EU Type Examination Certificate CML 23ATEX1287X Issue 0

1 Equipment intended for use in Potentially Explosive Atmospheres Directive 2014/34/EU

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

3 Manufacturer **Cortem S.p.A**

4 Address **Via Aquileia 10,**
34070 Villesse,
Gorizia, Italy

5 The equipment is specified in the description of this certificate and the documents to which it refers.

6 Eurofins CML B.V., Chamber of Commerce No 67386717, Koopvaardijweg 32, 4906CV Oosterhout, The Netherlands, Notified Body Number 2776, 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.

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 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 IEC 60079-0:2018	EN 60079-1:2014	EN IEC 60079-7:2015+A1:2018
EN IEC 60079-18:2015+A1:2017	EN IEC 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. The assessment is included in the flexible scope assessment document.**

10 The equipment shall be marked with the following:

Gas Marking (Only for EXit-PE version):

Ex II 2 G

Ex db eb mb IIC T... Gb

IP66

Ta = -** °C to +** °C

Dust Marking (EXit-PE and EXit-PN versions):

Ex II 2 D

Ex tb IIIC T...°C Db

IP66

Ta = -** °C to +**°C

Refer to Product Description for Temperature Class and Ambient Temperature Range.

S. Roumbedakis
Certification Manager

11 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.

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**

	Temperature Class (EPL Gb)					Maximum Surface Temperature °C (EPL Db)				
Ambient Temperature	**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**

	Temperature Class (EPL Gc)				Maximum Surface Temperature °C (EPL Db)			
Ambient Temperature	**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

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	CESI 03 ATEX 164U	Ex eb IIC Gb	EN 60079-0: 2012+A11 :2013 EN 60079-7:2015
Terminals	Cortem S.p.A.	TBEx	FIDI 23 ATEX 0053U	Ex eb IIC Gb	EN IEC 60079-0:2018 EN 60079-7:2015/A1:2018
Ballast/ drivers enclosures	Cortem S.p.A.	BL3040 – EBL4040	CML 17 ATEX 1131U	Ex db IIC Gb	EN 60079-0: 2012+A11 :2013 EN 60079-1:2014
LED drivers and Emergency module	Cortem S.p.A.	EBM series EIM series	CML 21 ATEX 51156U	Ex mb IIC Gb	EN IEC 60079-0:2018 EN 60079-18:2015+A1:2017
Signalling LED	Cortem S.p.A	M-0487 or M-0612 series	CES 00 ATEX 060U	Ex db IIC Gb Ex db eb IIC Gb Ex tb IIIC Db IP66	EN 60079-0 :2012+A11:2013 EN 60079-1:2014 EN 60079-7:2015 EN 60079-31:2014
Contact blocks	Cortem S.p.A	M-0530	CESI 09 ATEX 016U	Ex d e IIC Gb	EN 60079-0 :2012 EN 60079-1 :2007 EN 60079-7 :2007
Proximity switch	Crouzet	831391	LCIE 02 ATEX 0034U	Ex db IIC Gb	EN IEC 60079-0:2018 EN 60079-1:2014
Proximity switch	Helon Explosion-proof Electric	HL0101 series	CNEX 17 ATEX 0007U	Ex db eb IIC Gb	EN IEC 60079-0:2018 EN 60079-1:2014 EN 60079-7:2015/A1:2018

Ex Equipment approved parts

Part Type	Manufacturer	Model/Type	Certificate No.	Ex Marking
Breather/drain Plugs	Cortem S.p.A	ECDE*	CML 16ATEX1351X	Ex eb IIC Gb Ex tb IIIC Db

12 Certificate history and evaluation reports

Issue	Date	Associated Report	Notes
0	19 Nov 2025	R16386A/00	Issue of Prime Certification.

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.

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 EN 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-0531are 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 EN IEC 60079-18 Clause 9.2 and EN 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 EN IEC 60079-18. There shall be no visible damage or deformation to the encapsulant.

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.

14 Specific Conditions of Use (Special Conditions)

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.

Certificate Annex

Certificate Number	**CML 23ATEX1287X**
Equipment	**Escape luminaires series EXit-PE and EXit-PN**
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
A4-8262	1 to 8	0	19 Nov 2025	Technical Note
A3-8260	1 of 5	0	19 Nov 2025	Exit-P Lighting Fixtures External Dimensions
	2 of 5	0	19 Nov 2025	Exit-P Lighting Fixtures External Dimensions
	3 of 5	0	19 Nov 2025	Exit-PE Lighting Fixtures Encapsulation Details
	4 of 5	0	19 Nov 2025	Construction and IP Protection Details Assembly
	5 of 5	0	19 Nov 2025	Example of Accessories Assembly
A3-7466	1 to 1	2	19 Nov 2025	LifEx-M Luminaires Detail of Battery Pack