

UK Type Examination Certificate CML 23UKEX1069X Issue 0

United Kingdom Conformity Assessment

- 1 Product or Protective System Intended for use in Potentially Explosive Atmospheres UKSI 2016:1107 (as amended) – Schedule 3A, Part 1
- 2 Equipment **The Protecta III LED**
- 3 Manufacturer **Hubbell Ltd T/A Chalmit Lighting, Victor Lighting and Transtar**
- 4 Address **388 Hillington Road, Glasgow G52
4BL, United Kingdom**

5 The equipment is specified in the description of this certificate and the documents to which it refers.

6 Eurofins E&E CML Limited, Newport Business Park, New Port Road, Ellesmere Port, CH65 4LZ, United Kingdom, Approved Body Number 2503, in accordance with Regulation 43 of the Equipment and Protective Systems Intended for Use in Potentially Explosive Atmospheres Regulations 2016, UKSI 2016:1107 (as amended), certifies that this equipment has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment intended for use in potentially explosive atmospheres given in Schedule 1 of the Regulations.

The examination and test results are recorded in the confidential reports listed in Section 12.


7 If an 'X' suffix appears after the certificate number, it indicates that the equipment is subject to specific conditions of use (affecting correct installation or safe use). These are specified in Section 14.

8 This UK Type Examination certificate relates only to the design and construction of the specified equipment. Further requirements of the Regulations apply to the manufacturing process and supply of the product. These are not covered by this certificate.

9 Compliance with the Essential Health and Safety Requirements, with the exception of those listed in the confidential report, has been demonstrated through compliance with the following documents:

EN IEC 60079-0:2018	EN IEC 60079-7:2015+A1:2018	EN 60079-1:2014
EN 60079-5:2015	EN 60079-18:2015+A1:2017	EN 60079-31:2014

10 The equipment shall be marked with the following:

 II 2 G D

Ex db eb mb q IIC T4 Gb

Ex mb tb IIIC T95°C Db

Ta= see product description for ambient temperature range options



**CML 23UKEX1069X
Issue 0**

11 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.

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)



CML 23UKEX1069X
Issue 0

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.

Ta = -20/-40°C to +55°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 (Ta -40°C to +55°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

12 Certificate history and evaluation reports

Issue	Date	Associated report	Notes
0	29 Jun 2023	R16169A/00	The issue of prime certificate.

Note: Drawings that describe the equipment are listed in the Annex.



**CML 23UKEX1069X
Issue 0**

13 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 $+45^{\circ}\text{C}$.

14 Specific Conditions of Use

The following conditions relate to safe installation and/or use of the equipment.

- 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.

Certificate Annex

Certificate Number CML 23UKEX1069X
Equipment The Protecta III LED
Manufacturer Hubbell Ltd T/A Chalmit Lighting, Victor Lighting and Transtar



The following documents describe the equipment defined in this certificate:

Issue 0

Drawing No	Sheets	Rev	Approved date	Title
H034906	1 to 2	2	29 Jun 2023	Protecta LED Isolation Switch Arrangement
H032752	1 to 8	5	29 Jun 2023	Protecta LED Gear Tray Certification Drawing
H037781	1 of 1	3	29 Jun 2023	Protecta LED Coding Changes