



1 **EC - TYPE EXAMINATION CERTIFICATE**

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

- 3 EC - Type Examination Certificate Number: **Baseefa04ATEX0220 – Issue 6**
- 4 Equipment or Protective System: **The Protecta III Range of Luminaires**
- 5 Manufacturer: **Chalmit Lighting**
- 6 Address: **388 Hillington Road, Glasgow, G52 4BL**

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

8 Baseefa, Notified Body number 1180, in accordance with Article 9 of the Council Directive 94/9/EC of 23 March 1994, certifies that this equipment or protective system has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment and protective systems intended for use in potentially explosive atmospheres given in Annex II to the Directive.

The examination and test results are recorded in confidential Report No's. **GB/BAS/ExTR09.0035/00**

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

**EN 60079-0:2009 EN 60079-1:2007 EN 60079-5:2007 EN 60079-7:2007 EN 60079-18:2004
EN 61241-1:2004**

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 or protective system 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 or protective system. Further requirements of the Directive apply to the manufacturing process and supply of this equipment or protective system. These are not covered by this certificate.

12 The marking of the equipment or protective system shall include the following :

(Ex) II 2GD Ex e mb q IIC T4 Gb Ex tb IIIC T85°C Db IP66/67 -20°C ≤ Ta ≤ + * °C (See schedule)

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

Baseefa Customer Reference No. **0068**

Project File No. **07/1019**

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.

Baseefa

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R S SINCLAIR
DIRECTOR
On behalf of
Baseefa



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Schedule

14

Certificate Number Baseefa04ATEX0220 – Issue 6

15 Description of Equipment or Protective System

The Protecta III Range of Luminaires comprises single / twin bi-pin fluorescent lamp units of 18W and 36W in emergency and non-emergency variants.

The luminaire body is manufactured from glass reinforced polyester resin or stainless steel and the diffuser is manufactured from polycarbonate. The diffuser is hinged along one side to the body of the luminaire and along the other side a quick release snap-on clamp bar runs the entire length and is used to seal the diffuser to the body. The stainless steel body option has clips that are placed along the length of the luminaire. A gasket is secured in a groove in the body of the luminaire and forms an IP66/67 seal.

GRP models are identified by the catalogue code PRGE/**/, and the stainless steel models are identified by PRSE/**/. The code further defines the number and wattage of the lamps, bi-pin, emergency, voltage etc.

The control gear components are mounted within the body of the luminaire via a removable gear tray.

The electronic control gear is ATEX component certified. The component certification covers the parallel circuit ballast type ILB. The same certificate covers CNEVA electronic control gear incorporating an inverter for use on emergency models. Emergency models have a 6 volt battery made up of 5 Nickel-cadmium batteries connected in series rated at either 4 or 7 Ah. The CNEVA control gear controls the charging and discharging of the battery, providing under-voltage and over-voltage protection and preventing reverse polarity charging of the cells.

The body of the enclosure is fitted with 4 cable entries, maximum two at each end. The permitted component certified blanking elements to be used are detailed in the table below. Other suitable equipment certified blanking elements may be used.

Component / Manufacturer	Part No.	Certificate No.	Temperature range / IP rating
Blanking element / Redapt	PD-U-	IECEX SIR 05.0042U / SIRA00ATEX1094	-50°C to +150°C (Nitrile O'ring) / IP66/68
Blanking element / Hawke	Type 375	IECEX BAS 06.0056U / Baseefa06ATEX0236U	-60°C to +75°C / IP66/67
	Type 387	IECEX BAS 06.0029U / Baseefa06ATEX0118U	-60°C to +80°C (Nitrile O'ring) -60°C to +160°C (Silicone O'ring) / IP66/67



The enclosure must be fitted with suitably approved cable entry devices which shall maintain the ingress protection rating of the enclosure.

The body is also fitted with 2 x M8 bushes for mounting purposes. The stainless steel bodied version is supplied with external brackets to allow for mounting.

Brass earth continuity plates are fitted to the entries of the luminaires on the GRP bodied versions and an internal/external M8 earth stud is fitted to the body of the stainless steel bodied version. An earth terminal is also fitted to the gear tray. All the earth points are connected together via earth conductors.

* The ambient temperature ranges for the different models of luminaire are shown in the table below.

Body Material	Lamp Type	Model	Lamps	T _{amb} (°C)	T Class	Max Surface temperature (°C)
GRP	Bi-pin	Non-emergency	2 x 18W	-20 to +55	T4	T85
			2 x 36W			
		Emergency	2 x 18W			
			2 x 36W			
Stainless Steel	Bi-pin	Non-emergency	2 x 18W	-20 to +55		
			2 x 36W			
		Emergency	2 x 18W	-20 to +45		
			2 x 36W			

Alternatively if the enclosures are fitted with the silicone gasket they may be used within a lower ambient of -40°C.

Internal wiring is by 0.75mm² or 1.0mm² stranded copper conductors with PVC insulation. Through wiring is by 2.5mm² or 4mm² stranded conductors with PVC insulation.

Variations 0.1

An isolating switch may be fitted to the luminaire operated by a raised lip on the diffuser. When the diffuser is opened the contacts of the switch open-circuit and de-energises the luminaire. When this switch is fitted the equipment is marked as follows:

⊕ II 2GD Ex d e mb q IIC T4 Gb Ex tb IIIC T85°C Db IP66/67

Variation 0.2

Version of the enclosure with pole mounting option. The base of the enclosure incorporates a sleeve for the pole. The sleeve is fitted internally with a certified cable gland and a silicone seal around the entry which maintains the IP66/67 rating of the luminaire. Grub screws are incorporated into the sleeve to secure the luminaire to the pole once mounted. When the pole mounted variation is used the luminaire is restricted to the temperature range and IP rating of the cable gland.

16 Report Number

GB/BAS/ExTR09.0035/00

17 Special Conditions for Safe Use

None.

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

New drawings submitted for this issue of certificate.

Number	Sheet	Issue	Date	Description
D2635	1 of 3	2	12.12.08	Protecta III Product Schedule Bi Pin Lamps
D2635	2 of 3	2	12.12.08	Protecta III Product Schedule Bi Pin Stainless Steel Body
D2635	3 of 3	3	12.04.10	Protecta III Additional Labels
D2636	1 of 6	4	12.04.10	Protecta III Construction details
D2636	2 of 6	4	12.04.10	Protecta III Construction details
D2636	3 of 6	3	12.12.08	Protecta III Construction details Spigot Entry Enclosure
D2636	4 of 6	4	12.04.10	Protecta III Construction details Stainless Steel Body Type
D2636	5 of 6	3	12.12.08	Protecta III Construction details Typical Wiring Diagrams
D2636	6 of 6	-	22.09.09	Protecta III Construction details
D2637	1 of 3	2	12.12.08	Ex e Fluorescent Luminaire Components and Accessories
D2637	2 of 3	3	12.04.10	Ex e Fluorescent Luminaire Components and Accessories
D2637	3 of 3	2	12.12.08	Ex e Fluorescent Luminaire Components and Accessories Battery Details
D6061	1 of 1	-	21.12.2005	NEDAP Ballast EOL Certification Correlation
H014939	1 of 1	-	18.05.2010	Protecta III Typical Label

All the above drawings are common to, and held on, certificate IECEx BAS 09.0017.

20 Certificate History

Certificate No.	Date	Comments
Baseefa04ATEX0220	2 nd July 2004	The release of the prime certificate. The associated test and assessment is documented in Test Report No. 04(C)0131.
Baseefa04ATEX0220/1	21 st September 2005	To permit a pole mounted version of the 4ft GRP body luminaire. The associated test and assessment is documented in Test Report No. 05(C)0316.
Baseefa04ATEX0220/2	8 th March 2006	The ballasts used in these luminaires, covered by KEMA00ATEX2121U, have been tested and comply with the requirements of Annex H of draft standard IEC 60079-7 edition 4.0 for both the Asymmetric Pulse Test and Asymmetric Power Test as described in Amendments 4 and 5 of the KEMA certificate.
Baseefa04ATEX0220/3	5 th April 2007	To recognise that the battery packs, without additional encapsulant, comply with the requirements of Clause 5.7.2 of EN 60079-7:2007 and therefore may be used in the arrangement as detailed in the schedule drawing.
Baseefa04ATEX0220/4	6 th February 2008	To include an additional method of cable connection to the plug and socket assembly between the battery and the electronic ballast.

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Certificate No.	Date	Comments
Baseefa04ATEX0220/5	4 th November 2009	To allow the Ex d isolating switch currently used on the mono-pin luminaires to also be used on the bi-pin luminaires.
For drawings applicable to each issue, see original of that issue.		