

## UK Type Examination Certificate CML 21UKEX3644X Issue 1

### United Kingdom Conformity Assessment

- 1 Product or Protective System Intended for use in Potentially Explosive Atmospheres UKSI 2016:1107 (as amended) – Schedule 3A, Part 1
- 2 Equipment **LX-XXX LinkEx LED Luminaires**
- 3 Manufacturer **Wolf Safety Lamp Company Limited**
- 4 Address **Saxon Road Works, Sheffield, S8 0YA, England, United Kingdom**
- 5 The equipment is specified in the description of this certificate and the documents to which it refers.
- 6 Eurofins E&E CML Limited, Newport Business Park, New Port Road, Ellesmere Port, CH65 4LZ, United Kingdom, Approved Body Number 2503, in accordance with Regulation 42 of the Equipment and Protective Systems Intended for Use in Potentially Explosive Atmospheres Regulations 2016, UKSI 2016:1107 (as amended), 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 Schedule 1 of the Regulations.  
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 specific conditions of use (affecting correct installation or safe use). These are specified in Section 14.
- 8 This UK Type Examination certificate relates only to the design and construction of the specified equipment. Further requirements of the Regulations apply to the manufacturing process and supply of the product. These are not covered by this certificate.
- 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 IEC 60079-7:2015+A1:2018      EN 60079-18:2015+A1:2017  
EN 60079-11:2012      EN 60079-31:2024  
  
\* Although this standard does not appear on the harmonised list, the content has been reviewed, and as it is the latest technical knowledge and addresses all the same requirements as the previous edition, it is accepted as meeting the same EHSRs of the Directive as the previous harmonised edition.
- 10 The equipment shall be marked with the following:

*Without IS switch*



II 2 GD

Ex eb mb IIC T3<sup>1</sup>/T4<sup>2</sup> Gb

Ex tb IIIC T170<sup>1</sup>/T135<sup>2</sup>°C Db IP6X<sup>\*\*</sup>

Ta: -20°C to +40<sup>1</sup>/45<sup>3</sup>/55<sup>2</sup>°C

*With IS switch*



II 2 GD

Ex eb ib mb IIC T4 Gb

Ex ib tb IIIC T135°C Db IP6X<sup>\*\*</sup>

Ta: -20°C to +45<sup>3</sup>/55<sup>2</sup>°C

<sup>1</sup> MK1 drivers

<sup>2</sup> MK2 drivers

<sup>3</sup> With protective cover

<sup>\*\*</sup>This coding may be omitted





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## 11 Description

The LX-XXX LinkEx LED Luminaires are suitable for temporary lighting installations. The luminaires comprise a clear, tubular, polycarbonate lamp envelope with two polycarbonate or aluminium end mouldings. The lamp envelope is all treated with a clear anti-static coating to safely dissipate any static electricity. The end mouldings are secured to the tube via the internal gear tray, which is fabricated from steel or aluminium, two M5 and two M6 screws and bonded seals are used to secure each end cap. A silicone gasket is fitted within a groove on each end cap, thus maintaining the IP64 (as applicable) ratings. The luminaires have additionally been independently tested according to the requirements of EN/IEC 60529 to meet IP67, with no sockets fitted, and IP66 when sockets are fitted.

The luminaires are fitted with replaceable bump ring clamped between the seal ring and end plate, giving additional protection to the luminaire.

180° variant – These comprise a main gear tray, with the driver and terminal connection blocks on the underside with two encapsulated LED strips fitted to the upper, distributing the light through 180°.

360° variant – These comprise two gear trays and two narrow channels, with the driver and terminal connection blocks fitted along with two encapsulated LED strips, one fitted to each side, distributing the light through 360°.

Luminaires can be supplied with sockets fitted to the end caps with bolts, nuts and sealing washers and/or various lengths of cable with plugs fitted.

The luminaires can be fitted with an intrinsically safe switch.

The luminaires may be marked T3/T170°C or T4/T135°C (dependent upon the type of driver fitted). LX-XXXE models incorporate a battery for emergency operation in the event of power failure.

The T3 marked luminaires are designed for use with an electrical supply of either 85 Vac to 264 Vac, 50/60 Hz or 19 Vdc/ac, rms to 28 Vdc/ac, rms.

The T4 marked luminaires are designed for use with an electrical supply of either 0 Vac to 264 Vac 50/60 Hz or 0 V to 50 V ac/dc, 50/60 Hz.

The Emergency luminaires are designed for use with an electrical supply or either 0 Vac to 264 Vac 50/60 Hz or 0 to 55 V ac/dc, 50/60Hz.

The luminaires may be mounted in any attitude and are suitable for use with accessories.

### Variation 1

The following changes were introduced:

- i. Driver LX-400E (LV Input Board) L2/L3 Choke change.
- ii. Driver LX-400E (HV Input Board) add new capacitor C27 and removal of F2 thermal fuse.
- iii. LED Board add of a surface mounted fuse.
- iv. To update and review the product against the latest standard EN IEC 60079-31:2024.
- v. To recognise corrections to product description related to the emergency luminaires ratings.
- vi. To recognise minor modifications to the drawings.

## 12 Certificate history and evaluation reports

Issue	Date	Associated report	Notes
0	23 Oct 2021	R13361B/00	Issue of Prime Certificate
1	14 May 2025	R17061A/00	Introduction of Variation 3

Note: Drawings that describe the equipment are listed in the Annex.



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### 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 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.
- ii. The encapsulated parts of the apparatus shall be subjected to a visual inspection. No visible damage of the compound shall be evident, such as cracks, exposure of the encapsulated parts, flaking, impermissible shrinkage, discoloration, swelling decomposition or softening, as required by EN/IEC 60079-18:2015 Clause 9.1.
- iii. For equipment rated in excess of 90 V peak, an electric strength test of  $2U+1000$  V (where U is the supply voltage) with a minimum of 1500 V ac, shall be applied between circuit and casing for at least 1 minute, as required by EN/IEC 60079-7:2015, Clause 6.1. No breakdown shall occur. Alternatively, a test at 1.2 times the test voltage may be applied for at least 100 ms. The test is also permitted to be conducted at a dc voltage of 140% of the specified ac r.m.s. test voltage.
- iv. For equipment rated less than 90 V peak, and electric strength test of 500 V r.m.s. shall be applied between the circuit and the casing for at least 1 minute, as required by EN/IEC 60079-7:2015, Clause 6.1. No breakdown shall occur. Alternatively, a test at 1.2 times the test voltage may be applied for at least 100 ms. The test is also permitted to be conducted at a dc voltage of 140% of the specified ac r.m.s. test voltage.
- v. The manufacturer shall ensure that any alternative, component certified socket fitted to the equipment shall be suitably certified, have a service temperature range of at least  $-20^{\circ}\text{C}$  to  $+55^{\circ}\text{C}$ , be used within its electrical ratings, and provide a minimum degree of protection of
  - IP64 (for models labelled as suitable for use in explosive dusts)
  - IP54 (for models not labelled as suitable for use in explosive dusts)or that shown on the label, whichever is the higher.

Additionally, the manufacturer shall comply with all the requirements of the schedule of limitations of such components.
- vi. The manufacturer shall ensure that any equipment certified socket fitted to the equipment shall be suitably certified, have an operating temperature range of at least  $-20^{\circ}\text{C}$  to  $+55^{\circ}\text{C}$ , temperature class of T4 or better, be used within its electrical ratings, and provide a minimum degree of protection of
  - IP64 (for models labelled as suitable for use in explosive dusts)
  - IP54 (for models not labelled as suitable for use in explosive dusts)or that shown on the label, whichever is the higher.

Additionally, the manufacturer shall comply with all the conditions of use of such sockets.
- vii. When the luminaire is fitted with a socket that has associated special conditions for safe use, the manufacturer shall take all reasonable steps to ensure that the user/installer complies with these conditions.
- viii. The manufacturer shall select suitable materials for accessories as defined on certified drawings LX-702 & LX-703.
- ix. The battery packs for fast charging options shall be fitted with appropriate thermal fuses.



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#### **14 Specific Conditions of Use**

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

- i. The user/installer shall ensure that, when the luminaire is fitted with a previously certified plug or socket that has associated specific conditions of use, they shall take into account any restrictions or conditions for safe use that are applicable to these devices.

## Certificate Annex

**Certificate Number** CML 21UKEX3644X  
**Equipment** LX-XXX LinkEx LED Luminaires  
**Manufacturer** Wolf Safety Lamp Company Limited



The following documents describe the equipment defined in this certificate:

### Issue 0

For drawings describing the equipment, refer to attached certificate, CML 18ATEX3371X Iss. 2.

### Issue 1

Drawing No	Sheets	Rev	Approved date	Title
LX-904	1 of 1	5	29 May 2025	LX-400E, 18-55 Volt Input Stage
LX-905	1 of 1	4	29 May 2025	LX-400E, High Voltage Input Stage
LX-820	1 of 1	1	29 May 2025	LED Heatsink Assembly
LX-821	1 of 1	1	29 May 2025	LED Heatsink Assembly
LX-822	1 of 1	1	29 May 2025	LED Heatsink Assembly
LX-702	1 of 1	7	29 May 2025	LinkEx Compact GA - MK2 Driver
LX-703	1 of 1	8	29 May 2025	LED LinkEx Emergency - GA
LX-803	1 of 1	7	29 May 2025	LED LinkEx Compact HV MK2 Potted Driver Assembly
LX-825	1 of 1	6	29 May 2025	LED LinkEx Compact LV Mk2 Potted Driv