



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 18.0167X	Page 1 of 4	<u>Certificate history:</u>
Status:	Current	Issue No: 5	Issue 4 (2023-01-06)
Date of Issue:	2023-09-06		Issue 3 (2022-06-22)
Applicant:	Chalmit Lighting (Hubbell Ltd) 388 Hillington Road Glasgow G52 4BL United Kingdom		Issue 2 (2021-12-22)
Equipment:	Protecta X Luminaire		Issue 1 (2021-06-14)
Optional accessory:			Issue 0 (2019-06-03)
Type of Protection:	Flameproof Ex "d", Increased Safety Ex "e", Encapsulation Ex "m" & Dust protection Ex "t"		
Marking:	Ex db eb mb IIC T5 Gb		
	Ex tb IIIC T85°C Db		
	Ta = -40°C ≤ Ta ≤ +55/60°C		

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)

06 Sep 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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Date of issue: 2023-09-06

Issue No: 5

Manufacturer: **Hubbell Ltd T/A Chalmit Lighting**
388 Hillington Road
Glasgow
G52 4BL
United Kingdom

Manufacturing
locations:

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](#) 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 60079-31:2013](#) Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t"
Edition:2

[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 Reports:

[GB/CML/ExTR18.0228/00](#)
[GB/CML/ExTR22.0110/00](#)

[GB/CML/ExTR21.0105/00](#)
[GB/CML/ExTR22.0268/00](#)

[GB/CML/ExTR21.0210/00](#)
[GB/CML/ExTR23.0207/00](#)

Quality Assessment Report:

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



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Date of issue: 2023-09-06

Issue No: 5

EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

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

The LED wings are component approved to IECEx CML 18.0168U (for the 'Ex mb' versions) or IECEx CML 21.0127U (for the 'Ex db' versions).

Refer to Certificate Annex for full Product Description and Conditions of Manufacture.

SPECIFIC CONDITIONS OF USE: YES as shown below:

Refer to Certificate Annex



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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)

Issue 1

This issue introduced the following changes:

1. To permit the addition of a sealed for life version.
2. The removal of "op is" from the coding and removal of IEC 60079-28 from the certificate, as the equipment no longer falls within its scope.

Issue 2

This issue introduced the following changes:

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

Issue 3

This issue introduced the following changes:

1. Addition of alternative material for diffuser

Issue 4

This issue introduced the following changes:

1. To implement modifications to the conditions of manufacture
2. Update of the product description to include extra rating information for emergency models
3. Update schedule drawings H043149 and H045186 to include manufacturing and testing information

Issue 5

This issue introduced the following changes:

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

Annex:

[Certificate Annex IECEx CML 18.0167X, Issue 5.pdf](#)

Annexe to: IECEx CML 18.0167X, Issue 5
Apparatus: Chalmit Lighting (Hubbell Ltd)
Applicant: Protecta X



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.

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.



Certificate Annex IECEx
Version: 10.0 Approval: Approved



Eurofins E&E CML Limited
Newport Business Park, New Port Road
Ellesmere Port, CH65 4LZ, UK





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.

Components used which are covered by Ex Certificates issued to older editions of Standards

None.



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