



1 **EC TYPE-EXAMINATION CERTIFICATE**

2 Equipment intended for use in Potentially Explosive Atmospheres Directive 94/9/EC

3 Certificate Number: Sira 01ATEX1274

4 Equipment: Type VL39 Wellglass Luminaire

5 Applicant: Victor Products Limited

6 Address: New York Way
Newcastle upon Tyne
NE27 0QF
UK

7 This equipment and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

8 Sira Certification Service, notified body number 0518 in accordance with Article 9 of Directive 94/9/EC of 23 March 1994, certifies that this equipment has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment intended for use in potentially explosive atmospheres given in Annex II to the Directive.

The examination and test results are recorded in confidential report number R51A8313A and 51V9834.

9 Compliance with the Essential Health and Safety Requirements, with the exception of those listed in the schedule to this certificate, has been assured by compliance with the following documents:

EN 50014:1997 A1 - A2
EN 50018:2000
EN 50019:2000
EN 50281-1-1:1998

10 If the sign 'X' is placed after the certificate number, it indicates that the equipment is subject to special conditions for safe use specified in the schedule to this certificate.

11 This EC type-examination certificate relates only to the design and construction of the specified equipment. If applicable, further requirements of this Directive apply to the manufacture and supply of this equipment.

12 The marking of the equipment shall include the following:



II 2GD
EEx d IIC T* Ta -50°C to +*°C
EEx de IIC T* Ta -50°C to +*°C
(* see section 13)

Project Number 51V9834
Date 15 October 2002
Reissued 18 February 2003
C. Index 05


C Ellaby
Certification Officer

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Sira Certification Service

Rake Lane, Eccleston, Chester, CH4 9JN, England
Tel: +44 (0) 1244 670900 Fax: +44 (0) 1244 681330
Email: exhazard@siratc.co.uk

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SCHEDULE

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To permit the minimum ambient temperature limit to be lowered from -20°C to -50°C.

13 **DESCRIPTION OF EQUIPMENT**

The Type VL 39 Wellglass Luminaire comprises a cylindrical main body, a lampglass housing and a dome shaped lampglass. The main body and lampglass housing are manufactured from cast aluminium alloy, LM6 or LM25, and the lampglass is manufactured from toughened borosilicate glass that may be supplied in different colours. The lampglass is retained within the lampglass housing by a retaining bracket and polyurethane resin. The lampglass and lampglass housing are secured to the main body by six M10 x 50 socket head cap screws. The equipment is fitted with either a steel mounting strap or a steel floodlight mounting bracket to allow pendant or universal orientations. Electrical connection is made in a square terminal box cast within the main body wall which has a cable entry point (up to M25 threadfrom) on both sides. The cover of the terminal box is secured by four M8 x 20 socket head cap screws. The terminal box provides the following:

- flameproof protection, relying on the threaded cable entry flamepaths and the cylindrical flamepath between the box and the cover
- increased safety protection when fitted with suitably certified terminals and an M16 flameproof bushing
- a sealing ring to provide an ingress protection rating of IP 64

Lamp ratings and control gear configurations

Lamp type	Ratings	Control gear
GLS lamps	220; 230; 240; 250 V AC 50/60 Hz	E40 lampholder
MBF lamps	250 V AC/DC Max 50/60 Hz	Electronic ballast; capacitor; optional ignitor; E40 lampholder
MBI lamps	250 V AC/DC Max 50/60 Hz	Electronic ballast; capacitor; optional ignitor; E40 lampholder
QL lamps	110 - 130 V AC/DC 50/60 Hz 220 - 250 V AC/DC 50/60 Hz	Electronic control unit; aluminium heat-sink; power coupler
SON lamps	250 V AC/DC Max 50/60 Hz	Electronic ballast; capacitor; optional ignitor; E40 lampholder

The QL lamp variants are intended to be maintenance-free and may have a non-slumping silicone adhesive in accordance with EN 60079-14:1997 clause 10.2. This is applied to the joint between the lampglass housing and the main body and does not adversely affect the flameproof properties of the joint in accordance with EN 50018:2000 clause 5.1. In addition, the six M10 x 50 socket head cap screws securing the lampglass housing to the main body may have their heads filled with a suitable setting compound.

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Temperature class and maximum ambient temperatures

Lamp type		500 W GLS	250 W MBF	400 W MBF	250 W MBI	400 W MBI	165 W QL	150 W SON	250 W SON	400 W SON
T3	U (°C)	35	50	40	50	40	-	50	50	40
	Dust (°C)	T170	T145	T170	T145	T170	-	T145	T145	T170
	P (°C)	-	-	-	-	-	-	-	-	-
	Dust (°C)	-	-	-	-	-	-	-	-	-
T4	U (°C)	-	35	-	35	-	55	35	35	-
	Dust (°C)	-	T130	-	T130	-	T105	T130	T130	-
	P (°C)	30	50	40	50	40	-	50	50	40
	Dust (°C)	T130	T125	T130	T125	T130	-	T125	T125	T130
T5	U (°C)	-	-	-	-	-	50	-	-	-
	Dust (°C)	-	-	-	-	-	T100	-	-	-
	P (°C)	-	-	-	-	-	55	-	-	-
	Dust (°C)	-	-	-	-	-	T85	-	-	-
T6	U (°C)	-	-	-	-	-	35	-	-	-
	Dust (°C)	-	-	-	-	-	T85	-	-	-
	P (°C)	-	-	-	-	-	50	-	-	-
	Dust (°C)	-	-	-	-	-	T80	-	-	-
Temp. rise above ambient for supply cable (°C)		57.4	47.3	55.1	47.3	55.1	25.4	47.3	47.3	55.1

Where: U = Universal operation
P = Pendant operation

14 **DESCRIPTIVE DOCUMENTS**

14.1	Drawing	Sheet	Rev.	Date	Title
	LA337	1 of 3	2	18 Dec 02	Type VIL39 Flameproof Wellglass Luminaire Incorporating an EEx d or EEx e Terminal Chamber
	LA337	2 of 3	1	23 Aug 01	Type VIL39 Flameproof Wellglass Luminaire Incorporating an EEx d or EEx e Terminal Chamber
	LA337	3 of 3	2	18 Dec 02	Type VIL39 Flameproof Wellglass Luminaire Incorporating an EEx d or EEx e Terminal Chamber

14.2 Report No. R51A8313A and 51V9834

15 **SPECIAL CONDITIONS FOR SAFE USE** (denoted by X after the certificate number)

None

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16 ESSENTIAL HEALTH AND SAFETY REQUIREMENTS OF ANNEX II (EHSRs)

The relevant EHSRs that are not addressed by the standards listed in this certificate have been identified and individually assessed in Report No. R51A8313A.

17 CONDITIONS OF CERTIFICATION

- 17.1 The use of this certificate is subject to the Regulations Applicable to Holders of SCS Certificates.
- 17.2 Holders of EC type-examination certificates are required to comply with the production control requirements defined in Article 8 of directive 94/9/EC.
- 17.3 Each Type VL39 Wellglass Luminaire shall be subjected to a routine overpressure test of 16.5 bar for a period of at least 10 s as required by clause 16 of EN 50018:2000. There shall be no permanent deformation of the joints or damage to the enclosure.
- 17.4 An electrical strength test of 1.5 kV, rms shall be applied between the terminal block and the outer case for at least 60 s and no more than 63 s as required by clause 6.1 of EN 50019:2000.
- 17.5 This certificate relies on the following previously certified products. When used as part of the Type VL39 Wellglass Luminaire, the key attributes listed in the table below shall still be maintained by their original certificate.

Description	Certificate No.	Key Attribute
Victor, Type VL91 Line Bushing	Sira 99ATEX1142U	EEx d IIC Max. operating temperature 120°C
Weidmuller, Type Mk6 Terminal Block	BASEEFA 99ATEX2123U	EEx e II Max. operating temperature 100°C

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EC TYPE-EXAMINATION CERTIFICATE VARIATION

CERTIFICATE NUMBER Sira 01ATEX1274 Dated 15 October 2002
Reissued 18 February 2003

VARIATION NUMBER 1 (ONE) Dated 10 October 2003

VARIATION TO EQUIPMENT/COMPONENT

To permit:

- 1 The introduction of a new model, the VL39/A Titan Wellglass Luminaire, that uses a smaller lampglass assembly and has a high efficiency ballast. The following table details the lamp options, temperature classes, maximum ambient temperatures and temperature rises that are applicable to the VL39A Titan Wellglass Luminaire:

Lamp type	250 W MBF	400 W MBF	250 W MBI	400 W MBI	150 W SON	250 W SON	400 W SON	
T3	U (°C)	50	45	50	45	50	50	45
	Dust (°C)	T145	T170	T145	T170	T145	T145	T170
	P (°C)	-	-	-	-	-	-	-
	Dust (°C)	-	-	-	-	-	-	-
T4	U (°C)	35	-	35	-	35	35	-
	Dust (°C)	T130	-	T130	-	T130	T130	-
	P (°C)	50	40	50	40	50	50	40
	Dust (°C)	T125	T135	T125	T135	T125	T125	T135
Temp. rise above ambient for supply cable (°C)	47.3	49.9	47.3	49.9	47.3	47.3	49.9	

DESCRIPTIVE DOCUMENTS

Number	Sheet	Rev	Date	Description
LA377	1 of 1	01	13 Aug 03	Alternative Lampglass Assembly VL39 Wellglass Luminaire

ADDITIONAL CONDITIONS OF CERTIFICATION

None

File No 51A10664
Report No. R1A10664A

C Ellaby
Certification Officer

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