



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 CML 18.0167X

Issue No: 0

Certificate history:

[Issue No. 0 \(2019-06-03\)](#)

Status: **Current**

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Date of Issue: **2019-06-03**

Applicant: **Chalmit Lighting (Hubbell Ltd)**
388 Hillington Road,
Glasgow,
G52 4BL
United Kingdom

Equipment: **Protecta X Luminaire**

Optional accessory:

Type of Protection: **Ex d e m t o p**

Marking:
Ex db eb mb op is IIC T5 Gb
Ex op is tb IIIC T85°C Db

Ta = -40°C ≤ Ta ≤ +55/60°C

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

H M Amos MIET

Position:

Certification Manager

*Signature:
(for printed version)*

Date:

June 03, 2019

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:

Certification Management Limited
Unit 1, Newport Business Park
New Port Road
Ellesmere Port, CH65 4LZ
United Kingdom





IECEX Certificate of Conformity

Certificate No: IECEX CML 18.0167X Issue No: 0
Date of Issue: 2019-06-03 Page 2 of 3
Manufacturer: **Hubbell Ltd T/A Chalmit Lighting**
388 Hillington Road,
Glasgow,
G52 4BL
United Kingdom

Additional 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 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 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 : 2011 Edition:6.0	Explosive atmospheres - Part 0: General requirements
IEC 60079-1 : 2014-06 Edition:7.0	Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
IEC 60079-18 : 2017 Edition:4.1	Explosive atmospheres - Part 18: Protection by encapsulation "m"
IEC 60079-28 : 2015 Edition:2	Explosive atmospheres - Part 28: Protection of equipment and transmission systems using optical radiation
IEC 60079-31 : 2013 Edition:2	Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t"
IEC 60079-7 : 2017 Edition:5.1	Explosive atmospheres - Part 7: Equipment protection by increased safety "e"

*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

Test Report:

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

Quality Assessment Report:

[GB/BAS/QAR06.0027/07](#)



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Schedule

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

Refer to certificate annex for complete description

SPECIFIC CONDITIONS OF USE: YES as shown below:

Refer to certificate annex

Annex:

[Annex to IECEx CML 18.0167X Iss 0.pdf](#)

Annexe to: IECEx CML 18.0167X Iss 0
Applicant: Chalmit Lighting (Hubbell Ltd)
Apparatus: 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 CML18ATEX1352U

The LED wings are component approved to IECEx CML 18.0168U and CML 18ATEX5359U

The model numbers are as follows:

CHALMIT MODEL NUMBER	WATTS	Hz	Volts	Tamb
PRXB/02L/LE/**	16	50/60	110-277 Vac	-40°C to +60°C
PRXB/05L/LE/**	36	50/60	140-273 Vdc	-40°C to +60°C
PRXB/07L/LE/**	49	50/60		-40°C to +55°C

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

Conditions of manufacture

The following are conditions of manufacture

- 1 A dielectric strength test shall be performed on each Protecta X according to IEC/EN 60079-7 Clause 7.1 at (1000+2U) or 1500V, whichever is higher, for a minimum of 1 min or (1000+2U) x 1.2 for a minimum of 100ms. The flameproof enclosures and LED modules may be disconnected for this test.

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Conditions Of Certification/Special Conditions For Safe Use

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

1. Flameproof joints of battery stick connector (if fitted) and driver modules are not intended to be repaired.
2. Before and after removal of battery stick assembly or battery stick entry stopping plug, ensure no dust or debris can enter the entry.
3. 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.
4. 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.