



1 **TYPE EXAMINATION CERTIFICATE**

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

- 3 Type Examination Certificate Number: **Baseefa11ATEX0031X**
- 4 Equipment: **NEXXUS II LED Bulkhead Luminaire**
- 5 Manufacturer: **Chalmit Lighting**
- 6 Address: **388 Hillington Road, Glasgow, G52 4BL.**

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

8 Baseefa 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 No. **GB/BAS/ExTR11.0035/00**

9 Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

EN 60079-0:2009 EN 60079-15:2010 EN 60079-31:2009

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

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

12 The marking of the equipment shall include the following :

⊕ II 3GD Ex nR IIC T6 Gc Ex tc IIIC T70°C Dc IP66 (-45°C ≤ Ta ≤ +55°C) *See description.

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

Baseefa Customer Reference No. **0068**



Project File No. **10/0540**

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

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P R S SINCLAIR 
DIRECTOR
On behalf of
Baseefa



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Schedule

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Certificate Number Baseefa11ATEX0031X

15 Description of Equipment

The NEXXUS II Bulkhead Luminaire is rated 110-254V, 50/60Hz, 3W to 12W depending upon the number of LED's fitted.

* The ambient temperature range of the luminaire is -45°C to +55°C. When the luminaire is fitted with the 700mA current output LED driver the ambient temperature range is reduced to +45°C.

The luminaire comprises a cast aluminium flat rectangular base and a lid with a glass diffuser. The diffuser is attached to the lid with two screw clips and the cover is attached to the base with four screws. Ingress protection IP66 is provided with a gasket between the base and the diffuser.

The internal arrangement comprises 3, 6 or 12 x 1W light emitting diodes mounted onto an aluminium heatsink, an LED electronic control driver, fuse assembly and terminal block. Plug and sockets are provided between the LED's and the LED driver.

The luminaire is fitted with upto a maximum of 4 cable entries, 2 at each end of the enclosure. One of the entries is to be used for the fitting of a test port for routine checking once the luminaire is installed. All unused entries shall be fitted with a blanking element. The blanking elements that are permitted to be fitted to the luminaire are detailed below;

Manufacturer	Part No.	IECEX / ATEX Certificate	IP rating / Temperature range
Hawke	Type 387	IECEX BAS 06.0029U / Baseefa06ATEX0118U	IP66/67 / -60°C to +80°C (Nitrile O'ring) -60°C to +160°C (Silicon O'ring)
	Type 375	IECEX BAS 06.0056U / Baseefa06ATEX0236U	IP66/67 / -60°C to +75°C
Redapt	PD-U	IECEX SIR 05.0042U / Sira00ATEX1094 and Sira00ATEX3091	IP66/68 / -20°C to +80°C (Nitrile O'ring) -30°C to +125°C (EPDM O'ring) -20°C to +100°C (Neoprene O'ring) -5°C to +180°C (Viton O'ring) -30°C to +180°C (Silicone O'ring) -50°C to +150°C (Fluorosilicone O'ring)
	PD-E-4		IP66/68 / -20°C to +40°C

The enclosure is fitted with an internal and external earth connection facility.



Variation 0.1

The lid can be fitted with an optional wire guard when the luminaire is required to be used in an area of high risk of mechanical impact.

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17 Special Conditions for Safe Use

1. The luminaire supplied without the protective guard is limited for use in areas at risk to low mechanical impact only.
2. Any cable entry device fitted to the luminaire must be suitably IECEx/ATEX equipment certified and must maintain the IP rating of the enclosure and the restricting-breathing properties.
3. Any unused entries must be fitted with an IECEx/ATEX certified blanking element. Refer to the equipment description for details of the permitted blanking elements.
4. The ambient temperature range of the equipment will be limited according to the temperature range of the blanking element fitted. Refer to the equipment description for details of the permitted blanking elements.

18 Essential Health and Safety Requirements

All relevant Essential Health and Safety Requirements are covered by the standards listed at item 9.

19 Drawings and Documents

Number	Sheet	Issue	Date	Description
H021981	1 to 2	1	28/02/2011	Nexus II LED Ex nR Certification Details