



EU Type Examination Certificate CML 18ATEX3358X Issue 0

- 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**
- 5 The equipment is specified in the description of this certificate and the documents to which it refers.
- 6 Certification Management Limited, Unit 1 Newport Business Park, New Port Road, Ellesmere Port CH65 4LZ, UK, Notified Body Number 2503, 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.
- 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 60079-0: A11:2013, Corr3

EN 60079-1:2014

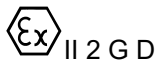
EN 60079-7:2015

EN 60079-18:2015

EN 60079-28:2015

EN 60079-31:2014

- 10 The equipment shall be marked with the following:



II 2 G D

Ex db eb mb op is IIC T5 Gb

Ex op is tb IIIC T85°C Db

Ta=-40°C ≤ Ta ≤ +55/60°C



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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 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.

12 Certificate history and evaluation reports

Issue	Date	Associated report	Notes
0	03/06/2019	R12017A/00	Initial release of prime certificate

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.

- 13.1 Where the product incorporates certified parts or safety critical components the manufacturer shall ensure that any changes to those parts or components do not affect the compliance of the certified product that is the subject of this certificate.
- 13.2 A dielectric strength test shall be performed on each Protecta X according to 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



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14 Specific Conditions of Use (Special Conditions)

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

- 14.1 Flameproof joints of battery stick connector (if fitted) and driver modules are not intended to be repaired.
- 14.2 Before and after removal of battery stick assembly or battery stick entry stopping plug, ensure no dust or debris can enter the entry.
- 14.3 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.
- 14.4 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.

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	03/06/2019	MAIN FINAL ASSEMBLY
H043415	1 to 3	4	03/06/2019	Swappable Battery Stick Assembly
4B3.3629.00	1 of 1	C	03/06/2019	MC-plug
4B3.3630.00	1 of 1	D	03/06/2019	MC-socket
E1101-0464	1 to 2	0	03/06/2019	Outer housing support end cap
E1101-0460	1 to 2	0	03/06/2019	Battery end cap and pin clip retainer