

UK Type Examination Certificate CML 21UKEX1506X Issue 4

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 **Protecta X**
- 3 Manufacturer **Hubbell Ltd T/A Chalmit Lighting**
- 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 42 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.

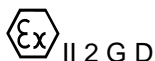
7 If an 'X' suffix appears after the certificate number, it indicates that the equipment is subject to specific conditions of use (affecting correct installation or safe use). These are specified in Section 14.

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

10 The equipment shall be marked with the following:



Ex db eb mb IIC T5 Gb

Ex tb IIIC T85°C Db





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11 Description

The Protecta X is comprised of an aluminium increased safety housing that contains a flameproof driver and one or two LED wings. There is also an optional emergency option which adds a battery and uses an additional flameproof enclosure for the emergency driver.

The battery can be an internally fitted part which requires the Protecta X to be dismantled in order to service it or it can be installed as a tube assembly which is accessed through an entry on the end of the luminaire and makes use of a flameproof connector so it may be replaced when an explosive atmosphere is present.

The flameproof enclosures are component approved to IECEx CML 18.0163U and CML 18ATEX1352U. The LED wings are component approved to IECEx CML 18.0168U, CML 18ATEX5359U and CML 21UKEX1511U (for the 'Ex mb' versions) or IECEx CML 21.0127U, CML 21ATEX11128U and CML 21UKEX11129U (for the 'Ex db' versions).

The model numbers are as follows:

CHALMIT MODEL NUMBER	WATTS	Hz	Volts	Tamb
PRXB/02L/LE/** PRXB/02L/LE/SFL/**	16	50/60	110-277 Vac 127-250 Vdc	-40°C to +60°C
PRXB/05L/LE/** PRXB/05L/LE/SFL/**	36	50/60		-40°C to +60°C
PRXB/07L/LE/** PRXB/07L/LE/SFL/**	49	50/60		-40°C to +55°C
PRXB/02L/LE/EM/** PRXB/02L/LE/EM/SFL/**	18.5	50/60	110-277 Vac 127-250 Vdc	-40°C to +60°C
PRXB/05L/LE/EM/** PRXB/05L/LE/EM/SFL/**	38.5	50/60		-40°C to +60°C
PRXB/07L/LE/EM/** PRXB/07L/LE/EM/SFL/**	51.5	50/60		-40°C to +55°C

The model codes that include SFL are sealed for life.

The screw that retains the pins in the flameproof connector is stainless steel grade A2.

Variation 1:

This variation introduced the following modifications:

- Permit the use of Chalmit Flameproof 2x2 LED Module as alternative.
- Permit the use of a new Ex d driver.
- Update of standards.
- Description updated in line with modifications included in this variation.
- Addition of a Specific Condition of Use

Variation 2:

This variation introduced the following modifications:

- Addition of alternative material for diffuser
- Update to harmonised standards



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Variation 3:

This variation introduced the following modifications:

- i. To implement modifications to the conditions of manufacture
- ii. Update of the product description to include extra rating information for emergency models.
- iii. Update schedule drawings H043149 and H045186 to include manufacturing and testing information.

Variation 4:

This variation introduced the following modifications:

- i. To update the equipment marking to IIC from IIB+H₂

12 Certificate history and evaluation reports

Issue	Date	Associated report	Notes
0	25 Jun 2021	R14157K/00	Issue of the prime certificate. CML 18ATEX3358X, Issue 1 is attached and shall be referred to in conjunction with this certificate.
1	22 Dec 2021	R14453B/00	Issue of the Variation 1. CML 18ATEX3358X, Issue 2 is attached and shall be referred to in conjunction with this certificate.
2	21 Jun 2022	R13473A/00	Issue of the Variation 2. CML 18ATEX3358X, Issue 3 is attached and shall be referred to in conjunction with this certificate.
3	06 Jan 2023	R13473A/00	Issue of the Variation 3. CML 18ATEX3358X, Issue 4 is attached and shall be referred to in conjunction with this certificate.
4	06 Sep 2023	R16776A/00	Issue of the Variation 4. CML 18ATEX3358X, Issue 5 is attached and shall be referred to in conjunction with this certificate.

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

13 Conditions of Manufacture

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

- i. Where the product incorporates certified parts or safety critical components, the manufacturer of the product defined on this certificate shall continually monitor these parts/components for any modifications introduced by the manufacturer(s) of these constituent parts. If the manufacturer of any constituent part introduces any changes which affect the compliance of the certified product that is the subject of this certificate, the manufacturer is required to have this certificate updated.



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14 Specific Conditions of Use

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

- i. Flameproof joints of battery stick connector (if fitted) and driver modules are not intended to be repaired.
- ii. Before and after removal of battery stick assembly or battery stick entry stopping plug, ensure no dust or debris can enter the entry.
- iii. When the battery stick assembly is removed from the Protecta X enclosure, a replacement assembly shall be inserted immediately or a suitably approved stopping plug shall be put in its place in order to maintain the IP rating of the enclosure.
- iv. Under certain extreme circumstances, the non-metallic parts incorporated in the enclosure of this equipment may generate an ignition-capable level of electrostatic charge. Therefore, the equipment shall not be installed in a location where the external conditions are conducive to the build-up of electrostatic charge on such surfaces (e.g. steam generation, windblown dust, etc). In addition, the equipment shall only be cleaned with a damp cloth.
- v. The flamepaths of the Ex db LED wing assemblies/LED modules (if fitted) shall not be repaired. Contact the manufacturer.

Certificate Annex

Certificate Number CML 21UKEX1506X
Equipment Protecta X
Manufacturer Hubbell Ltd T/A Chalmit Lighting



The following documents describe the equipment defined in this certificate:

Issue 0

For drawings describing the equipment, refer to attached certificate CML 18ATEX3358X, Issue 1. In addition to the drawings listed on CML 18ATEX3358X, Issue 1. the following drawings include the additional marking required for this UK Type Examination certification:

Drawing No	Sheets	Rev	Approved date	Title
H05715	1 of 1	0	25 June 2021	Protecta X Certified Nameplate

Issue 1

Drawing No	Sheets	Rev	Approved date	Title
H043149	1 to 4	4	22 Dec 2021	Zone 1 Protecta X Linear Certification Drawings

Issue 2

Drawing No	Sheets	Rev	Approved date	Title
H045186	1 to 2	3	21 Jun 2022	Chalmit LED Module Certification

Issue 3

Drawing No	Sheets	Rev	Approved date	Title
H043149	1 to 4	5	06 Jan 2023	ZONE 1 PROTECTA X LINEAR CERTIFICATION DRAWING
H045186	1 to 2	4	06 Jan 2023	CHALMIT LED MODULE CERTIFICATION

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Drawing No	Sheets	Rev	Approved date	Title
H043149	4 of 4	6	06 Sep 2023	Zone 1 Protecta X Linear Certification Drawing