offers around 120° of white Light on a 10-30v D.C supply with the same brightness no-matter the voltage input.

Designed primarily to offer a low cost, low profile solution to changing market conditions, all products are manufactured in the UK by REDTRONIC LTD and have been tested to all test criteria's required for the market.

All products are E11 marked and tested and quality approved to ISO9001/2000.

1.0 Unpacking & Pre-Installation

Carefully remove the Scene Light and place it on a flat surface, taking care not to scratch the lenses or damage the cable coming out of the back. Examine the unit for transit damage, broken lamps, loose screws, cracked lenses, chipped paint etc. Report any damage to the applicable carrier service and keep the shipping carton.

Standard Scene Lights are built to operate on 10-30 volt D.C. negative ground (earth) vehicles. Test the unit before installation. To test, touch the NEGATIVE wire to the ground (earth) and the other wire to +12 volts D.C., (an automotive battery is preferable for this test).

The unit should give out a steady, white light.

PLEASE SEE SECTION 3.0 FOR CABLE COLOURS & OPERATIONS BEFORE ATTEMPTING THIS PART.

If problems occur at this point, contact the factory.

2.0 Installation & Mounting

MOUNTING HARDWARE - Mounting hardware is usually packed in a small bag inside the main carton although some mounting kits may be already attached to the relevant product.

2.1 Screw Location

Designed primarily for side of vehicle mounting, the scene light has 2 x Screw holes to the rear of the unit. Simply take out the lamp unit (with attached heatsink) from the painted steel enclosure and line up the unit as fitting is required.

Without doubt the most secure and vibration free fitting method.

2.2 Angle of Enclosure

The Enclosure offers 30° dipped angle from the side of a vehicle, this is dependent upon whether the side of the vehicle is flat. This should not really effect the light output tremendously however the flatter the fitting surface, the better for light output and spread.

2.3 Other Uses

On some vehicles, the unit may be required fitting elsewhere, simply check whether the light output is appropriate for that particular location before fitting.

If you feel you have another method of fitting and do not wish to use REDTRONIC's fitting method, please note that this may void the warranty in certain cases.

3.0 Cable Connections

Red Wire: +10-30v DC

Black Wire: Negative Earth

4.0 Special Order Options

For Special Order Scene lights, the following options are available:

- Colour Options available: Blue, Amber, Red, Green, White

****Please note: Not all 'SPECIAL ORDER OPTIONS' are available in 24v variant, some are limited to +12v options only. Please pre-arrange prior to ordering****

5.0 Fuse Considerations

Mounting hardware is usually packed in a small bag inside the main carton. Although the average current draw per module is very low, due to the type of circuit used to power each module the instantaneous peak current to a module can be significantly higher during low voltage conditions. To avoid prematurely blowing fuses it is recommended the fuse rating used is that of 5 Amps, this should cover all possibilities - although the maximum current drawn is around 500mA @ 24v supply voltage.

5.1 Fuse For Multiple Units

If fitting multiple units on a vehicle that are wired into the same loom, if you do not wish to fuse each unit individually, simply use the following rule of thumb:

1 x Unit: 500mA MAX (At 24v DC)

8 x Units = 4 AMPS: USE 10 AMP Fuse (Just to cover any unforeseen problem that may occur)

6.0 Maintenance

To clean, use soapy water or methylated spirits and a soft cloth, or a very soft paper towel or facial tissue.

Because plastic scratches easily, cleaning is recommended only when necessary. Do not subject the lenses to car washes that use brushes, as these will scratch the lens.

7.0 Control

The MEGA-FLASH LED Scene Lights are controlled via a constant current source. No-matter the input voltage (between 10-30v D.C) the light output should be exactly the same. A constant current of 320mA is being supplied to the Generation III LED's.

The controller has been sealed for waterproofing, please do not try to damage or scratch the seal in anyway as this will void warranty. The unit has been designed as a replaceable unit therefore if there is an issue, REDTRONIC LTD will replace the light as the warranty states.

If the MEGA-FLASH LED Scene Light is flickering or not performing correctly, there is a fault.

There should be no need to tamper with the control mechanism of the MEGA-FLASH LED SCENE-LIGHT. Please review the installation guide and warranty if there is an error with the MEGA-FLASH LED Scene Light in anyway simply contact REDTRONIC LTD for help.

8.0 WARNING REGARDING OPERATION

The use of this or any REDTRONIC illumination device does not ensure that all users will be able to use this light as full means of illuminating an area.

Additional lighting methods may be required. The MEGA-FLASH LED Scene Light offers a long-lasting, long life light source that will operate on a diverse voltage range yet still retain the same light output. This light output is considered brilliant for technology of the day however may not yet meet the same effect of halogen or tungsten lighting methods, however does offer reliability.

REDTRONIC LTD assumes no liability for any loss resulting from the use of this illuminating device. Proper installation is vital to the performance of this warning device and the safe operation of the emergency vehicle. It is important to recognise that the operator of the emergency vehicle is under psychological and physiological stress caused by the emergency situation. The warning device should be installed in such a manner as to not reduce the output performance of the system,

Emergency warning devices often require high electrical voltages and/or currents. Properly protect and use caution around live electrical connections. Grounding or shorting of electrical connections can cause high current arcing, which can cause personal injury and/or severe vehicle damage, including fire.

PROPER INSTALLATION COMBINED WITH OPERATOR TRAINING IN THE PROPER USE OF EMERGENCY WARNING DEVICES IS ESSENTIAL TO INSURE THE SAFETY OF EMERGENCY PERSONNEL AND THE PUBLIC.

WARRANTY:

REDTRONIC warrants each new product (except bulbs and strobe tubes) to be free from defects in material and workmanship for a time period of two years from the date of purchase apart from LED products which have a warranty of five years. During this warranty period, the obligation of Redtronic is limited to repairing or replacing, as Redtronic may elect, any part or parts, which after examination by Redtronic are determined to be defective, when they are delivered pre-paid. This limited warranty does not cover travel expense, the cost of specialized equipment for gaining access to the product, or labour charges for the removal and re-installation of the product.

Redtronic products shall not be liable for incidental or consequential damages, including but not limited to: Loss of vehicle, Rental of substitute vehicle, Loss of time, Loss of work, Inconvenience, Transportation expenses, Telephone, Lodging, Loss of revenue, Loss of and / or damage to personal property for or arising out of breach of any express or implied warranty of its products.

Use of lamp or other electrical equipment of wattage higher than installed or recommended by Redtronic, or use of inappropriate or inadequate wiring or circuit protection causes this limited warranty to become void. Redtronic Products will in no way be liable for any loss of profits or any indirect or consequential damages arising out of any such defect in material and workmanship whether loss is due to negligence or breach of warranty.

This limited warranty does not apply to shipping damage, accident, alteration, tampering, misuse or abuse and unauthorised service.

This limited warranty is expressly in lieu of all other express or implied warranties, including the implied warranty of merchantability and the implied warranty of fitness for a particular purpose, and of all other obligations or liabilities on the part of Redtronic Products. There are no warranties, unless expressed in authorized Redtronic literature, which extend beyond the description of the product hereof. No dealer, distributor, employee, or representative of the company is authorized to change this warranty in any way or to grant any other warranty.