



IECEX Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification Scheme for Explosive Atmospheres

for rules and details of the IECEX Scheme visit www.iecex.com

Certificate No.: **IECEX SIR 12.0093X** issue No.:7

Status: **Current**

Date of Issue: **2016-11-08** Page 1 of 5

Applicant: **Dialight Corporation**
1501 Route 34 South
Farmingdale
New Jersey 07727
United States of America

Certificate history:
Issue No. 7 (2016-11-8)
Issue No. 6 (2015-10-23)
Issue No. 5 (2015-4-7)
Issue No. 4 (2014-5-6)
Issue No. 3 (2013-12-12)
Issue No. 2 (2013-8-28)
Issue No. 1 (2013-6-25)
Issue No. 0 (2013-2-27)

Equipment: **ELA Series LED Linear Luminaire**
Optional accessory:

Type of Protection: **Increased Safety, Encapsulation and Dust by Enclosure**

Marking: Ex e mb IIC T4 Gb
Ex tb IIIC T135°C Db
Ta = -20°C to +60°C

Approved for issue on behalf of the IECEX Certification Body: **A G Boyes**

Position: **Certification Support Officer**

Signature:
(for printed version)

Date:

2016-11-08

1. This certificate and schedule may only be reproduced in full.
2. This certificate is not transferable and remains the property of the issuing body.
3. The Status and authenticity of this certificate may be verified by visiting the [Official IECEX Website](http://www.iecex.com).

Certificate issued by:

SIRA Certification Service
CSA Group
Unit 6, Hawarden Industrial Park
Hawarden, Deeside, CH5 3US
United Kingdom

sira
CERTIFICATION





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Manufacturer: **Dialight Corporation**
1501 Route 34 South
Farmingdale
New Jersey 07727
United States of America

Additional Manufacturing location(s):

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 electrical apparatus 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 : 2011 Edition: 6.0	Explosive atmospheres - Part 0: General requirements
IEC 60079-18 : 2009 Edition: 3	Explosive atmospheres Part 18: Equipment protection by encapsulation "m"
IEC 60079-31 : 2008 Edition: 1	Explosive atmospheres – Part 31: Equipment dust ignition protection by enclosure "t"
IEC 60079-7 : 2006-07 Edition: 4	Explosive atmospheres - Part 7: Equipment protection by increased safety "e"

*This Certificate **does not** indicate compliance with electrical 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/SIR/ExTR13.0052/00
GB/SIR/ExTR13.0345/00
GB/SIR/ExTR15.0287/00

GB/SIR/ExTR13.0183/00
GB/SIR/ExTR14.0109/00
GB/SIR/ExTR16.0197/00

GB/SIR/ExTR13.0239/00
GB/SIR/ExTR15.0105/00

Quality Assessment Report:

GB/SIR/QAR11.0014/04



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Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

The ELA Series LED Linear Luminaires are suitable for fixed installations and are designed for use with an electrical supply of 110 Vac to 250 Vac, 50/60Hz. They comprise an enclosure constructed from stainless steel or steel that has an elliptical cross section. This enclosure is fitted with two end caps that are secured with two, M6 screws; the end caps can have up to two cable entry holes for cable glands that are suitable for the application and ATEX certified by a notified body. There are two sizes of enclosure, a 2 foot version and a 4 foot version, these utilise the following main parts:

- 2 foot version:**
- One, polycarbonate optic
 - A potted assembly of 28 LEDs that may be supplied in any colour
- 4 foot version:**
- Two, polycarbonate optics
 - A potted assembly of 56 LEDs that may be supplied in any colour

Each polycarbonate optic is secured using six, M6 screws and they are sealed with a silicone gasket, thus maintaining the IP54/IP64 ratings (as applicable). All fastening screws are fitted with silicone washers.

The potted assemblies incorporate LEDs that dissipate a maximum of 1.2 W each, these are mounted onto a heat sink along with a potted power supply and one of the following supply terminals:

Manufacturer	Type Ref.	Coded	Certificate Number
Weidmuller	Type BK	Ex e II	Sira 01ATEX3247U IECEX SIR 05.0035U
Weidmuller	Type MK	Ex e II	Sira 01ATEX3249U IECEX SIR 05.0037U
Wago	Type 862	Ex e II	PTB 03ATEX1189U IECEX PTB 05.0003U

SPECIFIC CONDITIONS OF USE: YES as shown below:

1. The ELA Series LED Linear Luminaires shall only be installed in areas of low mechanical impact risk.
2. This equipment may generate an ignition-capable level of electrostatic charge under certain extreme conditions. The user should ensure that the equipment is not installed in a location where it may be subjected to external conditions (such as high-pressure steam) which might cause a build up of electrostatic charge on non-conducting surfaces. Additionally, cleaning of the equipment should be done only with a damp cloth.



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EQUIPMENT(continued):

It is recognised that, in addition to the IP 64 requirements needed to comply with the certifying standards, the ELA Series LED Linear Luminaires and Emergency variants have been independently tested according to the requirements of IEC 60529 to meet IP 66 and IP 67.

Conditions of Manufacture

The Manufacturer shall comply with the following:

1. The following routine tests shall be performed on each product manufactured:
 - The encapsulated parts of the apparatus shall be subjected to a visual inspection. No visible damage of the compound shall be evident, such as cracks, exposure of the encapsulated parts, flaking, impermissible shrinkage, discoloration, swelling decomposition or softening, as required by IEC 60079-18:2009 Clause 9.1.
 - An electric strength test of $2U + 1000$ V (where U is the supply voltage) with a minimum of 1500 V ac, shall be applied between circuit and casing for at least 1 minute as required by IEC 60079-7:2006, Clause 6.1. No breakdown shall occur.



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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above):

Issue 1 to Issue 4 – for changes refer to Issue 4

Issue 5 – this Issue introduced the following changes:

1. The introduction of an optional alternative aluminium housing, which may have a powder coating.
2. The recognition that the aluminium version may use an alternative end cap gasket.
3. The introduction of an optional safety strap and terminal block sizes for all models was authorised.
4. The replacement of copper and brass external earth components with stainless steel versions for corrosive environments was approved.

Issue 6 – this Issue introduced the following changes:

1. The introduction of alternative internal pluggable connectors.

Issue 7 – this Issue introduced the following changes:

1. The Applicant and Manufacturer's name and address were changed
From:
Dialight Europe PLC
Exning Road
Newmarket
Suffolk CB8 0AX
UK
To:
Dialight Corporation
1501 Route 34 South
Farmingdale
New Jersey 07727
USA