



# IECEX Certificate of Conformity

**INTERNATIONAL ELECTROTECHNICAL COMMISSION**  
**IEC Certification System for Explosive Atmospheres**  
for rules and details of the IECEx Scheme visit [www.iecex.com](http://www.iecex.com)

Certificate No.: **IECEX CML 23.0107X** Page 1 of 3 [Certificate history:](#)

Status: **Current** Issue No: 0

Date of Issue: 2025-11-19

Applicant: **CORTEM S.p.A**  
Via Aquileia 10  
34070 Villesse  
Gorizia  
Italy

Equipment: **Escape Luminaires series EXit-PE and EXit-PN**

Optional accessory:

Type of Protection: **Flameproof "db", Increased safety "eb", Encapsulated "mb", Dust Enclosure "tb", Restricted Breathing "nR"**

Marking: **EXit-PE** **EXit-PN**

Ex db eb mb IIC T.. Gb	Ex nR IIC T... Gc
Ex tb IIIC T... °C Db	Ex tb IIIC T... °C Db
IP66	IP66
Ta = -** °C to +** °C	Ta = -** °C to +**°C

**Refer to Certificate Annex for Temperature Class and Ambient Temperature Range.**

Approved for issue on behalf of the IECEx Certification Body:

**Stelios Roubedakis**

Position:

**Certification Manager**

Signature:  
(for printed version)

Date:  
(for printed version)

2025-11-19

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Certificate issued by:

**Eurofins E&E CML Limited**  
Unit 1, Newport Business Park  
New Port Road  
Ellesmere Port, CH65 4LZ  
United Kingdom





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Via Aquileia 10  
34070 Villesse  
Gorizia  
**Italy**

Manufacturing  
locations: **CORTEM S.p.A**  
Via Aquileia 10  
34070 Villesse  
Gorizia  
**Italy**

This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEX Quality system requirements. This certificate is granted subject to the conditions as set out in IECEX Scheme Rules, IECEX 02 and Operational Documents as amended

## STANDARDS :

The equipment and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards

**IEC 60079-0:2017** Explosive atmospheres - Part 0: Equipment - General requirements  
Edition:7.0

**IEC 60079-1:2014** Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"  
Edition:7.0

**IEC 60079-15:2017** Explosive atmospheres - Part 15: Equipment protection by type of protection "n"  
Edition:5.0

**IEC 60079-18:2017** Explosive atmospheres - Part 18: Protection by encapsulation "m"  
Edition:4.1

**IEC 60079-31:2022** Explosive atmospheres – Part 31: Equipment dust ignition protection by enclosure "t"  
Edition:3.0

**IEC 60079-7:2017** Explosive atmospheres - Part 7: Equipment protection by increased safety "e"  
Edition:5.1

This Certificate **does not** indicate compliance with safety and performance requirements other than those expressly included in the Standards listed above.

## TEST & ASSESSMENT REPORTS:

A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in:

Test Report:

[GB/CML/ExTR25.0175/00](#)

Quality Assessment Report:

[IT/CES/QAR06.0002/19](#)



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Certificate No.: **IECEX CML 23.0107X**

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Date of issue: 2025-11-19

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## **EQUIPMENT:**

Equipment and systems covered by this Certificate are as follows:

The EXit-P are Escape luminaires that are configured for use in both Gas and Dust environments, dependant on the method of explosion protection.

There are 2 versions:

<b>Version</b>	<b>Gas</b>	<b>Dust</b>
EXit-PE	Gb and Gc	Db and Dc
EXit-PN	Gc	Db and Dc

**Refer to Certificate Annex for full Product Description and Conditions of Manufacture.**

**SPECIFIC CONDITIONS OF USE: YES as shown below:**

**Refer to Certificate Annex**

## **Annex:**

[Certificate Annex IECEX CML 23.0107X Issue 0.pdf](#)

**Annexe to:** IECEx CML 23.0107X, Issue 0  
**Apparatus:** Escape luminaires series EXit-PE & EXit-PN  
**Applicant:** Cortem S.p.A.



## Description

The EXit-P are Escape luminaires that are configured for use in both Gas and Dust environments, dependant on the method of explosion protection. There are 2 versions:

Version		Gas	Dust
EXit-	PE	Gb and Gc	Db and Dc
EXit-	PN	Gc	Db and Dc

The enclosure is constructed using polycarbonate material for the body and the normal and backlit cover.

### EXit-PE

The version EXit-PE, protected by the types of protection “Ex db eb mb/Ex tb”, contains a certified LED driver (db or mb), an encapsulated LED board (mb) and certified terminals (eb) that provide connection facilities for the electrical input and feedthrough power connections.

### EXit-PN

The version EXit-PN, protected by the types of protection “Ex nR/Ex tb”, contains a LED driver, a LED Printed Circuit Board (PCB) and terminals that provide connection facilities for the electrical input and feedthrough power connections.

## Design Options

Every configuration is available in power ratings up to a maximum of 15W of nominal power.

The EXit-P\* luminaires can be used in only normal service, in only emergency service (version EXit-P\*-03\*\*E or EXit-P\*-03\*\*EH) or in normal and emergency service (version EXit-P\*-03\*\*N or EXit-P\*-03\*\*NH).

In emergency version, the enclosure contains:

- An encapsulated emergency module “Ex mb” type EIM-30L (for the Gb/Db version) or “Ex db” type EIL4040 (for the Gb/Db version) or a non-encapsulated type INVERTER/LED/... (for the Gc/Db version).
- A battery pack with a capacity ranging from 1.8Ah to 11Ah.
- An indicator light covered by a separate Ex Component certificate to show the battery charge status.
- For ambient temperature lower than -20°C: battery heater G-0698 which is suitable for temperature down to -60°C.

The luminaires could be provided with optional:

- breather/drain valve type ECDE,
- Proximity switch series M-0530 or series 83130 or series HL0101
- Connectors covered by separate Ex Equipment certificates.
- Cable glands and/or plugs covered by separate Ex Equipment certificates.

The enclosure has an environmental ingress protection level of IP 66.



Certificate Annex IECEx  
Version: 12.0 Approval: Approved



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## Nomenclature

**EXit-P** ..... **03...** ... ..  
 (1) (2) (3) (4) (5)

### Where

- (1) = Exit-P Light Fixture
- (2) = Version of Light Fixture
  - E = Cat 2, Zone 1 21 : Ex- db eb mb / Ex tb
  - N = Cat 3, Zone 2 – Cat 2, Zone 21: Ex nR / Ex tb
- (3) = Power
  - 08 = Nominal Wattage 8W
  - 15 = Nominal Wattage 15W
- (4) = Service
  - BLANK = only normal service versions
  - N = Normal and emergency service versions
  - E = Only emergency versions
  - NH = Normal and emergency service versions with heater for Tamb=-60°C
  - EH = Only emergency versions with heater for Tamb=-60°C
- (5) Other (no effect on certification)

## Ratings

Type	Size	Nominal Wattage	Nominal Voltage(*)	Frequency
EXit-P...	0308	8 W	12, 24, 42, 48, 100-277 VAC/DC	0/50-60 Hz
	0315	15 W		

## Temperature Class and Maximum Surface Temperature

- Version EXit-PE for EPL Gb and Db

Ambient Temperature	Temperature Class (EPL Gb)					Maximum Surface Temperature °C (EPL Db)				
	40°C	50°C	54°C	55°C	60°C	40°C	50°C	54°C	55°C	60°C
Light Fixture										
EXit-PE-0308..	T6	T6	T6	T6	T5	42°C	52°C	56°C	57°C	62°C
EXit-PE-0315..	T5	T5	T5	T4	T4	43°C	53°C	57°C	58°C	63°C

- Version EXit-PN for EPL Gc and Db

Ambient Temperature	Temperature Class (EPL Gc)				Maximum Surface Temperature °C (EPL Db)			
	40°C	50°C	55°C	60°C	40°C	50°C	55°C	60°C
Light Fixture								
EXit-PN-0308..	T6	T6	T6	T6	42°C	52°C	57°C	62°C
EXit-PN-0315..	T6	T5	T5	T5	43°C	53°C	58°C	63°C



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### Ambient Temperature

Light Fixture	Minimum Ambient temperature	Maximum Ambient temperature
EXit-P*-0308 EXit-P*-0315	-60°C	+60°C (*)
EXit-P*-0308N EXit-P*-0308E	-20°C	+60°C (*)
EXit-P*-0315N EXit-P*-0315E	-20°C	+57°C
EXit-P*-0308NH EXit-P*-0308EH	-60°C	+60°C (*)
EXit-P*-0315NH EXit-P*-0315EH	-60°C	+57°C

(\*) : The maximum ambient temperature shall be reduced at +57°C when proximity switches are used inside the luminaire.

### Ex Component approved parts

Part Type	Manufacturer	Model/Type	Certificate No.	Ex Marking	Standard(s) and date(s)/edition(s)
Terminals	Cabur SRL	BPL4- TPL4	IECEX CES 11.0008U	Ex eb IIC Gb	IEC 60079-0:2011 IEC 60079-7:2015
Terminals	Cortem S.p.A.	TBEx	IECEX FIDI 23.0003U	Ex eb IIC Gb	IEC 60079-0:2017 IEC 60079-7:2017
Ballast/ drivers enclosures	Cortem S.p.A.	EBL3040 – EBL4040	IECEX CML 17.0061U	Ex db IIC Gb	IEC 60079-0:2011 IEC 60079-1:2014
LED drivers and Emergency module	Cortem S.p.A.	EBM series EIM series	IECEX CML 21.0130U	Ex mb IIC Gb	IEC 60079-0:2017 IEC 60079-18:2017
Signalling LED	Cortem S.p.A	M-0487 or M-0612 series	IECEX CES 11.0030U	Ex db IIC Gb Ex db eb IIC Gb Ex tb IIIC Db IP66	IEC 60079-0:2011 IEC 60079-1:2014 IEC 60079-7:2015 IEC 60079-31:2013
Contact blocks	Cortem S.p.A	M-0530	IECEX CES 11.0031U	Ex d e IIC Gb	IEC 60079-0:2007 IEC 60079-1:2007 IEC 60079-7:2006
Proximity switch	Crouzet	831391	IECEX LCIE 13.0035U	Ex db IIC Gb	IEC 60079-0:2017 IEC 60079-1:2014
Proximity switch	Helon Explosion-proof Electric	HL0101 series	IECEX CNEX 17.0015U	Ex db eb IIC Gb	IEC 60079-0:2017 IEC 60079-1:2014 IEC 60079-7:2017



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### Ex Equipment approved parts

Part Type	Manufacturer	Model/Type	Certificate No.	Ex Marking String
Breather/drain Plugs	Cortem S.p.A	ECDE*	IECEX CML 16.0124X	Ex eb IIC Gb Ex tb IIIC Db

### 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 manufacturer shall ensure that all Ex-Components are installed in accordance with their Schedule of Limitations and manufacturer's instructions, including but not limited to, the creepage and clearance requirements of IEC 60079-7 and wiring size and termination method and that the equipment markings are within the service temperature range and ratings of all the Ex-Components.
- iii. The Manufacturer shall provide copies of certificates and instructions for all certified components installed in the EXit-P Series.
- iv. The following temperature restrictions shall be considered when installing separately certified Ex-Components:
  - When BPL4 TPL4 (CABUR) Terminals are installed, the lower ambient range must not exceed -40°C.
  - When Contact blocks type M-0530 and M-0531 are installed, the lower ambient range must not exceed -40°C.
  - When optional Proximity Switch – Type 831391 is installed, the lower ambient range must not exceed -40°C.
  - When Optional proximity switch type HL0101A is installed, the lower ambient range must not exceed -40°C.
- v. The manufacturer shall ensure that the LED Driver maximum output current is restricted to the limits specified in the manufacturer's documentation for the nominal power and fixture type.
- vi. In accordance with IEC 60079-18 Clause 9.2 and IEC 60079-7 Clause 7.1, the routine dielectric strength test on the luminaires with EPL Gb with applied voltage shall be performed at a voltage of at least 1560 V between each circuit and earthed metal parts for at least 1 min. There shall be no breakdown or flashover observed as a result of the test.
- vii. For the luminaires with EPL Gb, a routine visual inspection of the encapsulated parts is required, as per Clause 9.1 of IEC 60079-18. There shall be no visible damage or deformation to the encapsulant.



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- viii. A visual inspection of the surface of the enclosure is required, where the ECD-\* Breather/Drain plugs shall be installed, to ensure that it is in good condition. When the ECD-\* Breather/Drain Plugs are intended for use as a drain, they must be installed at the bottom of the enclosure.
- ix. For luminaires marked with Ex nR (EPL Gc):  
Each unit shall be subjected to a routine dielectric strength test in accordance with the requirements of IEC 60079-15:2017, Clause 6.2. The test shall be conducted at a voltage of at least 1560 V for at least 1 min. There shall be no breakdown or flashover observed as a result of the test.
- x. For luminaires marked with Ex nR (EPL Gc):  
As the equipment has successfully passed the type test in accordance with clause 11.3.2.1.1 of IEC 60079-15:2017, the routine individual test may be omitted provided that the manufacturer implements quality control measures to ensure that the equipment meets or exceeds the test values when installed. Otherwise, the routine test according to clause 12.2.2.1.1 of IEC 60079-15:2017 shall be conducted.

### Specific Conditions of Use

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

- i. The equipment uses an external part that is constructed from non-metallic materials, and as such, care shall be taken to prevent an electro-static charging hazard. See instruction manual for details.
- ii. Use suitably certified cable glands with an IP Protection of IP 66 and an applicable method explosion protection applicable with the equipment markings. Suitably rated cable and cable glands must be used as per Safety, maintenance, and mounting instructions.
- iii. For luminaires incorporating ballast/inverter enclosures EBL3040 and EBL4040, the flameproof joints of the enclosures are not intended to be repaired.
- iv. For luminaires incorporating proximity switch type HL0101A, the modules are not intended to be repaired in any way.
- v. The equipment shall be installed in a location that satisfies the requirement for a Low Risk of Mechanical Danger.
- vi. For inspection and replacement of seals and gaskets – consult the manufacturer.
- vii. For details of restrictive breathing enclosure (nR) tests – see manufacturer’s instructions.



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### Components used which are covered by Ex Certificates issued to older editions of Standards

Certificate number	Standards (incl. Ed)	Assessment result
IECEX CES 11.0008U	IEC 60079-0:2011 Ed. 6.0 IEC 60079-7:2015 Ed. 5.0	Technical differences evaluated and found satisfactory. For detail see ExTR
IECEX CML 17.0061U	IEC 60079-0:2011 Ed. 6.0 IEC 60079-1:2014 Ed. 7.0	Technical differences evaluated and found satisfactory. For detail see ExTR
IECEX CES 11.0030U	IEC 60079-0:2011 Ed. 6.0 IEC 60079-1:2014 Ed. 7.0 IEC 60079-7:2015 Ed. 5.0 IEC 60079-31:2013 Ed. 2.0	Technical differences evaluated and found satisfactory. For detail see ExTR
IECEX CES 11.0031U	IEC 60079-0:2007 Ed. 5.0 IEC 60079-1:2007 Ed. 7.0 IEC 60079-7:2006 Ed. 4.0	Technical differences evaluated and found satisfactory. For detail see ExTR



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