



EU Type Examination Certificate CML 18ATEX3358X Issue 5

- 1 Equipment intended for use in Potentially Explosive Atmospheres Directive 2014/34/EU
- 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 CML B.V., Chamber of Commerce No 67386717, Koopvaardijweg 32, 4906CV Oosterhout, The Netherlands, Notified Body Number 2776, in accordance with Article 17 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, 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 Annex II to the Directive.

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 conditions of safe use (affecting correct installation or safe use). These are specified in Section 14.
- 8 This EU Type Examination certificate relates only to the design and construction of the specified equipment or component. Further requirements of Directive 2014/34/EU Article 13 apply to the manufacture of the equipment or component and are separately certified.
- 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:



II 2 G D

Ex db eb mb IIC T5 Gb

Ex tb IIC 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:

- i. To permit the addition of a sealed for life version.
- ii. The certification was reviewed and transferred from CML UK to CML B.V.
- iii. The removal of "op is" from the coding and removal of EN 60079-28 from the certificate, as the equipment no longer falls within its scope.

Variation 2:

This variation introduced the following modifications:

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



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Variation 3:

This variation introduced the following modifications:

- i. Addition of alternative material for diffuser
- ii. Update to harmonised standards.

Variation 4:

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 5:

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	03 Jun 2019	R12017A/00	Initial release of prime certificate
1	14 Jun 2021	R14171A/00	Introduction of Variation 1
2	22 Dec 2021	R14453B/00	Introduction of Variation 2
3	21 Jun 2022	R13473A/00	Introduction of Variation 3
4	06 Jan 2023	R15916A/00	Introduction of Variation 4
5	06 Sep 2023	R16776A/00	Introduction of Variation 5

Note: Drawings that describe the equipment or component are listed 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 (Special Conditions)

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 18ATEX3358X
Equipment Protecta X
Manufacturer Hubbell Ltd T/A Chalmit Lighting



The following documents describe the equipment or component defined in this certificate:

Issue 0

Drawing No	Sheets	Rev	Approved date	Title
H043149	1 to 4	2	03 Jun 2019	MAIN FINAL ASSEMBLY
H043415	1 to 3	4	03 Jun 2019	Swappable Battery Stick Assembly
4B3.3629.00	1 of 1	C	03 Jun 2019	MC-plug
4B3.3630.00	1 of 1	D	03 Jun 2019	MC-socket
E1101-0464	1 to 2	0	03 Jun 2019	Outer housing support end cap
E1101-0460	1 to 2	0	03 Jun 2019	Battery end cap and pin clip retainer

Issue 1

Drawing No.	Sheets	Rev	Approved date	Title
H043149	1 to 4	3	14 Jun 2021	ZONE 1 PROTECTA X LINEAR CERTIFICATION DRAWING

Issue 2

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

Issue 3

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

Issue 4

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