IECEx Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION
IEC Certification System for Explosive Atmospheres

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

Certificate No.: **IECEx SIR 08.0018X**

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Certificate history:

Issue 4 (2018-12-07)
Issue 3 (2016-06-02)
Issue 2 (2014-08-21)
Issue 1 (2013-01-18)
Issue 0 (2011-08-12)

Status: **Current**

Issue No: 5

Date of Issue: 2019-03-28

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

Equipment: **L810 Obstruction Light**

Optional accessory:

Type of Protection: **Type 'n'**

Marking: Ex nA IIC T4 Gc (Ta = -55°C to +55°C)

Approved for issue on behalf of the IECEx Certification Body: **N Jones**

Position: **Certification Manager**

Signature:
(for printed version)

Date:
(for printed version)

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 www.iecex.com or use of this QR Code.

Certificate issued by:

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

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

Manufacturing locations:

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 equipment 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 Explosive atmospheres - Part 0: General requirements
Edition:6.0

IEC 60079-15:2010 Explosive atmospheres - Part 15: Equipment protection by type of protection "n"
Edition:4

This Certificate **does not** indicate compliance with 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 Reports:

GB/SIR/ExTR08.0048/00
GB/SIR/ExTR11.0211/00
GB/SIR/ExTR12.0324/00
GB/SIR/ExTR14.0202/00
GB/SIR/ExTR16.0130/00
GB/SIR/ExTR18.0224/00
GB/SIR/ExTR19.0091/00

Quality Assessment Report:

GB/SIR/QAR11.0014/09

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EQUIPMENT:
Equipment and systems covered by this Certificate are as follows:

The L810 Obstruction Light comprises an aluminium base with an upper well glass. Illumination is achieved by means of eight arrays of two LEDs that are fitted inside around the circumference of a reflector. Internally, there is an encapsulated power supply. The equipment is to be terminated using individual integral wires and protected using conduit. The Obstruction Lights have two supply options, 120 VAC or 230 VAC.

L810 Coding, 860-9♣0♥-00♦

Where:
♣ = Colour Coding **R**,**B**,**G**,**Y** or **W**
♥ = Voltage Rating, 1 for 120 VAC, 2 for 230 VAC
♦ = Module, 1 for Single, 2 for Dual

SPECIFIC CONDITIONS OF USE: YES as shown below:

1. The enclosure of the Obstruction Light uses non-conducting parts that could generate an ignition-capable level of electrostatic charges under certain extreme conditions, however, because this equipment is used as a warning light to mark any obstacle that may provide a hazard to aircraft navigation, in practice the risk of electrostatic hazard caused by the equipment has been assessed as being low, nevertheless, cleaning of the equipment shall only be done with a damp cloth.
2. As aluminium is used at the accessible surface of this equipment, ignition sources due to impact and friction sparks could occur, this shall be taken into account when the Obstruction Light is being considered for the application.

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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)
Refer to annexe

Annex:

IECEx SIR 08.0018X Annexe Issue 5.pdf

Annexe to:	**IECEx SIR 08.0018X Issue 5**
Applicant:	**Dialight Corporation**
Apparatus:	**L810 Obstruction Light**

Conditions of Manufacture

The Applicant shall note the following condition of manufacture:

1. This certification only covers the AC versions listed (120VAC/230VAC) of the L810 obstruction light and does not cover any DC types of construction.

Full certificate change history

Issue 1 – this Issue introduced the following change:

1. The drawing suite was updated and minor changes were made; these amendments are administrative or involve changes to the design that do not affect the aspects of the product that are relevant to explosion safety.

Issue 2 – this Issue introduced the following change:

1. The recognition of minor drawing modifications; these amendments are administrative or involve changes to the design that do not affect the aspects of the product that are relevant to explosion safety, i.e. the material temperature limits are now detailed in '°C' in addition to '°F' and new tolerances were introduced.

Issue 3 – this Issue introduced the following changes:

1. Following reassessment against the latest edition of the standards, IEC 60079-0:2007 Ed 5 and IEC 60079-15:2005 Ed 3 were replaced by IEC 60079-0:2011 Ed 6 and IEC 60079-15:2010 Ed 4.
2. An alternate white LED was introduced which has the same characteristics as the previously assessed version.
3. An alternate green LED was introduced which has the same characteristics as the previously assessed version.
4. The change of an internal screw length that does not contribute to compliance. The screw has been lengthened from 6-32x1/4" to 6-32x3/8".

Issue 4 – this Issue introduced the following changes:

1. Change of adhesive epoxy applied on LED PCB ASSEMBLY to solder paste.
2. Minor drawings amendments, none of which affects compliance with the standards listed.

Issue 5 – this Issue introduced the following change:

1. Minor drawing amendments, none of which was deemed to affect the compliance with the standards listed.

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