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TYPE EXAMINATION CERTIFICATE

Equipment intended for use in Potentially Explosive Atmospheres

Type Examination Certificate Number : **BAS97ATEX4368**

Equipment: **MAXINEX FLOODLIGHT LUMINAIRE**

Manufacturer: **SIMPLEX CHALMIT LIGHTING**

Address: **388 Hillington Road, Glasgow, Scotland, G52 4BL**

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

The Electrical Equipment Certification Service certifies that this equipment has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment of Category 3 intended for use in potentially explosive atmospheres given in Annex II to European Union Directive 94/9/EC of 23 March 1994.

The examination and test results are recorded in confidential Report N°

97(C)0858/2 dated 24 February 1998

Compliance with the Essential Health and Safety Requirements has been assessed by reference to:


prEN 50 021: 1996

except in respect of those requirements listed at item 18 of the Schedule.

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.

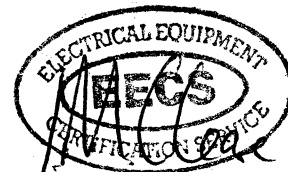
This TYPE EXAMINATION CERTIFICATE relates only to the design and construction of the specified equipment, and not to specific items of equipment subsequently manufactured.

The marking of the equipment shall include the following:-

 **II 3 G Ex nR II T (see item 15 in Schedule)**

This certificate may only be reproduced in its entirety and without any change, schedule included.

File No: EECS 0068/03/030



This certificate is granted subject to the general conditions of the Electrical Equipment Certification Service. It does not necessarily indicate that the apparatus may be used in particular industries or circumstances.



Electrical Equipment Certification Service
Health and Safety Executive
Harpur Hill, Buxton, Derbyshire. SK17 9JN. United Kingdom
Tel: 01298 28000 Fax: 01298 28244

I M CLEARE
DIRECTOR
24 February 1998



Schedule

TYPE EXAMINATION CERTIFICATE N° BAS97ATEX4368

15 Description of Equipment

The Maxinex Floodlight Luminaire is designed for fitting 150W, 250W or 400W SON/T or MBI/T lamps at supply voltages of 200 to 254V, 50 or 60 Hz.

Enclosure

The enclosure comprises a die cast aluminium lid and body with a toughened glass lens fitted to the lid assembly. Internally the enclosure contains bracket mounted control gear, a reflector and a bracket mounted lampholder.

The body is pierced with one or two entry holes for cable glands which may be up to M25. A flat plate with threaded holes may be provided to increase the wall thickness at this point. The gland is sealed with a neoprene sealing washer and plain washer supplied with the luminaire.

The supply conductors are terminated on a Type MK6 component certified terminal strip BASEEFA No. Ex 813095U coded EEx e II, incorporating pressure plates under screw pressure. Alternatively a Hylec terminal block, part No. PA76FV, may be used. If required conductors up to 6 mm² may be looped in to a Weidmuller MK6/6 way supply terminal block with cross connection combs fitted to link terminals.

The luminaire enclosure is classified as restricted breathing and has a degree of protection IP66 and IP67.

Control gear

The ballast, which includes thermal protectors, is manufactured by Transtar, Parry or Tridonic and is rated at 200 to 254V, 50 Hz and 210 to 254V, 60 Hz which is achieved by single or multi tappings. The ballasts have a T_w 140°C and Δt 55°C for 400 W lamps, or Δt 75°C for 250W and 150W lamps.

The ignitor is the Parry PXA 000 (all lamps), or PXA400 (150W or 250W lamps) detailed in BASEEFA Certification Report 96(C)1064. The Tridonic ZRM6ESB ignitor, Component Approval Ex 94Y4538U coded Ex N II may be fitted to 150W or 250W lamps.

Capacitors which are marked Tc 90°C and which comply with EN 61048 and EN 61049 may be fitted. Capacitors for a 40°C maximum ambient temperature may have a marked Tc 85°C.

The capacitors and ballast may be omitted from the luminaire and located in a remote control gear box. The gear box may contain any ballast suitable for lamps in accordance with the lamp manufacturer's specification, provided that all ballasts comply with IEC 922 and IEC 923 or BS EN 60922: 1991 and BS EN 60923: 1991 and have third party assessment.



Schedule

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TYPE EXAMINATION CERTIFICATE N° BAS97ATEX4368

Marking

Luminaire configuration	Temperature class	Referred ambient temperature
400W SON/T	T3	-40°C to +45°C
400W SON/T	210 (T2)	-40°C to +50°C
400W SON/T*	210 (T2)	-40°C to +55°C
400W MBI/T	T3	-40°C to +30°C
400W MBI/T	220 (T2)	-40°C to +50°C
400W MBI/T*	230 (T2)	-40°C to +55°C
250W SON/T	T3	-40°C to +55°C
250W MBI/T	T3	-40°C to +55°C
150W SON/T	T4	-40°C to +55°C
150W MBI/T	T4	-40°C to +55°C

* Without power factor correction (PFC) capacitor.

The following cable glands may be fitted to the enclosure:

HAWKE CABLE GLANDS		CMP PRODUCTS		BICC COMPONENTS	
Type	Certificate No	Type	Certificate No	Type	Certificate No
311	Ex 813162U	A2F	Ex 94C1293U	A2F	Ex 87B3022U
321		E1FX		E1W	Ex 87B3431U
352	Ex 813163U	E2FW		E1X	Ex 87B3430U
353		E1FW		RTL	Ex 87B3429U
353T	Ex 813164U	A4e	Ex 87B3413U		
354	Ex 813162U				
VBL321	Ex 813165U				
VBL352					
VBL353					
VBL354					



Schedule

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TYPE EXAMINATION CERTIFICATE N° BAS97ATEX4368

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Report Nos.

97(C)0858/1

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Special Conditions For Safe Use

None

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Essential Health and Safety Requirements

Essential Health & Safety Requirements not covered by Standards listed at (9)		
Clause	Subject	Compliance
1.0.2	Analysis of possible operating faults and misuse	4.1.0.2
1.0.5	Marking	4.1.0.5
1.0.6	Instructions	4.1.0.6
1.1.1	Materials not to trigger off explosions	4.1.1.1
1.1.2	Constructional materials not to degrade and reduce protection	4.1.1.2
1.2.2	Components for incorporation and replacement	4.1.2.2
1.2.5	Additional means of protection	4.1.2.5
1.2.7	Protection against other hazards	4.1.2.7
1.3.3	Hazards arising from stray electric and leakage currents	4.1.3.3
1.4.1	Safe function in changing external conditions	4.1.4.1
1.4.2	Withstanding attack by stresses or aggressive substances	4.1.4.2
1.6.4	Hazards arising from connections	4.1.6.4

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DRAWINGS

Number	Sheet	Issue	Date	Description
D1729	1	0	25.11.97	General arrangement
D1729	2	0	25.11.97	Detail views
A6568	-	0	8.12.97	Cable gland details

This certificate may only be reproduced in its entirety and without any change, schedule included.



1 **SUPPLEMENTARY TYPE EXAMINATION CERTIFICATE**

2 **Equipment Intended for use in Potentially Explosive Atmospheres**
3 **Directive 94/9/EC**

4 Supplementary Type Examination Certificate Number: **BAS97ATEX4368/1**

5 Equipment: **MAXINEX FLOODLIGHT LUMINAIRE**

6 Manufacturer: **CHALMIT LIGHTING LIMITED**

7 Address: **388 Hillington Road, Glasgow, Scotland, G52 4BL**

8 This supplementary certificate extends Type Examination Certificate No. BAS97ATEX4368 to apply to equipment designed and constructed in accordance with the specification set out in the Schedule of the said Certificate but having any variations specified in the Schedule attached to this certificate and the documents therein referred to.

This Supplementary Certificate shall be held with the original Certificate.

This certificate may only be reproduced in its entirety and without any change, schedule included.

File No: EECS 0068/03/030

This certificate is granted subject to the general conditions of the Electrical Equipment Certification Service. It does not necessarily indicate that the apparatus may be used in particular industries or circumstances.



I M CLEARE
DIRECTOR
4 November 1998



Electrical Equipment Certification Service
Health and Safety Executive
Harpur Hill, Buxton, Derbyshire. SK17 9JN. United Kingdom
Tel: 01298 28000 Fax: 01298 28244



Schedule

SUPPLEMENTARY TYPE EXAMINATION CERTIFICATE N° BAS97ATEX4368/1

Description of the Variation to the Equipment

VARIATION ONE

To permit an alternative E40 lampholder and marking plate modifications.

Report Nos.

Not applicable.

Special Conditions For Safe Use

Not applicable.

Essential Health and Safety Requirements

See original certificate.

DRAWINGS

Number	Sheet	Issue	Date	Description
D1729	1	1	11/8/98	General arrangement
D1729	2		25/11/97	Detail views

This certificate may only be reproduced in its entirety and without any change, schedule included.



1 **SUPPLEMENTARY EC-TYPE EXAMINATION CERTIFICATE**

2 **Equipment or Protective System Intended for use
in Potentially explosive atmospheres
Directive 94/9/EC**

3 **Supplementary EC-Type Examination Certificate Number: BAS97ATEX4368/2**

4 **Equipment or Protective System: MAXINEX FLOODLIGHT LUMINAIRE**

5 **Manufacturer: CHALMIT LIGHTING LTD**

6 **Address: 388 Hillington Road, Glasgow, G52 4BL**

7 This supplementary certificate extends EC-Type Examination Certificate No. BAS97ATEX4368 to apply to equipment or protective systems designed and constructed in accordance with the specification set out in the Schedule of the said Certificate but having any variations specified in the Schedule attached to this certificate and the documents therein referred to.

This Supplementary Certificate shall be held with the original Certificate.

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File No: EECS 0068/03/030

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Electrical Equipment Certification Service
Health and Safety Executive
Harpur Hill, Buxton, Derbyshire. SK17 9JN. United Kingdom
Tel: 01298 28000 Fax: 01298 28244

I M CLEARE
DIRECTOR
21 September 1999



Schedule

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EC-TYPE EXAMINATION CERTIFICATE N° BAS97ATEX4368/2

Description of the Variation to the Equipment or Protective System

VARIATION TWO

The luminaires may be operated in an ambient temperature of -45°C when used with the capacitors and ignitors in the schedule drawing below.

Report No.

None

SPECIAL CONDITIONS FOR SAFE USE

None

Essential Health and Safety Requirements

See original certificate.

DRAWINGS

Number	Sheet	Issue	Date	Description
D1729	1	2	29.6.99	General arrangement
D1729	2	2	29.6.99	Details

This certificate may only be reproduced in its entirety and without any change, schedule included.



SUPPLEMENTARY TYPE EXAMINATION CERTIFICATE

**Equipment Intended for use in Potentially Explosive Atmospheres
Directive 94/9/EC**

- 3 Supplementary Type Examination Certificate Number : **BAS97ATEX4368/3**
- 4 Equipment: **MAXINEX FLOODLIGHT LUMINAIRE**
- 5 Manufacturer : **CHALMIT LIGHTING LTD**
- 6 Address : **388 Hillington Road, Glasgow, G52 4BL**
- 7 This supplementary certificate extends Type Examination Certificate No. BAS97ATEX4368 to apply to equipment designed and constructed in accordance with the specification set out in the Schedule of the said certificate but having any variations specified in the Schedule attached to this certificate and the documents therein referred to.

This Supplementary Certificate shall be held with the original Certificate

The Electrical Equipment Certification Service, Notified Body Number 0600, retains responsibility for its original documentation. Baseefa (2001) Ltd. is responsible only for the additional work relating to this supplementary certificate and any other supplementary certificate that it has issued.

This certificate may only be reproduced in its entirety, without any change, Schedule included.

Baseefa (2001) Ltd. Customer Reference No. 0068

Project File No. 02/0148

This certificate is granted subject to the general terms and conditions of Baseefa (2001) Ltd. It does not necessarily indicate that the equipment may be used in particular industries or circumstances.

Baseefa (2001) Ltd.

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Derbyshire, SK17 9BJ

A handwritten signature in black ink, appearing to read "R S Sinclair".

R S SINCLAIR

DIRECTOR

On behalf of

Baseefa (2001) Ltd.

Schedule

Description of the variation to the Equipment

Variation 3.1

To allow the Maxinex Floodlight Luminaire to be used in dust environments. The apparatus can be classified as Category 3D or Category 3GD and include the marking:

⊕ II3D T (see schedule) T_{amb} (see schedule)

The following models are included for use in zone 22 dust:

							Without PFC fitted	
Lamp Type	Designation	Power (W)	Max. amb. (°C)	Max. surface temp. (°C)	Max. amb. (°C)	Max. surface temp. (°C)	Max. amb. (°C)	Max. surface temp. (°C)
HPS	SON/T	400	45	200	50	205	55	210
Metal Halide	MBI/T		30			215		220
HPS	SON/T	250	55	180				
Metal Halide	MBI/T							
HPS	SON/T	150	55	130				
Metal Halide	MBI/T							

Report No.

02(C)0148 dated 12 November 2002

Special Conditions for Safe Use

None

Essential Health and Safety Requirements

See original certificate

Drawings and Documents

Number	Issue	Date	Description
D2113	0	21/6/02	Dust general arrangement



1 **SUPPLEMENTARY TYPE EXAMINATION CERTIFICATE**

2 **Equipment Intended for use in Potentially Explosive Atmospheres**
3 **Directive 94/9/EC**

3 Supplementary Type Examination **BAS97ATEX4368/4**
Certificate Number:

4 Equipment: **Maxinex Floodlight Luminaire**

5 Manufacturer: **Chalmit Lighting Limited**

6 Address: **388 Hillington Road, Glasgow, G52 4BL**

7 This supplementary certificate extends Type Examination Certificate No. **BAS97ATEX4368** to apply to equipment designed and constructed in accordance with the specification set out in the Schedule of the said certificate but having any variations specified in the Schedule attached to this certificate and the documents therein referred to.

This supplementary certificate shall be held with the original certificate.

The original certificate was issued by The Electrical Equipment Certification Service, which retains responsibility for its original documentation. Baseefa (2001) Ltd. is responsible only for the additional work relating to this supplementary certificate and any other supplementary certificate it has issued.

This certificate may only be reproduced in its entirety, without any change, schedule included.

Baseefa Customer Reference No.0068

Project File No. 04/0268

This certificate is granted subject to the general terms and conditions of Baseefa (2001) Ltd. It does not necessarily indicate that the equipment may be used in particular industries or circumstances.

Baseefa

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Baseefa is a trading name of Baseefa (2001) Ltd
Registered in England No. 4305578 at the above address

R S SINCLAIR
DIRECTOR
On behalf of
Baseefa (2001) Ltd.



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Schedule

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Certificate Number BAS97ATEX4368/4

15 Description of the variation to the Equipment

Variation 4.1

To add references of individual items to certificate BAS98ATEX3379U.

16 Report Number

None

17 Special Conditions for Safe Use

None

18 Essential Health and Safety Requirements

Compliance with the Essential Health and Safety Requirements is not affected by this variation.

19 Drawings and Documents

Number	Issue	Date	Description
D1729 Sheets 1&2	04	27.01.05	General Arrangement – Maxinex Floodlight