



EC Type Examination Certificate CML 15ATEX1190X Issue 0

- 1 Equipment intended for use in Potentially Explosive Atmospheres Directive 94/9/EC
- 2 Equipment Explosion-proof Light Fittings, Z087* Series
- 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 9 of Directive 94/9/EC, 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 EC Type Examination certificate relates only to the design and construction of the specified equipment or component. Further requirements of Directive 94/9/EC Article 8 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 EN 60079-1:2007 EN 60079-7:2007 EN 60079-31:2009
- 10 The equipment shall be marked with the following:



II 2 G D

Ex d e IIC T* Gb

Ex tb IIIC T* Db

Ta= -20°C to +40°C/+55°C**

-40°C to +40°C/+55°C**

* Temperature class and assigned maximum surface temperature depend on the model; refer to Description, Section 11

** The maximum ambient temperature depends on the model and the temperature class assigned; refer to Description, Section 11

M D Shearman FInstMC
Managing Director



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11 Description

This certificate covers the following luminaire types:

Z0871/2*-**W, Z0872/2*-**W, Z0873/2*-**W, Z0874/2*-**W, Z0873/1*-**W, Z0874/1*-**W

The luminaires have a cast aluminium alloy flameproof body and increased safety terminal box. There is a threaded flameproof bushing which allows for connections to be made between the two compartments.

The lamp housing is formed by die-casting moulding and has an epoxy resin powder coating on the surface. The lens is made of tempered glass and is sealed by a cemented joint. The junction box is located on the side of the lamp body, has built-in component approved cage wiring terminals (Ex e IIC Gb) which are easily accessible for wiring, and cable entries for fitting of suitable entry devices.

The part number coding structure is shown below (refer to Table 2 for a list of all models):

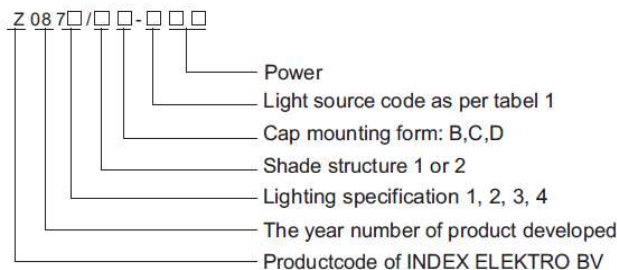


Table 1 (Light Source Code):

J – Metal halide lamps	N – High pressure sodium lamp	G – High pressure mercury lamps
B – incandescent lamps	JN – Compact fluorescent	LED – LED lamps
JD – Warning lamps	TD – LED warning tower	ZDL – LED Aviation Obstruction lamps
QL – Induction lamps	Z – self ballasted mercury lamps	ZDB – Xenon strobe pulse aviation obstruction lamps

Table 2 (model number, rating and temperature class):

No.	Model Number	Rated Voltage	Maximum ambient temperature/ Temperature class*	
			Ta≤40°C	Ta≤55°C
1	Z0871/2B-JN45W	220~240V AC 50/60 Hz	T6	/
2	Z0871/2B-JN65W	220~240V AC 50/60 Hz	T6	/
3	Z0871/2B-QL50W	220~240V AC 50/60 Hz	T6	T5
4	Z0871/2B-QL85W	220~240V AC 50/60 Hz	T6	T5
5	Z0871/2B-B200W	220V AC 50 Hz	T4	/
6	Z0871/2B-B300W	220V AC 50 Hz	T4	/



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No.	Model Number	Rated Voltage	Maximum ambient temperature/ Temperature class*	
			Ta≤40°C	Ta≤55°C
7	Z0871/2B-Z125W	220V AC 50 Hz	T4	/
8	Z0871/2B-Z160W	220V AC 50 Hz	T4	/
9	Z0871/2B-G50W	220V AC, 230V AC, 240V AC, 230V/240V AC, 220V/230V/240V AC 50Hz	T4	T4
10	Z0871/2B-G80W	220V AC, 230V AC, 240V AC, 230V/240V AC, 220V/230V/240V AC 50Hz	T4	T4
11	Z0871/2B-G125W	220V AC, 230V AC, 240V AC, 230V/240V AC, 220V/230V/240V AC 50Hz	T4	T4
12	Z0871/2B-J70W	220V AC, 230V AC, 240V AC, 230V/240V AC, 220V/230V/240V AC 50Hz	T5	T5
13	Z0871/2B-J100W	220V AC, 230V AC, 240V AC, 230V/240V AC, 220V/230V/240V AC 50Hz	T5	T4
14	Z0871/2B-J150W	220V AC, 230V AC, 240V AC, 230V/240V AC, 220V/230V/240V AC 50Hz	T5	T4
15	Z0871/2B-N70W	220V AC, 230V AC, 240V AC, 230V/240V AC, 220V/230V/240V AC 50Hz	T6	T5
16	Z0871/2B-N100W	220V AC, 230V AC, 240V AC, 230V/240V AC, 220V/230V/240V AC 50Hz	T6	T5
17	Z0872/2B-QL135W	220~240V AC 50/60 Hz	T5	T4
18	Z0872/2B-QL165W	220~240V AC 50/60 Hz	T5	T4
19	Z0872/2B-B500W	220V AC 50 Hz	T4	/
20	Z0872/2B-Z500W	220V AC 50 Hz	T3	/
21	Z0872/2B-G400W	220V AC, 230V AC, 240V AC, 230V/240V AC, 220V/230V/240V AC 50Hz	T3	/
22	Z0872/2B-J250W	220V AC, 230V AC, 240V AC, 230V/240V AC, 220V/230V/240V AC 50Hz	T5	T4
23	Z0872/2B-J400W	220V AC, 230V AC, 240V AC, 230V/240V AC, 220V/230V/240V AC 50Hz	T4	/
24	Z0872/2B-N150W	220V AC, 230V AC, 240V AC, 230V/240V AC, 220V/230V/240V AC 50Hz	T4	T4
25	Z0872/2B-N250W	220V AC, 230V AC, 240V AC, 230V/240V AC, 220V/230V/240V AC 50Hz	T5	T4
26	Z0872/2B-N400W	220V AC, 230V AC, 240V AC, 230V/240V AC, 220V/230V/240V AC 50Hz	T4	/
27	Z0873/1B(C,D)-LED30W	100V~240V AC 50/60 Hz	T6	T6
28	Z0873/2 B(C,D)-ZDB	24V AC/DC, 110V AC, 220V AC, 230V AC,	T6	T6



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No.	Model Number	Rated Voltage	Maximum ambient temperature/ Temperature class*	
			Ta≤40°C	Ta≤55°C
		240V AC 50/60 Hz Max 10W		
29	Z0873/2 B(C,D)-ZDL	24V AC/DC, 110V AC, 220V AC, 230V AC, 240V AC 50/60 Hz Max 10W	T6	T6
30	Z0873/2 B(C,D)-JD	24V AC/DC, 110V AC, 220V AC, 230V AC, 240V AC 50/60 Hz Max 10W	T6	T6
31	Z0873/2 B(C,D)-TD	24V AC/DC, 110V AC, 220V AC, 230V AC, 240V AC 50/60 Hz Max 10W	T6	T6
32	Z0873/2 B(C,D)-LED25W	100V~240V AC 50/60 Hz	T6	T6
33	Z0873/2 B(C,D)-QL50W	220~240V AC 50/60 Hz	T6	T6
34	Z0873/2 B(C,D)-JN45W	220~240V AC 50/60 Hz	T6	/
35	Z0873/2 B(C,D)-JN65W	220~240V AC 50/60 Hz	T6	/
36	Z0873/2 B(C,D)-J70W	220V AC, 230V AC, 240V AC, 230V/240V AC, 220V/230V/240V AC 50Hz	T6	T5
37	Z0873/2 B(C,D)-J100W	220V AC, 230V AC, 240V AC, 230V/240V AC, 220V/230V/240V AC 50Hz	T4	T4
38	Z0873/2 B(C,D)-J150W	220V AC, 230V AC, 240V AC, 230V/240V AC, 220V/230V/240V AC 50Hz	T4	T4
39	Z0873/2 B(C,D)-N70W	220V AC, 230V AC, 240V AC, 230V/240V AC, 220V/230V/240V AC 50Hz	T5	T4
40	Z0873/2 B(C,D)-N100W	220V AC, 230V AC, 240V AC, 230V/240V AC, 220V/230V/240V AC 50Hz	T5	T4
41	Z0874/1 B(C,D)-LED45W	100V~240V AC 50/60 Hz	T6	T6
42	Z0874/1 B(C,D)-LED60W	100V~240V AC 50/60 Hz	T6	T6
43	Z0874/2 B(C,D)-J250W	220V AC, 230V AC, 240V AC, 230V/240V AC, 220V/230V/240V AC 50Hz	T4	T4
44	Z0874/2 B(C,D)-N150W	220V AC, 230V AC, 240V AC, 230V/240V AC, 220V/230V/240V AC 50Hz	T4	T4
45	Z0874/2 B(C,D)-N250W	220V AC, 230V AC, 240V AC, 230V/240V AC, 220V/230V/240V AC 50Hz	T4	T4
46	Z0871/2B-G50W	220V AC, 230V AC, 240V AC, 230V/240V AC, 220V/230V/240V AC 60Hz	T4	T4
47	Z0871/2B-G80W	220V AC, 230V AC, 240V AC, 230V/240V AC, 220V/230V/240V AC 60Hz	T4	T4
48	Z0871/2B-G125W	220V AC, 230V AC, 240V AC, 230V/240V	T4	T4



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No.	Model Number	Rated Voltage	Maximum ambient temperature/ Temperature class*	
			Ta≤40°C	Ta≤55°C
		AC, 220V/230V/240V AC 60Hz		
49	Z0871/2B-J70W	220V AC, 230V AC, 240V AC, 230V/240V AC, 220V/230V/240V AC 60Hz	T6	T5
50	Z0871/2B-J100W	220V AC, 230V AC, 240V AC, 230V/240V AC, 220V/230V/240V AC 60Hz	T4	T4
51	Z0871/2B-J150W	220V AC, 230V AC, 240V AC, 230V/240V AC, 220V/230V/240V AC 60Hz	T4	T4
52	Z0871/2B-N70W	220V AC, 230V AC, 240V AC, 230V/240V AC, 220V/230V/240V AC 60Hz	T5	T4
53	Z0871/2B-N100W	220V AC, 230V AC, 240V AC, 230V/240V AC, 220V/230V/240V AC 60Hz	T5	T4
54	Z0872/2B-G250W	220V AC, 230V AC, 240V AC, 230V/240V AC, 220V/230V/240V AC 60Hz	T3	/
55	Z0872/2B-J250W	220V AC, 230V AC, 240V AC, 230V/240V AC, 220V/230V/240V AC 60Hz	T4	T4
56	Z0872/2B-N150W	220V AC, 230V AC, 240V AC, 230V/240V AC, 220V/230V/240V AC 60Hz	T4	T4
57	Z0872/2B-N250W	220V AC, 230V AC, 240V AC, 230V/240V AC, 220V/230V/240V AC 60Hz	T5	T4
58	Z0872/2B-N400W	220V AC, 230V AC, 240V AC, 230V/240V AC, 220V/230V/240V AC 60Hz	T4	/
59	Z0873/2 B(C,D)-J70W	220V AC, 230V AC, 240V AC, 230V/240V AC, 220V/230V/240V AC 60Hz	T6	T5
60	Z0873/2 B(C,D)-J100W	220V AC, 230V AC, 240V AC, 230V/240V AC, 220V/230V/240V AC 60Hz	T4	T4
61	Z0873/2 B(C,D)-J150W	220V AC, 230V AC, 240V AC, 230V/240V AC, 220V/230V/240V AC 60Hz	T4	T4
62	Z0873/2 B(C,D)-N70W	220V AC, 230V AC, 240V AC, 230V/240V AC, 220V/230V/240V AC 60Hz	T5	T4
63	Z0873/2 B(C,D)-N100W	220V AC, 230V AC, 240V AC, 230V/240V AC, 220V/230V/240V AC 60Hz	T5	T4
64	Z0874/2 B(C,D)-J250W	220V AC, 230V AC, 240V AC, 230V/240V AC, 220V/230V/240V AC 60Hz	T4	T4
65	Z0874/2 B(C,D)-N150W	220V AC, 230V AC, 240V AC, 230V/240V AC, 220V/230V/240V AC 60Hz	T4	T4
66	Z0874/2 B(C,D)-N250W	220V AC, 230V AC, 240V AC, 230V/240V AC, 220V/230V/240V AC 60Hz	T4	T4



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* T6, T5 and T4 temperature classes correspond with assigned maximum surface temperatures (for dust approval) T85°C, T100°C and T135°C respectively.

12 Certificate history and evaluation reports

Issue	Date	Associated report	Notes
0	15 Dec 2015	R874/00	Report for the prime certificate issue

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.

- 13.1 The equipment shall be subjected to the required routine verifications tests, in accordance with the associated documentation

14 Special Conditions for Safe Use (Conditions of Certification)

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

- 14.1 The ambient temperature range of the equipment is -20°C to +40°C/+55°C or -40°C to +40°C/+55°C, depending on the model. Refer to Description and marking label.
- 14.2 The earth connection to the equipment shall be verified after installation and it shall be ensured that it is properly connected.
- 14.3 When assembling, operating or maintaining the equipment, the operator shall follow the requirements of EN 60079-14, as well as the Z087* Series Explosion-proof light fitting instruction manual.
- 14.4 Any repair and overhaul shall be in accordance with EN 60079-19.
- 14.5 The equipment shall be used with suitably ATEX certified entry devices which meet the requirements of the types of protection.
- 14.6 The equipment shall not be opened when energised. The equipment shall be allowed to cool down for 15 minutes before opening.

Certificate Annex



Certificate Number CML 15ATEX1190X
Equipment Explosion-proof Light Fittings, Z087* Series
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
IOR15193	1 to 7	1	15 Dec 2015	Label Z0871/Z0872/Z0873 and Z0874



Certificate and File Transfer

This document confirms the transfer of the following referenced certificates and files.

Receiving Notified Body:

CML B.V.,
Hoogoorddreef 15
1101BA,
Amsterdam,
The Netherlands
(Notified Body number 2776)

(Original) Issuing Notified Body:

Certification Management Limited (Eurofins E&E CML Limited)
Newport Business Park,
New Port Road,
Ellesmere Port
CH65 4LZ
United Kingdom
(Notified Body number 2503)

Manufacturer:

Index Elektro B.V.
Harregatplein 15, 3214 VP Zuidland
Netherlands

Certificates transferred

CML 17ATEX3325U

CML 18ATEX1026X

CML 15ATEX1190X

CML 17ATEX1249X

CML 17ATEX3247U

The manufacturer may use this document as evidence of continuity of certification.

Where the certification documentation or markings require updating to reflect the transfer, for example, change to Notified Body number, this is permitted without submission of updated documentation to CML.

The manufacturer shall apply to CML for any other changes to the product design.

Signed

On behalf of

CML B.V.

D R Stubbings MIET

Technical Director

Thursday, 03 October 2019

On behalf of

CML UK

A C Smith

Technical Operations Director

Thursday, 03 October 2019

On behalf of

Index Elektro B.V.

J.W. Weeda

Technical Director

Thursday, 03 October 2019

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