



IECEX Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION
IEC Certification Scheme for Explosive Atmospheres
for rules and details of the IECEX Scheme visit www.iecex.com

Certificate No.: issue No.: Certificate history:

Status:

Date of Issue: **2011-11-24** Page 1 of 3

Applicant: **Chalmit Lighting**
388 Hillington Road
Glasgow
G52 4BL
United Kingdom

Electrical Apparatus: **NEXXUS II LED Bulkhead Luminaire**
Optional accessory:

Type of Protection: **Equipment protected by type of protection 'n', Equipment dust ignition protected by enclosure 't'**

Marking: **Ex nR IIC T6 Gc
Ex tc IIIC T70°C Dc
Ex tb IIIC T70°C Db
-45°C ≤ Ta ≤ +55°C**

Approved for issue on behalf of the IECEX Certification Body:  R S Sinclair 

Position: **Managing Director**

Signature: 
(for printed version)
Date: 

1. This certificate and schedule may only be reproduced in full.
2. This certificate is not transferable and remains the property of the issuing body.
3. The Status and authenticity of this certificate may be verified by visiting the [Official IECEX Website](http://www.iecex.com).

Certificate issued by:
Baseefa
Rockhead Business Park
Staden Lane
Buxton
Derbyshire
SK17 9RZ
United Kingdom





IECEX Certificate of Conformity

Certificate No.: IECEx BAS 11.0017X

Date of Issue: 2011-11-24

Issue No.: 0

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Manufacturer: **Chalmit Lighting**
388 Hillington Road
Glasgow
G52 4BL
United Kingdom

Manufacturing location(s):

This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEx Quality system requirements. This certificate is granted subject to the conditions as set out in IECEx Scheme Rules, IECEx 02 and Operational Documents as amended.

STANDARDS:

The electrical apparatus and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards:

IEC 60079-0 : 2007-10 Explosive atmospheres - Part 0: Equipment - General requirements
Edition: 5
IEC 60079-15 : 2010 Explosive atmospheres - Part 15: Equipment protection by type of protection "n"
Edition: 4
IEC 60079-31 : 2008 Explosive atmospheres – Part 31: Equipment dust ignition protection by enclosure 't'
Edition: 1

*This Certificate **does not** indicate compliance with electrical safety and performance requirements other than those expressly included in the Standards listed above.*

TEST & ASSESSMENT REPORTS:

A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in

Test Report:

[GB/BAS/ExTR11.0035/00](#)

Quality Assessment Report:

[GB/BAS/QAR06.0027/01](#)



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Certificate No.: IECEX BAS 11.0017X

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Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

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.

Refer to the Annex to this certificate for full details of the equipment

CONDITIONS OF CERTIFICATION: YES as shown below:

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 thus 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.



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.