EU Type Examination Certificate CML 17ATEX1249X Issue 2

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

2 Equipment **Z086, Z136 and Z0264 Series Explosion-proof (Emergency) LED Linear Light Fittings**

3 Manufacturer **Index Elektro B.V.**

4 Address Harregatplein 15
3214VP
Zuidland
The Netherlands

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

6 CML B.V., Chamber of Commerce No 6738671, 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 60079-0:2018	EN 60079-1:2014*	EN 60079-5:2015
EN IEC 60079-7:2015+A1:2018	EN IEC 60079-18:2015+A1:2017	EN 60079-31:2014

10 The equipment shall be marked with the following:

II 2 G D

Ex db eb mb q IIC T6/T5/T4 Gb
Ex tb IIIC T80°C Db

Ta = -25°C to +40°C/+50°C/+55°C

Refer to description for complete marking.

11 Description

The Z086 Series, Z136 Series and Z0264 Series Explosion-proof (Emergency) LED Linear Light Fittings are designed for fixed location hazardous areas and rated at 100V to 250V AC/DC unless otherwise stated below. They are installed to run from cabled power supplies but also include the option for emergency batteries.

The enclosures are IP66 rated and incorporate the use of the Explosion-proof LED Light Modules Z1618/11-LED__W_ and Z1618/11B-LED__W_, the Explosion-proof LED Power Modules Z1618/57-_x LED__W and Z1618/57B-LED__W, the Explosion-proof LED Inverter Modules Z1618/58-_x LED__W and Z1618/58B-LED__W which are certified under CML 16 ATEX 3341U and IECEx CML 16.0115U, the MU025HyAQ_MB/z LED driver certified under IECEx TPS 21.0008U, and the MU060HyAQ_MB/z LED driver certified under IECEx TPS 21.0011U.

There are also options for the inclusion of Z0819 Series Explosion-proof battery module, the Z0207 series Explosion-proof isolation switch module which is certified under IECEx CQM 15.0034U, the Z0804 series explosion-proof fuse module which is certified under IECEx CQM 11.0009U, and the Z0212 Signal lamp and button module certified under IECEx CML 19.0054U.

The models are marked and are rated as below:

Z086 Series

Type	Gasket type	Gas Classification	Ambient temperature range	Dust Classification	Rating
Z086x Standard without switch	Silicone rubber	Ex eb mb q IIC T5/T4 Gb	-25°C≤Ta≤+40°C/+55°C	Ex tb IIIC T80°C Db	AC100-250V 50/60Hz
	Polyurethane	Ex eb mb q IIC T5 Gb	-25°C≤Ta≤+40°C		
Z086x Standard with switch	Silicone rubber	Ex db eb mb q IIC T5/T4 Gb	-25°C≤Ta≤+40°C/+55°C		
	Polyurethane	Ex db eb mb q IIC T5 Gb	-25°C≤Ta≤+40°C		
Z0865 Emergency	Silicone rubber	Ex db eb mb q IIC T4 Gb	-25°C≤Ta≤+50°C		
	Polyurethane		-25°C≤Ta≤+40°C		
Z0866 Emergency	Silicone rubber	Ex db eb mb q IIC T4 Gb	-25°C≤Ta≤+55°C		
	Polyurethane		-25°C≤Ta≤+40°C		

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- **Z136x Series**

Type	Gas Classification	Ambient temperature range	Dust Classification	Rating
All models	Ex db eb mb q IIC T6 Gb	-25°C≤Ta≤+40°C	Ex tb IIIC T80°C Db	AC/DC100-250V 50/60Hz
	Ex db eb mb q IIC T5 Gb	-25°C≤Ta≤+55°C		

- **Z0264 Series**

Type	Gasket type	Gas Classification	Ambient temperature range	Dust Classification	Rating
All models	Silicone rubber	Ex db eb mb q IIC T5 Gb	-40°C≤Ta≤+55°C	Ex tb IIIC T80°C Db	AC/DC100-250V 50/60Hz
		Ex db eb mb q IIC T6 Gb	-40°C≤Ta≤+40°C		
	Polyurethane	Ex db eb mb q IIC T6 Gb	-40°C≤Ta≤+40°C		

- **Z186 Series**

Type	Gasket type	Gas Classification	Ambient temperature range	Rating	Dust Classification
Z1865 Standard with Z1618/57B driver	Silicone rubber	Ex db eb mb q IIC T5 Gb	-40°C≤Ta≤+55°C	AC/DC100-250V 50/60Hz	Ex tb IIIC T80°C Db
		Ex db eb mb q IIC T6 Gb	-40°C≤Ta≤+40°C		
	Polyurethane	Ex db eb mb q IIC T6 Gb	-40°C≤Ta≤+40°C		
Z1865 Emergency	Silicone rubber	Ex db eb mb q IIC T4 Gb	-40°C≤Ta≤+55°C		
		Ex db eb mb q IIC T5 Gb	-40°C≤Ta≤+40°C		
	Polyurethane	Ex db eb mb q IIC T5 Gb	-40°C≤Ta≤+40°C		
Z1866 Standard with Z1618/57B driver and Emergency	Silicone rubber	Ex db eb mb q IIC T4 Gb	-40°C≤Ta≤+55°C		
		Ex db eb mb q IIC T5 Gb	-40°C≤Ta≤+40°C		
	Polyurethane	Ex db eb mb q IIC T5 Gb	-40°C≤Ta≤+40°C		
Z1866 Emergency	Silicone rubber	Ex db eb mb q IIC T4 Gb	-40°C≤Ta≤+55°C		
		Ex db eb mb q IIC T5 Gb	-40°C≤Ta≤+40°C		
	Polyurethane	Ex db eb mb q IIC T5 Gb	-40°C≤Ta≤+40°C		
Z1865 Standard with MU025xx driver	Silicone rubber	Ex db eb mb IIC T5 Gb	-40°C≤Ta≤+55°C	AC100-250V 50/60Hz DC 125-250V	
		Ex db eb mb IIC T6 Gb	-40°C≤Ta≤+40°C		
	Polyurethane	Ex db eb mb IIC T6 Gb	-40°C≤Ta≤+40°C		
Z1866 Standard with MU060xx driver	Silicone rubber	Ex db eb mb IIC T5 Gb	-40°C≤Ta≤+55°C		
		Ex db eb mb IIC T6 Gb	-40°C≤Ta≤+40°C		
	Polyurethane	Ex db eb mb IIC T6 Gb	-40°C≤Ta≤+40°C		

Variation 1:

This variation introduced the following modifications:

i. The introduction of the Z0264 range.

ii. Clarification of the marking options available to the ranges covered.

iii. Amending of the product description and a specific condition of use, to account for the above modifications.

iv. Recognition of the previous transfer from CML UK to CML B.V., on the certificate.

Variation 2:

This variation introduced the following modifications to the trade agent certification:

i. The introduction of an alternative power module and LED light source in the Z136 model
ii. Changes to the operating temperature range of the Z0264 model
iii. The introduction of an alternative power module and LED light source in the Z0264 model
iv. The use of alternative enclosure materials in the Z0264 model
v. The introduction of new LED luminaire type Z186
vi. The removal of “op is” marking from all models, and removal of IEC/ EN 60079-28 from the certificates.
vii. Update of standards IEC/EN IEC 60079-0, IEC/EN IEC 60079-7 & IEC/EN IEC 60079-18.

12 Certificate history and evaluation reports

Issue	Date	Associated report	Notes
0	29 Sep 2017	R11354A/00	Issue of prime certificate
1	14 Jun 2021	R13951B/00	Introduction of Variation 1
2	05 Jul 2023	R16539A/00	Introduction of Variation 2

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 equipment 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. A copy of the certification and/or instructions for the parts shall be provided as part of the luminaire document pack.

ii. Each unit manufactured shall be subjected to an electric strength test in accordance with EN 60079-7:2015 clause 7.1. It shall be carried out at 1,000 V + 2U for 60 seconds or at 1.2 times this test voltage for at least 100 ms.

14 Specific Conditions of Use (Special Conditions)

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

i. Due to the risk of static hazards of the Z086 Series, Z0264, and Z186 Series Luminaire Ranges, the equipment in these ranges shall only be cleaned with a damp cloth.

ii. Z186 models incorporating MU025xx or MU060xx drivers shall only be connected to an electrical power supply which is fitted with a protective device which limits the current to a maximum of 10A.

iii. The cable entries shall be made via suitably certified cable glands providing an ingress protection of IP66. Any unused entries shall be closed with suitably certified blanking plugs providing a degree of protection of IP66.

iv. Z186 models contain a flameproof switch. The dimensions of the flameproof joints differ from those of EN/IEC 60079-1 Table 2 and therefore shall not be repaired.

v. The power and inverter modules fitted inside the luminaire enclosure are supplied permanently sealed and therefore no attempt must be made to open or repair them.

Certificate Annex

Certificate Number

Equipment

Manufacturer

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

Issue 0

Drawing No	Sheets	Rev	Approved date	Title
8Z0865.015.000	1 of 1	-	29 Sep 2017	Type - Z0865 - Labels
8Z0866.015.000	1 of 1	-	29 Sep 2017	Type - Z0866 - Labels
8Z1361.015.000	1 of 1	-	29 Sep 2017	Type - Z.1361 - Labels
8Z1362.015.000	1 of 1	-	29 Sep 2017	Type - Z.1362 - Labels

Issue 1

Drawing No	Sheets	Rev	Approved date	Title
8Z0264.015.001	1 of 1	0	11 Jun 2021	Type – Z0264/1 – Labels
8Z0865.015.000	1 of 1	3	11 Jun 2021	Type – Z0865 – Labels
8Z0866.015.000	1 of 1	3	11 Jun 2021	Type – Z0866 – Labels
8Z1361.015.000	1 of 1	2	11 Jun 2021	Type – Z.1361 – Labels
8Z1362.015.000	1 of 1	2	11 Jun 2021	Type – Z.1362 – Labels

Issue 2

Drawing No	Sheets	Rev	Approved date	Title
8Z0865.015.000	1 of 1	3	05 Jul 2023	Type – Z0865 – Labels
8Z0866.015.000	1 of 1	3	05 Jul 2023	Type – Z0866 – Labels