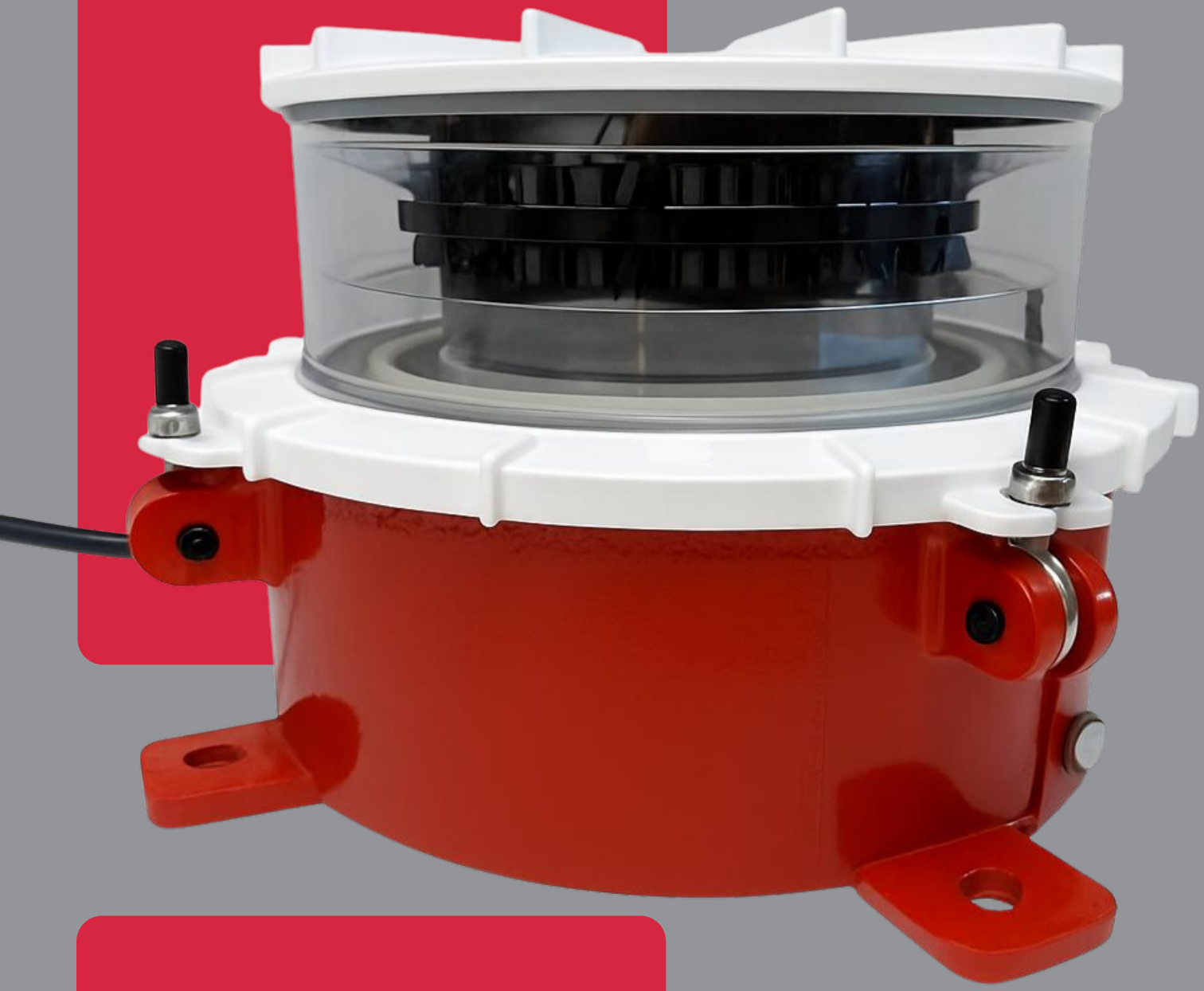
FARLIGHT

INSTALLATION AND
MAINTENANCE MANUAL

Flashing Red Obstruction Light L-864



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NOTICES AND WARNINGS

This manual contains important information regarding the safety, operating and maintenance of this product. Before using the product, read and understand all cautions, warnings, instructions and product labels. Failure to do so could result in injury and/or void the warranty.

Disconnect power from all wiring and circuitry before installing or working on the beacon.

INTRODUCTION

The Farlight L864 (AC or DC) obstruction light provides an LED-based solution to the FAA style of flashing red obstruction lights.

The Farlight L864 (AC or DC) obstruction light is a self-contained unit that requires no maintenance.

Please contact Farlight Australasia before attempting to open or repair the unit.

BRIEF OVERVIEW

Cable
All units are supplied with an exterior grade, sunlight-resistant, waterproof, EMI-shielded cable to meet the harsh environments of salt fog, rain, wind and sun (UV) with an operating temperature range of -55C to +55C.

Power
The L864 (AC or DC) is designed for 100-265V AC, 50-60Hz operation or 24-48DC.

Surge protection
The L864 (AC or DC) has an internal surge protection device. Please do not attempt to remove or repair the surge protection unit.

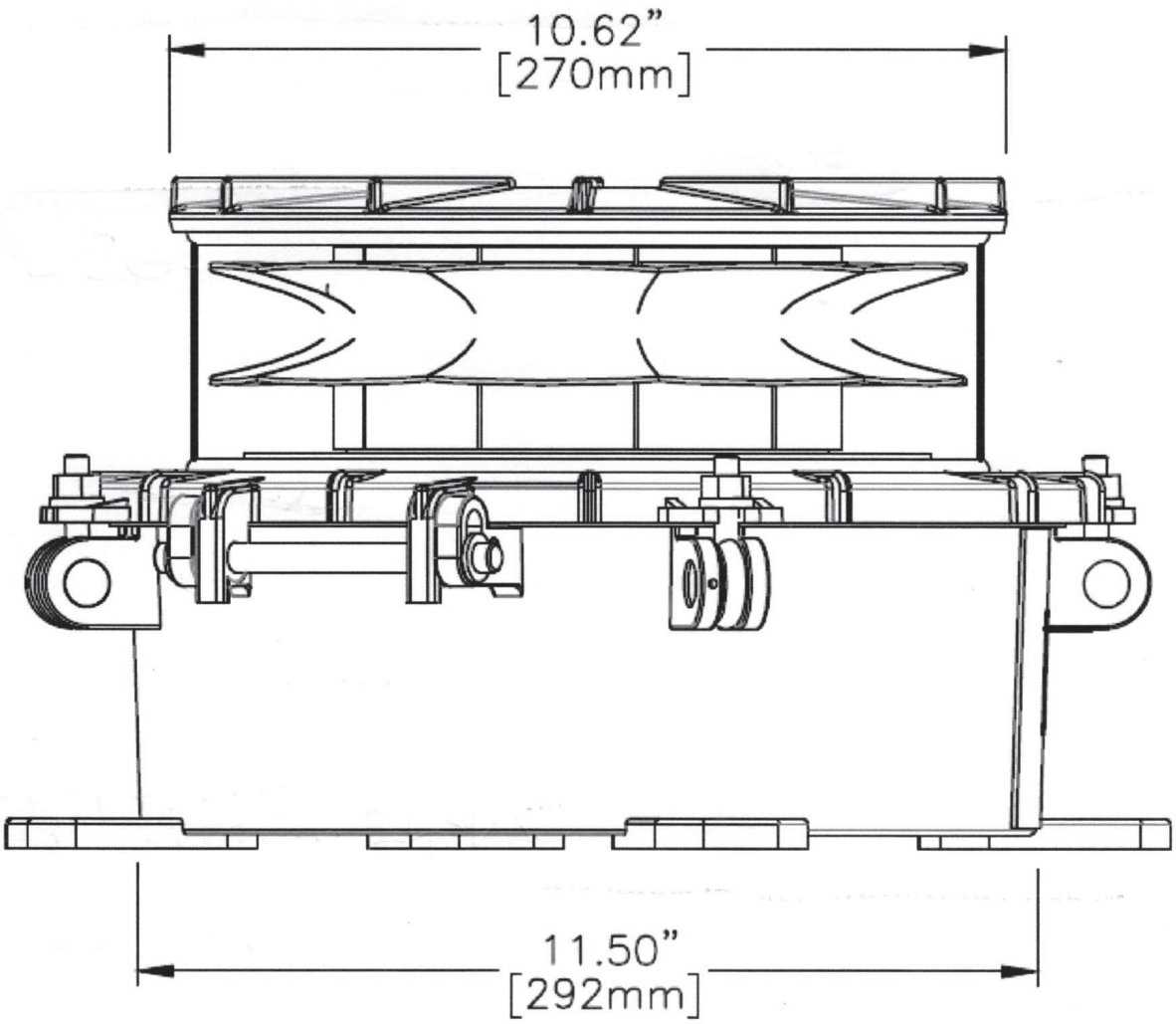
Mounting
The L864 (AC or DC) mounts directly to conventional L-864 Beacon bolt hole patterns (see fig. 4 for bolt hole pattern).

Warranty
Farlight Australasia warrants all products to be free from defects in material and workmanship for a period of five (5) years from the date of shipment.

Farlight Australasia's sole responsibility under this warranty shall be, at its option, to repair or replace the defective product. There are no other expressed or implied warranties, including any implied warranty of merchantability or fitness. Farlight Australasia will not be liable for consequential damages or the cost of removal or reinstallation of its products. Buyer shall pay for all shipping costs to and from Farlight Australasia for all repairs or replacement covered by the warranty. The warranty shall not apply to defects or damage caused by shipping, improper installation, improper use, or abuse of the product. Damage caused by lightning or other acts of God are not covered by the warranty. This warranty does not apply to products manufactured by companies other than Farlight Australasia, regardless of whether they have been sold by Farlight Australasia for use in conjunction with Farlight Australasia products.

LIMITATION OF LIABILITY
In no event will Farlight Australasia be liable for special, indirect, incidental, or consequential damages, regardless of the form of action, whether in contract, strict liability, or in tort, including negligence, nor for lost profits. Nor shall the liability of Farlight Australasia for any claims or damage arising out of, or connected with, this agreement or the manufacture, sale, delivery, use, maintenance, repair or modification of the products or supply of any replacement parts thereof, exceed the purchase price of the products. This limitation of liability shall apply to any liability for default under or in connection with the products, the parts, use, performance, or services delivered hereunder whether based on warranty, failure of or delay in delivery, or otherwise. This clause shall survive failure of an exclusive remedy.

LIGHT SPECIFICATIONS



Dimensions and Weight

Diameter: 292mm
Height: 222mm
Weight: 10kg

OPERATING SPECIFICATIONS

Type
L-864 flashing red obstruction light with LED light source

Input Voltages
100-256V AC or 24-48DC

Power Consumption
10 watts (approximate average)

Applicable Specifications
FAA AC 150/5345-43F plus FAA supplemental requirements for LED light sources. CASA 139

Storage Temperature Range
-55 to +55 degrees Celsius

Operating Temperature Range
-40 to +55 degrees Celsius

Humidity
Up to 95% relative humidity

Wind
Wind speeds up to 240KMH

Wind Blown Rain
Exposure to wind-blow rain from any direction

Salt Fog
Exposure to salt-laden atmosphere

Surge Protection T
The L864 (AC or DC) has an internal surge protection device that meets the requirements of FAA EB-67

Please do not attempt to remove or repair the surge protection unit.

IDENTIFYING THE MODEL

L864 - __ __ - __ __ __

Voltage

AC = 240V AC
DC = 24 - 48V DC

Option

F = Flashing (30FPM Standard)
S = Steady
GPS = Integrated GPS & Photocell Installed

INSTALLATION & MAINTENANCE

Warning: Disconnect power from all wiring and circuitry before installing or working on the beacon

The installation of a new complete L864 (AC or DC) beacon is similar to that of an incandescent light source assembly. The recommended installation procedure is outlined below:

1. Inspect for damage during shipping
2. Bench test beacon
3. Once proper operation has been confirmed, mount on structure
4. Wire the beacon to the power source
5. Verify operation

Mounting Guidelines

The L864 (AC or DC) beacon is mounted to the tower pedestal using 1/2" hardware (supplied by the customer). The base of the light has 4 mounting holes that align with most tower pedestals. The light should be installed level to maintain light output.

Farlight suggests that lightning rods be installed near the light.

The lightning rods should extend a minimum of three feet about the height of the beacon.

WIRING THE BEACON

The light is supplied with an 2 metre power cord that is prewired to the internal electronics. This cord should be connected to the power source and grounded. The ground wire must be connected for proper operation and connection of the beacon.

Power connections	240VAC	24-48DC
Terminal	**Wire Colour**	**Wire Colour**
Neutral (L-)	Blue	Black or Blue
Active (L+)	Brown	Red
Ground	Green/Yellow	Green

Verifying operation of the beacon

Apply power and verify that the beacon is flashing

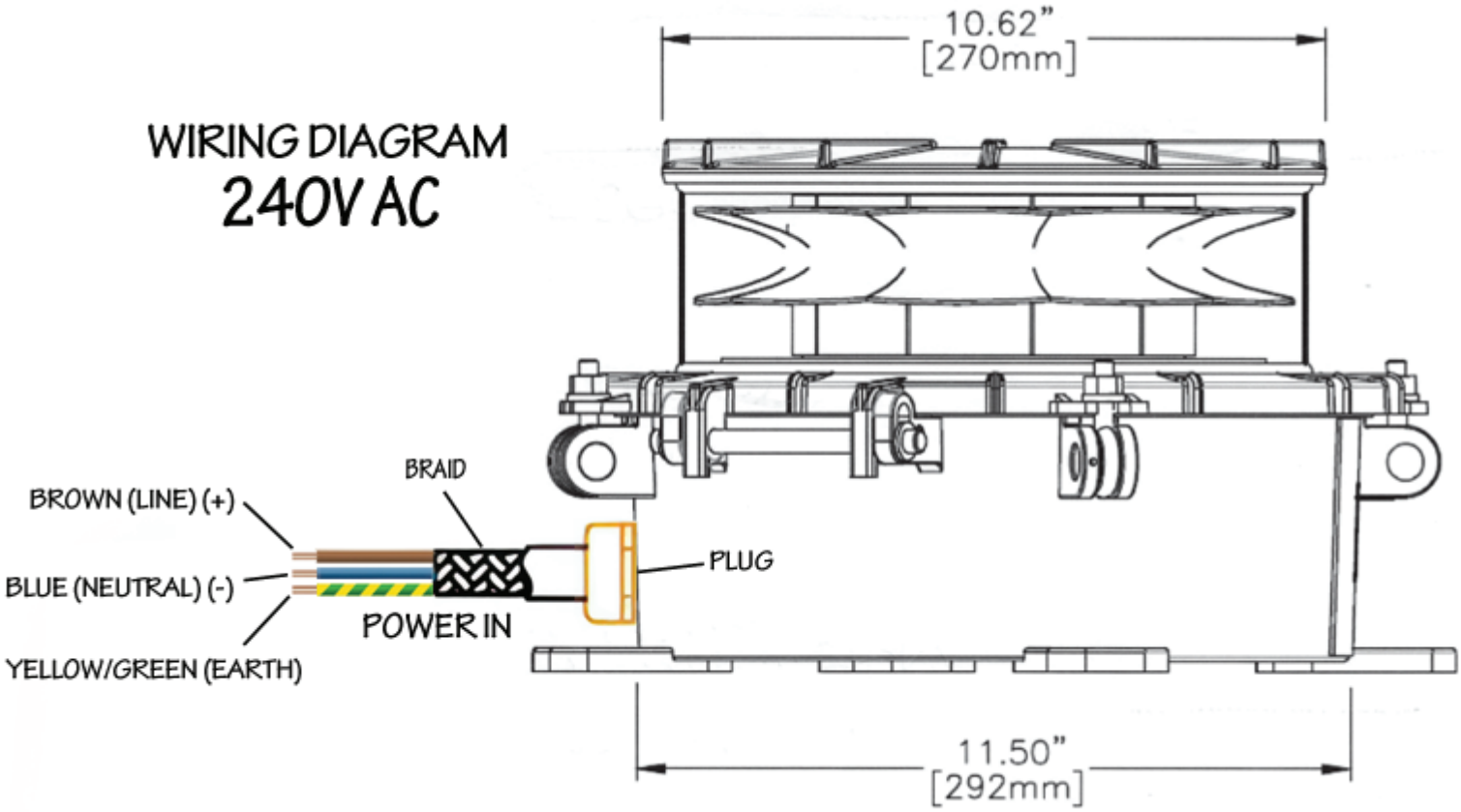
Installation reminder

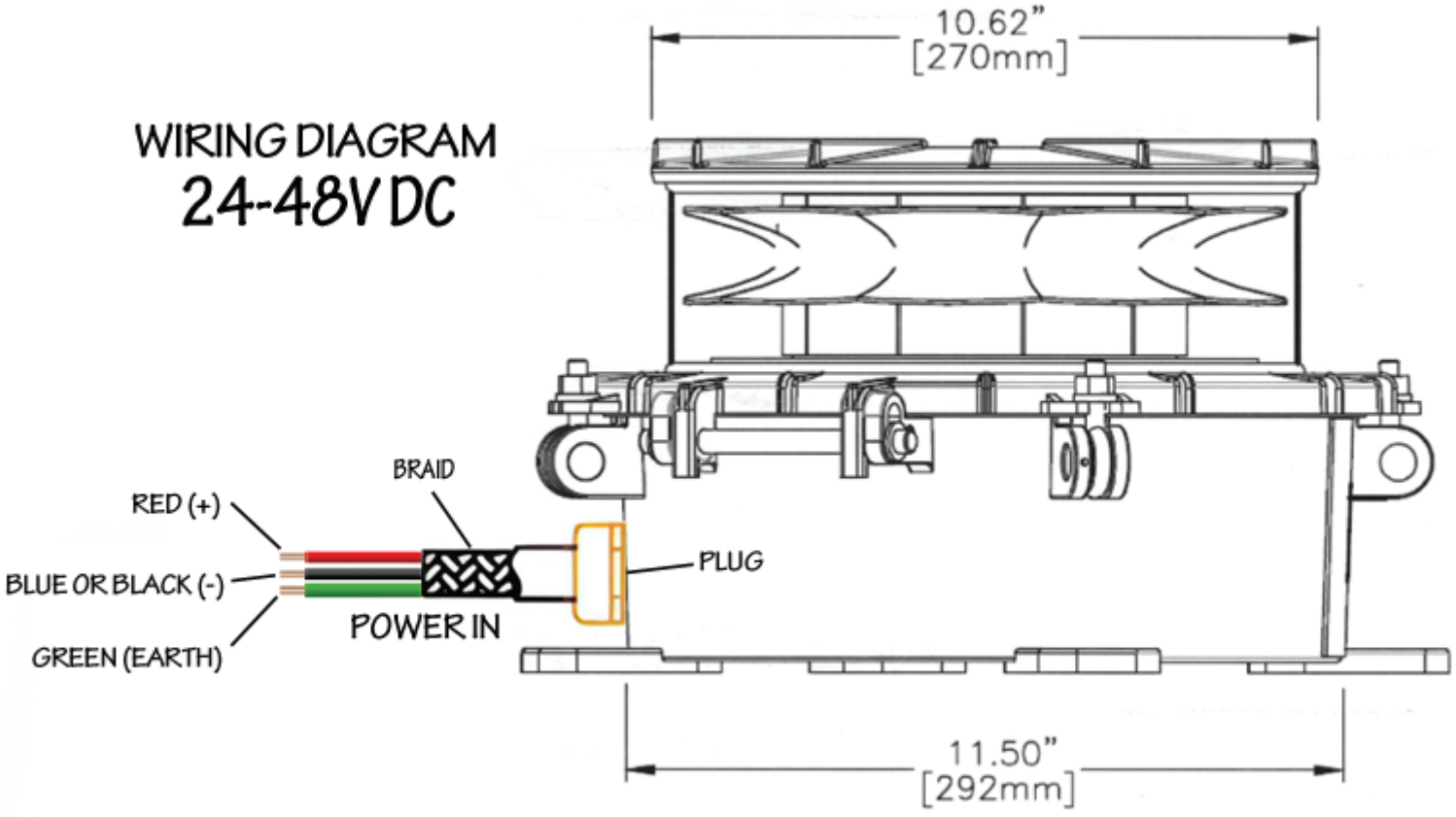
Although factory tested a bench test is recommended prior to installation in order to ensure that is has not been damaged in transit.

Maintenance

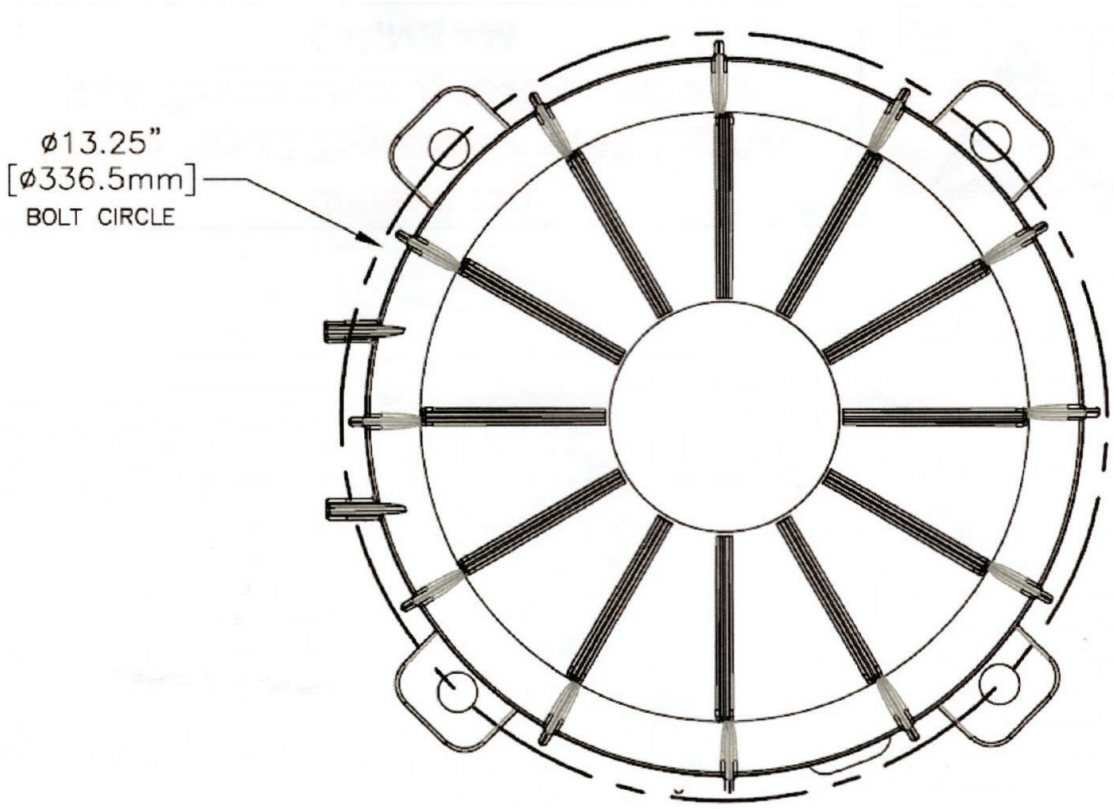
No regularly scheduled maintenance is required for the unit. Farlight warranties the light output of the L-864 (AC or DC) to meet or exceed requirements for a five year period.

WIRING DIAGRAMS





BASE



CHANGING MODES - STEADY OR FLASHING

In order to change the mode of operation, you must open the housing and access the slide switch on the micro-controller.

This product can be damaged by electrostatic discharge (ESD).
Use a conductive wrist strap attached to a good earth ground when handling.

WARNING

Disconnect power from all wiring and circuitry before installing or working on the beacon