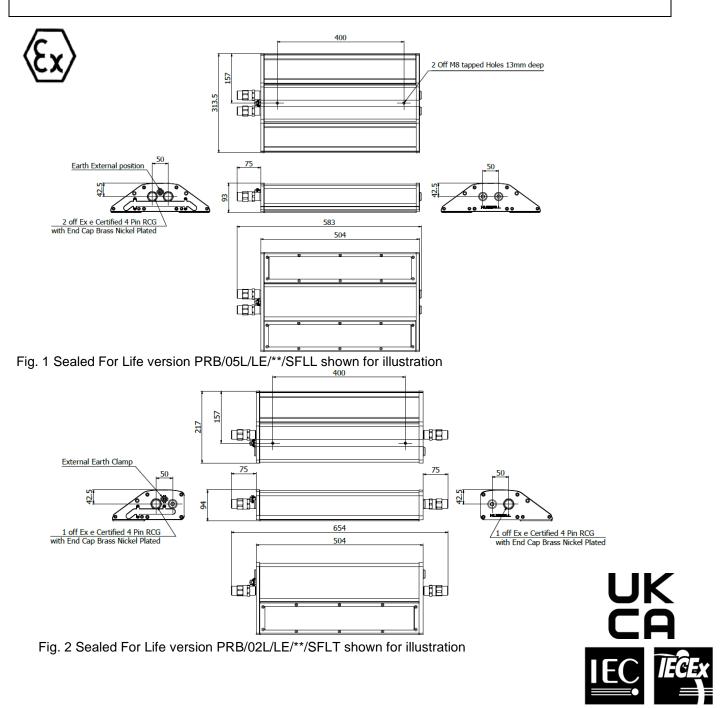


Protecta X Sealed For Life LED Linear Luminaire *ATEX, IECEx and UKEX*

INSTALLATION, OPERATION AND MAINTENANCE INSTRUCTIONS

Important: Please read these instructions carefully before installing or maintaining this equipment. Good electrical practices should always be followed, and this data should be used as a guide only.





Specification

Specification					
Type of Protection	Ex db eb (Flameproof, Increased Safety)				
	Ex tb (Dust Protected Enclosure)				
Protection Standards	EN/IEC 60079-0, EN/IEC 60079-1, EN/IEC 60079-7, EN/IEC 60079-31.				
Area Classification	Zone 1 and Zone 2 areas to EN/IEC 60079-10-1				
	Zone 21 and Zone 22 areas to EN/IEC 60079-10-2				
Installation	EN/IEC 60079-14				
Certificate	IECEx Certificate of Conformity IECEx CML 18.0167X				
	EU Type Examination Certificate CML 18ATEX3358X				
	UK Type Examination Certificate CML 21UKEX1506X				
Equipment Coding	Ex db eb IIC T5 Gb				
	Ex tb IIIC T85°C Db -40°C <u><</u> Ta <u><</u> 55°C/60°C				
ATEX /UKEX Coding	ll 2 GD				
Ingress Protection	IP66/67				
Photobiological safety of	Risk Group 1 LED product to IEC 62471.				
Lamps and Lamp Systems					
WARNI	NG! DO NOT OPEN WHEN AN EXPLOSIVE ATMOSPHERE IS PRESENT				
CE	The CE marking of this product applies to "The Electrical Equipment (Safety) Directive", The Electromagnetic Compatibility Directive", the "Waste Electrical and Electronic Equipment Directive" and the "Equipment and Protective Systems intended for use in Explosive Atmospheres Directive". [2014/35/EU, 2014/30/EU, 2012/19/EU and 2014/34/EU respectively].				
CE UK CA	The UKCA marking of this product applies to "The Electrical Equipment (Safety) Regulations 2016", "The Electromagnetic Compatibility Regulations 2016", the "Waste Electrical and Electronic Equipment Regulations 2012" and the "Equipment and Protective Systems intended for use in Explosive Atmospheres Regulations 2016				
	The Equipment is declared to meet the provisions of the ATEX directive (2014/34/EU) by reason of the Type Examination/EU Type Examination and meets the UK statutory requirements SI 2016 No.1107 and compliance with the Essential Health and Safety Requirements.				
	A Reid Technical Manager				



SPECIAL CONDITIONS FOR SAFE USE

Flameproof joints of driver modules are not intended to be repaired.

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.

The presence of certain chemicals in the explosive atmosphere may cause a chemical reaction with nonmetallic materials such as the polycarbonate diffuser and silicone/EPDM gaskets that could have detrimental effect on their performance. Chemical compatibility is highly dependent on concentration, temperature, humidity and other environmental conditions. The end user will assume responsibility for evaluation of gaseous or direct contact compatibility at their site prior to product installation. If in doubt please contact Chalmit sales.

1.0 Introduction – Protecta X

The Protecta X Luminaire operates from mains voltage.

This installation leaflet covers the range of ATEX and IECEx Protecta X Luminaire models. These luminaires are mainly used in harsh environments and are constructed using Non-corrosive materials. Refer to the current catalogue for information on product references. The luminaires are available in 02L, 05L and 07L Lumen outputs.

2.0 Electrical Supplies

Table 1 MODEL VARIATIONS

Voltage range AC ==:								
Voltage range DC ==:								
Frequency range Hz								
Product	Ambient	Tamb Range						
PRXB/02L/LE/SFL*	Ta25°C	-40°C to +60°C						
PRXB/05L/LE/SFL*	Ta25°C	110 - 277V	35	0.35 – 0.14A	-40°C to +60°C			
PRXB/07L/LE/SFL*								

The safety limit for surface temperature (T rating) is +/-10% on the rated voltage. The maximum nominal variation from rated voltages stated above is +/- 6%. For the full range of Product Technical data contact Chalmit technical department

Power Factor @230V >0.90 Over Voltage Through Wiring	Power is constant over voltage range. 400V ac for 1 min and EN 61000-4-5 > 4kV The through current rating is 16A. 4mm ² terminals are standard (As option /SC 6mm ² wiring can be used in the terminals in accordance with the luminaire certificate).
Fuse and MCB Ratings	It is recommended that for selection of MCBs users should consult the MCB manufacturer as this unit contains electronic control gear. The electronic control gear has nominal values of inrush current as follows; 07L 20.0A for 300μs on 230V @ Ta25°C 05L 17.7A for 41μs on 230V @ Ta25°C. 02L 14.5A for 28μs on 230V @ Ta25°C.

3.0 Storage

Luminaires are to be stored in cool dry conditions preventing ingress of moisture and condensation. Storage temperature range to be -40°C to +80°C.



4.0 Installation and Safety

4.1 General

These instructions should be read fully and carefully before attempting to install the luminaire. For details of servicing operations etc. see section 5.0

Copies of these instructions should be held in a safe place for future reference. It is the responsibility of the installer to ensure that the apparatus selected is fit for its intended purpose and that the installation, operation and maintenance of the apparatus complies with applicable regulations, standards or codes of practice. Installation should be carried out in accordance with (IEC) *EN 60079-14* or with a local hazardous area code of practice, whichever is appropriate.

Any specific installation instructions must be referred to. In the UK the requirements of the *Health and Safety at Work Act* must be met and electrical work associated with this product must be in accordance with the *"Manual Handling Operations Regulations"* and *"Electricity at Works Regulations 1989"*. Disposal instructions should be complied with. The luminaires should be considered Class 1 to EN 60598 and effectively earthed. Certification details on the rating plate must be verified against the application requirements before installation. The information in this leaflet is correct at the time of publication. The company reserves the right to make specification changes as required without notice.

4.1.1 Use in Combustible Dust Atmospheres

Where the equipment is used in ignitable dust atmospheres reference must be made to the selection and installation standards in order that the equipment is used correctly. In particular this applies to the de-rating of surface temperature for use where dust clouds may be present. Dust layers should not be allowed to accumulate on the fitting surface and good housekeeping is required for safe operation. Dust in layers has the potential to form ignitable clouds and to burn at lower temperatures. Refer to EN/IEC 60079-10-2 & EN/IEC 60079-14 for additional details of selection and installation.

4.1.2 Hybrid Mixtures – Gas plus Dust.

Where Hybrid mixtures exist as defined in EN1127 as a potentially explosive atmosphere, consideration should be given to verifying that the maximum surface temperature of the luminaire is below the ignition temperature of the hybrid mixture.

4.2 Tools

4mm flat blade Screw Driver (For 501/RCG Wire Connection) Suitable Spanners for Installing Cable Glands Pliers, Knife, Wire Strippers / Cutters

4.3 Mounting

Luminaires should be installed where access for maintenance is practical and in accordance with lighting design information. Refer to the note in 4.1 concerning electrostatic charge.

The standard suspension is via two M8 x 12mm deep blind tapped holes in the top of the body, the recommended torque for the fixing bolts is 10-15Nm. Various adaptors, pole clamps and suspension brackets are available to order.

4.4 Electrical Supplies

A maximum voltage variation of +6%/-6% on the nominal is expected. The safety limit for T rating is +10%.

4.5 Light Source

The luminaire is fitted with LEDS that can last >200,000 hours depending on ambient temperatures. Therefore, depending on the functionality of the fitting replacement of LED's will be rare / unnecessary.

4.6 Cabling and Cable Glands

4.6.1 Cable Entries

The Protecta X Sealed For Life Luminaire comes factory fitted with Hawke 501/RCG entries.

The installer and user must take responsibility for the selection of cables and termination of the cables with Hawke 501/RCG bodies, which are required to hook up the cable to the 501/RCG entries. 501/RCG bodies are not supplied with the luminaire.

The product is certified for ATEX, IECEx and UKEX and all factory fitted 501/RCG entries and sealing plugs have been assessed and certified in line with these requirements. As the luminaire is sealed for life, the installer should not remove the factory fitted cable entry or stopping plug devices.

All 501/RCG entries and stopping plugs are brass nickel plated as standard. The end user should ensure that these materials are suitable for the application.



The 501/RCG entries are supplied fitted with end caps. In order to maintain IP66/67, the 501/RCG entries are required to either be fitted with the metallic end caps, or be mated with a 501/RCG body.

The /SFLL version will have two 501/RCG entries on the one side of the Luminaire as per Fig. 1 and for the /SFLT versions, there will be two entries one at each side of the Luminaire as per Fig.

4.6.2 Cable

The temperature conditions at the supply cable entry point are such that 70°C (ordinary PVC) cable can be used.

4.6.3 Cable Connection

Refer to the Hawke OEM 501/RCG Installation Instructions for connection procedure of 501/RCG Body, Luminaire is supplied with 2x entry part code; NRCGBA04EBMBXDXXXX Refer to 7.1 Wiring Diagrams for the RCG Pin connections

4.7 Electrical Connections and Testing

If any work is to be done on any luminaire already connected to the electrical system, the luminaire must be isolated from the system.

However, if this is not possible luminaires can be tested with an insulation tester that complies with IEC 364 or BS 7671 with a maximum output current of 1mA and output voltage of 500V dc. (Units damaged by incorrect insulation testing can be detected). Before completing the wiring, ensure that all the connections are correct.

5.0 Inspection, Maintenance and Servicing

Safe servicing on the Luminaire requires the mains supply to be isolated.

Individual organisations will have their own procedures for inspection and maintenance. What follows are guidelines based on *EN/IEC 60079-17* and on our experience. Maintenance work and fault finding must be performed by competent personnel under an appropriate permit to work and with the apparatus isolated. Frequency of maintenance will depend on experience and the operating conditions.

- 1 Check if any LED's have failed.
- 2 The LEDs are mounted on boards, if there is 3 or more LED's not working on one board the light output will have dropped to a level where the LED board may need replaced.
- 3 Check the cable gland for tightness and re-tighten if necessary.
- 5 Check any external earthing.
- 6 Examine the LED diffuser for any signs of damage and for any signs of sealant damage, cracking or discoloration.
- 7 Check all End Cover bolts for tightness, Torque 4Nm.
- 8 Check for signs of corrosion between the LED Light Engine and the main housing. Evaluation of this will be a matter for judgement gained by experience, as there may be little evidence on the outside. A damaged or non-resilient gasket must be replaced (supplied by Chalmit).

Any replacement screws must be identical to the original. Replacement fasteners should be stainless steel marine ISO262 grade A4 -70 minimum

- 9 If painting operations have taken place around the luminaire, ensure that coatings have not entered or been deposited on the LED Diffuser. If they have, clean carefully.
- 10 Check that mountings are secure.
- 11 Clean the LED Diffuser.
- 12 If there is suspicion that the luminaire has suffered mechanical damage, a stringent workshop check should be made.

6.0 Electrical Fault Finding and Replacement

Any fault finding must be done by a competent electrician with the luminaire isolated and if carried out with the luminaire in place, under a permit to work. Fault finding is by substitution with known good components.

7.0 DALI feature,

The driver when ordering a /DM version will have DALI 2 compatibility control gear

7.1 Wire Diagram

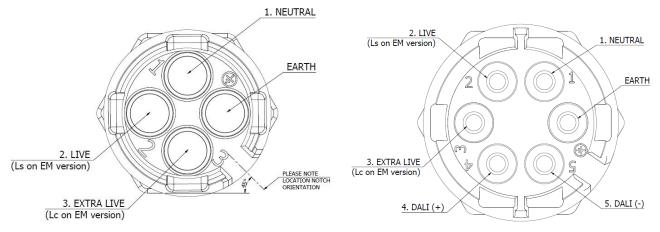
4 WAY NON-EMERGENCY PIN ALLOCATION

I-PROXB-20 Issue 01 24/08/2023

6 WAY NON-EMERGENC, DIMMING PIN ALLOCATION

5





8.0 Disposal of Material

The unit is mostly made from incombustible materials. The control gear contains electronic components and synthetic resin. All these may give off noxious fumes if incinerated. Care must be taken to render these fumes harmless and avoid inhalation. Any local regulations concerning disposal must be complied with. Any disposal must satisfy the requirements of the <u>WEEE directive [2012/19/EU and Regulations 2012]</u> and therefore must not be treated as commercial waste.



To comply with the Waste Electrical and Electronic Equipment directive 2012/19/EU and Regulations 2012 the apparatus cannot be classified as commercial waste and as such must be disposed of or recycled in such a manner as to reduce the environmental impact.

Chalmit Lighting is a leading supplier of Hazardous Area lighting products

Chalmit		CHALMIT LIGHTING PO Box 5575 Glasgow, G52 9AP Scotland		RUBBELL ®
Telephone: Fax: Email: Web:	+44 (0) 141 882 555 +44 (0) 141 883 370 info@chalmit.com www.chalmit.com		Registered No: Registered Office	669157 : Cannon Place 78 Cannon Street London EC4N 6AF UK

For technical support, please contact: techsupport@chalmit.com

Note: Chalmit Lighting reserves the right to amend characteristics of our products and all data is for guidance only.



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52.6.52		-Déclaration de conformité I-Konformitätserklärung						
11 22 11	LO-Romonn	itatserkiarung						
Manufacturer		Chalmit	Address	388 Hillington Road, Glasg	ow G52 4BL Scotland UK			
Product		Protecta X (LED Li						
Notified Body		CML B.V. 2776						
EU - Type Examination Certificate			CML 18ATEX3358X					
Approved Body		Eurofins CML 2503	Eurofins CML 2503					
UK Type Exar	nination Certificat	e CML 21UKEX1506	CML 21UKEX1506X					
ATEX/UKEX (Coding	(Ex) 2 GD	⟨Ex⟩ II 2 GD					
ATEX/UKEX (Classification	Group II Category	2 GD					
Equipment Co	oding		Ex db eb llC T5 Gb -40°C <u><</u> Ta <u><</u> 55°C/ 60°C					
Ingress Protect	ction	EX to IIIC 1* IP66/67	*°C Db IP6*					
		ct to equivalence of						
La base techn	ique, en ce qui c	oncerne l'équivalence de						
Die technische	e Grundlage hins	chtlich der Normen						
Protection Sta	ndards EN 6007	79-0, EN 60079-1, EN 600	79-7, EN 60079-	31				
Area Classific	ation EN 60079-1	0-1 and EN 60079-10-2						
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2011/65/EU Regulations 2012	RoHS II Directive		
Additional information:	The luminaire is capable of withstanding over voltage of 4kV.	levels of up to 400V AC for 1 minu	ute and impulse voltage surges
Informations complémentaires:	Le luminaire peut supporter des niveaux de tensions juqu'à 400V CA pendant 1 minute et des tensions de choc de 4kV.		
Zusatzinformation	Dieser Strahler widersteht Überspannungen bis 400V	AC 1 Minute lang sowie Stoßspanr	nungen von 4kV.

On behalf of the Chalmit, I declare that, on the date the equipment accompanied by this declaration is placed on the market, the equipment conforms to all technical and regulatory requirements of the above listed directives.

En tant que représentant du fabricant Chalmit, je déclare qu'à la date où les équipements accompagnant cette déclaration sont mis sur le marché, ceux-ci sont conformes à toutes les dispositions réglementaires et techniques des directives énumérées ci-dessus.

Hiermit bestätige ich, im Namen von Chalmit, dass am Tag der Lieferung des Produkts/der Produkte zusammen mit dieser Erklärung das Gerät/die Geräte alle technischen und regulativen Anforderungen der oben aufgeführten Direktiven erfüllt.

Name and Date Nom et Date Name und Datum	Andrew Reid	24/08/2023	Technical Manager Directeur technique Technischer Leiter	A
Quality Assurance Notif	fication by:	SGS Fimko OY	Quality Management System Acreditation:	ISO 9001
Notification d'assurance Qualitätssicherungsnoti		0598	Système de Management Qualité Accréditation: Qualitätsmanagementsystem Akkreditierung: Environmental Management System. Système de gestion de l'environnement. Umwelt kontroll system.	ISO 14001 by/par/durch Loyd's Register
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24/08/2023