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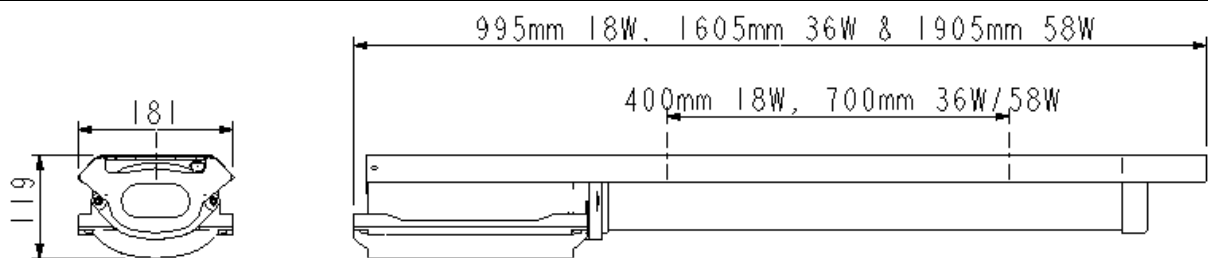
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INSTALLATION, OPERATION AND MAINTENANCE INSTRUCTIONS

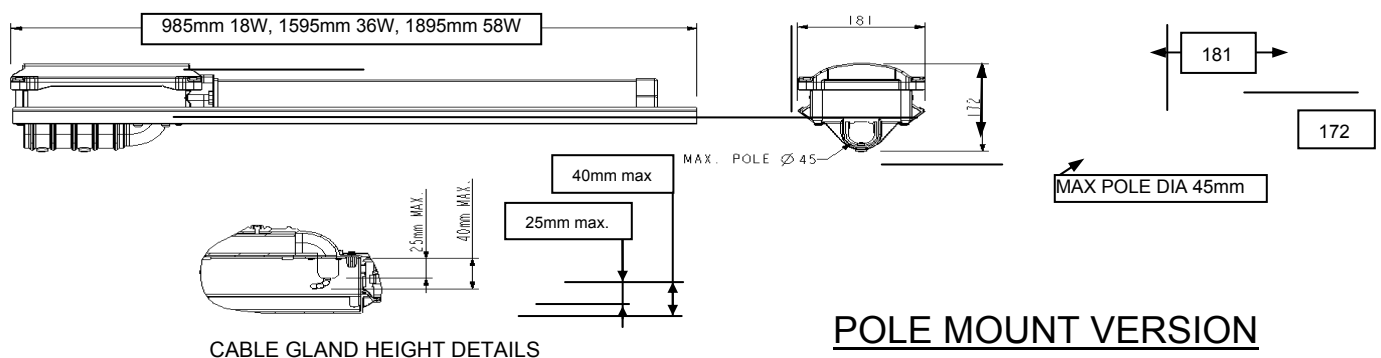
TRIDENT VL126

EXPLOSION PROTECTED LUMINAIRE WITH INCREASED SAFETY AND ENCAPSULATION PROTECTIONS (type 'e' and 'm') INCORPORATING AN INTEGRAL EMERGENCY DC POWER SUPPLY.

VL126 IP66/67 SIRA03ATEX3206 T100°C IEC IECEx CE Ex II 2GD EEx em II T4
IEC Ex APPROVAL NUMBER SIR03.0004 Ex em II T4
-15°C to +55°C (18W & 36W) -15°C to +50°C (58W) 220V – 254V 50/60Hz AC ONLY



FIXING CENTRES SUITABLE FOR M8 BOLTS



SPECIAL CONDITIONS FOR SAFE USE

None

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 e.g. EN60 079.
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, when an explosive gas or dust environment is present.
9. Do not use excessive force on plastic components.
10. The luminaires are designed and constructed to EN60598.
11. 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. Fasteners going into plastic parts should be tightened to a torque of 2.5Nm.
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 so maintain the luminaire's IP rating.
6. Ensure that any cables and hanging straps do not foul when attaching control gear housing cover to body during installation or maintenance

GENERAL MAINTENANCE NOTES.

1. **IMPORTANT.** Isolate the luminaire from both switched and unswitched mains supplies 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. Plastic components may be cleaned with water containing a small amount of detergent, followed by a clean water wash. Surplus water can be wiped off plastic 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: 2x18W= 42W; 2x36W=73W; 2x58W=112W using bi-pin lamps with G13 caps

Maximum inrush current at switch on is 30A (18W), 40A (36W) and 45A (58W) for < 1ms

Power factor correction is better than 0.95

Emergency duration typically 3 hours at 20°C

The luminaire housing and lens are made polycarbonate; the reflector is made from painted steel or Zinc plated Epoxy painted Mild Steel. The user must ensure that these materials are suitable for the atmosphere the luminaire will be installed in.

SPECIAL NOTES

1. The cable glands used should comply with the requirements of the Code of Practice for increased safety (type 'e') installations. They should maintain at least IP54 protection and have an impact strength of 7Nm
2. NiCd batteries have a reduced charge acceptance efficiency at temperatures continuously above 30°C, so a reduction in emergency discharge durations may be experienced.
3. The batteries are supplied discharged and must be charged for 48 hours and discharged three times before reaching full charge capacity.
4. The emergency operation of the luminaire should be tested regularly in accordance with the relevant code of practice, e.g. BS5266

INSTALLATION AND MAINTENANCE NOTES SPECIFIC TO THIS PRODUCT.

WIRING - The luminaire is pre-wired for maintained (normally on) operation. The Live supply from the mains should be connected to the terminal marked 'L'. For switched operation, the link between the L and Ls terminals must be removed. The permanent Live supply is then connected to the 'L' terminal and the Switched Live to the 'Ls' terminal. On through-wired units these connections are duplicated in the second terminal chamber.

REPLACING LAMPS. - The lamp carrier assembly is removed from the lamp envelope by operating the quick release mechanism and withdrawing the assembly. Lamps are inserted by pressing the button on each lampholder and sliding the lamp pins down the lampholder slot until they engage in their recesses in the contacts. When both lamps have been fitted, the lamp carrier assembly can be re-fitted to the envelope. Ensure that the quick release mechanism engages in its slots.

REMOVE EMERGENCY LAMP/ BALLAST HOUSING COVER ASSEMBLY.

Isolate the luminaire from the mains and unscrew the bolts securing the ballast housing cover. Disconnect the emergency supply wires from the terminal block and then remove the clips on the securing straps. The ballast housing cover assembly can now be fully removed to a safe working area before carrying out any work on it. It is important that a replacement assembly should be fitted immediately. The luminaire must not be left in the open condition and must not be energised from the mains when open.

REPLACING THE BATTERY. (Victor Type VL139 – SIRA03ATEX3209U)

Remove the emergency assembly as described above and take to a safe area. The battery can be removed by disconnecting its cables and removing it from the gear tray. As each wire is removed it should be insulated. Failure to do this may result in a short circuit. Replacing the battery is the opposite procedure.

REPLACING THE FUSE. (Victor Type VL140 – SIRA03ATEX5210U)

Replacement of the fuse is straightforward, but only fuses supplied by the manufacturer can be used. Any other fuse will invalidate the certification.

REPLACING THE EMERGENCY LAMP (Victor Type VL137 – SIRA03ATEX3208U)

Remove the emergency assembly as described above and take to a safe area. Disconnect the emergency lamp leads. Unscrew the emergency reflector to gain access to the lamp. Remove the lamp from its clips and replace with a new lamp supplied by the luminaire manufacturer. (Normal commercial lamps cannot be used, as they will invalidate the certification.)

REPLACING THE ELECTRONIC BALLAST. (Victor Type VL138 – SIRA03ATEX5207U)

Disconnect from the mains supply (make sure both Live and Live Switched supplies are isolated). Remove the ballast housing cover and suspend from its straps. Disconnect the mains wires from the ballast to the terminal block. Remove the lampholders by pushing each one in turn towards the outside of the ballast box and then twisting through 90°. The electronic ballast can now be removed by undoing its retaining screws. Replacement is a reversal of this procedure. (Note that new lampholders will be supplied with a replacement ballast.)

REGULAR MAINTENANCE AND INSPECTION

All luminaires, cable, conduit and other associated systems which make up an installation must be maintained in such a way to ensure the integrity of the protection it was designed to have. BS5345 makes particular reference to this subject, recommending initial and periodic inspections, with suitable recording of data.

OPTIONAL BATTERY MANAGEMENT SYSTEM

The Optional battery management system (if fitted) monitors the battery capacity and can detect fault conditions within the system. It is pre-programmed to automatically test and assess the condition of the battery at random intervals, 30 second functional test is approximately carried out every 30 days and full duration test is approximately carried out every year. The status of the system is indicated by bi colour LED on the ballast enclosure, as shown below.

LED	STATUS
GREEN WITH 10 SEC BLINK	SYSTEM HEALTHY: STANDBY
GREEN SLOW FLASH	COMMISSIONING OR DURATION SELF TEST IN PROGRESS
GREEN FAST FLASHING	FUNCTIONAL TEST IN PROGRESS
OFF (NO COLOUR LIT)	INDICATES LOSS OF MAINS SUPPLY
RED SLOW FLASH	BATTERY, DURATION OR CHARGING CIRCUIT FAULT
RED FAST FLASHING	LAMP FAULT

If the unit detects a fault, an audible alarm will sound for 3 seconds every 35 minutes until the fault condition is rectified.

The LED indication will remain until the next test even if the mains power is disconnected for a period. If it is necessary to reset the LED indicators to 'green', this can be done by disconnecting the mains power twice and reconnecting it within 5 seconds.

Following a battery replacement the unit will perform a commissioning test automatically.

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
EN 50014 (1998) EN 50019 (2000) EN 50028 (1987) EN 50281 (1999)	94/9 EC: Equipment and protective systems intended for use in potentially explosive atmospheres.
CE Mark 	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" and the "Equipment and Protective Systems intended for use in Explosive Atmospheres Regulations 1996". [This legislation is the equivalent in UK law of EC directives 2006/95/EC, 2004/108/EC and 2002/96/EC respectively].
ATEX Directive	The Equipment is declared to meet the provisions of the ATEX directive (94/9/EC) by reason of the EC Type Examination and compliance with the Essential Health and Safety Requirements.
Notified Body: SIRA Certiifcation Services (0518) Rake Lane Eccleston Chester, CH4 9JN	 Ian MacLeod (Technical Manager) August 2005

For Technical support, please contact technical@victor-lighting.com
 Note: Victor Lighting reserves the right to amend characteristics of our products and all data is for guidance only.

