



TYPE EXAMINATION CERTIFICATE

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

Type Examination Certificate Number : **BAS99ATEX3012**

Equipment: **THE NEXXUS RANGE OF BULKHEAD LUMINAIRES**

Manufacturer: **CHALMIT LIGHTING LIMITED**

Address: **Glasgow, 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°

98(C)1175 dated 11 June 1999

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

EN 50021: 1999

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 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 EEx nR II T (see table)

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

File No: EECS 0068/03/039

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
22 July 1999



13

Schedule

14

TYPE EXAMINATION CERTIFICATE N° BAS99ATEX3012

15

Description of Equipment

The **Nexus luminaires** are designed for use with high pressure sodium, metal halide, mercury or compact fluorescent discharge and incandescent lamps at supply voltages of 110 to 254 volts, 50 or 60 Hz. They are defined as class 1 with regard to protection against electric shock according to EN60598-1.

The enclosures are "restricted breathing" and each consists of a die cast aluminium base with a glass lens fitted to a cover assembly. Internally the enclosures each contain a steel gear tray with control gear, a reflector and a lampholder mounted on a bracket. Three threaded holes in the base allow access for a suitably glanded supply cable which is terminated on a terminal block inside the enclosure. The glass is fitted with a protective guard.

The supply cable is terminated on terminal blocks covered by BASEEFA Type Examination Certificate BAS98ATEX3379U. Alternatively an uncertified fused block made from polycarbonate which carries a BS 1362 fuse and whose creepage and clearance dimensions are controlled by the schedule drawings may be used provided that the fuse is always retained by a metal clamp.

Supply cables may be looped in using a Weidmuller MK6, 6 way terminal block and cross connection combs to link terminals. Through wiring is also permitted, subject to a maximum current through the terminal block of 16A.

The ballast, which may include thermal protectors, the ignitor or starter and capacitors are all selected from Component Certificate BAS98ATEX3379U.

The range of luminaires is tabulated below:

Lamp type	Output	T _{amb} °C	T class
SON / E	100W	-45°C to +25°C	T3
		-45°C to +40°C*	
	70W	-45°C to +35°C#	T4
		-45°C to +50°C*	150°C (T3)
	50W	-45°C to +35°C#	T4
		-45°C to +50°C*	150°C (T3)
MBI	70W	-45°C to +35°C#	T4
		-45°C to +50°C*	150°C (T3)
MBFU	80W	-45°C to +25°C	150°C (T3)
		-45°C to +35°C*	T3
MBTF	160W	-25°C to +30°C	T3



13

Schedule

14

TYPE EXAMINATION CERTIFICATE N° BAS99ATEX3012

Lamp type	Output	T _{amb} °C	T class
GLS	200W	-45°C to +30°C	150°C (T3)
	150W	-45°C to +40°C	150°C (T3)
	100W	-45°C to +45°C	T4
CFL-DE	2 x 26W	-20°C to +30°C	T5
	2 x 18W		
	2 x 13W		
	26W	-20°C to +50°C	T5
	18W		
	13W		
CFL-DE 110 volt	to 1 x 26W	-20°C to + 30°C	T5

* indicates that a capacitor is not fitted

may be increased to + 40°C when a heat shield is fitted

VARIATION ONE

The luminaire may be supplied without a protective guard in which case the certificate number must be suffixed with an "X".

16

Report No.

98(C)1175 dated 11 June 1999

17

SPECIAL CONDITIONS FOR SAFE USE (APPLICABLE TO VARIATION ONE)

17.1 The luminaire supplied without a protective guard shall be limited to use in a low impact area.

18

Essential Health and Safety Requirements

Essential Health & Safety Requirements not covered by Standards listed at (9)		
Clause	Subject	Compliance
1.0	General requirements	4.1.0
1.1	Selection of materials	4.1.1
1.2	Design and construction	4.1.2
1.3	Potential ignition sources	4.1.3



13

Schedule

14

TYPE EXAMINATION CERTIFICATE N° BAS99ATEX3012

Clause	Subject	Compliance
1.4	Hazards from external effects	4.1.4
1.5	Safety related devices	4.1.5
1.6	Integration of safety requirements	4.1.6
2.1	Requirements for cat. 1 group II	4.2.1
2.2	Requirements for cat. 2 group II	4.2.2
2.3	Requirements for cat. 3 group II	4.2.3

19 **DRAWINGS**

Number	Sheet	Issue	Date	Description
D1894	1	0	19/2/99	G.A. parts list and table of variants
D1894	2	0	4/3/99	Guard and notes
D1894	3	0	4/3/99	Detail views and wiring diagram

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

BASEEFA List Keywords
2BULKUM



1 **SUPPLEMENTARY TYPE EXAMINATION CERTIFICATE**

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

5 Supplementary Type Examination Certificate Number: **BAS99ATEX3012/1**

6 Equipment or Protective System: **NEXXUS BULKHEAD LUMINAIRE**

7 Manufacturer: **CHALMIT LIGHTING LIMITED**

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

9 This supplementary certificate extends Type Examination Certificate No. BAS98ATEX3012 to apply
10 to equipment or protective systems designed and constructed in accordance with the specification set
11 out in the Schedule of the said Certificate but having any variations specified in the Schedule attached
12 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 0068/03/039

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
22 December 1999



Schedule

13

14 **SUPPLEMENTARY TYPE EXAMINATION CERTIFICATE N° BAS99ATEX3012/1**

Description of the Variation to the Equipment or Protective System

VARIATION ONE

To simplify the design by modifying the base casting so that the internal components may be mounted directly thereby removing the need for a separate gear try.

Associated with this change are the deletion of some wiring options and a clarification to allow the incandescent lamps to be used on direct current.

Report No.

None.

SPECIAL CONDITIONS FOR SAFE USE

See original certificate.

Essential Health and Safety Requirements

See original certificate.

DRAWINGS

Number	Rev	Date	Description
D1894 sheet 1	01	16.11.99	Nexus Parts List and Label
D1894 sheet 2	01	16.11.99	General Assembly
D1894 sheet 3	01	16.11.99	Circuit Diagram and Connection Detail

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**
Directive 94/9/EC

3 Supplementary Type Examination Certificate Number: **BAS99ATEX3012/2X**

4 Equipment: **NEXXUS BULKHEAD LUMINAIRE**

5 Manufacturer: **Chalmit Lighting Limited**

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

7 This supplementary certificate extends Type Examination Certificate No. BAS99ATEX3012 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. **05/0074**

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

Rockhead Business Park, Staden Lane,
Buxton, Derbyshire SK17 9RZ
Telephone +44 (0) 1298 766600 Fax +44 (0) 1298 766601
e-mail info@baseefa.com web site www.baseefa.com
Baseefa is a trading name of Baseefa (2001) Ltd
Registered in England No. 4305578 at the above address


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



13

Schedule

14

Certificate Number BAS99ATEX3012/2X

15 Description of the variation to the Equipment

Variation 2.1

Alternative position of the lampholder at the opposite end of the enclosure.

Variation 2.2

Optional fitment of a steel shroud to one end of the luminaire, with consequent modification to the guard.

Variation 2.3

Alternative reflector plate arrangement.

16 Report Number

05(C)0074

17 Special Conditions for Safe Use

In addition to those listed previously:

1. For Variation 2.2, when a 160W type MBT lamp is fitted, the maximum permitted ambient temperature is reduced to 25°C.

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	Sheet	Issue	Date	Description
D1894	1	2	7.7.05	Nexus Parts List and Label
D1894	2	2	7.7.05	General Assembly
D1894	3	2	7.7.05	Circuit Diagram and Connection Detail
D1894	4	2	7.7.05	Alternative Arrangements