



## UK Type Examination Certificate CML 22UKEX3076X 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 **LifEx-PE, LifEx-PN and LifEx-PT series of linear lighting fixtures**
- 3 Manufacturer **Cortem S.p.A.**
- 4 Address **Via Aquileia 10,  
34070 Villesse,  
(GO), Italy**

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.

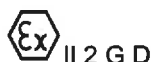
8 This UK Type Examination certificate relates only to the design and construction of the specified equipment. Further requirements of the Regulations apply to the manufacturing process and supply of the product. These are not covered by this certificate.

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 60079-1:2014                      EN IEC 60079-7:2015+A1:2018  
EN 60079-18:2015+A1:2017              EN 60079-31:2024

10 The equipment shall be marked with the following:

LifEx-PE



Ex db eb mb IIC T.. Gb  
Ex eb mb IIC T.. Gb  
(when Ex mb LED drivers are used)  
Ex tb IIIC T... °C Db

Ta= refer to product description

LifEx-PN and LifEx-PT



Ex tb IIIC T... °C Db

Ta= refer to product description



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This certificate shall only be copied  
in its entirety and without change  
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*L A Brisk*

L A Brisk  
Assistant Certification Manager



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## 11 Description

The LifEx-P is a range of linear LED lighting fixtures that are available in three different configurations for different applications, designated as the LifEx-PE, LifEx-PT and LifEx-PN.

All versions use a polycarbonate Makrolon extrusion used as enclosure and an internal aluminium extrusion used as an internal frame.

Some of these versions, use a glass lens (LifEx-PE).

### LifEx-PE

The LifEx-PE version has an Equipment Protection Level of EPL Gb and Db and utilises types of protection increased safety (eb) and dust protection by enclosure (tb), along with encapsulation (mb) for the light source and flameproof (db) for the driver. An alternative encapsulated (mb) driver may be used.

### LifEx-PN

The LifEx-PN version has an Equipment Protection Level of EPL Db and utilises type of protection dust protection by enclosure (tb).

### LifEx-PT

The LifEx-PT versions has an Equipment Protection Level of EPL Db and utilises types of protection dust protection by enclosure (tb).

### Design Options

Every configuration is available in lengths ranging from 300 mm to 1500 mm, and power ratings up to a maximum of 105W of nominal power.

The LifEx can be used in only normal service, in only emergency service or in normal and emergency service.

The minimum ambient temperature for the range is:

- -60°C for versions without battery
- -20°C for versions with battery (-60°C when Ex mb battery heater is used)

The complete range has an upper ambient of +60°C.

The following tables provide the Temperature Class (EPL Gb) and Maximum Surface Temperature (EPL Db) for each LifEx type:

MODEL	Maximum ambient temperature (For Zone 1-21 applications)			
	Ta = +40°C	Ta = +50°C	Ta = +55°C	Ta = +60°C
LifEx-PE-0315..	T5(53°C)	T5(63°C)	T4(68°C)	T4(73°C)
LifEx-PE-0330..	T5(53°C)	T5(63°C)	T4(68°C)	T4(73°C)
LifEx-PE-0615..	T6(57°C)	T5(67°C)	T5(72°C)	T4(77°C)
LifEx-PE-0630..	T6(57°C)	T5(67°C)	T5(72°C)	T4(77°C)
LifEx-PE-0645..	T6(57°C)	T5(67°C)	T5(72°C)	T4(77°C)



MODEL	Maximum ambient temperature (For Zone 1-21 applications)			
	Ta = +40°C	Ta = +50°C	Ta = +55°C	Ta = +60°C
LifEx-PE-0660..	T6(57°C)	T5(67°C)	T5(72°C)	T4(77°C)
LifEx-PE-1230..	T6(55°C)	T5(65°C)	T5(70°C)	T5(75°C)
LifEx-PE-1260..	T6(55°C)	T5(65°C)	T5(70°C)	T5(75°C)
LifEx-PE-1290..	T6(55°C)	T5(65°C)	T5(70°C)	T5(75°C)
LifEx-PE-12120..	T6(55°C)	T5(65°C)	T5(70°C)	T5(75°C)
LifEx-PE-1590..	T6(55°C)	T5(65°C)	T5(70°C)	T5(75°C)

**Table 1: Temperature Class (EPL Gb) and Maximum Surface Temperature (EPL Db) for LifEx-PE models**

MODEL	Maximum ambient temperature (For -Zone 21 applications)			
	Ta = +40°C	Ta = +50°C	Ta = +55°C	Ta = +60°C
LifEx-PN-0315..	47°C	57°C	62°C	67°C
LifEx-PN-0330..	54°C	64°C	69°C	74°C
LifEx-PN-0615..	47°C	57°C	62°C	67°C
LifEx-PN-0630..	47°C	57°C	62°C	67°C
LifEx-PN-0645..	47°C	57°C	62°C	67°C
LifEx-PN-0660..	54°C	64°C	69°C	74°C
LifEx-PN-1230..	47°C	57°C	62°C	67°C
LifEx-PN-1260..	47°C	57°C	62°C	67°C
LifEx-PN-1290..	47°C	57°C	62°C	67°C
LifEx-PN-12120...	68°C	78°C	83°C	88°C
LifEx-PN-1590..	47°C	57°C	62°C	67°C

**Table 2: Maximum Surface Temperature (EPL Db) for LifeEx-PN models**



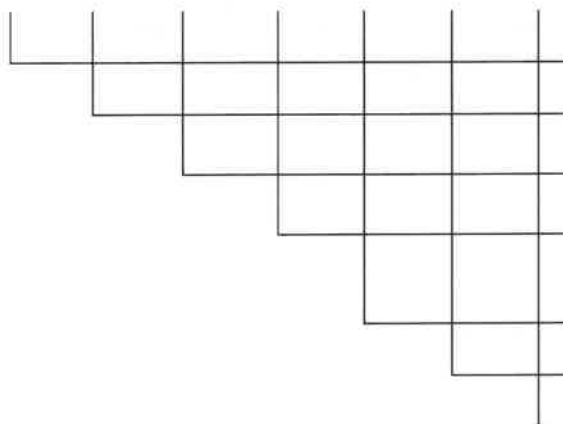
MODEL	Maximum ambient temperature (For Zone 21 applications)			
	Ta = +40°C	Ta = +50°C	Ta = +55°C	Ta = +60°C
LifEx-PT-0315..	47°C	57°C	62°C	67°C
LifEx-PT-0330..	47°C	57°C	62°C	67°C
LifEx-PT-0615..	54°C	64°C	69°C	74°C
LifEx-PT-0630..	47°C	57°C	62°C	67°C
LifEx-PT-0645..	47°C	57°C	62°C	67°C
LifEx-PT-0660..	54°C	64°C	69°C	74°C
LifEx-PT-1230..	47°C	57°C	62°C	67°C
LifEx-PT-1260..	47°C	57°C	62°C	67°C
LifEx-PT-1290..	47°C	57°C	62°C	67°C
LifEx-PT-12120..	54°C	64°C	69°C	74°C
LifEx-PT-1590..	47°C	57°C	62°C	67°C

Table 3: Maximum Surface Temperature (EPL Db) for LifEx-PT models

The equipment has been separately tested against the requirements of IEC 60529 and it meets IP66. The gaskets on the caps provide the degree of protection.

The equipment uses the following nomenclature:

LifEx-P   -



Code of the series

**E, N, T** for the type of the lamp

**03, 06, 12** or **15** for the length of lighting fixture

**15, 30, 45, 60, 90,** or **120** for the power of lighting fixture

**"BLANK"** for only normal service versions

**N** for normal + emergency service versions

**E** for only emergency versions

Others particular descriptions (if required)

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### Variation 1

This variation introduced the following modifications:

- i. To introduce a new terminal block type TBEx-...V
- ii. To update and review the product against the latest standard EN IEC 60079-31:2024
- iii. To recognise minor editorial corrections to product descriptions.

### 12 Certificate history and evaluation reports

Issue	Date	Associated report	Notes
0	30 Jun 2022	R14827A/00	Issue of Prime Certification
1	11 Feb 2025	R18226A/00	Issue of Variation 1

Note: Drawings that describe the equipment 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.
- ii. The LifEx series lighting fixtures are to be designed in accordance with general electrical safety standards.
- iii. Each unit of LifEx-PE and LifeEx-PN luminaires shall be subjected to a routine dielectric strength test in accordance with the requirements of EN IEC 60079-7:2015+A1:2018 standard. The test shall be conducted at a voltage of at least  $2U + 1000V$  with a minimum value of 1560V (U = maximum rated voltage of the lamp). There shall be no breakdown or flashover observed as a result of the test.
- iv. Where the removable battery pack is used with phoenix contacts, if used with a T6 version of the equipment, the maximum ambient shall be limited to +40°C.
- v. 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.



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

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

- i. Cable entries are provided which have less than 5 threads engaged. Care must be taken to ensure the correct gaskets and washers are used with the cable gland to maintain IP66.
- ii. The equipment uses an external part that is constructed from non-metallic materials, and as such care is to be taken to prevent an electro-static charging hazard. See instruction manual for details.
- iii. Impact testing was conducted at 4J only, therefore the equipment must only be installed where there is a low risk of impact, in accordance with EN IEC 60079-0:2018 clause 26.4.

## Certificate Annex

**Certificate Number** CML 22UKEX3076X Issue 1  
**Equipment** LifEx-PE, LifEx-PN and LifEx-PT series of linear lighting fixtures  
**Manufacturer** Cortem S.p.A.



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

### Issue 0

Drawing No	Sheets	Rev	Approved Date	Title
A3-7714	1 of 6	0	30 Jun 2022	LifEx-PE lighting fixtures Assembly and External Dimensions
A3-7714	2 of 6	0	30 Jun 2022	LifEx-PN & LifEx-PT Lighting fixtures Assembly and External Dimensions
A3-7714	3 of 6	0	30 Jun 2022	Construction, earthing and IP protection details Assembly
A3-7714	4 of 6	0	30 Jun 2022	LifEx-P...N & LifEx-P...E Lighting Fixtures Assembly
A3-7714	5 of 6	0	30 Jun 2022	Battery Box details Assembly
A3-7714	6 of 6	0	30 Jun 2022	Example of accessories Assembly
A4-7713	1 to 7	0	30 Jun 2022	Technical Note

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Drawing No	Sheets	Rev	Approved Date	Title
A3-7714	1 of 6	1	11 Feb 2025	LifEx-PE lighting fixtures Assembly and External Dimensions
A3-7714	2 of 6	1	11 Feb 2025	LifEx-PN & LifEx-PT Lighting fixtures Assembly and External Dimensions
A3-7714	3 of 6	1	11 Feb 2025	Construction, earthing and IP protection details Assembly
A3-7714	4 of 6	1	11 Feb 2025	LifEx-P...N & LifEx-P...E Lighting Fixtures Assembly
A3-7714	5 of 6	1	11 Feb 2025	Battery Box details Assembly
A3-7714	6 of 6	1	11 Feb 2025	Example of accessories Assembly
A4-7713	1 to 9	1	11 Feb 2025	Technical Note

