



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.: **IECEX ITS 03.0005** Issue No.: 1

Status: **Current**

Date of Issue: **2006-01-09** Page 1 of 4

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

Electrical Apparatus: **Luminaire Protecta III**
Optional accessory:

Type of Protection: **Increased Safety**

Marking: **Ex eqm II T4**
-20°C to Ta to +55°C

*Approved for issue on behalf of the IECEx
Certification Body:*

A T Austin

Position:

Head of Department

Signature:
(for printed version)

Date:

9th January 2006

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.

Certificate issued by:

ITS Testing & Certification Limited ETL

SEMKO

ITS House, Cleeve Road,
Leatherhead,
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United Kingdom

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Manufacturer: **Chalmit Lighting**
Chalmit Lighting
388 Hillington Road
Glasgow G52 4BL
Scotland
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 manufacture'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 : 2000 Edition: 3.1	Electrical apparatus for explosive gas atmospheres - Part 0: General requirements
IEC 60079-18 : 1992 Edition: 1	Electrical apparatus for explosive gas atmospheres - Part 18: Encapsulation 'm'
IEC 60079-5 : 1997 Edition: 2	Electrical apparatus for explosive gas atmospheres - Part 5: Powder filling 'q'
IEC 60079-7 : 2001 Edition: 3	Electrical apparatus for explosive gas atmospheres - Part 7: Increased safety 'e'
IEC 61241-1-1 : 1999 Edition: 2	Electrical apparatus for use in the presence of combustible dust - Part 1-1: Electrical apparatus protected by enclosures and surface temperature limitation - Specification for apparatus

*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

IECEX ATR:

UK/ITS/03/03011499k

UK/ITS/03/03011499g

UK/ITS/03/03011499i

File Reference:

03011499

03011499

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Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

The Protecta luminaire is rated to 200-254V, 50 Hz or 60 Hz, designed for lamps rated 18W and 36W. The luminaire enclosure comprises a moulded polycarbonate diffuser with integral moulded hinges and a moulded glass reinforced body. The diffuser is hinged at one side and clamped on the opposite side to the sealing face by a quick release snap-on channel along the length of the Luminaire. To maintain the ingress protection rating an extruded gasket is fitted into a moulded groove in the body and fixed by adhesive. The gasket material is EDPM. A side entry type option is available with a 42mm spigot mounting entry chamber, which is sealed using a cable gland. As an alternative the body may be constructed from stainless steel and the diffuser retained by stainless steel clips. A silicone rubber sponge is fixed between the diffuser and the body to maintain the ingress protection rating.

Up to four cable or conduit entries are available, with sizes up to M25, for suitably glanded cables, which are terminated on terminal blocks inside the enclosure. The luminaire is provided with integral mounting bushes and is intended to be permanently mounted. Terminal blocks are attached to bosses on the enclosure for mains connection. The control gear and lampholders are mounted on a removable steel gear tray attached to the body by four screws that screw into moulded-in inserts on the body. The control gear comprises a non-emergency ballast types LEVA and ILB, and emergency type CNEVA which have KEMA component approval number KEMA00ATEX2121U and are coded Ex eq. The lampholders and, for the emergency type only, battery pack are of an IP30 construction.

The luminaire is de-energised by means of an Ex m potted reed switch and magnet assembly, which also contains the LED output for the emergency type. To permit energisation and de-energisation of the luminaire, a steel blade which is fixed to the diffuser is positioned between the magnet and the reed switch. The luminaire is de-energised when the cover is opened and the blade is removed from between the magnet and the reed switch. The 2x36/40W emergency models are fitted with 7Ah 6V or 4Ah 6V five battery cell packs dependant on duration required and the 2x18/20W emergency models are fitted with 4Ah 6V five battery cell packs.

Models suitable for mono-pin lamps may additionally have a Bartec isolating switch fitted, type 07-1544-1522 with PTB component approval number PTB98ATEX1011U or are marked do not open when energized.

Drawing Schedule

Description	Drawing No.	Revision	Date
Protecta Ex e IECEx LABEL	A7163	-	15/07/2003
Protecta Ex e IECEx Certification	D2567 sheets 1 D2567 sheets 2-5 D2568 sheets 1 D2568 sheet 2 D2568 sheet 3 D2568 sheet 4 D2568 sheet 5 D2570 sheets 1 D2570 sheets 2-3	-	09/09/2003 11/09/2003 11/09/2003 13/11/2003 11/09/2003 15/09/2003 18/09/2003 16/09/2003 17/09/2003
INSTALLATION, OPERATION AND MAINTENANCE INSTRUCTIONS Protecta III IECEx Luminaire	IOMPRO III IECEx	Issue 00	August 2003
INSTALLATION, OPERATION AND MAINTENANCE INSTRUCTIONS Protecta III Stainless steel IECEx Luminaire	IOMSTSTPRO III IECEx	Issue 00	August 2003

CONDITIONS OF CERTIFICATION: NO



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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above):

Issue 1 Changes

To allow a 4ft spigot entry model in the GRP range

To allow a reduction in the lower ambient temperature to -40°C when silicone gaskets are used.

Drawing No.	Issue No.	Date
D2567 Sheets 1 to 5	01	6.10.05
D2568 Sheets 1 to 5	01	7.10.05
D6010 Sheets 1 to 2	00	4.04.05
A7163	01	7.10.05

Annexe: