

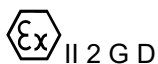


## EU Type Examination Certificate CML 17ATEX1249X Issue 0

- 1 Equipment intended for use in Potentially Explosive Atmospheres Directive 2014/34/EU
- 2 Equipment **Z086 Series & Z136 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 Certification Management Limited, Unit 1 Newport Business Park, New Port Road, Ellesmere Port CH65 4LZ, UK, Notified Body Number 2503, 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 60079-0:2012+A11:2013, Corr3	EN 60079-1:2014*	EN 60079-5:2015
EN 60079-7:2015	EN 60079-18:2014	EN 60079-28:2015
EN 60079-31:2014		

  
\*When the distance switch is not fitted, the equipment is not considered to be flameproof.
- 10 The equipment shall be marked with the following:



II 2 G D

Ex eb mb op is q IIC T5/T4 Gb

Ex tb op is IIIC T80°C Db

Ta = Up to -25°C ≤ Ta ≤ +55°C

Refer to description for complete marking.

*A Snowden*



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## 11 Description

The Z086 Series and Z136 Series Explosion-proof (Emergency) LED Linear Light Fittings are designed for fixed location hazardous areas and rated at 100 V to 250 V ac. 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 Module Z1618/11-LED\_\_W\_, the Explosion-proof LED Power Module Z1618/57-\_x LED\_\_W, and the Explosion-proof LED Inverter Module Z1618/58-\_x LED\_\_W which are approved under CML 17ATEX 3247U.

There are also options for the CZ0819 Series Explosion-proof battery module, the CZ0207 series Explosion-proof isolation switch module which is certified under IECEx CQM 15.0034U and the CZ0804 series explosion-proof fuse module which is certified under IECEx CQM 11.0009U.

The models are marked as below:

### Z086 Series

Ex eb mb op is q IIC T5/T4 Gb	(standard without isolation switch)
Ex db eb mb op is q IIC T5/T4 Gb	(standard with isolation switch)
Ex eb mb op is q IIC T4 Gb	(emergency without isolation switch)
Ex db eb mb op is q IIC T4 Gb	(emergency with isolation switch)
Ex tb op is IIIC T80°C Db	

The T Class for the standard versions is dependant on the ambient:

T5 at  $-25^{\circ}\text{C} \leq T_a \leq +40^{\circ}\text{C}$

T4 at  $-25^{\circ}\text{C} \leq T_a \leq +55^{\circ}\text{C}$

Ambient for standard versions

$-25^{\circ}\text{C} \leq T_a \leq +40^{\circ}\text{C}$

$-25^{\circ}\text{C} \leq T_a \leq +55^{\circ}\text{C}$

Ambient for emergency version

$-25^{\circ}\text{C} \leq T_a \leq +40^{\circ}\text{C}$

### Z136 Series

Ex db eb mb op is q IIC T5/T4 Gb	(standard)
Ex db eb mb op is q IIC T4 Gb	(emergency)
Ex tb op is IIIC T80°C Db	

The T Class for the standard versions is dependant on the ambient:

T5 at  $-25^{\circ}\text{C} \leq T_a \leq +40^{\circ}\text{C}$

T4 at  $-25^{\circ}\text{C} \leq T_a \leq +55^{\circ}\text{C}$



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Ambient for standard versions

$-25^{\circ}\text{C} \leq T_a \leq +40^{\circ}\text{C}$   
 $-25^{\circ}\text{C} \leq T_a \leq +55^{\circ}\text{C}$

Ambient for emergency version

$-25^{\circ}\text{C} \leq T_a \leq +40^{\circ}\text{C}$

## 12 Certificate history and evaluation reports

Issue	Date	Associated report	Notes
0	29 Sep 2017	R11354A/00	Issue of prime certificate.

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 component 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  $1,000\text{ V} + 2\text{U}$  for 60 s or at 1.2 times this test voltage for at least 100 ms.

## 14 Special Conditions for Safe Use (Conditions of Certification)

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 Luminaire Range, the equipment shall only be cleaned with a damp cloth.
- ii. The CZ1618 LED, Power, Inverter and fuse 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** CML 17ATEX1249X  
**Equipment** Z086 Series & Z136 Series Explosion-proof (Emergency)  
LED Linear Light Fittings  
**Manufacturer** Index Elektro B.V.

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