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## INSTALLATION, OPERATION AND MAINTENANCE INSTRUCTIONS

# Monarch VL14I

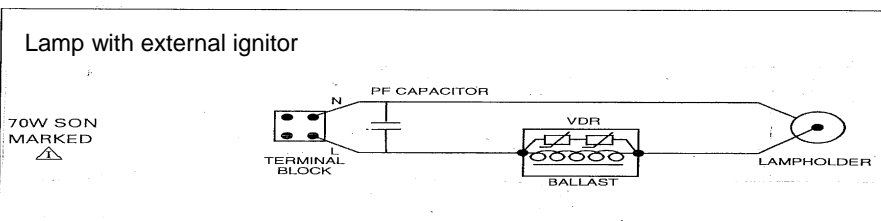
**PENDANT TYPE LUMINAIRE FOR USE IN INDUSTRIAL SAFE AREAS**

VL14I – Ingress protection IP66/67 to EN60529; T<sub>amb</sub> -20°C to +50 °C

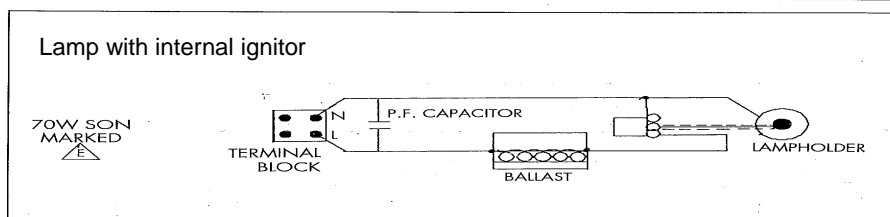
Lamp	Ambient	Attitude
80W MBF	-20°C +40°C	
125W MBF	-20°C +40°C	
70W SON	-20°C +40°C	
200W (max) GLS	-20°C +40°C	
160W MBTL	-20°C +40°C	
26W CFL	-20°C +50°C	
125W MBF	-20°C +35°C	
80W MBF	-20°C +40°C	
70W SON	-20°C +50°C	

### WIRING DIAGRAMS

Lamp with external ignitor



Lamp with internal ignitor



## **IMPORTANT**

1. Read this leaflet carefully before commencing to install the luminaire and retain it for future reference.
2. Check the rating label to ensure that the luminaire is suitable for the supply provided.
3. The luminaire must be installed in accordance with the recognised code of practice & any relevant local regulation.
4. High voltage insulation testing may be carried out, but the test voltage must not exceed 500V DC.

**WARNING:** Any faults to earth within the luminaires may result in permanent damage to the electronic control unit. This possibility can be avoided by shorting the live and neutral cables together and applying the test voltage between this connection and earth.

5. The luminaire **MUST** be earthed
6. The operating temperature range for the luminaire is shown on the rating label. The luminaire should not be used outside these temperatures.
7. If the luminaire is to be installed in areas of high vibration, please consult the manufacturer.
8. Under **NO** circumstances should a luminaire be opened, even when isolated.
9. The luminaires are designed and constructed to EN60598.
10. Prices and design are subject to alteration without notice. All products are sold subject to our conditions of sale, copies of which are available on request. *We reserve the right to change characteristics of our products. All data is for guidance only.*

## **GENERAL INSTALLATION NOTES**

1. Do not attempt installation until you are familiar with all warnings, precautions and procedures within this instruction sheet.
2. Refer to the wiring diagrams for correct installation.
3. Do not over tighten fasteners into aluminium parts.
4. Ensure that the mains cable connectors are correctly secured to the terminal block(s). Only one conductor should be fitted to each terminal block. All terminal screws should be fully tightened whether a conductor is fitted or not.
5. Blanking plugs and cable glands must be of the correct type and must be fitted to the manufacturer's specification to ensure that the seals prevent the ingress of moisture or dust and to maintain the luminaire's IP rating.

## **GENERAL MAINTENANCE NOTES**

1. **IMPORTANT.** Isolate the luminaire from mains supply before carrying out any maintenance work.
2. Lamps must be changed at the intervals recommended by the lamp manufacturer.
3. It is essential that all luminaires together with their associated cables, glands, etc. which make up the installation are maintained in such a manner as to ensure the integrity of the protection to which it is designed.
4. The frequency of inspection must be determined by the user, but should be regular enough to ensure that the luminaire installation continues to operate in the designed manner. The more onerous the operating conditions, the more frequent the inspections should be. It is recommended that the interval between inspections should not exceed two years.
5. Components may be cleaned with water containing a small amount of detergent, followed by a clean water wash. Surplus water can be wiped off components, but they should not be wiped or polished with a dry cloth to avoid a build up of static electricity.
6. **IMPORTANT.** All components that are replaced must be in accordance with the manufacturer's specification. Failure to use such components invalidates the certification, approval and warranty of the luminaire and may make it dangerous. NO modification should be made to the luminaire without the knowledge and approval of the manufacturer. If in doubt, refer to the manufacturer.

### **TECHNICAL DATA**

Total circuit watts: (all nominal values)	200W GLS =200W 160W MBTF = 160W 26W CF = 30W	125W MBF=136W 80W MBF = 87W 50 W MBF = 58W	70W SON = 82W
Circuit current (after inrush & starting)	200W GLS =0.83A 160W MBTF = 0.66A 26W CF = 0.16A	125W MBF = 1.10A 80W MBF = 0.50A 50 W MBF = 0.32A	70W SON = 0.55A

Maximum mains cable size is 2.5mm<sup>2</sup>

Power factor correction is better than 0.85

The luminaire is made from aluminium (body) and glass (lens). The user must ensure that these materials are suitable for the atmosphere the luminaire will be installed in.

## **SPECIAL NOTES**

The luminaire can be mounted from vertically downwards to 45° with or without a reflector.

Fit only the lamp type shown on the data plate. GLS lamps up to 200W can be used in the tungsten lamp version. Luminaires using SON lamps with an external ignitor must use lamps marked  $\triangle$ . Luminaires using SON lamps with an internal ignitor must use lamps marked  $\triangle$ . See the data plate for the ignitor type.

## **INSTALLATION AND MAINTENANCE NOTES SPECIFIC TO THIS PRODUCT**

Electrical connections are made via a terminal block in the top of the body. Gain access by releasing the mounting screws in the lampglass assembly and internal reflector, allowing them to hang by their suspension cords, where appropriate. If preferred the single screw in the middle of the terminal block can be removed to attach wires to the terminal block out of the fitting. Take care to ensure that cable tails are stowed tidily in the top of the fitting, clear of the choke, when refitting.

The lampglass should be kept clean. Wash with water and detergent, rinse with clean water and dry. Do not polish as this may cause static charging.

**Relamping.** When refitting the lampglass after initial installation or relamping, ensure that the 3 lampglass fixing screws are tightened down fully to compress the sealing gasket, and so maintain the restricted breathing and environment protection of the luminaire. The design allows metal-

to-metal contact between the lamp glass assembly and the main body to ensure even pressure on the gasket. Ensure that the suspension cord is not trapped. It is recommended that the fixing screws are tightened to 3.5Nm and be well greased each time the fitting is opened.

**HEALTH AND SAFETY AT WORK etc. ACT 1974**

In the United Kingdom all equipment must be installed, operated and disposed of (as required) within the legislative requirements of the Health and Safety at Work etc. Act 1974. Leaflet No. HSS L1 refers to the Company's obligation and is available on request. It is the responsibility of the user to select, install, operate and maintain the equipment in accordance with the relevant legislation and appropriate codes of practice

**Disposal of Material**



Any disposal must satisfy the requirements of the WEEE directive [2002/96/EC] and therefore must not be treated as commercial waste. The unit is mainly made from incombustible materials. The control gear contains plastic, resin and electronic components. All electrical components may give off noxious fumes if incinerated.



To comply with the Waste Electrical and Electronic Equipment directive 2002/96/EC the apparatus cannot be classified as commercial waste and as such must be disposed of or recycled in such a manner as to reduce the environmental impact.

**VICTOR LIGHTING**

Hereby declare our sole responsibility that the product which is the subject of this declaration is in conformity with the following standards or normative documents.

Number and date of standards	Directive description
EN50082 (1992) EN55015 (1993) EN 60555-2 (1987)	89/336 EEC: Electromagnetic Compatability
<b>Notified Body:</b> SIRA Certiifcation Services (0518) Rake Lane Eccleston Chester CH4 9JN	 Ian MacLeod (Technical Manager) August 2005
<b>CE Mark</b> 	The CE marking of this product applies to "The Electrical Equipment (Safety) Regulations 1994", "The Electromagnetic Compatibility Regulations 1992", the "Waste Electrical and Electronic Equipment Regulations 2006". [This legislation is the equivalent in UK law of EC directives 2006/95/EC, 2004/108/EC and 2002/96/EC respectively].

**For Technical support, please contact [technical@victor-lighting.com](mailto:technical@victor-lighting.com)**

Note: Victor Lighting reserves the right to amend characteristics of our products and all data is for guidance only.