



IECEX Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification System for Explosive Atmospheres

for rules and details of the IECEx Scheme visit www.iecex.com

Certificate No.: **IECEX CML 23.0027X** Page 1 of 3 [Certificate history:](#)
Status: **Current** Issue No: 0
Date of Issue: 2023-06-30
Applicant: **Hubbell Ltd T/A Chalmit Lighting, Victor Lighting and Transtar**
388 Hillington Road
Glasgow G52 4BL
United Kingdom
Equipment: **The Protecta III LED**
Optional accessory:
Type of Protection: **Increased Safety Ex 'eb', Powder Filled Ex 'qb', Encapsulation Ex 'mb', Flameproof Ex 'db', Protection by enclosure Ex 'tb'**
Marking: Ex db eb mb q IIC T4 Gb
Ex tb IIIC T95°C Db
Ta : See Certificate Annex for ambient temperature ranges

Approved for issue on behalf of the IECEx
Certification Body:

L A Brisk

Position:

Assistant Certification Manager

Signature:
(for printed version)

Date:
(for printed version)

30 June 2023

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 www.iecex.com or use of this QR Code.



Certificate issued by:

Eurofins E&E CML Limited
Unit 1, Newport Business Park
New Port Road
Ellesmere Port, CH65 4LZ
United Kingdom





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Page 2 of 3

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Manufacturing locations: **Hubbell Ltd T/A Chalmit Lighting**
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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 equipment 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 60079-0:2017](#) Explosive atmospheres - Part 0: Equipment - General requirements
Edition:7.0

[IEC 60079-1:2014-06](#) Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
Edition:7.0

[IEC 60079-18:2017](#) Explosive atmospheres - Part 18: Protection by encapsulation "m"
Edition:4.1

[IEC 60079-31:2022-01](#) Explosive atmospheres – Part 31: Equipment dust ignition protection by enclosure "t"
Edition:3.0

[IEC 60079-5:2015](#) Explosive atmospheres –Part 5: Equipment protection by powder filling "q"
Edition:4.0

[IEC 60079-7:2017](#) Explosive atmospheres - Part 7: Equipment protection by increased safety "e"
Edition:5.1

This Certificate **does not** indicate compliance with 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/CML/ExTR23.0027/00](#)

Quality Assessment Report:

[GB/BAS/QAR06.0027/10](#)



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Page 3 of 3

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EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

The Protecta III LED comprises Ex q control gear and has emergency and non-emergency variants.

See Annex for full description and Conditions of Manufacture.

SPECIFIC CONDITIONS OF USE: YES as shown below:

See Annex for Specific Conditions of Use.

Annex:

[Certificate Annex IECEx CML 23.0027X Iss. 0.pdf](#)

Annexe to: IECEx CML 23.0027X Issue 0
Applicant: Hubbell Ltd T/A Chalmit Lighting, Victor Lighting and Transtar
Apparatus: The Protecta III LED

Description

The Protecta III LED comprises Ex q control gear and has emergency and non-emergency variants.

The luminaire body is manufactured from glass reinforced polyester resin 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. 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/***/. The code further defines the number and power of LED's, 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 Ex 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 a capacity of 4Ah up to 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 / Hawke	Type 375	IECEx BAS 06.0056U Baseefa17ATEX0042U	-60°C to +75°C / IP66/67
Blanking element / Hawke	387 Range of Stopping plug	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.



Certificate Annex IECEx
Version: 9.0 Approval: Approved

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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 via earth conductors.

The marking of the Protecta III LED Luminaire is:-

Ex eb mb q IIC T4 Gb

Ex tb IIIC T85°C Db IP66/67 (T_{amb} = see table below)

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.

Various options are permitted as indicated below: -

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:

Ex db eb mb q IIC T4 Gb Ex tb IIIC T85°C Db IP66/67

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.
3. To allow the equipment to be fitted with Bartec Insert Switch 07-1511, afforded component certificate IECEx EPS 14.0091U. This will enable the removal of the fully isolated gear tray from the luminaire and when it is fitted, the equipment shall be marked with the following ambient temperature range.

$T_a = -20/-40^{\circ}\text{C}$ to $+55^{\circ}\text{C}$

4. To allow an alternative light source consisting of encapsulated LED strips afforded IECEx CML 16.0012U, and associated Ex q driver circuit covered by IECEx BAS 14.0168U. The marking for luminaires with the LED light source is:

 II 2GD Ex db eb mb q IIC T4 Gb ($T_a -40^{\circ}\text{C}$ to $+55^{\circ}\text{C}$)

Ex tb IIIC T95°C Db IP66/67

The following models are included:

Version	Light source	Mains input V ac	Input Current A
02L	LED Strip	110-130V or 220-254V	0.31-0.27A or 0.16-0.14A
05L	LED Strip	110-130V or 220-254V	0.59-0.5A or 0.29-0.25A

Conditions of Manufacture

The following conditions are required of the manufacturing process for compliance with the certification.

- i. When the Protecta III LED luminaire is fitted with internal opaque diffuser the equipment shall be marked with ambient temperature range: $T_a = -40^{\circ}\text{C}$ to $+45^{\circ}\text{C}$.

Specific Conditions of Use

The following relate to the installation and/or safe use of the equipment/component:

- i. The equipment is for fixed installation only and shall be protected against the risks resulting electrostatic discharge. See manufacturer instruction manual for the necessary guidance.

Components covered by Ex Certificates issued to older editions of Standards

Certificate number	Standards (incl Ed)	Assessment result
IECEX EPS 14.0091U	IEC 60079-0:2017 Ed.7 IEC 60079-1:2014 Ed.7	N/A
IECEX BAS 17.0031U	IEC 60079-0:2017 Ed.7 IEC 60079-1:2014 Ed.7	N/A
IECEX PTB 04.0004U	IEC 60079-0:2017 Ed.7 IEC 60079-7:2017 Ed.5.1	N/A
IECEX CML 16.0012U	IEC 60079-0:2011 Ed.6 IEC 60079-18:2014 Ed.4 IEC 60079-28:2015 Ed.2	Yes, See ExTR report for component assessment.

Certificate number	Standards (incl Ed)	Assessment result
IECEX BAS 14.0129U	IEC 60079-0:2017 Ed.7 IEC 60079-18:2014 Ed.4	N/A
IECEX BAS 14.0168U	IEC 60079-0:2017 Ed.7 IEC 60079-5:2015 Ed.4 IEC 60079-7:2017 Ed.5.1	N/A
IECEX BAS 06.0029U	IEC 60079-0:2017 Ed.7 IEC 60079-7:2017 Ed.5.1 IEC 60079-31:2013 Ed.2	Yes, See ExTR report for component assessment.