



1 EC TYPE-EXAMINATION CERTIFICATE

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

3 Certificate Number: Sira 04ATEX1062

4 Equipment: VL64A and VL65A Ranges of Floodlights

5 Applicant: Victor Products Ltd

6 Address: New York Way
New York Industrial Park
Newcastle
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 R51A11566A.


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 (amendments A1 and A2)
- EN 50018:2000 (amendment A1)
- EN 50019:2000
- EN 50281-1-1:1998 (amendment A1)

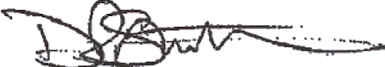
10 If the sign 'X' is placed after the certificate number, it indicates that the equipment is subject to special conditions for safe use specified in the schedule to this certificate.

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 2 G D
 EEx d IIB T (see schedule)
 or
 EEx de IIB T (see schedule)

Project Number 51A11566
 Date 25 March 2004
 C. Index 05


 D R Stubbings BA MIEE
 Certification Manager

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Sira Certification Service

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SCHEDULE

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13 DESCRIPTION OF EQUIPMENT

VL64A Floodlight Luminaires

The ranges of VL64A Floodlight Luminaires comprise of a metallic enclosure and cover. The cover, which incorporates a large flat window, is attached to the enclosure by hinges and fastened by fourteen stainless steel M8 x 30 long cap head socket screws. The enclosure may be provided with an optional side entry for easier lamp replacement. The side entry, being attached by two stainless steel M8 x 25 long cap head socket screws. Internally the enclosure houses one of various reflector types for various beam patterns, one of a number of lamp types and associated control gear to operate the lamp. The equipment is fitted with a mounting bracket to allow, floor, ceiling or universal mounting orientations. The power supply cables enter through cable entries directly into the lamp enclosure using appropriately certified cable entries, or via cable entries into the optional flameproof or increased safety terminal box and potted cable bushings attached to the rear of the lamp enclosure. The terminal box lid is fastened by four stainless steel M6 x 20 long, cap head socket screws. Unused cable entries to be closed off with appropriately certified blanking devices.

Internal and external earth assemblies are provided on both the lamp enclosure and the terminal box (when fitted).

Cable entries:

The lamp enclosure provides up to two cable entry holes suitable for up to size M25 cable entry or blanking devices. However, the flameproof or increased safety terminal box, when fitted, provides up to four cable entry holes suitable for up to size M25 cable entry or blanking devices. Additionally these entries can be provided with the nearest equivalent thread forms as follows:

- ET (Conduit) to BS 31:1979, Table A
- PG to DIN 40430:1971
- BSPP to BS 2779:1986, Standard threads only as clause 5.4, Gauging to clause 5.2, System A
- BSPT to BS 21:1985
- ISO to ISO 7/1:1982, Gauging to ISO 7/2
- NPT to USAS B2.1-1982
- NPT to ANSI/ASME B1.20.1-1983

All entry threads are to maintain compliance with the requirements of EN 50018:2000 Clause 5.3. and C.2.2 (as applicable)

Lamp types:

SON	MBI	MBF	TH	T (GLS)
400W - T	400W - T	400W	500 W (max)	500 W (max)
400W - E	400W - E	250W	-	-
250W - T	250W - T	-	-	-
250W - E	250W - E	-	-	-
150W - T	-	-	-	-
150W - E	-	-	-	-

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Ratings:

The different lamp/associated control gear options mounted in different orientations have temperature classifications determined by the maximum ambient temperature as detailed below:

Lamp Type	Temperature Classification	Ambient Temperature Range °C	Voltage (50/60Hz)
150W SON	T3	-20 to +55	220, 230, 240, 250, 254, 277
250W SON	T3	-20 to +55	220, 230, 240, 250, 254, 277
400W SON	T2	-20 to +55	220, 230, 240, 250, 254, 277
400W SON	T3	-20 to +40	220, 230, 240, 250, 254, 277
400W SON	T3	-20 to +55	220, 230, 240
250W MBF	T3	-20 to +55	220, 230, 240, 250, 254, 277
400W MBF	T2	-20 to +55	220, 230, 240, 250, 254, 277
400W MBF	T3	-20 to +40	220, 230, 240, 250, 254, 277
400W MBI	T2	-20 to +55	220, 230, 240, 250, 254, 277
400W MBI	T3	-20 to +40	220, 230, 240, 250, 254, 277
400W MBI	T3	-20 to +55	220, 230, 240
250W MBI	T3	-20 to +55	220, 230, 240, 250, 254, 277
500W TH (max)	T2	-20 to +40	250 (max)
500W GLS (max)	T2	-20 to +40	250 (max)

The maximum surface temperature of the equipment is defined by the temperature class, which is linearly corrected to the maximum ambient in service.

VL65A Floodlight Luminaires

The ranges of VL65A Floodlight Luminaires comprise of a metallic enclosure and cover. The cover, which incorporates a large flat window, is attached to the enclosure by hinges and fastened by ten stainless steel M8 x 25 long cap head socket screws. The enclosure houses one of various reflector types for various beam patterns, one of a number of lamp types and associated control gear to operate the lamp. The equipment is fitted with a mounting bracket to allow, floor, ceiling or universal mounting orientations. The power supply cables enter through cable entries using appropriately certified cable entry devices, via the integral flameproof or increased safety terminal box and potted cable bushing attached to the rear of the lamp enclosure. The terminal box lid is fastened by four stainless steel M8 x 20 long cap head socket screws. Unused cable entries to be closed off with appropriately certified blanking devices.

Internal and external earth assemblies are provided on both the lamp enclosure and the terminal box.

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Cable entries:

The terminal box provides for up to four cable entry holes suitable for up to size M25 cable entry or blanking devices. Additionally these entries can be provided with the nearest equivalent thread forms as follows:

- ET (Conduit) to BS 31:1979, Table A
- PG to DIN 40430:1971
- BSPP to BS 2779:1986, Standard threads only as clause 5.4, Gauging to clause 5.2, System A
- BSPT to BS 21:1985
- ISO to ISO 7/1:1982, Gauging to ISO 7/2
- NPT to USAS B2.1-1982
- NPT to ANSI/ASME B1.20.1-1983

All entry threads are to maintain compliance with the requirements of EN 50018:2000 Clause 5.3. and C.2.2 (as applicable)

Lamp types:

SON	MBI	MBF	TH	T (GLS)
150W - T	150W - T	125W	250W (max)	250W (max)
150W - E	150W - E	80W		-
100W - T	100W - T	50W		-
100W - E	100W - E	-	-	-
70W - T	70W - T	-	-	-
70W - E	70W - E	-	-	-
50W - T	-	-	-	-
50W - E	-	-	-	-

Ratings:

The different lamp/associated control gear options mounted in different orientations have temperature classifications determined by the maximum ambient temperatures as detailed below:

Lamp Type	Temperature Classification	Ambient Temperature Range °C	Voltage (50/60Hz)
50W SON	T3	-50 to +55	220, 230, 240, 250, 254, 277
70W SON	T3	-50 to +55	220, 230, 240, 250, 254, 277
100W SON	T2	-50 to +30	220, 230, 240, 250, 254, 277
150W SON	T3	-50 to +30	220, 230, 240, 250, 254, 277
50W MBF	T3	-50 to +55	220, 230, 240, 250, 254, 277
80W MBF	T2	-50 to +55	220, 230, 240, 250, 254, 277
125W MBF	T3	-50 to +55	220, 230, 240, 250, 254, 277
70W MBI	T3	-50 to +55	220, 230, 240, 250, 254, 277
100W MBI	T3	-50 to +30	220, 230, 240, 250, 254, 277
150W MBI	T3	-50 to +30	220, 230, 240, 254, 277
250W TH (max)	T3	-50 to +30	220, 230, 240, 250
250W GLS (max)	T2	-50 to +30	220, 230, 240, 250

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The maximum surface temperature of the equipment is defined by the temperature class, which is linearly corrected to the maximum ambient in service.

14 DESCRIPTIVE DOCUMENTS

14.1	Drawing No.	Sheet	Rev.	Date	Description
	LA381	1 of 3	1	19 Feb 04	General arrangement drawing for VL64A Floodlights
	LA381*	2 of 3	1	19 Feb 04	Wiring diagrams and general notes for VL64A Floodlights
	LA381	3 of 3	1	19 Feb 04	Side entry 'Re-lamping' option for VL64A Floodlights
	LA382	1 of 2	1	19 Feb 04	General arrangement drawing for VL64A Floodlights
	LA382	2 of 2	1	19 Feb 04	Wiring diagrams and general notes for VL64A Floodlights

* This drawing was amended by Sira on 18 Mar 2004

14.2 Report No. R51A11566A

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

None

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. R51A11566A.

17 CONDITIONS OF CERTIFICATION

17.1 The use of this certificate is subject to the Regulations Applicable to Holders of Sira 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.

VL64A Floodlight enclosure shall be subjected to a routine overpressure test of 11.6 bar for at least 10 s as required by clause 16.1 of EN 50018:2000. There shall be no permanent deformation or damage to the enclosure.

17.4 VL64A Floodlight terminal boxes shall be subjected to a routine overpressure test of 8.4 bar for at least 10 s as required by clause 16.1 of EN 50018:2000. There shall be no permanent deformation or damage to the enclosure

VL65A Floodlight enclosure shall be subjected to a routine overpressure test of 8.5 bar for at least 10 s as required by clause 16.1 of EN 50018:2000. There shall be no permanent deformation or damage to the enclosure.

VL65A Floodlight terminal boxes shall be subjected to a routine overpressure test of 8.5 bar for at least 10 s as required by clause 16.1 of EN 50018:2000. There shall be no permanent deformation or damage to the enclosure

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- 17.7 This certificate relies on the following previously certified products. When used as part of the VL64A and VL65A ranges of Floodlight Luminaires, the key attributes listed in the table below shall still be maintained by their original certificate.

Product	Certificate number	Key attributes
MK6 terminal blocks	BAS99ATEX2123U or Sira 01ATEX3249U	EEx e II
VL91 Line bushing	Sira 99ATEX1142U	EEx d IIC(Encapsulant B)

- 17.8 The manufacturer shall state in the instructions that "The equipment does not have any user-serviceable parts and must be returned to the manufacturer for servicing and repair", in addition, the manufacturer shall inform the user/installer that the equipment must be returned if the flamepath of the enclosure has been damaged or is in need of repair.

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